GEOMATRIX

# MEMORANDUM

| | | | |
|---|---|---|---|
| **TO:** | Kathleen Goodman | **DATE:** | October 24, 2005 |
| **FROM:** | Zanna Satterwhite | **PROJ. NO.:** | 10131 |
| **CC:** | Project File | **PROJ. NAME:** | MJB North Yard |
| **SUBJECT:** | Groundwater and Soil Sampling Summary Data Quality Review – Sample Delivery Groups IH14, IH22, II03, IJ43, IJ84, and IK70 | | |

This memorandum presents a summary data quality review of 26 primary soil samples and one field duplicate soil sample, collected July 12 and 14, 2005, and seven primary groundwater samples and one field duplicate groundwater sample, collected July 21, 2005. 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 organic and/or inorganic analyses:

- Semivolatile Organic Compounds (SVOCs) by EPA Method 8270C
- Total Petroleum Hydrocarbons (TPH) as diesel and motor oil by Ecology Method NWTPH-Dx
- Total and dissolved metals by EPA Method 6010B (antimony, arsenic, cadmium, chromium, copper, lead, and zinc)
- Dissolved arsenic and antimony by EPA Method 200.8
- Total arsenic by EPA Method 7060A
- Total and dissolved lead by EPA Method 7421
- Total mercury by EPA Method 7471A
- Dissolved mercury by EPA Method 7470A
- Hexavalent chromium by SM3500Cr-D
- Sulfide by EPA Method 376.2
- Ammonia by EPA Method 350.1

- Polychlorinated Biphenyls (PCBs) by EPA Method 8082

The analyses were performed in general accordance with methods specified in Environmental Protection Agency's (EPA) *Test Methods for Evaluating Solid Waste (SW-846), January 1995* and associated revisions, EPA's *Methods for Determination of Inorganic Substances in Environmental Samples, August 1993,* and *Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.*

Sample IDs, laboratory sample IDs, and requested analyses associated with this sampling event are listed below.

| Sample ID | Matrix | Laboratory Sample ID | Requested Analyses |
|---|---|---|---|
| RI-TP-9-0.0 | Soil | IH14A | Metals |
| RI-TP-8-3.5 | Soil | IH14D | Metals |
| RI-TP-6-0.0 | Soil | IH14E; IJ43A | Metals, hex Cr |
| RI-TP-6-6.0 | Soil | IH14G | SVOCs, total Pb |
| RI-TP-4-1.0 | Soil | IH14I | Metals |
| RI-TP-4-4.5 | Soil | IH14J | Total Pb |
| RI-TP-5-5.5 | Soil | IH14L | Metals |
| RI-TP-7-5.5 | Soil | IH14M | Metals |
| RI-TP-7X-5.5 | Soil | IH14N | Metals |
| RI-TP-7-6.5 | Soil | IH14O; IK70A | SVOCs; total Pb |
| RI-TP-3-5.0 | Soil | IH14P | Metals |
| RI-TP-2-3.5 | Soil | IH14Q | Total Pb |
| RI-TP-1-1.5 | Soil | IH14S | TPH-Dx |
| RI-TP-1-3.0 | Soil | IH14T; IJ43B | Metals |
| RI-TP-1-7.0 | Soil | IH14U | Metals, PCBs, SVOCs |
| RI-TP-10-6.5 | Soil | IH14V | Total Pb |
| RI-SSOIL-4-0.25 | Soil | IH14W | PCBs |
| RI-SSOIL-3-0.25 | Soil | IH14X | Metals |
| RI-SSOIL-2-0.25 | Soil | IH14Y | Metals |
| RI-SSOIL-1-0.25 | Soil | IH14Z | Metals |
| MW-5-0.0 | Soil | IH22A | Metals |
| MW-5-5.0 | Soil | IH22B | Metals |
| MW-5-10.0 | Soil | IH22C | Metals, PCBs, SVOCs, TPH-Dx |
| MW-6-5.0 | Soil | IH22G | Metals |
| MW-6-10.0 | Soil | IH22H | Metals |
| MW-7-0.0 | Soil | IH22K | Metals |
| MW-7-5.0 | Soil | IH22M | Metals |
| MW-5-0705 | Water | II03A; IJ84A | Diss. metals, sulfide, ammonia, SVOCs, PCBs |
| MW-6-0705 | Water | II03B | Diss. metals, sulfide, ammonia |
| MW-6X-0705 | Water | II03C; IJ84C | Diss. metals, sulfide, ammonia |
| MW-1-0705 | Water | II03D; IJ84D | Diss. metals, sulfide, ammonia |

| Sample ID | Matrix | Laboratory Sample ID | Requested Analyses |
|---|---|---|---|
| MW-2-0705 | Water | II03E; IJ84E | Diss. metals, sulfide, ammonia |
| MW-3-0705 | Water | II03F; IJ84F | Diss. metals, sulfide, ammonia |
| MW-4-0705 | Water | II03G; IJ84G | Diss. metals, sulfide, ammonia |
| MW-7-0705 | Water | II03H; IJ84H | Diss. metals, sulfide, ammonia |

Upon receipt by ARI, the sample jar information was compared to the chain-of-custody. The temperatures of the coolers were recorded as part of the check-in procedure. There were no discrepancies noted at the time of receipt and the temperatures of the coolers were within the acceptable range of 4 +/- 2 °C, with the following exceptions: three coolers associated with SDGs II03, IH22, and IJ84 were received at 0 °C. The results are not qualified due to the low temperatures.

Data review is based on method performance criteria. The laboratory provided a validatable package containing summarized sample results and associated QA/QC data as well as instrument printouts and sample preparation and injection log pages. The data review conducted on these SDGs included a review of summarized results and QA/QC data. Hold times, initial and continuing calibrations, internal standards, method blanks, surrogate recoveries, laboratory control samples (LCS), matrix spike/matrix spike duplicate (MS/MSD) results, field duplicate results, and reporting limits were reviewed to assess compliance with applicable methods. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in the 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 SVOCs and TPH-Dx by the methods identified in the introduction to this report, and were evaluated for the following criteria.

1. Holding Times – Acceptable

2. Blanks – Acceptable except as noted:

   No trip blanks or equipment blanks were submitted in this sampling event. A method blank was prepared with each laboratory sample batch.

   SVOCs by EPA Method 8270C: Target compounds were not detected in the method blanks, with one exception. Di-n-butylphthalate was detected in the method blank associated with SDG II03 at 1.2 ug/L. The di-n-butylphthalate result in the associated sample was non-detect; therefore, sample results were not qualified.

3. Surrogates – Acceptable except as noted:

   SVOCs by EPA Method 8270C: The surrogate recovery for d14-p-terphenyl in sample RI-TP-1-7.0 in SDG IH14 was below the control limit of 39%, at 35.4%. The surrogate recovery for d14-p-terphenyl in the matrix spike for sample RI-TP-1-7.0 was also below the control limit of 39%, at 37.3%. Matrix spike duplicate recoveries were okay. The surrogate recovery for d14-p-terphenyl in sample MW-5-10.0 (IH22) was below control limits of 39%, at 31.2%. In all three cases, since only one surrogate compound was outside control limits, and recoveries were above 10%, no results were qualified.

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

   SVOCs by EPA Method 8270C: RPD for 1,4-dichlorobenzene in the SVOCs LCS/LCSD pair in SDG II03 exceeded the control limit of 35%. This should be noted when using data.

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

   SVOCs by EPA Method 8270C: see Surrogates section above.

5. Field Duplicates – Acceptable:

   No field duplicates for organic analyses were collected during this sampling event.

6. Reporting Limits – Acceptable

## INORGANIC ANALYSES

Samples were analyzed for total and dissolved metals, hexavalent chromium, sulfide, ammonia, and PCBs by the methods identified in the introduction to this report.

1. Holding Times – Acceptable except as noted:

   Hexavalent Chromium by SM3500Cr-D: Sample RI-TP-6-0.0, associated with SDGs IH14 and IJ43, was analyzed on 8/15/05, six days past the holding time of 28 days. Hexavalent chromium was not detected in the sample. The hexavalent chromium result in sample RI-TP-6-0.0 was qualified as estimated and flagged "UJ".

2. Blanks – Acceptable except as noted:

   No equipment blanks were submitted in this sampling event. A method blank was prepared with each laboratory sample batch. Target compounds were not detected in the method blanks.

3. Laboratory Control Samples (LCS or Blank Spike) – Acceptable

4. Laboratory Duplicates – Acceptable except as noted:

   Total Metals by EPA 6010B: A lab duplicate was performed with sample MW-5-0.0 (SDG IH22). The RPDs for lead and zinc were above the 20% QC limit, at 28.6% and 37.2%, respectively. The percent recoveries for these elements were within acceptable QC limits for the corresponding LCS. However, since the results in the primary and duplicate sample were greater than 5 times the detection limit in both cases, the results for lead and zinc for sample MW-5-0.0 were qualified as estimated and flagged "J".

5. Matrix Spike (MS) – Acceptable except as noted:

   Total Metals by EPA 6010B:
   A MS was prepared with sample RI-TP-9-0.0 (SDG IH14). The percent recoveries for antimony, copper, and zinc were not within control limits (75 to 125%) for the MS, despite reanalysis by the lab (antimony recovery was 19.7%; copper and zinc were 131% and 134%, respectively). Copper and zinc results for RI-TP-9-0.0 were qualified as estimated high and flagged "J+", and antimony result (non-detect) for RI-TP-9-0.0 was qualified as unusable and flagged "R".

6. Field Duplicates – Acceptable except as noted:

   Two field duplicates were collected during this sample event. One field duplicate was collected with sample MW-6-0705 and identified as MW-6X-0705, and the other field duplicate was collected with sample RI-TP-7-5.5 and identified as RI-TP-7X-5.5. The RPD is not calculated if both results are less than five times the

reporting limit, as indicated on the table with a "NC". The RPDs were less than the project specific control limit of 30 percent, with the bolded exceptions listed in the table below. The primary and duplicate results were qualified as estimated and flagged with a "J" if the duplicate RPD was greater than 30 percent.

| Sample ID/ Field Duplicate ID | SDG | Analyte | Primary Result (mg/L or mg/kg) | Duplicate Result (mg/L or mg/kg) | RPD (%) |
|---|---|---|---|---|---|
| MW-6-0705/MW-6X-0705 | II03 | chromium | 0.005 | 0.006 | NC |
| | II03 | ammonia | 1.71 | 1.68 | 1.8 |
| RI-TP-7-5.5/RI-TP-7X-5.5 | IH14 | chromium | 30.0 | 24.1 | 21.8 |
| | | **copper** | **30.1** | **22.0** | **31.1** |
| | | lead | 8 | 8 | 0 |

7. Reporting Limits – Acceptable except as noted:

   Dissolved Metals by EPA Methods 6010B and 200.8 – The reporting limits (50 and 100 ug/L) for dissolved arsenic in all samples in SDG II03 was greater than the Model Toxics Control Act (MTCA) Method A cleanup level for arsenic (5 ug/L). The reporting limits (50 and 100 ug/L) for dissolved antimony in all samples in SDG II03 was greater than the Model Toxics Control Act (MTCA) Method B cleanup level for antimony (6.4 ug/L). All samples were re-analyzed using EPA Method 200.8 using lower detection limits and reported in SDG IJ84 with maximum reporting limits of 1 ug/L (arsenic) and 2 ug/L (antimony). The dissolved antimony and arsenic results from SDG IJ84 are reported in place of the results from SDG II03.

   Total Metals by EPA Method 6010B – The reporting limit (30 mg/kg) for total arsenic in sample RI-TP-1-3.0 in SDG IH14 was greater than the Model Toxics Control Act (MTCA) Method A cleanup level for arsenic (20 mg/kg). This sample was re-analyzed using EPA Method 7060A with a reporting limit of 0.1 mg/kg, and is reported in SDG IJ43.

## OVERALL ASSESSMENT OF DATA

The completeness of ARI SDGs IH14, IH22, II03, IJ43, IJ84, and IK70 is 100 percent. The data usability is based on USEPA guidance documents 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. The following table summarizes the sample IDs and qualified results.

| Sample | Qualified Analyte | Qualified Result | Units | Qualifier Reason |
|---|---|---|---|---|
| RI-TP-9-0.0 | copper<br>zinc<br>antimony | 81.5 J+<br>124 J+<br>10 UR | mg/kg<br>mg/kg<br>mg/kg | high MS %recovery<br>high MS %recovery<br>low MS %recovery |
| RI-TP-8-3.5 | none | | | |
| RI-TP-6-0.0 | hexavalent chromium | <0.118 UJ | mg/kg | holding time exceedence |
| RI-TP-6-6.0 | none | | | |
| RI-TP-4-1.0 | none | | | |
| RI-TP-4-4.5 | none | | | |
| RI-TP-5-5.5 | none | | | |
| RI-TP-7-5.5 | copper | 30.1 J | mg/kg | field duplicate RPD |
| RI-TP-7X-5.5 | copper | 22 J | mg/kg | field duplicate RPD |
| RI-TP-7-6.5 | none | | | |
| RI-TP-3-5.0 | none | | | |
| RI-TP-2-3.5 | none | | | |
| RI-TP-1-1.5 | none | | | |
| RI-TP-1-3.0 | none | | | |
| RI-TP-1-7.0 | none | | | |
| RI-TP-10-6.5 | none | | | |
| RI-SSOIL-4-0.25 | none | | | |
| RI-SSOIL-3-0.25 | none | | | |
| RI-SSOIL-2-0.25 | none | | | |
| RI-SSOIL-1-0.25 | none | | | |
| MW-5-0.0 | lead<br>zinc | 18 J<br>568 J | mg/kg<br>mg/kg | lab duplicate RPD<br>lab duplicate RPD |
| MW-5-5.0 | none | | | |
| MW-5-10.0 | none | | | |
| MW-6-5.0 | none | | | |
| MW-6-10.0 | none | | | |
| MW-7-0.0 | none | | | |
| MW-7-5.0 | none | | | |
| MW-5-0705 | none | | | |
| MW-6-0705 | none | | | |
| MW-6X-0705 | none | | | |
| MW-1-0705 | none | | | |
| MW-2-0705 | none | | | |
| MW-3-0705 | none | | | |
| MW-4-0705 | none | | | |
| MW-7-0705 | none | | | |

**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

GEOMATRIX
Received
AUG - 9 2005
SEATTLE

5 August 2005

Kathleen Goodman
Geomatrix Consultants
600 University Ave., Suite 1020
Seattle, WA 98101

**RE: Project – 10131, MJB North**
**ARI Job No. IH14**

Dear Kathleen:

Please find enclosed the original chain of custody records and the final results for the samples from the project referenced above.

Twenty-six soil samples were received intact on July 13, 2005. Six samples were placed on hold as specified. The remaining samples were analyzed for SVOAs, PCBs, NWTPH-Dx and total metals as requested.

A matrix spike (MS) and a matrix spike duplicate (MSD) were extracted and analyzed for SVOAs in conjunction with sample RI-TP-1-7.0. The percent recoveries for the surrogate, d14-p-terphenyl, were low following the initial analyses of sample RI-TP-1-7.0 and the corresponding MS. The percent recovery for d14-p-terphenyl was low but within established QC limits for the MSD. Since the percent recoveries for all surrogates were at a comparably low level for the sample, the MS and the MSD, it was concluded that the sample matrix was the cause of the low d14-p-trephenyl recoveries. No corrective actions were taken.

An MS and a matrix duplicate (MD) were prepared and analyzed for total metals in conjunction with sample RI-TP-9-0.0. The percent recoveries for copper, lead and zinc were not within control limits following the initial analysis of the MS. The RPD for lead was high following the initial analysis of the MD. The affected samples were re-prepared and re-analyzed. The percent recoveries for copper and zinc were not within control limits for the re-analysis of the MS. Since the percent recoveries for all elements were within acceptable QC limits for the corresponding LCSs, it was concluded that the sample matrix was the cause of the poor MS recoveries. No further corrective actions were taken. The results for the re-analyses only have been submitted for the QC samples.

No further analytical complications were noted.

**Goodman, Geomatrix**
**10131, MJB North**
**Soil**
**IH14**

**5 August 2005**

Copies of these reports and all associated raw data will be kept on file at 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
mark@arilabs.com
206/695-6210

Enclosures

cc: file IH14

MDH/mdh

# Chain of Custody Record & Laboratory Analysis Request

| | | | |
|---|---|---|---|
| ARI Assigned Number: I414 | Turn-around Requested: Standard | Page: 1 of 3 | |
| ARI Client Company: Geomatrix | Phone: 206 342 1780 | Date: 7/13/05 | Ice Present? YES |
| Client Contact: Kathleen Goodman | | No. of Coolers: | Cooler Temps: 4.5 |
| Client Project Name: MJB North | | | |
| Client Project #: 10131 | Samplers: Zanna Sattenwhite | | |


Analytical Resources, Inc.
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 | Metals - EPA 6010B/7421/7471A * | Hex Cr. | PCBs EPA 8082 | PAHs EPA 8270C | | | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RI-TP-9-0.0 | 7/12/05 | 0746 | S | 1 | X | | | | | | | | All analyses on hold until further notification (7/13/05 1202) |
| RI-TP-8-0.0 | | 0827 | S | 1 | | | | | | | | | |
| RI-TP-8-1.5 | | 0829 | S | 1 | | | | | | | | | |
| RI-TP-8-3.5 | | 0831 | S | 1 | | | | | | | | | |
| RI-TP-6-0.0 | | 0908 | S | 1 | | | | | | | | | |
| RI-TP-6-1.0 | | 0910 | S | 1 | | | | | | | | | |
| RI-TP-6-6.0 | | 0912 | S | 4 | | | | | | | | | |
| RI-TP-4-0.0 | | 1005 | S | 1 | | | | | | | | | |
| RI-TP-4-1.0 | | 1007 | S | 1 | | | | | | | | | |
| RI-TP-4-4.5 | | 1009 | S | 2 | | | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Comments/Special Instructions: * Metals: Ant., As, Cd, Cr, Cu, Pb, Hg, Zn | Relinquished by: (Signature) Zanna Sattenwhite | Received by: (Signature) Eric Branson | Relinquished by: (Signature) | Received by: (Signature) |
| | Printed Name: Zanna Sattenwhite | Printed Name: ERIC BRANSON | Printed Name: | Printed Name: |
| | Company: Geomatrix | Company: ARI | Company: | Company: |
| | Date & Time: 7/13/05 1202 | Date & Time: 7/13/05 - 1202 | Date & Time: | Date & Time: |

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

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

# Chain of Custody Record & Laboratory Analysis Request

| | | | |
|---|---|---|---|
| ARI Assigned Number: | Turn-around Requested: Standard | Page: 2 of 3 | |
| ARI Client Company: Geomatrix | Phone: | Date: 7/13/05 | Ice Present? |
| Client Contact: Kathleen Goodman | | No. of Coolers: | Cooler Temps: |
| Client Project Name: MTB North | | | |
| Client Project #: 10131 | Samplers: Zanna Sattenwhite | | |


Analytical Resources, Inc.
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 | Metals-EPA 6010B/7421/7471A* | Hex Cr. | PCBs EPA 8082 | PAHs EPA 8270C | | | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RI-TP-5-4.0 | 7/12/05 | 1101 | S | 1 | | | | | | | | | All analyses on hold until further notification (7/13/05 1202) |
| RI-TP-5-5.5 | | 1103 | S | 1 | | | | | | | | | |
| RI-TP-7-5.5 | | 1145 | S | 3 | | | | | | | | | |
| RI-TP-7X-5.5 | | 1145 | S | 1 | | | | | | | | | |
| RI-TP-7-6.5 | | 1202 | S | 2 | | | | | | | | | |
| RI-TP-3-5.0 | | 1239 | S | 1 | X | | | | | | | | |
| RI-TP-2-3.5 | | 1313 | S | 2 | | | | | | | | | |
| RI-TP-2-1.0 | | 1315 | S | 2 | | | | | | | | | |
| RI-TP-1-1.5 | | 1359 | S | 2 | | | | | | | | | |
| RI-TP-1-3.0 | ↓ | 1401 | S | 2 | | | | | | | | | |

Comments/Special Instructions
* Metals: Ant., As, Cd, Cr, Cu, Pb, Hg, Zn

| | | | |
|---|---|---|---|
| Relinquished by: (Signature) Zanna Sattenwhite | Received by: (Signature) Eric Branson | Relinquished by: (Signature) | Received by: (Signature) |
| Printed Name: Zanna Sattenwhite | Printed Name: ERIC BRANSON | Printed Name: | Printed Name: |
| Company: Geomatrix | Company: ARI | Company: | Company: |
| Date & Time: 7/13/05 1202 | Date & Time: 7/13/05 - 1202 | Date & Time: | Date & Time: |


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

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

# Chain of Custody Record & Laboratory Analysis Request

| | |
|---|---|
| ARI Assigned Number: | Turn-around Requested: Standard |
| ARI Client Company: Geomatrix | Phone: 206 342 1750 |
| Client Contact: Kathleen Goodman | |
| Client Project Name: MJB North | |
| Client Project #: 10131 | Samplers: Zanna Sattenwhite |

Page: 3 of 3

Date: 7/13/05 | 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 | Metals - EPA 6010B/7421/7471A * | Hex. Cr. | PCBs EPA 8082 | PAHs EPA 8270C | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|
| RI-TP-1-7.0 | 7/12/05 | 1403 | S | 3 | X | | X | X | All analyses on hold until further notification (7/13/05 1202) |
| KI-tp-10-6.5 | | 1450 | S | 2 | | | | | |
| RI-SS01L-4-0.25 | | 1552 | S | 3 | | | X | | |
| RI-SS01L-3-0.25 | | 1612 | S | 2 | X | | | | |
| RI-SS01L-2-0.25 | | 1620 | S | 2 | X | | | | |
| RI-SS01L-1-0.25 | | 1629 | S | 2 | X | | | | |
| | | | | | | | | | |
| | | | | ZAS | 7/13/05 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Comments/Special Instructions
*Metals: Ant., As, Cd, Cr, Cu, Pb, Hg, Zn

| | Relinquished by: | Received by: | Relinquished by: | Received by: |
|---|---|---|---|---|
| (Signature) | Zanna Sattenwhite | ERIC BRANSON | | |
| Printed Name: | Zanna Sattenwhite | ERIC BRANSON | | |
| Company: | Geomatrix | ARI | | |
| Date & Time: | 7/13/05 1202 | 7/13/05 1702 | | |

***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: I14 | Turn-around Requested: Standard | Page: 1 | of 3 |
| ARI Client Company: | Phone: | Date: 7/13/05 | Ice Present? |
| Client Contact: | | No. of Coolers: | Cooler Temps: Y |
| Client Project Name: | | | |
| Client Project #: | Samplers: | | |


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 | | | | | | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| | 7/11/05 | 0736 | S | 1 | X | | | | | | | | |
| | | 0827 | S | 1 | — | | HOLD | — | | | | | |
| | | 0829 | S | 1 | — | HOLD | | — | | | | | |
| | | 0851 | S | 1 | X | | | | | | | | |
| | | 0855 | S | 1 | X | | | | | | | | |
| | | 0913 | S | 1 | | — | HOLD | | | | | | |
| | | 0926 | S | 4 | | | | X | X | | HOLD | 1 JAR (2 JARS TO EXT.) | |
| | | 0940 | S | 1 | | — | HOLD | | — | | | | |
| | | 0957 | S | 1 | X | | | | | | | | |
| | | 1002 | S | 1 | | | | | X | | | | HOLD 1 JAR |

| Comments/Special Instructions | Relinquished by: (Signature) | Received by: (Signature) | Relinquished by: (Signature) | Received by: (Signature) |
|---|---|---|---|---|
| | Printed Name: | Printed Name: | Printed Name: | Printed Name: |
| | Company: | Company: ARI | Company: | Company: |
| | Date & Time: 7/15/05 1202 | Date & Time: 7/15/05 1202 | Date & Time: | Date & Time: |

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

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

# Chain of Custody Record & Laboratory Analysis Request

| | | | |
|---|---|---|---|
| ARI Assigned Number: | Turn-around Requested: Std. unless noted | Page: 1 of 3 | |
| ARI Client Company: | Phone: | Date: 7/15/05 | Ice Present? |
| Client Contact: | | No. of Coolers: | Cooler Temps: |
| Client Project Name: | | | |
| Client Project #: | Samplers: | | |


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 | | | | | | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| | 7/14/05 | 1141 | S | 1 | | — | HOLD | — | | | | | |
| | | 1153 | S | 1 | X | | | | | | | | |
| | | 1158 | S | 3 | X | — | | HOLD | | 2 | JARS | — | |
| | | 1115 | S | 1 | X | | | | | | | | |
| | | 1302 | S | 2 | | | | X | | NO | HOLD | | (2 TO GO) |
| | | 1157 | S | 1 | X | | | | | | | | |
| | | 1313 | S | 2 | | | | | X | | HOLD | | 1 JAR |
| | | 1315 | S | 2 | | — | | HOLD | | — | | | |
| | | 1159 | S | 2 | | | | | | X | | | HOLD 1 JAR |
| | ↓ | 1101 | S | 2 | X | X | | | | | | | HOLD 1 JAR |

| Comments/Special Instructions | Relinquished by: (Signature) | Received by: (Signature) | Relinquished by: (Signature) | Received by: (Signature) |
|---|---|---|---|---|
| * Metals: As, Cd, Cr, Cu, Pb, Hg, Zn | | | | |
| *Silica gel/acetone cleanup on TPH-Dx | Printed Name: Zarina Sattarwalla | Printed Name: [illegible] | Printed Name: | Printed Name: |
| | Company: Geomatrix | Company: ARI | Company: | Company: |
| | Date & Time: 7/15/05 1302 | Date & Time: 7/15/05 1302 | Date & Time: | Date & Time: |

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

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

# Chain of Custody Record & Laboratory Analysis Request

| | |
|---|---|
| ARI Assigned Number: | Turn-around Requested: Standard |
| ARI Client Company: Geomatrix | Phone: 206 342 1780 |
| Client Contact: [illegible] | |
| Client Project Name: [illegible] | |
| Client Project #: | Samplers: [illegible] |

| | |
|---|---|
| Page: 3 | of 3 |
| Date: 7/31/05 | 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 | Analysis Requested | Notes/Comments |
|---|---|---|---|---|---|---|
| [illegible] | 7/30/05 | [illegible] | S | 3 | | 1 8oz |
| [illegible] | | [illegible] | S | 2 | | HOLD 1 JAR |
| SL-SSOL-4-0.25 | | 1052 | S | 3 | -8oz | HOLD 2 JARS |
| SL-SSOL-3-0.25 | | 1612 | S | 2 | | HOLD 1 JAR |
| SL-SSOL-2-0.25 | | 1630 | S | 2 | | K " |
| SL-SSOL-1-0.25 | ↓ | 1629 | S | 2 | | K " |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | | |
|---|---|---|---|---|
| Comments/Special Instructions: [illegible] | Relinquished by: (Signature) [illegible] | Received by: (Signature) [illegible] | Relinquished by: (Signature) | Received by: (Signature) |
| | Printed Name: [illegible] | Printed Name: [illegible] | Printed Name: | Printed Name: |
| | Company: [illegible] | Company: ARI | Company: | Company: |
| | Date & Time: 7/30/05 [illegible] | Date & Time: 7/30/05 1702 | Date & Time: | Date & Time: |

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

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

# Data Reporting Qualifiers

Effective 12/28/04

## Inorganic Data

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

* Duplicate RPD is not within established control limits

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

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

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

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

## Organic Data

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

* Flagged value is not within established control limits

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

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

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

NR Spiked compound recovery is not reported due to chromatographic interference

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

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

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

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

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

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

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

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

## Geotechnical Data

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

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

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

F Samples were frozen prior to particle size determination

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MB-071905
METHOD BLANK

Lab Sample ID: MB-071905
LIMS ID: 05-11750
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Date Extracted: 07/19/05
Date Analyzed: 07/21/05 11:45
Instrument/Analyst: NT4/VTS
GPC Cleanup: No

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

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 67 | < 67 U |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 67 | < 67 U |
| 95-57-8 | 2-Chlorophenol | 67 | < 67 U |
| 541-73-1 | 1,3-Dichlorobenzene | 67 | < 67 U |
| 106-46-7 | 1,4-Dichlorobenzene | 67 | < 67 U |
| 100-51-6 | Benzyl Alcohol | 330 | < 330 U |
| 95-50-1 | 1,2-Dichlorobenzene | 67 | < 67 U |
| 95-48-7 | 2-Methylphenol | 67 | < 67 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 67 | < 67 U |
| 106-44-5 | 4-Methylphenol | 67 | < 67 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 330 | < 330 U |
| 67-72-1 | Hexachloroethane | 67 | < 67 U |
| 98-95-3 | Nitrobenzene | 67 | < 67 U |
| 78-59-1 | Isophorone | 67 | < 67 U |
| 88-75-5 | 2-Nitrophenol | 330 | < 330 U |
| 105-67-9 | 2,4-Dimethylphenol | 67 | < 67 U |
| 65-85-0 | Benzoic Acid | 670 | < 670 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 67 | < 67 U |
| 120-83-2 | 2,4-Dichlorophenol | 330 | < 330 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 67 | < 67 U |
| 91-20-3 | Naphthalene | 67 | < 67 U |
| 106-47-8 | 4-Chloroaniline | 330 | < 330 U |
| 87-68-3 | Hexachlorobutadiene | 67 | < 67 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330 | < 330 U |
| 91-57-6 | 2-Methylnaphthalene | 67 | < 67 U |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | < 330 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330 | < 330 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 330 | < 330 U |
| 91-58-7 | 2-Chloronaphthalene | 67 | < 67 U |
| 88-74-4 | 2-Nitroaniline | 330 | < 330 U |
| 131-11-3 | Dimethylphthalate | 67 | < 67 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MB-071905
METHOD BLANK

Lab Sample ID: MB-071905
LIMS ID: 05-11750
Matrix: Soil
Date Analyzed: 07/21/05 11:45

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 208-96-8 | Acenaphthylene | 67 | < 67 U |
| 99-09-2 | 3-Nitroaniline | 330 | < 330 U |
| 83-32-9 | Acenaphthene | 67 | < 67 U |
| 51-28-5 | 2,4-Dinitrophenol | 670 | < 670 U |
| 100-02-7 | 4-Nitrophenol | 330 | < 330 U |
| 132-64-9 | Dibenzofuran | 67 | < 67 U |
| 606-20-2 | 2,6-Dinitrotoluene | 330 | < 330 U |
| 121-14-2 | 2,4-Dinitrotoluene | 330 | < 330 U |
| 84-66-2 | Diethylphthalate | 67 | < 67 U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 67 | < 67 U |
| 86-73-7 | Fluorene | 67 | < 67 U |
| 100-01-6 | 4-Nitroaniline | 330 | < 330 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 670 | < 670 U |
| 86-30-6 | N-Nitrosodiphenylamine | 67 | < 67 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 67 | < 67 U |
| 118-74-1 | Hexachlorobenzene | 67 | < 67 U |
| 87-86-5 | Pentachlorophenol | 330 | < 330 U |
| 85-01-8 | Phenanthrene | 67 | < 67 U |
| 86-74-8 | Carbazole | 67 | < 67 U |
| 120-12-7 | Anthracene | 67 | < 67 U |
| 84-74-2 | Di-n-Butylphthalate | 67 | < 67 U |
| 206-44-0 | Fluoranthene | 67 | < 67 U |
| 129-00-0 | Pyrene | 67 | < 67 U |
| 85-68-7 | Butylbenzylphthalate | 67 | < 67 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 330 | < 330 U |
| 56-55-3 | Benzo(a)anthracene | 67 | < 67 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 67 | < 67 U |
| 218-01-9 | Chrysene | 67 | < 67 U |
| 117-84-0 | Di-n-Octyl phthalate | 67 | < 67 U |
| 205-99-2 | Benzo(b)fluoranthene | 67 | < 67 U |
| 207-08-9 | Benzo(k)fluoranthene | 67 | < 67 U |
| 50-32-8 | Benzo(a)pyrene | 67 | < 67 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 67 | < 67 U |
| 53-70-3 | Dibenz(a,h)anthracene | 67 | < 67 U |
| 191-24-2 | Benzo(g,h,i)perylene | 67 | < 67 U |

Reported in µg/kg (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 58.8% | 2-Fluorobiphenyl | 59.6% |
| d14-p-Terphenyl | 70.0% | d4-1,2-Dichlorobenzene | 56.8% |
| d5-Phenol | 60.0% | 2-Fluorophenol | 60.3% |
| 2,4,6-Tribromophenol | 58.1% | d4-2-Chlorophenol | 58.9% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-6-6.0
SAMPLE

Lab Sample ID: IH14G
LIMS ID: 05-11750
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/19/05
Date Analyzed: 07/21/05 12:53
Instrument/Analyst: NT4/VTS
GPC Cleanup: No

Sample Amount: 7.77 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 8.6%
pH: 8.9

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 64 | < 64 U |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 64 | < 64 U |
| 95-57-8 | 2-Chlorophenol | 64 | < 64 U |
| 541-73-1 | 1,3-Dichlorobenzene | 64 | < 64 U |
| 106-46-7 | 1,4-Dichlorobenzene | 64 | < 64 U |
| 100-51-6 | Benzyl Alcohol | 320 | < 320 U |
| 95-50-1 | 1,2-Dichlorobenzene | 64 | < 64 U |
| 95-48-7 | 2-Methylphenol | 64 | < 64 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 64 | < 64 U |
| 106-44-5 | 4-Methylphenol | 64 | < 64 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 320 | < 320 U |
| 67-72-1 | Hexachloroethane | 64 | < 64 U |
| 98-95-3 | Nitrobenzene | 64 | < 64 U |
| 78-59-1 | Isophorone | 64 | < 64 U |
| 88-75-5 | 2-Nitrophenol | 320 | < 320 U |
| 105-67-9 | 2,4-Dimethylphenol | 64 | < 64 U |
| 65-85-0 | Benzoic Acid | 640 | < 640 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 64 | < 64 U |
| 120-83-2 | 2,4-Dichlorophenol | 320 | < 320 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 64 | < 64 U |
| **91-20-3** | **Naphthalene** | **64** | **210** |
| 106-47-8 | 4-Chloroaniline | 320 | < 320 U |
| 87-68-3 | Hexachlorobutadiene | 64 | < 64 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 320 | < 320 U |
| **91-57-6** | **2-Methylnaphthalene** | **64** | **100** |
| 77-47-4 | Hexachlorocyclopentadiene | 320 | < 320 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 320 | < 320 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 320 | < 320 U |
| 91-58-7 | 2-Chloronaphthalene | 64 | < 64 U |
| 88-74-4 | 2-Nitroaniline | 320 | < 320 U |
| 131-11-3 | Dimethylphthalate | 64 | < 64 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-6-6.0
SAMPLE

Lab Sample ID: IH14G
LIMS ID: 05-11750
Matrix: Soil
Date Analyzed: 07/21/05 12:53

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 208-96-8 | Acenaphthylene | 64 | < 64 U |
| 99-09-2 | 3-Nitroaniline | 320 | < 320 U |
| **83-32-9** | **Acenaphthene** | **64** | **430** |
| 51-28-5 | 2,4-Dinitrophenol | 640 | < 640 U |
| 100-02-7 | 4-Nitrophenol | 320 | < 320 U |
| **132-64-9** | **Dibenzofuran** | **64** | **150** |
| 606-20-2 | 2,6-Dinitrotoluene | 320 | < 320 U |
| 121-14-2 | 2,4-Dinitrotoluene | 320 | < 320 U |
| 84-66-2 | Diethylphthalate | 64 | < 64 U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 64 | < 64 U |
| **86-73-7** | **Fluorene** | **64** | **270** |
| 100-01-6 | 4-Nitroaniline | 320 | < 320 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 640 | < 640 U |
| 86-30-6 | N-Nitrosodiphenylamine | 64 | < 64 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 64 | < 64 U |
| 118-74-1 | Hexachlorobenzene | 64 | < 64 U |
| 87-86-5 | Pentachlorophenol | 320 | < 320 U |
| **85-01-8** | **Phenanthrene** | **64** | **680** |
| 86-74-8 | Carbazole | 64 | < 64 U |
| **120-12-7** | **Anthracene** | **64** | **88** |
| 84-74-2 | Di-n-Butylphthalate | 64 | < 64 U |
| **206-44-0** | **Fluoranthene** | **64** | **460** |
| **129-00-0** | **Pyrene** | **64** | **220** |
| 85-68-7 | Butylbenzylphthalate | 64 | < 64 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 320 | < 320 U |
| **56-55-3** | **Benzo(a)anthracene** | **64** | **94** |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 64 | < 64 U |
| **218-01-9** | **Chrysene** | **64** | **96** |
| 117-84-0 | Di-n-Octyl phthalate | 64 | < 64 U |
| 205-99-2 | Benzo(b)fluoranthene | 64 | < 64 U |
| 207-08-9 | Benzo(k)fluoranthene | 64 | < 64 U |
| 50-32-8 | Benzo(a)pyrene | 64 | < 64 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 64 | < 64 U |
| 53-70-3 | Dibenz(a,h)anthracene | 64 | < 64 U |
| 191-24-2 | Benzo(g,h,i)perylene | 64 | < 64 U |

Reported in µg/kg (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 65.6% | 2-Fluorobiphenyl | 71.2% |
| d14-p-Terphenyl | 58.4% | d4-1,2-Dichlorobenzene | 55.6% |
| d5-Phenol | 64.0% | 2-Fluorophenol | 62.7% |
| 2,4,6-Tribromophenol | 63.2% | d4-2-Chlorophenol | 61.6% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-7-6.5
SAMPLE

Lab Sample ID: IH140
LIMS ID: 05-11758
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/19/05
Date Analyzed: 07/21/05 13:26
Instrument/Analyst: NT4/VTS
GPC Cleanup: No

Sample Amount: 7.93 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.9%
pH: 7.2

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 63 | < 63 U |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 63 | < 63 U |
| 95-57-8 | 2-Chlorophenol | 63 | < 63 U |
| 541-73-1 | 1,3-Dichlorobenzene | 63 | < 63 U |
| 106-46-7 | 1,4-Dichlorobenzene | 63 | < 63 U |
| 100-51-6 | Benzyl Alcohol | 320 | < 320 U |
| 95-50-1 | 1,2-Dichlorobenzene | 63 | < 63 U |
| 95-48-7 | 2-Methylphenol | 63 | < 63 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 63 | < 63 U |
| 106-44-5 | 4-Methylphenol | 63 | < 63 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 320 | < 320 U |
| 67-72-1 | Hexachloroethane | 63 | < 63 U |
| 98-95-3 | Nitrobenzene | 63 | < 63 U |
| 78-59-1 | Isophorone | 63 | < 63 U |
| 88-75-5 | 2-Nitrophenol | 320 | < 320 U |
| 105-67-9 | 2,4-Dimethylphenol | 63 | < 63 U |
| 65-85-0 | Benzoic Acid | 630 | < 630 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 63 | < 63 U |
| 120-83-2 | 2,4-Dichlorophenol | 320 | < 320 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 63 | < 63 U |
| **91-20-3** | **Naphthalene** | **63** | **600** |
| 106-47-8 | 4-Chloroaniline | 320 | < 320 U |
| 87-68-3 | Hexachlorobutadiene | 63 | < 63 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 320 | < 320 U |
| **91-57-6** | **2-Methylnaphthalene** | **63** | **510** |
| 77-47-4 | Hexachlorocyclopentadiene | 320 | < 320 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 320 | < 320 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 320 | < 320 U |
| 91-58-7 | 2-Chloronaphthalene | 63 | < 63 U |
| 88-74-4 | 2-Nitroaniline | 320 | < 320 U |
| 131-11-3 | Dimethylphthalate | 63 | < 63 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-7-6.5
SAMPLE

Lab Sample ID: IH14O
LIMS ID: 05-11758
Matrix: Soil
Date Analyzed: 07/21/05 13:26

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 208-96-8 | Acenaphthylene | 63 | < 63 U |
| 99-09-2 | 3-Nitroaniline | 320 | < 320 U |
| **83-32-9** | **Acenaphthene** | **63** | **640** |
| 51-28-5 | 2,4-Dinitrophenol | 630 | < 630 U |
| 100-02-7 | 4-Nitrophenol | 320 | < 320 U |
| **132-64-9** | **Dibenzofuran** | **63** | **480** |
| 606-20-2 | 2,6-Dinitrotoluene | 320 | < 320 U |
| 121-14-2 | 2,4-Dinitrotoluene | 320 | < 320 U |
| 84-66-2 | Diethylphthalate | 63 | < 63 U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 63 | < 63 U |
| **86-73-7** | **Fluorene** | **63** | **500** |
| 100-01-6 | 4-Nitroaniline | 320 | < 320 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 630 | < 630 U |
| 86-30-6 | N-Nitrosodiphenylamine | 63 | < 63 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 63 | < 63 U |
| 118-74-1 | Hexachlorobenzene | 63 | < 63 U |
| 87-86-5 | Pentachlorophenol | 320 | < 320 U |
| **85-01-8** | **Phenanthrene** | **63** | **1,200** |
| **86-74-8** | **Carbazole** | **63** | **110** |
| **120-12-7** | **Anthracene** | **63** | **150** |
| 84-74-2 | Di-n-Butylphthalate | 63 | < 63 U |
| **206-44-0** | **Fluoranthene** | **63** | **770** |
| **129-00-0** | **Pyrene** | **63** | **370** |
| 85-68-7 | Butylbenzylphthalate | 63 | < 63 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 320 | < 320 U |
| **56-55-3** | **Benzo(a)anthracene** | **63** | **130** |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 63 | < 63 U |
| **218-01-9** | **Chrysene** | **63** | **140** |
| 117-84-0 | Di-n-Octyl phthalate | 63 | < 63 U |
| 205-99-2 | Benzo(b)fluoranthene | 63 | < 63 U |
| 207-08-9 | Benzo(k)fluoranthene | 63 | < 63 U |
| 50-32-8 | Benzo(a)pyrene | 63 | < 63 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 63 | < 63 U |
| 53-70-3 | Dibenz(a,h)anthracene | 63 | < 63 U |
| 191-24-2 | Benzo(g,h,i)perylene | 63 | < 63 U |

Reported in µg/kg (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 61.2% | 2-Fluorobiphenyl | 64.8% |
| d14-p-Terphenyl | 56.0% | d4-1,2-Dichlorobenzene | 54.0% |
| d5-Phenol | 56.3% | 2-Fluorophenol | 58.9% |
| 2,4,6-Tribromophenol | 68.5% | d4-2-Chlorophenol | 55.7% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-1-7.0
SAMPLE

Lab Sample ID: IH14U
LIMS ID: 05-11764
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/19/05
Date Analyzed: 07/21/05 14:00
Instrument/Analyst: NT4/VTS
GPC Cleanup: No

Sample Amount: 7.66 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 41.3%
pH: 8.2

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 65 | < 65 U |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 65 | < 65 U |
| 95-57-8 | 2-Chlorophenol | 65 | < 65 U |
| 541-73-1 | 1,3-Dichlorobenzene | 65 | < 65 U |
| 106-46-7 | 1,4-Dichlorobenzene | 65 | < 65 U |
| 100-51-6 | Benzyl Alcohol | 330 | < 330 U |
| 95-50-1 | 1,2-Dichlorobenzene | 65 | < 65 U |
| 95-48-7 | 2-Methylphenol | 65 | < 65 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 65 | < 65 U |
| 106-44-5 | 4-Methylphenol | 65 | < 65 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 330 | < 330 U |
| 67-72-1 | Hexachloroethane | 65 | < 65 U |
| 98-95-3 | Nitrobenzene | 65 | < 65 U |
| 78-59-1 | Isophorone | 65 | < 65 U |
| 88-75-5 | 2-Nitrophenol | 330 | < 330 U |
| 105-67-9 | 2,4-Dimethylphenol | 65 | < 65 U |
| 65-85-0 | Benzoic Acid | 650 | < 650 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 65 | < 65 U |
| 120-83-2 | 2,4-Dichlorophenol | 330 | < 330 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 65 | < 65 U |
| 91-20-3 | Naphthalene | 65 | < 65 U |
| 106-47-8 | 4-Chloroaniline | 330 | < 330 U |
| 87-68-3 | Hexachlorobutadiene | 65 | < 65 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330 | < 330 U |
| 91-57-6 | 2-Methylnaphthalene | 65 | < 65 U |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | < 330 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330 | < 330 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 330 | < 330 U |
| 91-58-7 | 2-Chloronaphthalene | 65 | < 65 U |
| 88-74-4 | 2-Nitroaniline | 330 | < 330 U |
| 131-11-3 | Dimethylphthalate | 65 | < 65 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-1-7.0
SAMPLE

Lab Sample ID: IH14U
LIMS ID: 05-11764
Matrix: Soil
Date Analyzed: 07/21/05 14:00

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 208-96-8 | Acenaphthylene | 65 | < 65 U |
| 99-09-2 | 3-Nitroaniline | 330 | < 330 U |
| 83-32-9 | Acenaphthene | 65 | < 65 U |
| 51-28-5 | 2,4-Dinitrophenol | 650 | < 650 U |
| 100-02-7 | 4-Nitrophenol | 330 | < 330 U |
| 132-64-9 | Dibenzofuran | 65 | < 65 U |
| 606-20-2 | 2,6-Dinitrotoluene | 330 | < 330 U |
| 121-14-2 | 2,4-Dinitrotoluene | 330 | < 330 U |
| 84-66-2 | Diethylphthalate | 65 | < 65 U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 65 | < 65 U |
| 86-73-7 | Fluorene | 65 | < 65 U |
| 100-01-6 | 4-Nitroaniline | 330 | < 330 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 650 | < 650 U |
| 86-30-6 | N-Nitrosodiphenylamine | 65 | < 65 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 65 | < 65 U |
| 118-74-1 | Hexachlorobenzene | 65 | < 65 U |
| 87-86-5 | Pentachlorophenol | 330 | < 330 U |
| 85-01-8 | Phenanthrene | 65 | < 65 U |
| 86-74-8 | Carbazole | 65 | < 65 U |
| 120-12-7 | Anthracene | 65 | < 65 U |
| 84-74-2 | Di-n-Butylphthalate | 65 | < 65 U |
| 206-44-0 | Fluoranthene | 65 | < 65 U |
| 129-00-0 | Pyrene | 65 | < 65 U |
| 85-68-7 | Butylbenzylphthalate | 65 | < 65 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 330 | < 330 U |
| 56-55-3 | Benzo(a)anthracene | 65 | < 65 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 65 | < 65 U |
| 218-01-9 | Chrysene | 65 | < 65 U |
| 117-84-0 | Di-n-Octyl phthalate | 65 | < 65 U |
| 205-99-2 | Benzo(b)fluoranthene | 65 | < 65 U |
| 207-08-9 | Benzo(k)fluoranthene | 65 | < 65 U |
| 50-32-8 | Benzo(a)pyrene | 65 | < 65 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 65 | < 65 U |
| 53-70-3 | Dibenz(a,h)anthracene | 65 | < 65 U |
| 191-24-2 | Benzo(g,h,i)perylene | 65 | < 65 U |

Reported in µg/kg (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 40.4% | 2-Fluorobiphenyl | 39.9% |
| d14-p-Terphenyl | 35.4% | d4-1,2-Dichlorobenzene | 35.8% |
| d5-Phenol | 35.5% | 2-Fluorophenol | 37.9% |
| 2,4,6-Tribromophenol | 38.4% | d4-2-Chlorophenol | 37.3% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-1-7.0
MATRIX SPIKE

Lab Sample ID: IH14U
LIMS ID: 05-11764
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/19/05
Date Analyzed: 07/21/05 14:34
Instrument/Analyst: NT4/VTS
GPC Cleanup: No

Sample Amount: 7.63 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 41.3%
pH: 8.2

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 66 | --- |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 66 | < 66 U |
| 95-57-8 | 2-Chlorophenol | 66 | --- |
| 541-73-1 | 1,3-Dichlorobenzene | 66 | < 66 U |
| 106-46-7 | 1,4-Dichlorobenzene | 66 | --- |
| 100-51-6 | Benzyl Alcohol | 330 | < 330 U |
| 95-50-1 | 1,2-Dichlorobenzene | 66 | < 66 U |
| 95-48-7 | 2-Methylphenol | 66 | < 66 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 66 | < 66 U |
| 106-44-5 | 4-Methylphenol | 66 | < 66 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 330 | --- |
| 67-72-1 | Hexachloroethane | 66 | < 66 U |
| 98-95-3 | Nitrobenzene | 66 | < 66 U |
| 78-59-1 | Isophorone | 66 | < 66 U |
| 88-75-5 | 2-Nitrophenol | 330 | < 330 U |
| 105-67-9 | 2,4-Dimethylphenol | 66 | < 66 U |
| 65-85-0 | Benzoic Acid | 660 | < 660 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 66 | < 66 U |
| 120-83-2 | 2,4-Dichlorophenol | 330 | < 330 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 66 | --- |
| 91-20-3 | Naphthalene | 66 | < 66 U |
| 106-47-8 | 4-Chloroaniline | 330 | < 330 U |
| 87-68-3 | Hexachlorobutadiene | 66 | < 66 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330 | --- |
| 91-57-6 | 2-Methylnaphthalene | 66 | < 66 U |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | < 330 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330 | < 330 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 330 | < 330 U |
| 91-58-7 | 2-Chloronaphthalene | 66 | < 66 U |
| 88-74-4 | 2-Nitroaniline | 330 | < 330 U |
| 131-11-3 | Dimethylphthalate | 66 | < 66 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-1-7.0
MATRIX SPIKE

Lab Sample ID: IH14U
LIMS ID: 05-11764
Matrix: Soil
Date Analyzed: 07/21/05 14:34

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 208-96-8 | Acenaphthylene | 66 | < 66 U |
| 99-09-2 | 3-Nitroaniline | 330 | < 330 U |
| 83-32-9 | Acenaphthene | 66 | --- |
| 51-28-5 | 2,4-Dinitrophenol | 660 | < 660 U |
| 100-02-7 | 4-Nitrophenol | 330 | --- |
| 132-64-9 | Dibenzofuran | 66 | < 66 U |
| 606-20-2 | 2,6-Dinitrotoluene | 330 | < 330 U |
| 121-14-2 | 2,4-Dinitrotoluene | 330 | --- |
| 84-66-2 | Diethylphthalate | 66 | < 66 U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 66 | < 66 U |
| 86-73-7 | Fluorene | 66 | < 66 U |
| 100-01-6 | 4-Nitroaniline | 330 | < 330 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 660 | < 660 U |
| 86-30-6 | N-Nitrosodiphenylamine | 66 | < 66 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 66 | < 66 U |
| 118-74-1 | Hexachlorobenzene | 66 | < 66 U |
| 87-86-5 | Pentachlorophenol | 330 | --- |
| 85-01-8 | Phenanthrene | 66 | < 66 U |
| 86-74-8 | Carbazole | 66 | < 66 U |
| 120-12-7 | Anthracene | 66 | < 66 U |
| 84-74-2 | Di-n-Butylphthalate | 66 | < 66 U |
| 206-44-0 | Fluoranthene | 66 | < 66 U |
| 129-00-0 | Pyrene | 66 | --- |
| 85-68-7 | Butylbenzylphthalate | 66 | < 66 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 330 | < 330 U |
| 56-55-3 | Benzo(a)anthracene | 66 | < 66 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 66 | < 66 U |
| 218-01-9 | Chrysene | 66 | < 66 U |
| 117-84-0 | Di-n-Octyl phthalate | 66 | < 66 U |
| 205-99-2 | Benzo(b)fluoranthene | 66 | < 66 U |
| 207-08-9 | Benzo(k)fluoranthene | 66 | < 66 U |
| 50-32-8 | Benzo(a)pyrene | 66 | < 66 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 66 | < 66 U |
| 53-70-3 | Dibenz(a,h)anthracene | 66 | < 66 U |
| 191-24-2 | Benzo(g,h,i)perylene | 66 | < 66 U |

Reported in µg/kg (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 43.6% | 2-Fluorobiphenyl | 43.2% |
| d14-p-Terphenyl | 37.3% | d4-1,2-Dichlorobenzene | 39.2% |
| d5-Phenol | 39.2% | 2-Fluorophenol | 42.7% |
| 2,4,6-Tribromophenol | 43.7% | d4-2-Chlorophenol | 40.5% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-1-7.0
MATRIX SPIKE DUPLICATE

Lab Sample ID: IH14U
LIMS ID: 05-11764
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/19/05
Date Analyzed: 07/21/05 15:07
Instrument/Analyst: NT4/VTS
GPC Cleanup: No

Sample Amount: 7.64 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 41.3%
pH: 8.2

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 65 | --- |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 65 | < 65 U |
| 95-57-8 | 2-Chlorophenol | 65 | --- |
| 541-73-1 | 1,3-Dichlorobenzene | 65 | < 65 U |
| 106-46-7 | 1,4-Dichlorobenzene | 65 | --- |
| 100-51-6 | Benzyl Alcohol | 330 | < 330 U |
| 95-50-1 | 1,2-Dichlorobenzene | 65 | < 65 U |
| 95-48-7 | 2-Methylphenol | 65 | < 65 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 65 | < 65 U |
| 106-44-5 | 4-Methylphenol | 65 | < 65 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 330 | --- |
| 67-72-1 | Hexachloroethane | 65 | < 65 U |
| 98-95-3 | Nitrobenzene | 65 | < 65 U |
| 78-59-1 | Isophorone | 65 | < 65 U |
| 88-75-5 | 2-Nitrophenol | 330 | < 330 U |
| 105-67-9 | 2,4-Dimethylphenol | 65 | < 65 U |
| 65-85-0 | Benzoic Acid | 650 | < 650 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 65 | < 65 U |
| 120-83-2 | 2,4-Dichlorophenol | 330 | < 330 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 65 | --- |
| 91-20-3 | Naphthalene | 65 | < 65 U |
| 106-47-8 | 4-Chloroaniline | 330 | < 330 U |
| 87-68-3 | Hexachlorobutadiene | 65 | < 65 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330 | --- |
| 91-57-6 | 2-Methylnaphthalene | 65 | < 65 U |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | < 330 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330 | < 330 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 330 | < 330 U |
| 91-58-7 | 2-Chloronaphthalene | 65 | < 65 U |
| 88-74-4 | 2-Nitroaniline | 330 | < 330 U |
| 131-11-3 | Dimethylphthalate | 65 | < 65 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-1-7.0
MATRIX SPIKE DUPLICATE

Lab Sample ID: IH14U
LIMS ID: 05-11764
Matrix: Soil
Date Analyzed: 07/21/05 15:07

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 208-96-8 | Acenaphthylene | 65 | < 65 U |
| 99-09-2 | 3-Nitroaniline | 330 | < 330 U |
| 83-32-9 | Acenaphthene | 65 | --- |
| 51-28-5 | 2,4-Dinitrophenol | 650 | < 650 U |
| 100-02-7 | 4-Nitrophenol | 330 | --- |
| 132-64-9 | Dibenzofuran | 65 | < 65 U |
| 606-20-2 | 2,6-Dinitrotoluene | 330 | < 330 U |
| 121-14-2 | 2,4-Dinitrotoluene | 330 | --- |
| 84-66-2 | Diethylphthalate | 65 | < 65 U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 65 | < 65 U |
| 86-73-7 | Fluorene | 65 | < 65 U |
| 100-01-6 | 4-Nitroaniline | 330 | < 330 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 650 | < 650 U |
| 86-30-6 | N-Nitrosodiphenylamine | 65 | < 65 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 65 | < 65 U |
| 118-74-1 | Hexachlorobenzene | 65 | < 65 U |
| 87-86-5 | Pentachlorophenol | 330 | --- |
| 85-01-8 | Phenanthrene | 65 | < 65 U |
| 86-74-8 | Carbazole | 65 | < 65 U |
| 120-12-7 | Anthracene | 65 | < 65 U |
| 84-74-2 | Di-n-Butylphthalate | 65 | < 65 U |
| 206-44-0 | Fluoranthene | 65 | < 65 U |
| 129-00-0 | Pyrene | 65 | --- |
| 85-68-7 | Butylbenzylphthalate | 65 | < 65 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 330 | < 330 U |
| 56-55-3 | Benzo(a)anthracene | 65 | < 65 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 65 | < 65 U |
| 218-01-9 | Chrysene | 65 | < 65 U |
| 117-84-0 | Di-n-Octyl phthalate | 65 | < 65 U |
| 205-99-2 | Benzo(b)fluoranthene | 65 | < 65 U |
| 207-08-9 | Benzo(k)fluoranthene | 65 | < 65 U |
| 50-32-8 | Benzo(a)pyrene | 65 | < 65 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 65 | < 65 U |
| 53-70-3 | Dibenz(a,h)anthracene | 65 | < 65 U |
| 191-24-2 | Benzo(g,h,i)perylene | 65 | < 65 U |

Reported in µg/kg (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 49.6% | 2-Fluorobiphenyl | 52.0% |
| d14-p-Terphenyl | 43.2% | d4-1,2-Dichlorobenzene | 42.4% |
| d5-Phenol | 44.0% | 2-Fluorophenol | 45.9% |
| 2,4,6-Tribromophenol | 49.1% | d4-2-Chlorophenol | 46.1% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: RI-TP-1-7.0
MS/MSD

Lab Sample ID: IH14U
LIMS ID: 05-11764
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted MS/MSD: 07/19/05

Date Analyzed MS: 07/21/05 14:34
MSD: 07/21/05 15:07
Instrument/Analyst MS: NT4/VTS
MSD: NT4/VTS
GPC Cleanup: NO

Sample Amount MS: 7.63 g-dry-wt
MSD: 7.64 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 41.3%
pH: 8.2

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|---|---|---|---|---|---|---|---|---|
| Phenol | < 65.3 | 974 | 2460 | 39.6% | 1250 | 2450 | 51.0% | 24.8% |
| 2-Chlorophenol | < 65.3 | 1040 | 2460 | 42.3% | 1260 | 2450 | 51.4% | 19.1% |
| 1,4-Dichlorobenzene | < 65.3 | 656 | 1640 | 40.0% | 800 | 1640 | 48.8% | 19.8% |
| N-Nitroso-Di-N-Propylamine | < 326 | 659 | 1640 | 40.2% | 806 | 1640 | 49.1% | 20.1% |
| 1,2,4-Trichlorobenzene | < 65.3 | 718 | 1640 | 43.8% | 859 | 1640 | 52.4% | 17.9% |
| 4-Chloro-3-methylphenol | < 326 | 1130 | 2460 | 45.9% | 1420 | 2450 | 58.0% | 22.7% |
| Acenaphthene | < 65.3 | 758 | 1640 | 46.2% | 905 | 1640 | 55.2% | 17.7% |
| 4-Nitrophenol | < 326 | 1250 | 2460 | 50.8% | 1760 | 2450 | 71.8% | 33.9% |
| 2,4-Dinitrotoluene | < 326 | 716 | 1640 | 43.7% | 910 | 1640 | 55.5% | 23.9% |
| Pentachlorophenol | < 326 | 1250 | 2460 | 50.8% | 1810 | 2450 | 73.9% | 36.6% |
| Pyrene | < 65.3 | 650 | 1640 | 39.6% | 780 | 1640 | 47.6% | 18.2% |

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: LCS-071905
LAB CONTROL

Lab Sample ID: LCS-071905
LIMS ID: 05-11750
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/19/05
Date Analyzed: 07/21/05 12:19
Instrument/Analyst: NT4/VTS
GPC Cleanup: NO

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

| Analyte | Lab Control | Spike Added | Recovery |
|---|---|---|---|
| Phenol | 1530 | 2500 | 61.2% |
| 2-Chlorophenol | 1450 | 2500 | 58.0% |
| 1,4-Dichlorobenzene | 914 | 1670 | 54.7% |
| N-Nitroso-Di-N-Propylamine | 863 | 1670 | 51.7% |
| 1,2,4-Trichlorobenzene | 931 | 1670 | 55.7% |
| 4-Chloro-3-methylphenol | 1570 | 2500 | 62.8% |
| Acenaphthene | 975 | 1670 | 58.4% |
| 4-Nitrophenol | 1480 | 2500 | 59.2% |
| 2,4-Dinitrotoluene | 1020 | 1670 | 61.1% |
| Pentachlorophenol | 1840 | 2500 | 73.6% |
| Pyrene | 1090 | 1670 | 65.3% |

| Semivolatile Surrogate Recovery | |
|---|---|
| d5-Nitrobenzene | 59.2% |
| 2-Fluorobiphenyl | 60.4% |
| d14-p-Terphenyl | 72.8% |
| d4-1,2-Dichlorobenzene | 58.0% |
| d5-Phenol | 61.1% |
| 2-Fluorophenol | 62.4% |
| 2,4,6-Tribromophenol | 68.8% |
| d4-2-Chlorophenol | 61.3% |

Results reported in µg/kg

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: MB-072005
METHOD BLANK

Lab Sample ID: MB-072005
LIMS ID: 05-11764
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/22/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Date Extracted: 07/20/05
Date Analyzed: 07/21/05 10:26
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

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

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

Reported in µg/kg (ppb)

| PCB Surrogate Recovery | |
|---|---|
| Decachlorobiphenyl | 113% |
| Tetrachlorometaxylene | 102% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: RI-TP-1-7.0
SAMPLE

Lab Sample ID: IH14U
LIMS ID: 05-11764
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/22/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/20/05
Date Analyzed: 07/21/05 11:34
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 8.2
Percent Moisture: 41.3%

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 32 | < 32 U |
| 53469-21-9 | Aroclor 1242 | 32 | < 32 U |
| 12672-29-6 | Aroclor 1248 | 32 | < 32 U |
| 11097-69-1 | Aroclor 1254 | 32 | < 32 U |
| 11096-82-5 | Aroclor 1260 | 32 | < 32 U |
| 11104-28-2 | Aroclor 1221 | 32 | < 32 U |
| 11141-16-5 | Aroclor 1232 | 32 | < 32 U |

Reported in µg/kg (ppb)

| PCB Surrogate Recovery | |
|---|---|
| Decachlorobiphenyl | 104% |
| Tetrachlorometaxylene | 94.0% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: RI-SSOIL-4-0.25
SAMPLE

Lab Sample ID: IH14W
LIMS ID: 05-11766
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/22/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/20/05
Date Analyzed: 07/21/05 11:51
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 1.2%

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 32 | < 32 U |
| 53469-21-9 | Aroclor 1242 | 32 | < 32 U |
| 12672-29-6 | Aroclor 1248 | 32 | < 32 U |
| 11097-69-1 | Aroclor 1254 | 32 | < 32 U |
| 11096-82-5 | Aroclor 1260 | 32 | < 32 U |
| 11104-28-2 | Aroclor 1221 | 32 | < 32 U |
| 11141-16-5 | Aroclor 1232 | 32 | < 32 U |

Reported in µg/kg (ppb)

| PCB Surrogate Recovery | |
|---|---|
| Decachlorobiphenyl | 116% |
| Tetrachlorometaxylene | 106% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: RI-SSOIL-4-0.25
MATRIX SPIKE

Lab Sample ID: IH14W
LIMS ID: 05-11766
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/22/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/20/05
Date Analyzed: 07/21/05 12:08
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 1.2%

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 32 | --- |
| 53469-21-9 | Aroclor 1242 | 32 | < 32 U |
| 12672-29-6 | Aroclor 1248 | 32 | < 32 U |
| 11097-69-1 | Aroclor 1254 | 32 | < 32 U |
| 11096-82-5 | Aroclor 1260 | 32 | --- |
| 11104-28-2 | Aroclor 1221 | 32 | < 32 U |
| 11141-16-5 | Aroclor 1232 | 32 | < 32 U |

Reported in µg/kg (ppb)

| PCB Surrogate Recovery | |
|---|---|
| Decachlorobiphenyl | 129% |
| Tetrachlorometaxylene | 117% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: RI-SSOIL-4-0.25
MATRIX SPIKE DUP

Lab Sample ID: IH14W
LIMS ID: 05-11766
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/22/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/20/05
Date Analyzed: 07/21/05 12:25
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.4 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 1.2%

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 32 | --- |
| 53469-21-9 | Aroclor 1242 | 32 | < 32 U |
| 12672-29-6 | Aroclor 1248 | 32 | < 32 U |
| 11097-69-1 | Aroclor 1254 | 32 | < 32 U |
| 11096-82-5 | Aroclor 1260 | 32 | --- |
| 11104-28-2 | Aroclor 1221 | 32 | < 32 U |
| 11141-16-5 | Aroclor 1232 | 32 | < 32 U |

Reported in µg/kg (ppb)

| PCB Surrogate Recovery | |
|---|---|
| Decachlorobiphenyl | 108% |
| Tetrachlorometaxylene | 101% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082


Sample ID: LCS-072005
LAB CONTROL

Lab Sample ID: LCS-072005
LIMS ID: 05-11764
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/22/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Date Extracted: 07/20/05
Date Analyzed: 07/21/05 10:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

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

| Analyte | Lab Control | Spike Added | Recovery |
|---|---|---|---|
| Aroclor 1016 | 135 | 167 | 80.8% |
| Aroclor 1260 | 145 | 167 | 86.8% |

PCB Surrogate Recovery

| | |
|---|---|
| Decachlorobiphenyl | 116% |
| Tetrachlorometaxylene | 103% |

Results reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082


Sample ID: RI-SSOIL-4-0.25
MS/MSD

Lab Sample ID: IH14W
LIMS ID: 05-11766
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/22/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted MS/MSD: 07/20/05

Date Analyzed MS: 07/21/05 12:08
MSD: 07/21/05 12:25
Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount MS: 12.4 g-dry-wt
MSD: 12.4 g-dry-wt
Final Extract Volume MS: 4.0 mL
MSD: 4.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
pH: 7.2
Percent Moisture: 1.2%

| Analyte | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | < 32.4 U | 160 | 162 | 98.8% | 138 | 161 | 85.7% | 14.8% |
| Aroclor 1260 | < 32.4 U | 177 | 162 | 109% | 158 | 161 | 98.1% | 11.3% |

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

ANALYTICAL RESOURCES INCORPORATED

**ORGANICS ANALYSIS DATA SHEET**
**TOTAL DIESEL RANGE HYDROCARBONS**
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Soil

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131

Data Release Authorized:
Reported: 07/20/05

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result mg/kg |
|---|---|---|---|---|---|---|
| MB-071505 | Method Blank | 07/15/05 | 07/19/05 | 1.0 | Diesel | < 5.0 U |
| 05-11762 | HC ID: --- | | FID3A | | Motor Oil | < 10 U |
| | | | | | o-Terphenyl | 106% |
| IH14S | RI-TP-1-1.5 | 07/15/05 | 07/19/05 | 1.0 | **Diesel** | **40** |
| 05-11762 | HC ID: **DRO/RRO** | | FID3A | | **Motor Oil** | **38** |
| | | | | | o-Terphenyl | 94.0% |

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1

Sample ID: RI-TP-1-1.5
MS/MSD

Lab Sample ID: IH14S
LIMS ID: 05-11762
Matrix: Soil
Data Release Authorized:
Reported: 07/20/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted MS/MSD: 07/15/05

Date Analyzed MS: 07/19/05 14:08
MSD: 07/19/05 14:24
Instrument/Analyst MS: FID/JGR
MSD: FID/JGR

Sample Amount MS: 9.14 g-dry-wt
MSD: 9.12 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.0
MSD: 1.0
Percent Moisture: 9.0%

| Range | Sample | MS | Spike Added-MS | MS Recovery | MSD | Spike Added-MSD | MSD Recovery | RPD |
|---|---|---|---|---|---|---|---|---|
| Diesel | 39.5 | 202 | 164 | 99.1% | 173 | 164 | 81.4% | 15.5% |

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned


Sample ID: LCS-071505
LAB CONTROL

Lab Sample ID: LCS-071505
LIMS ID: 05-11762
Matrix: Soil
Data Release Authorized:
Reported: 07/20/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Date Extracted: 07/15/05
Date Analyzed: 07/19/05 13:37
Instrument/Analyst: FID/JGR

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

| Range | Lab Control | Spike Added | Recovery |
|---|---|---|---|
| Diesel | 132 | 150 | 88.0% |

TPHD Surrogate Recovery

| | |
|---|---|
| o-Terphenyl | 92.4% |

Results reported in mg/kg

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**TOTAL METALS** **Sample ID: METHOD BLANK**


Lab Sample ID: IH14MB
LIMS ID: 05-11747
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 5 | 5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 5 | 5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.2 | 0.2 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 0.5 | 0.5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.2 | 0.2 | U |
| 3050B | 07/21/05 | 7421 | 07/25/05 | 7439-92-1 | Lead | 0.1 | 0.1 | U |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.05 | 0.05 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 0.6 | 0.6 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**TOTAL METALS** **Sample ID: METHOD BLANK**


Lab Sample ID: IH14MB
LIMS ID: 05-11744
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 08/01/05 | 6010B | 08/03/05 | 7440-36-0 | Antimony | 5 | 5 | U |
| 3050B | 08/01/05 | 6010B | 08/03/05 | 7440-38-2 | Arsenic | 5 | 5 | U |
| 3050B | 08/01/05 | 6010B | 08/03/05 | 7440-43-9 | Cadmium | 0.2 | 0.2 | U |
| 3050B | 08/01/05 | 6010B | 08/03/05 | 7440-47-3 | Chromium | 0.5 | 0.5 | U |
| 3050B | 08/01/05 | 6010B | 08/03/05 | 7440-50-8 | Copper | 0.2 | 0.2 | U |
| 3050B | 08/01/05 | 7421 | 08/02/05 | 7439-92-1 | Lead | 0.1 | 0.1 | U |
| 3050B | 08/01/05 | 6010B | 08/03/05 | 7440-66-6 | Zinc | 0.6 | 0.6 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**TOTAL METALS**
Page 1 of 1

**Sample ID: METHOD BLANK**

Lab Sample ID: IH14MB
LIMS ID: 05-11750
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7439-92-1 | Lead | 2 | 2 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**TOTAL METALS** **Sample ID: LAB CONTROL**


Lab Sample ID: IH14LCS
LIMS ID: 05-11747
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

**BLANK SPIKE QUALITY CONTROL REPORT**

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|
| Antimony | 6010B | 213 | 200 | 106% | |
| Arsenic | 6010B | 199 | 200 | 99.5% | |
| Cadmium | 6010B | 50.6 | 50.0 | 101% | |
| Chromium | 6010B | 50.2 | 50.0 | 100% | |
| Copper | 6010B | 50.7 | 50.0 | 101% | |
| Lead | 7421 | 11.0 | 10.0 | 110% | |
| Mercury | 7471A | 1.06 | 1.00 | 106% | |
| Zinc | 6010B | 49.4 | 50.0 | 98.8% | |

Reported in mg/kg-dry

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

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**TOTAL METALS** **Sample ID: LAB CONTROL**


Lab Sample ID: IH14LCS
LIMS ID: 05-11750
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

**BLANK SPIKE QUALITY CONTROL REPORT**

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|
| Lead | 6010B | 199 | 200 | 99.5% | |

Reported in mg/kg-dry

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

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**TOTAL METALS**
Page 1 of 1

**Sample ID: RI-TP-9-0.0**
**SAMPLE**

Lab Sample ID: IH14A
LIMS ID: 05-11744
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 91.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 08/01/05 | 6010B | 08/03/05 | 7440-36-0 | Antimony | 10 | 10 | U UR |
| 3050B | 08/01/05 | 6010B | 08/03/05 | **7440-38-2** | **Arsenic** | 10 | **10** | |
| 3050B | 08/01/05 | 6010B | 08/03/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 08/01/05 | 6010B | 08/03/05 | **7440-47-3** | **Chromium** | 1 | **38** | |
| 3050B | 08/01/05 | 6010B | 08/03/05 | **7440-50-8** | **Copper** | 0.5 | **81.5** | J+ |
| 3050B | 08/01/05 | 7421 | 08/03/05 | **7439-92-1** | **Lead** | 1 | **10** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | **7439-97-6** | **Mercury** | 0.05 | **0.25** | |
| 3050B | 08/01/05 | 6010B | 08/03/05 | **7440-66-6** | **Zinc** | 2 | **124** | J+ |

U-Analyte undetected at given RL
RL-Reporting Limit

ZAS 10/24/05

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**TOTAL METALS**
Page 1 of 1

**Sample ID: RI-TP-9-0.0**
**DUPLICATE**

Lab Sample ID: IH14A
LIMS ID: 05-11744
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

**MATRIX DUPLICATE QUALITY CONTROL REPORT**

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---|---|---|---|---|---|---|
| Antimony | 6010B | 10 U | 10 U | 0.0% | +/- 10 | L |
| Arsenic | 6010B | 10 | 20 | 66.7% | +/- 10 | L |
| Cadmium | 6010B | 0.5 U | 0.5 U | 0.0% | +/- 0.5 | L |
| Chromium | 6010B | 38 | 41 | 7.6% | +/- 20% | |
| Copper | 6010B | 81.5 | 91.8 | 11.9% | +/- 20% | |
| Lead | 7421 | 10 | 12 | 18.2% | +/- 20% | |
| Mercury | 7471A | 0.25 | 0.29 | 14.8% | +/- 0.05 | L |
| Zinc | 6010B | 124 | 144 | 14.9% | +/- 20% | |

Reported in mg/kg-dry

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

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**Sample ID: RI-TP-9-0.0**
**MATRIX SPIKE**

Lab Sample ID: IH14A
LIMS ID: 05-11744
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

## MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|---|
| Antimony | 6010B | 10 U | 40 | 203 | 19.7% | N |
| Arsenic | 6010B | 10 | 220 | 203 | 103% | |
| Cadmium | 6010B | 0.5 U | 51.1 | 50.7 | 101% | |
| Chromium | 6010B | 38 | 91 | 50.7 | 105% | |
| Copper | 6010B | 81.5 | 148 | 50.7 | 131% | N |
| Lead | 7421 | 10 | 32 | 21.5 | 102% | |
| Mercury | 7471A | 0.25 | 0.75 | 0.520 | 96.2% | |
| Zinc | 6010B | 124 | 192 | 50.7 | 134% | N |

Reported in mg/kg-dry

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

Percent Recovery Limits: 75-125%

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**Sample ID: RI-TP-8-3.5**
**SAMPLE**

Lab Sample ID: IH14D
LIMS ID: 05-11747
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 69.8%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 20 | 20 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 20 | 20 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-43-9** | **Cadmium** | 0.7 | **0.9** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 2 | **32** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.7 | **41.3** | |
| 3050B | 07/21/05 | 7421 | 07/25/05 | **7439-92-1** | **Lead** | 1 | **39** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | **7439-97-6** | **Mercury** | 0.07 | **0.09** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 2 | **479** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-TP-6-0.0**
**SAMPLE**

Lab Sample ID: IH14E
LIMS ID: 05-11748
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 95.9%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-38-2** | **Arsenic** | 10 | **10** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 1 | **61** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.5 | **91.8** | |
| 3050B | 07/21/05 | 7421 | 07/25/05 | **7439-92-1** | **Lead** | 0.5 | **10.0** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | **7439-97-6** | **Mercury** | 0.04 | **0.27** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 2 | **134** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-TP-6-6.0**
**SAMPLE**

Lab Sample ID: IH14G
LIMS ID: 05-11750
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 86.5%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7439-92-1** | **Lead** | 6 | **14** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-TP-4-1.0**
**SAMPLE**

Lab Sample ID: IH14I
LIMS ID: 05-11752
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 92.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 5 | 5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 5 | 5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.2 | 0.2 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 0.5 | **27.5** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.2 | **30.3** | |
| 3050B | 07/21/05 | 7421 | 07/25/05 | **7439-92-1** | **Lead** | 0.5 | **2.7** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.05 | 0.05 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 0.6 | **43.5** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-TP-4-4.5**
**SAMPLE**

Lab Sample ID: IH14J
LIMS ID: 05-11753
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 84.0%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7439-92-1** | **Lead** | 2 | **4** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-TP-5-5.5**
**SAMPLE**

Lab Sample ID: IH14L
LIMS ID: 05-11755
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 67.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 7 | 7 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 7 | 7 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.3 | 0.3 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 0.7 | **30.5** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.3 | **39.1** | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 1 | **27** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.06 | 0.06 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 0.8 | **68.3** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-TP-7-5.5**
**SAMPLE**

Lab Sample ID: IH14M
LIMS ID: 05-11756
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 83.3%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 6 | 6 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 6 | 6 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.2 | 0.2 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 0.6 | **30.0** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.2 | **30.1** | J |
| 3050B | 07/21/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 1 | **8** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.06 | 0.06 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 0.7 | **54.3** | |

U-Analyte undetected at given RL
RL-Reporting Limit



ZAS 10/27/05

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**Sample ID: RI-TP-7X-5.5**
**SAMPLE**

Lab Sample ID: IH14N
LIMS ID: 05-11757
Matrix: Soil
Data Release Authorized: BC
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 90.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 5 | 5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 5 | 5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.2 | 0.2 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 0.5 | **24.1** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.2 | **22.0** | J |
| 3050B | 07/21/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 1 | **8** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.04 | 0.04 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 0.6 | **67.7** | |

U-Analyte undetected at given RL
RL-Reporting Limit



ZAS 10/24/05

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**Sample ID: RI-TP-3-5.0**
**SAMPLE**

Lab Sample ID: IH14P
LIMS ID: 05-11759
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 83.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 6 | 6 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 6 | 6 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.2 | 0.2 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 0.6 | **35.0** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.2 | **30.1** | |
| 3050B | 07/21/05 | 7421 | 07/25/05 | **7439-92-1** | **Lead** | 0.6 | **2.7** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.05 | 0.05 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 0.7 | **44.9** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-TP-2-3.5**
**SAMPLE**

Lab Sample ID: IH14Q
LIMS ID: 05-11760
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 75.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7439-92-1** | **Lead** | 3 | **27** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-TP-1-3.0**
**SAMPLE**

Lab Sample ID: IH14T
LIMS ID: 05-11763
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 74.9%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 30 | 30 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 30 | 30 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 1 | 1 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 3 | **24** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 1 | **70** | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 3 | **57** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.06 | 0.06 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 4 | **168** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-TP-1-7.0**
**SAMPLE**

Lab Sample ID: IH14U
LIMS ID: 05-11764
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 51.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 20 | 20 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 20 | 20 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.9 | 0.9 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 2 | **44** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.9 | **109** | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 4 | **104** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | **7439-97-6** | **Mercury** | 0.07 | **0.08** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 3 | **206** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-TP-10-6.5**
**SAMPLE**

Lab Sample ID: IH14V
LIMS ID: 05-11765
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 80.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7439-92-1** | **Lead** | 2 | **24** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-SSOIL-3-0.25**
**SAMPLE**

Lab Sample ID: IH14X
LIMS ID: 05-11767
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 96.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-38-2** | **Arsenic** | 10 | **20** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-43-9** | **Cadmium** | 0.5 | **2.0** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 1 | **60** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.5 | **114** | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 2 | **21** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | **7439-97-6** | **Mercury** | 0.05 | **0.20** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 1 | **304** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-SSOIL-2-0.25**
**SAMPLE**

Lab Sample ID: IH14Y
LIMS ID: 05-11768
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 94.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-38-2** | **Arsenic** | 10 | **20** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 1 | **52** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.5 | **128** | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 2 | **17** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | **7439-97-6** | **Mercury** | 0.04 | **0.32** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 2 | **169** | |

U-Analyte undetected at given RL
RL-Reporting Limit

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**Sample ID: RI-SSOIL-1-0.25**
**SAMPLE**

Lab Sample ID: IH14Z
LIMS ID: 05-11769
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 96.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-38-2** | **Arsenic** | 10 | **20** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 1 | **41** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.5 | **100** | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 1 | **26** | |
| CLP | 07/21/05 | 7471A | 07/22/05 | **7439-97-6** | **Mercury** | 0.05 | **0.26** | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 1 | **159** | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**TOTAL METALS** **Sample ID: LAB CONTROL**


Lab Sample ID: IH14LCS
LIMS ID: 05-11744
Matrix: Soil
Data Release Authorized:
Reported: 08/05/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

**BLANK SPIKE QUALITY CONTROL REPORT**

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|
| Antimony | 6010B | 215 | 200 | 108% | |
| Arsenic | 6010B | 210 | 200 | 105% | |
| Cadmium | 6010B | 52.6 | 50.0 | 105% | |
| Chromium | 6010B | 51.7 | 50.0 | 103% | |
| Copper | 6010B | 51.9 | 50.0 | 104% | |
| Lead | 7421 | 10.2 | 10.0 | 102% | |
| Zinc | 6010B | 48.5 | 50.0 | 97.0% | |

Reported in mg/kg-dry

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

**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

GEOMATRIX
Received
SEP 27 2005
SEATTLE

26 September 2005

Zanna Satterwhite
Geomatrix Consultants
600 University Ave., Suité 1020
Seattle, WA 98101

**RE: Project – 10131, MJB North**
**ARI Job No. IH14**

Dear Zanna:

Please find enclosed the modified metals reports for samples from the project referenced above.

The concentrations of arsenic have been re-calculated using 3 significant figures for the samples in question as requested.

Copies of these reports will be kept on file at ARI. If you have any further questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
mark@arilabs.com
206/695-6210

Enclosures

cc: file IH14

MDH/mdh

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: RI-SSOIL-3-0.25
SAMPLE

Lab Sample ID: IH14X
LIMS ID: 05-11767
Matrix: Soil
Data Release Authorized:
Reported: 09/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 96.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 12 | 17 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 2.0 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 60 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 114 | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | 7439-92-1 | Lead | 2 | 21 | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.05 | 0.20 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 1 | 304 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: RI-SSOIL-2-0.25
SAMPLE

Lab Sample ID: IH14Y
LIMS ID: 05-11768
Matrix: Soil
Data Release Authorized:
Reported: 09/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 94.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 13 | 20 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 52 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 128 | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | 7439-92-1 | Lead | 2 | 17 | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.04 | 0.32 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 2 | 169 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: RI-SSOIL-1-0.25
SAMPLE

Lab Sample ID: IH14Z
LIMS ID: 05-11769
Matrix: Soil
Data Release Authorized:
Reported: 09/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 96.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 12 | 16 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 41 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 100 | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | 7439-92-1 | Lead | 1 | 26 | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.05 | 0.26 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 1 | 159 | |

U-Analyte undetected at given RL
RL-Reporting Limit

**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

GEOMATRIX Received SEP 27 2005 SEATTLE

27 September 2005

Zanna Satterwhire
Geomatrix Consultants
600 University Ave., Suite 1020
Seattle, WA 98101

**RE: Project – 10131, MJB North**
**ARI Job No. IH22**

Dear Zanna:

Please find enclosed the modified metals reports for two samples from the project referenced above.

The concentrations of arsenic have been re-calculated using 3 significant figures for the samples in question as requested.

Copies of these reports will be kept on file at ARI. If you have any further questions, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
mark@arilabs.com
206/695-6210

Enclosures

cc: file IH22

MDH/mdh

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-5-0.0
SAMPLE

Lab Sample ID: IH22A
LIMS ID: 05-11841
Matrix: Soil
Data Release Authorized:
Reported: 09/27/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 97.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 13 | 21 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 51 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 447 | |
| 3050B | 07/19/05 | 7421 | 07/27/05 | 7439-92-1 | Lead | 1 | 18 | |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.05 | 0.15 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 2 | 568 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-7-0.0
SAMPLE

Lab Sample ID: IH22K
LIMS ID: 05-11851
Matrix: Soil
Data Release Authorized:
Reported: 09/27/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 97.9%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 12 | 21 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 57 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 107 | |
| 3050B | 07/19/05 | 7421 | 07/27/05 | 7439-92-1 | Lead | 1 | 19 | |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.05 | 0.27 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 1 | 205 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-5-0.0
SAMPLE

Lab Sample ID: IH22A
LIMS ID: 05-11841
Matrix: Soil
Data Release Authorized:
Reported: 09/27/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 97.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 13 | 21 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 51 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 447 | |
| 3050B | 07/19/05 | 7421 | 07/27/05 | 7439-92-1 | Lead | 1 | 18 | |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.05 | 0.15 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 2 | 568 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-7-0.0
SAMPLE

Lab Sample ID: IH22K
LIMS ID: 05-11851
Matrix: Soil
Data Release Authorized:
Reported: 09/27/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 97.9%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 12 | 21 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 57 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 107 | |
| 3050B | 07/19/05 | 7421 | 07/27/05 | 7439-92-1 | Lead | 1 | 19 | |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.05 | 0.27 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 1 | 205 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: RI-SSOIL-3-0.25
SAMPLE

Lab Sample ID: IH14X
LIMS ID: 05-11767
Matrix: Soil
Data Release Authorized:
Reported: 09/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 96.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 12 | 17 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 2.0 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 60 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 114 | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | 7439-92-1 | Lead | 2 | 21 | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.05 | 0.20 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 1 | 304 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: RI-SSOIL-2-0.25
SAMPLE

Lab Sample ID: IH14Y
LIMS ID: 05-11768
Matrix: Soil
Data Release Authorized:
Reported: 09/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 94.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 13 | 20 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 52 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 128 | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | 7439-92-1 | Lead | 2 | 17 | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.04 | 0.32 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 2 | 169 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: RI-SSOIL-1-0.25
SAMPLE

Lab Sample ID: IH14Z
LIMS ID: 05-11769
Matrix: Soil
Data Release Authorized:
Reported: 09/26/05

QC Report No: IH14-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 96.4%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 12 | 16 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 41 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 100 | |
| 3050B | 07/21/05 | 7421 | 07/26/05 | 7439-92-1 | Lead | 1 | 26 | |
| CLP | 07/21/05 | 7471A | 07/22/05 | 7439-97-6 | Mercury | 0.05 | 0.26 | |
| 3050B | 07/21/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 1 | 159 | |

U-Analyte undetected at given RL
RL-Reporting Limit

**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

29 July 2005

GEOMATRIX
Received
AUG – 4 2005
SEATTLE

Kathleen Goodman
Geomatrix Consultants
600 University Ave., Suite 1020
Seattle, WA 98101

**RE: Project – 10131, MJB North**
**ARI Job No. IH22**

Dear Kathleen:

Please find enclosed the original chain of custody records and the final results for the samples from the project referenced above. Fifteen soil samples were received intact on July 15, 2005. The samples were analyzed for SVOAs, PCBs, NWTPH-Dx and total metals as requested.

A matrix duplicate (MD) was prepared and analyzed for metals in conjunction with sample MW-5-0.0. The RPDs for lead and zinc were high following the initial analysis of the MD. Since the percent recoveries for these elements were within acceptable QC limits for the corresponding LCS, it was concluded that a lack of sample homogeneity was the cause of the high RPDs. No corrective actions were taken based on the MD results.

No further analytical complications were noted.

Copies of these reports and all associated raw data will be kept on file at 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
mark@arilabs.com
206/695-6210

Enclosures

cc: file IH22

MDH/mdh

# Chain of Custody Record & Laboratory Analysis Request

| | | | |
|---|---|---|---|
| ARI Assigned Number: | Turn-around Requested: Standard | Page: 1 of 2 | |
| ARI Client Company: Geomatrix | Phone: 206 342 1780 | Date: 7/14/05 | Ice Present? Y |
| Client Contact: Kathleen Goodman | | No. of Coolers: 1 | Cooler Temps: 0 |
| Client Project Name: MJB North | | | |
| Client Project #: 10131 | 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 | Metals-EPA 6010B/7421/7471A * | PCBs EPA 8082 | PAHs/SVOCs full suite EPA 8270C | Total Lead | TPH-Dx | Hex Cr. | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5-0.0 | 7/14/05 | 0827 | S | 2 | | | | | | | | | Please hold all analyses until further notification (7/15/05 0840) |
| MW-5-5.0 | " | 0834 | " | 4 | | | | | | | | | |
| MW-5-10.0 | | 0841 | | 4 | | | | | | | | | |
| MW-5-15.0 | | 0855 | | 4 | | | | | | | | | |
| MW-5-20.0 | | 0903 | | 4 | | | | | | | | | |
| MW-6-0.0 | | 1035 | | 2 | | | | | | | | | |
| MW-6-5.0 | | 1040 | | 4 | | | | | | | | | |
| MW-6-10.0 | | 1047 | | 2 | | | | | | | | | |
| MW-6-15.0 | | 1058 | | 2 | | | | | | | | | |
| MW-6-20.0 | ↓ | 1105 | ↓ | 2 | | | | | | | | | |

| Comments/Special Instructions | Relinquished by: (Signature) | Received by: (Signature) | Relinquished by: (Signature) | Received by: (Signature) |
|---|---|---|---|---|
| *Metals: Ant., As, Cd, Cr, Cu, Pb, Hg, Zn | Printed Name: Zanna Satterwhite | Printed Name: BOB CONGLETON | Printed Name: | Printed Name: |
| TPH-Dx = Silica gel/ acid wash | Company: Geomatrix | Company: ARI | Company: | Company: |
| | Date & Time: 7/15/05 0840 | Date & Time: 7/15/05 840 | Date & Time: | Date & Time: |

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

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

# Chain of Custody Record & Laboratory Analysis Request

| | | | |
|---|---|---|---|
| ARI Assigned Number: | Turn-around Requested: Standard | Page: 2 of 2 | |
| ARI Client Company: Geomatrix | Phone: 206 342 1780 | Date: 7/14/05 | Ice Present? Y |
| Client Contact: Kathleen Goodman | | No. of Coolers: 1 | Cooler Temps: 0° |
| Client Project Name: MJB North | | | |
| Client Project #: 10131 | 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 | Analysis Requested: Metals-EPA 6010B/7421/7471A * | PCBs EPA 8082 | PAHs/SVOCs full suite EPA 8270C | Total Lead | TPH-Dx | Hex. Cr. | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7-0.0 | 7/14/05 | 1238 | S | 2 | | | | | | | | | Please hold all analyses until further notification (7/15/05 0840) |
| MW-7-3.0 | " | 1246 | " | 2 | | | | | | | | | |
| MW-7-5.0 | " | 1253 | " | 2 | | | | | | | | | |
| MW-7-10.0 | " | 1310 | " | 2 | | | | | | | | | |
| MW-7-15.0 | " | 1315 | " | 2 | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

24° 7/15/05

| Comments/Special Instructions | Relinquished by: (Signature) | Received by: (Signature) | Relinquished by: (Signature) | Received by: (Signature) |
|---|---|---|---|---|
| * Metals: Ant., As, Cd, Cr, Cu, Pb, Hg, Zn | | | | |
| TPH-Dx = Silica gel acid wash. | Printed Name: Zanna Sattenwhite | Printed Name: BOB CONGLETON | Printed Name: | Printed Name: |
| | Company: Geomatrix | Company: ARI | Company: | Company: |
| | Date & Time: 7/15/05 0840 | Date & Time: 7/15/05 840 | Date & Time: | Date & Time: |


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

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

# Chain of Custody Record & Laboratory Analysis Request

| | | | |
|---|---|---|---|
| ARI Assigned Number: | Turn-around Requested: Standard | Page: 1 of 2 | |
| ARI Client Company: | Phone: 206 324 1730 | Date: 7/1/05 | Ice Present? Y |
| Client Contact: | | No. of Coolers: 1 | Cooler Temps: 0 |
| Client Project Name: | | | |
| Client Project #: | Samplers: | | |


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 | | | | | | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| | 7/1/05 | 0937 | S | 4 | X | | | | | | | | |
| | | 0937 | | 4 | X | | | | | | | | |
| | | 0941 | | 4 | X | X | X | | X | | | | |
| | | 0955 | | 4 | | | | | | | | | |
| | | 0965 | | 4 | | | | | | | | | |
| | | 1050 | | 2 | | | | | | | | | |
| | | 1040 | | 4 | X | | | | | | | | |
| | | 1047 | | 2 | X | | | | | | | | |
| | | 1058 | | 2 | | | | | | | | | |
| | ↓ | 1102 | ↓ | 2 | | | | | | | | | |

| Comments/Special Instructions | Relinquished by: (Signature) | Received by: (Signature) | Relinquished by: (Signature) | Received by: (Signature) |
|---|---|---|---|---|
| | Printed Name: | Printed Name: | Printed Name: | Printed Name: |
| | Company: | Company: | Company: | Company: |
| | Date & Time: | Date & Time: | Date & Time: | Date & Time: |

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# Chain of Custody Record & Laboratory Analysis Request

| | | | |
|---|---|---|---|
| ARI Assigned Number: | Turn-around Requested: Standard | Page: 2 of 2 | |
| ARI Client Company: | Phone: 360 342 1790 | Date: 7/14/05 | Ice Present? Y |
| Client Contact: | | No. of Coolers: 1 | Cooler Temps: 0° |
| Client Project Name: | | | |
| Client Project #: | Samplers: | | |

| Sample ID | Date | Time | Matrix | No. Containers | Analysis Requested | | | | | | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| | 7/14/05 | 1238 | S | 2 | X | | | | | | | | |
| | | 1246 | | 2 | | | | | | | | | |
| | | 1253 | | 2 | X | | | | | | | | |
| | | 1300 | | 2 | | | | | | | | | |
| | | 1315 | | 2 | | | | | | | | | |
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| Comments/Special Instructions | Relinquished by: (Signature) | Received by: (Signature) | Relinquished by: (Signature) | Received by: (Signature) |
|---|---|---|---|---|
| | Printed Name: | Printed Name: | Printed Name: | Printed Name: |
| | Company: | Company: | Company: | Company: |
| | Date & Time: | Date & Time: | Date & Time: | Date & Time: |

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

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

# Data Reporting Qualifiers

**Effective 12/28/04**

## Inorganic Data

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

* Duplicate RPD is not within established control limits

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

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

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

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

## Organic Data

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

* Flagged value is not within established control limits

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

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

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

NR Spiked compound recovery is not reported due to chromatographic interference

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

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

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

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

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

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

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

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

## Geotechnical Data

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

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

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

F Samples were frozen prior to particle size determination

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MB-071905
METHOD BLANK

Lab Sample ID: MB-071905
LIMS ID: 05-11843
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: NA
Date Received: NA

Date Extracted: 07/19/05
Date Analyzed: 07/21/05 11:45
Instrument/Analyst: NT4/VTS
GPC Cleanup: No

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

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 67 | < 67 U |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 67 | < 67 U |
| 95-57-8 | 2-Chlorophenol | 67 | < 67 U |
| 541-73-1 | 1,3-Dichlorobenzene | 67 | < 67 U |
| 106-46-7 | 1,4-Dichlorobenzene | 67 | < 67 U |
| 100-51-6 | Benzyl Alcohol | 330 | < 330 U |
| 95-50-1 | 1,2-Dichlorobenzene | 67 | < 67 U |
| 95-48-7 | 2-Methylphenol | 67 | < 67 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 67 | < 67 U |
| 106-44-5 | 4-Methylphenol | 67 | < 67 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 330 | < 330 U |
| 67-72-1 | Hexachloroethane | 67 | < 67 U |
| 98-95-3 | Nitrobenzene | 67 | < 67 U |
| 78-59-1 | Isophorone | 67 | < 67 U |
| 88-75-5 | 2-Nitrophenol | 330 | < 330 U |
| 105-67-9 | 2,4-Dimethylphenol | 67 | < 67 U |
| 65-85-0 | Benzoic Acid | 670 | < 670 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 67 | < 67 U |
| 120-83-2 | 2,4-Dichlorophenol | 330 | < 330 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 67 | < 67 U |
| 91-20-3 | Naphthalene | 67 | < 67 U |
| 106-47-8 | 4-Chloroaniline | 330 | < 330 U |
| 87-68-3 | Hexachlorobutadiene | 67 | < 67 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330 | < 330 U |
| 91-57-6 | 2-Methylnaphthalene | 67 | < 67 U |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | < 330 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330 | < 330 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 330 | < 330 U |
| 91-58-7 | 2-Chloronaphthalene | 67 | < 67 U |
| 88-74-4 | 2-Nitroaniline | 330 | < 330 U |
| 131-11-3 | Dimethylphthalate | 67 | < 67 U |
| 208-96-8 | Acenaphthylene | 67 | < 67 U |
| 99-09-2 | 3-Nitroaniline | 330 | < 330 U |
| 83-32-9 | Acenaphthene | 67 | < 67 U |
| 51-28-5 | 2,4-Dinitrophenol | 670 | < 670 U |
| 100-02-7 | 4-Nitrophenol | 330 | < 330 U |
| 132-64-9 | Dibenzofuran | 67 | < 67 U |
| 606-20-2 | 2,6-Dinitrotoluene | 330 | < 330 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MB-071905
METHOD BLANK

Lab Sample ID: MB-071905
LIMS ID: 05-11843
Matrix: Soil
Date Analyzed: 07/21/05 11:45

QC Report No: IH22-Geomatrix
Project: MJB North
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 121-14-2 | 2,4-Dinitrotoluene | 330 | < 330 U |
| 84-66-2 | Diethylphthalate | 67 | < 67 U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 67 | < 67 U |
| 86-73-7 | Fluorene | 67 | < 67 U |
| 100-01-6 | 4-Nitroaniline | 330 | < 330 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 670 | < 670 U |
| 86-30-6 | N-Nitrosodiphenylamine | 67 | < 67 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 67 | < 67 U |
| 118-74-1 | Hexachlorobenzene | 67 | < 67 U |
| 87-86-5 | Pentachlorophenol | 330 | < 330 U |
| 85-01-8 | Phenanthrene | 67 | < 67 U |
| 86-74-8 | Carbazole | 67 | < 67 U |
| 120-12-7 | Anthracene | 67 | < 67 U |
| 84-74-2 | Di-n-Butylphthalate | 67 | < 67 U |
| 206-44-0 | Fluoranthene | 67 | < 67 U |
| 129-00-0 | Pyrene | 67 | < 67 U |
| 85-68-7 | Butylbenzylphthalate | 67 | < 67 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 330 | < 330 U |
| 56-55-3 | Benzo(a)anthracene | 67 | < 67 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 67 | < 67 U |
| 218-01-9 | Chrysene | 67 | < 67 U |
| 117-84-0 | Di-n-Octyl phthalate | 67 | < 67 U |
| 205-99-2 | Benzo(b)fluoranthene | 67 | < 67 U |
| 207-08-9 | Benzo(k)fluoranthene | 67 | < 67 U |
| 50-32-8 | Benzo(a)pyrene | 67 | < 67 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 67 | < 67 U |
| 53-70-3 | Dibenz(a,h)anthracene | 67 | < 67 U |
| 191-24-2 | Benzo(g,h,i)perylene | 67 | < 67 U |

Reported in µg/kg (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 58.8% | 2-Fluorobiphenyl | 59.6% |
| d14-p-Terphenyl | 70.0% | d4-1,2-Dichlorobenzene | 56.8% |
| d5-Phenol | 60.0% | 2-Fluorophenol | 60.3% |
| 2,4,6-Tribromophenol | 58.1% | d4-2-Chlorophenol | 58.9% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MW-5-10.0
SAMPLE

Lab Sample ID: IH22C
LIMS ID: 05-11843
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Date Extracted: 07/19/05
Date Analyzed: 07/21/05 15:41
Instrument/Analyst: NT4/VTS
GPC Cleanup: No

Sample Amount: 7.72 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 35.7%
pH: 7.4

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 65 | < 65 U |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 65 | < 65 U |
| 95-57-8 | 2-Chlorophenol | 65 | < 65 U |
| 541-73-1 | 1,3-Dichlorobenzene | 65 | < 65 U |
| 106-46-7 | 1,4-Dichlorobenzene | 65 | < 65 U |
| 100-51-6 | Benzyl Alcohol | 320 | < 320 U |
| 95-50-1 | 1,2-Dichlorobenzene | 65 | < 65 U |
| 95-48-7 | 2-Methylphenol | 65 | < 65 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 65 | < 65 U |
| 106-44-5 | 4-Methylphenol | 65 | < 65 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 320 | < 320 U |
| 67-72-1 | Hexachloroethane | 65 | < 65 U |
| 98-95-3 | Nitrobenzene | 65 | < 65 U |
| 78-59-1 | Isophorone | 65 | < 65 U |
| 88-75-5 | 2-Nitrophenol | 320 | < 320 U |
| 105-67-9 | 2,4-Dimethylphenol | 65 | < 65 U |
| 65-85-0 | Benzoic Acid | 650 | < 650 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 65 | < 65 U |
| 120-83-2 | 2,4-Dichlorophenol | 320 | < 320 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 65 | < 65 U |
| 91-20-3 | Naphthalene | 65 | < 65 U |
| 106-47-8 | 4-Chloroaniline | 320 | < 320 U |
| 87-68-3 | Hexachlorobutadiene | 65 | < 65 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 320 | < 320 U |
| 91-57-6 | 2-Methylnaphthalene | 65 | < 65 U |
| 77-47-4 | Hexachlorocyclopentadiene | 320 | < 320 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 320 | < 320 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 320 | < 320 U |
| 91-58-7 | 2-Chloronaphthalene | 65 | < 65 U |
| 88-74-4 | 2-Nitroaniline | 320 | < 320 U |
| 131-11-3 | Dimethylphthalate | 65 | < 65 U |
| 208-96-8 | Acenaphthylene | 65 | < 65 U |
| 99-09-2 | 3-Nitroaniline | 320 | < 320 U |
| 83-32-9 | Acenaphthene | 65 | < 65 U |
| 51-28-5 | 2,4-Dinitrophenol | 650 | < 650 U |
| 100-02-7 | 4-Nitrophenol | 320 | < 320 U |
| 132-64-9 | Dibenzofuran | 65 | < 65 U |
| 606-20-2 | 2,6-Dinitrotoluene | 320 | < 320 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MW-5-10.0
SAMPLE

Lab Sample ID: IH22C
LIMS ID: 05-11843
Matrix: Soil
Date Analyzed: 07/21/05 15:41

QC Report No: IH22-Geomatrix
Project: MJB North
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 121-14-2 | 2,4-Dinitrotoluene | 320 | < 320 U |
| 84-66-2 | Diethylphthalate | 65 | < 65 U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 65 | < 65 U |
| 86-73-7 | Fluorene | 65 | < 65 U |
| 100-01-6 | 4-Nitroaniline | 320 | < 320 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 650 | < 650 U |
| 86-30-6 | N-Nitrosodiphenylamine | 65 | < 65 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 65 | < 65 U |
| 118-74-1 | Hexachlorobenzene | 65 | < 65 U |
| 87-86-5 | Pentachlorophenol | 320 | < 320 U |
| 85-01-8 | Phenanthrene | 65 | < 65 U |
| 86-74-8 | Carbazole | 65 | < 65 U |
| 120-12-7 | Anthracene | 65 | < 65 U |
| 84-74-2 | Di-n-Butylphthalate | 65 | < 65 U |
| 206-44-0 | Fluoranthene | 65 | < 65 U |
| 129-00-0 | Pyrene | 65 | < 65 U |
| 85-68-7 | Butylbenzylphthalate | 65 | < 65 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 320 | < 320 U |
| 56-55-3 | Benzo(a)anthracene | 65 | < 65 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 65 | < 65 U |
| 218-01-9 | Chrysene | 65 | < 65 U |
| 117-84-0 | Di-n-Octyl phthalate | 65 | < 65 U |
| 205-99-2 | Benzo(b)fluoranthene | 65 | < 65 U |
| 207-08-9 | Benzo(k)fluoranthene | 65 | < 65 U |
| 50-32-8 | Benzo(a)pyrene | 65 | < 65 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 65 | < 65 U |
| 53-70-3 | Dibenz(a,h)anthracene | 65 | < 65 U |
| 191-24-2 | Benzo(g,h,i)perylene | 65 | < 65 U |

Reported in µg/kg (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 37.4% | 2-Fluorobiphenyl | 36.6% |
| d14-p-Terphenyl | 31.2% | d4-1,2-Dichlorobenzene | 35.3% |
| d5-Phenol | 34.1% | 2-Fluorophenol | 37.9% |
| 2,4,6-Tribromophenol | 38.9% | d4-2-Chlorophenol | 35.7% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: LCS-071905
LAB CONTROL

Lab Sample ID: LCS-071905
LIMS ID: 05-11843
Matrix: Soil
Data Release Authorized:
Reported: 07/26/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Date Extracted: 07/19/05
Date Analyzed: 07/21/05 12:19
Instrument/Analyst: NT4/VTS
GPC Cleanup: NO

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

| Analyte | Lab Control | Spike Added | Recovery |
|---|---|---|---|
| Phenol | 1530 | 2500 | 61.2% |
| 2-Chlorophenol | 1450 | 2500 | 58.0% |
| 1,4-Dichlorobenzene | 914 | 1670 | 54.7% |
| N-Nitroso-Di-N-Propylamine | 863 | 1670 | 51.7% |
| 1,2,4-Trichlorobenzene | 931 | 1670 | 55.7% |
| 4-Chloro-3-methylphenol | 1570 | 2500 | 62.8% |
| Acenaphthene | 975 | 1670 | 58.4% |
| 4-Nitrophenol | 1480 | 2500 | 59.2% |
| 2,4-Dinitrotoluene | 1020 | 1670 | 61.1% |
| Pentachlorophenol | 1840 | 2500 | 73.6% |
| Pyrene | 1090 | 1670 | 65.3% |

| Semivolatile Surrogate Recovery | |
|---|---|
| d5-Nitrobenzene | 59.2% |
| 2-Fluorobiphenyl | 60.4% |
| d14-p-Terphenyl | 72.8% |
| d4-1,2-Dichlorobenzene | 58.0% |
| d5-Phenol | 61.1% |
| 2-Fluorophenol | 62.4% |
| 2,4,6-Tribromophenol | 68.8% |
| d4-2-Chlorophenol | 61.3% |

Results reported in µg/kg

ANALYTICAL RESOURCES INCORPORATED

**ORGANICS ANALYSIS DATA SHEET**
**PCB by GC/ECD Method SW8082**


**Sample ID: MB-072005**
**METHOD BLANK**

Lab Sample ID: MB-072005
LIMS ID: 05-11843
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/22/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: NA
Date Received: NA

Date Extracted: 07/20/05
Date Analyzed: 07/21/05 10:26
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

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

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

Reported in µg/kg (ppb)

**PCB Surrogate Recovery**

| | |
|---|---|
| Decachlorobiphenyl | 113% |
| Tetrachlorometaxylene | 102% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: MW-5-10.0
SAMPLE

Lab Sample ID: IH22C
LIMS ID: 05-11843
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/22/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Date Extracted: 07/20/05
Date Analyzed: 07/21/05 12:42
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.4
Percent Moisture: 35.7%

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 33 | < 33 U |
| 53469-21-9 | Aroclor 1242 | 33 | < 33 U |
| 12672-29-6 | Aroclor 1248 | 33 | < 33 U |
| **11097-69-1** | **Aroclor 1254** | **33** | **58** |
| 11096-82-5 | Aroclor 1260 | 33 | < 33 U |
| 11104-28-2 | Aroclor 1221 | 33 | < 33 U |
| 11141-16-5 | Aroclor 1232 | 33 | < 33 U |

Reported in µg/kg (ppb)

PCB Surrogate Recovery

| | |
|---|---|
| Decachlorobiphenyl | 86.8% |
| Tetrachlorometaxylene | 96.5% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082


Sample ID: LCS-072005
LAB CONTROL

Lab Sample ID: LCS-072005
LIMS ID: 05-11843
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/22/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: NA
Date Received: NA

Date Extracted: 07/20/05
Date Analyzed: 07/21/05 10:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

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

| Analyte | Lab Control | Spike Added | Recovery |
|---|---|---|---|
| Aroclor 1016 | 135 | 167 | 80.8% |
| Aroclor 1260 | 145 | 167 | 86.8% |

PCB Surrogate Recovery

| | |
|---|---|
| Decachlorobiphenyl | 116% |
| Tetrachlorometaxylene | 103% |

Results reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

**ORGANICS ANALYSIS DATA SHEET**
**TOTAL DIESEL RANGE HYDROCARBONS**
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Soil

QC Report No: IH22-Geomatrix
Project: MJB North
10131

Data Release Authorized:
Reported: 07/20/05

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result mg/kg |
|---|---|---|---|---|---|---|
| MB-071805 | Method Blank | 07/18/05 | 07/19/05 | 1.0 | Diesel | < 5.0 U |
| 05-11843 | HC ID: --- | | FID3A | | Motor Oil | < 10 U |
| | | | | | o-Terphenyl | 90.7% |
| IH22C | MW-5-10.0 | 07/18/05 | 07/19/05 | 1.0 | **Diesel** | 84 |
| 05-11843 | HC ID: **DRO/RRO** | | FID3A | | **Motor Oil** | 350 |
| | | | | | o-Terphenyl | 83.3% |
| IH22C DP | MW-5-10.0 | 07/18/05 | 07/19/05 | 1.0 | **Diesel** | 100 |
| 05-11843 | HC ID: **DRO/RRO** | | FID3A | | RPD: | 17.4% |
| | | | | | **Motor Oil** | 330 |
| | | | | | RPD: | 5.9% |
| | | | | | o-Terphenyl | 94.2% |

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned


Sample ID: LCS-071805
LAB CONTROL

Lab Sample ID: LCS-071805
LIMS ID: 05-11843
Matrix: Soil
Data Release Authorized:
Reported: 07/20/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Date Extracted: 07/18/05
Date Analyzed: 07/19/05 17:15
Instrument/Analyst: FID/JGR

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

| Range | Lab Control | Spike Added | Recovery |
|---|---|---|---|
| Diesel | 125 | 150 | 83.3% |

TPHD Surrogate Recovery

| | |
|---|---|
| o-Terphenyl | 87.3% |

Results reported in mg/kg

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: METHOD BLANK

Lab Sample ID: IH22MB
LIMS ID: 05-11842
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 5 | 5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 5 | 5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.2 | 0.2 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 0.5 | 0.5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.2 | 0.2 | U |
| 3050B | 07/19/05 | 7421 | 07/26/05 | 7439-92-1 | Lead | 0.1 | 0.1 | U |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.05 | 0.05 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 0.6 | 0.6 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-5-0.0
SAMPLE

Lab Sample ID: IH22A
LIMS ID: 05-11841
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 97.7%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 10 | 20 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 51 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 447 | |
| 3050B | 07/19/05 | 7421 | 07/27/05 | 7439-92-1 | Lead | 1 | 18 | J |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.05 | 0.15 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 2 | 568 | J |

U-Analyte undetected at given RL
RL-Reporting Limit



ZAS 10/24/05

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-5-0.0
DUPLICATE

Lab Sample ID: IH22A
LIMS ID: 05-11841
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---|---|---|---|---|---|---|
| Antimony | 6010B | 10 U | 10 U | 0.0% | +/- 10 | L |
| Arsenic | 6010B | 20 | 20 | 0.0% | +/- 10 | L |
| Cadmium | 6010B | 0.5 U | 0.5 U | 0.0% | +/- 0.5 | L |
| Chromium | 6010B | 51 | 50 | 2.0% | +/- 20% | |
| Copper | 6010B | 447 | 420 | 6.2% | +/- 20% | |
| Lead | 7421 | 18 | 24 | 28.6% | +/- 20% | * |
| Mercury | 7471A | 0.15 | 0.16 | 6.5% | +/- 0.05 | L |
| Zinc | 6010B | 568 | 828 | 37.2% | +/- 20% | * |

Reported in mg/kg-dry

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

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-5-0.0
MATRIX SPIKE

Lab Sample ID: IH22A
LIMS ID: 05-11841
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

## MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|---|
| Antimony | 6010B | 10 U | 40 | 201 | 19.9% | N |
| Arsenic | 6010B | 20 | 210 | 201 | 94.5% | |
| Cadmium | 6010B | 0.5 U | 48.2 | 50.3 | 95.8% | |
| Chromium | 6010B | 51 | 98 | 50.3 | 93.4% | |
| Copper | 6010B | 447 | 506 | 50.3 | 117% | H |
| Lead | 7421 | 18 | 29 | 10.2 | 108% | |
| Mercury | 7471A | 0.15 | 0.60 | 0.449 | 100% | |
| Zinc | 6010B | 568 | 625 | 50.3 | 113% | H |

Reported in mg/kg-dry

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

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-5-5.0
SAMPLE

Lab Sample ID: IH22B
LIMS ID: 05-11842
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 94.5%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 10 | 10 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 52 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 128 | |
| 3050B | 07/19/05 | 7421 | 07/26/05 | 7439-92-1 | Lead | 0.5 | 13.8 | |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.04 | 0.06 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 2 | 257 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-5-10.0
SAMPLE

Lab Sample ID: IH22C
LIMS ID: 05-11843
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 63.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 8 | 8 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 8 | 8 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.3 | 0.3 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 0.8 | **30.2** | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.3 | **14.8** | |
| 3050B | 07/19/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 0.8 | **15.8** | |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.08 | 0.08 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 0.9 | **40.2** | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-6-5.0
SAMPLE

Lab Sample ID: IH22G
LIMS ID: 05-11847
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 90.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 5 | 5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 5 | 5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.2 | 0.2 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 0.5 | 44.6 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.2 | 30.2 | |
| 3050B | 07/19/05 | 7421 | 07/28/05 | 7439-92-1 | Lead | 4 | 88 | |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.05 | 0.05 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 0.6 | 44.4 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-6-10.0
SAMPLE

Lab Sample ID: IH22H
LIMS ID: 05-11848
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 86.6%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 6 | 6 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 6 | 6 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.2 | 0.2 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 0.6 | **24.9** | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.2 | **21.2** | |
| 3050B | 07/19/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 0.6 | **14.1** | |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.04 | 0.04 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 0.7 | **39.1** | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-7-0.0
SAMPLE

Lab Sample ID: IH22K
LIMS ID: 05-11851
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 97.9%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 10 | 10 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 10 | 20 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.5 | 0.5 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-47-3 | Chromium | 1 | 57 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-50-8 | Copper | 0.5 | 107 | |
| 3050B | 07/19/05 | 7421 | 07/27/05 | 7439-92-1 | Lead | 1 | 19 | |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.05 | 0.27 | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-66-6 | Zinc | 1 | 205 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: MW-7-5.0
SAMPLE

Lab Sample ID: IH22M
LIMS ID: 05-11853
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: 07/14/05
Date Received: 07/15/05

Percent Total Solids: 86.2%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-36-0 | Antimony | 6 | 6 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-38-2 | Arsenic | 6 | 6 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | 7440-43-9 | Cadmium | 0.2 | 0.2 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | **7440-47-3** | **Chromium** | 0.6 | **35.5** | |
| 3050B | 07/19/05 | 6010B | 07/27/05 | **7440-50-8** | **Copper** | 0.2 | **14.1** | |
| 3050B | 07/19/05 | 7421 | 07/26/05 | **7439-92-1** | **Lead** | 0.6 | **4.2** | |
| CLP | 07/19/05 | 7471A | 07/20/05 | 7439-97-6 | Mercury | 0.04 | 0.04 | U |
| 3050B | 07/19/05 | 6010B | 07/27/05 | **7440-66-6** | **Zinc** | 0.7 | **35.7** | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: IH22LCS
LIMS ID: 05-11842
Matrix: Soil
Data Release Authorized:
Reported: 07/29/05

QC Report No: IH22-Geomatrix
Project: MJB North
10131
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|
| Antimony | 6010B | 210 | 200 | 105% | |
| Arsenic | 6010B | 196 | 200 | 98.0% | |
| Cadmium | 6010B | 49.8 | 50.0 | 99.6% | |
| Chromium | 6010B | 50.3 | 50.0 | 101% | |
| Copper | 6010B | 50.3 | 50.0 | 101% | |
| Lead | 7421 | 11.0 | 10.0 | 110% | |
| Mercury | 7471A | 0.97 | 1.00 | 97.0% | |
| Zinc | 6010B | 50.6 | 50.0 | 101% | |

Reported in mg/kg-dry

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

**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

GEO
R
AUG
SEATTLE

10 August 2005

Kathleen Goodman
Geomatrix Consultants
600 University Ave., Suite 1020
Seattle, WA 98101

**RE: Project – 10131, MJB North**
**ARI Job No. II03**

Dear Kathleen:

Please find enclosed the original chain of custody records and the final results for the samples from the project referenced above. Eight water samples were received intact on July 22, 2005. The samples were analyzed for SVOAs, PCBs, NWTPH-Dx, ammonia, sulfide and dissolved metals as requested.

A small amount of di-n-butylphthalate was detected in the method blank associated with the SVOA analysis of sample MW-5-0705. Since this compound was not detected in this sample, no corrective actions were taken.

A matrix spike (MS) was prepared and analyzed for dissolved metals in conjunction with sample MW-5-0705. All samples were initially analyzed for dissolved metals on 8/3/05. The percent recovery for cadmium was high following the initial analysis of the MS. The affected samples were re-prepared and re-analyzed. The percent recoveries for all elements were within acceptable QC limits for the re-analysis. The results for the re-analysis only have been submitted.

No further analytical complications were noted.

Copies of these reports and all associated raw data will be kept on file at 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
mark@arilabs.com
206/695-6210

Enclosures
cc: file II03
MDH/mdh

# Chain of Custody Record & Laboratory Analysis Request

| | |
|---|---|
| ARI Assigned Number: IJ03 | Turn-around Requested: Standard |
| ARI Client Company: Geomatrix | Phone: |
| Client Contact: Kathleen Goodman | |
| Client Project Name: MJB North | |
| Client Project #: 10131 | Samplers: Zanna Sattenwhite |

Page: 1 of 1

Date: 7/22/05 | Ice Present? Y

No. of Coolers: 2 | Cooler Temps: 0°, 0°


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 | Diss. Metals* (HNO3) field filtered | Sulfide (NaOH/zinc Ac) EPA 376.2 | Ammonia ($H_2SO_4$) EPA 350.1 | SVOCs EPA 8270C | PCBs EPA 8082 | TPH-Dx | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5-0705 | 7/21/05 | 0954 | W | 9 | X | X | X | X | X | | | | |
| MW-6-0705 | | 1100 | | 3 | X | X | X | | | | | | |
| MW-6X-0705 | | 1100 | | 3 | X | X | X | | | | | | |
| MW-1-0705 | | 1205 | | 3 | X | X | X | | | | | | |
| MW-2-0705 | | 1253 | | 3 | X | X | X | | | | | | |
| MW-3-0705 | | 1340 | | 3 | X | X | X | | | | | | |
| MW-4-0705 | | 1505 | | 3 | X | X | X | | | | | | |
| MW-7-0705 | | 1603 | | 3 | X | X | X | | | | | | |
| | | | | | ZAS 7/22/05 | | | | | | | | |
| | | | | | | | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Comments/Special Instructions: Silica gel/acid wash clean up. * diss Metals: Ant, As, Cd, Cr, Cu, Pb, Hg, Zn. by EPA 6010B/7421/7470A. | Relinquished by: (Signature) | Received by: (Signature) | Relinquished by: (Signature) | Received by: (Signature) |
| | Printed Name: Zanna Sattenwhite | Printed Name: BOB CONGLETON | Printed Name: | Printed Name: |
| | Company: Geomatrix | Company: ART | Company: | Company: |
| | Date & Time: 7/22/05 0835 | Date & Time: 7/22/05 835 | 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.


05-12358/12365

# Data Reporting Qualifiers

**Effective 12/28/04**

## Inorganic Data

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

* Duplicate RPD is not within established control limits

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

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

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

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

## Organic Data

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

* Flagged value is not within established control limits

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

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

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

NR Spiked compound recovery is not reported due to chromatographic interference

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

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

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

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

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

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

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

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

## Geotechnical Data

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

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

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

F Samples were frozen prior to particle size determination

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MB-072505
METHOD BLANK

Lab Sample ID: MB-072505
LIMS ID: 05-12358
Matrix: Water
Data Release Authorized:
Reported: 07/28/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Date Extracted: 07/25/05
Date Analyzed: 07/27/05 15:41
Instrument/Analyst: NT4/LJR

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

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 1.0 | < 1.0 U |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 1.0 | < 1.0 U |
| 95-57-8 | 2-Chlorophenol | 1.0 | < 1.0 U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | < 1.0 U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | < 1.0 U |
| 100-51-6 | Benzyl Alcohol | 5.0 | < 5.0 U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | < 1.0 U |
| 95-48-7 | 2-Methylphenol | 1.0 | < 1.0 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 1.0 | < 1.0 U |
| 106-44-5 | 4-Methylphenol | 1.0 | < 1.0 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 5.0 | < 5.0 U |
| 67-72-1 | Hexachloroethane | 1.0 | < 1.0 U |
| 98-95-3 | Nitrobenzene | 1.0 | < 1.0 U |
| 78-59-1 | Isophorone | 1.0 | < 1.0 U |
| 88-75-5 | 2-Nitrophenol | 5.0 | < 5.0 U |
| 105-67-9 | 2,4-Dimethylphenol | 1.0 | < 1.0 U |
| 65-85-0 | Benzoic Acid | 10 | < 10 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 1.0 | < 1.0 U |
| 120-83-2 | 2,4-Dichlorophenol | 5.0 | < 5.0 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | < 1.0 U |
| 91-20-3 | Naphthalene | 1.0 | < 1.0 U |
| 106-47-8 | 4-Chloroaniline | 5.0 | < 5.0 U |
| 87-68-3 | Hexachlorobutadiene | 1.0 | < 1.0 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 5.0 | < 5.0 U |
| 91-57-6 | 2-Methylnaphthalene | 1.0 | < 1.0 U |
| 77-47-4 | Hexachlorocyclopentadiene | 5.0 | < 5.0 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 5.0 | < 5.0 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5.0 | < 5.0 U |
| 91-58-7 | 2-Chloronaphthalene | 1.0 | < 1.0 U |
| 88-74-4 | 2-Nitroaniline | 5.0 | < 5.0 U |
| 131-11-3 | Dimethylphthalate | 1.0 | < 1.0 U |
| 208-96-8 | Acenaphthylene | 1.0 | < 1.0 U |
| 99-09-2 | 3-Nitroaniline | 5.0 | < 5.0 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MB-072505
METHOD BLANK

Lab Sample ID: MB-072505
LIMS ID: 05-12358
Matrix: Water
Date Analyzed: 07/27/05 15:41

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 83-32-9 | Acenaphthene | 1.0 | < 1.0 U |
| 51-28-5 | 2,4-Dinitrophenol | 10 | < 10 U |
| 100-02-7 | 4-Nitrophenol | 5.0 | < 5.0 U |
| 132-64-9 | Dibenzofuran | 1.0 | < 1.0 U |
| 606-20-2 | 2,6-Dinitrotoluene | 5.0 | < 5.0 U |
| 121-14-2 | 2,4-Dinitrotoluene | 5.0 | < 5.0 U |
| 84-66-2 | Diethylphthalate | 1.0 | < 1.0 U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1.0 | < 1.0 U |
| 86-73-7 | Fluorene | 1.0 | < 1.0 U |
| 100-01-6 | 4-Nitroaniline | 5.0 | < 5.0 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 10 | < 10 U |
| 86-30-6 | N-Nitrosodiphenylamine | 1.0 | < 1.0 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1.0 | < 1.0 U |
| 118-74-1 | Hexachlorobenzene | 1.0 | < 1.0 U |
| 87-86-5 | Pentachlorophenol | 5.0 | < 5.0 U |
| 85-01-8 | Phenanthrene | 1.0 | < 1.0 U |
| 86-74-8 | Carbazole | 1.0 | < 1.0 U |
| 120-12-7 | Anthracene | 1.0 | < 1.0 U |
| **84-74-2** | **Di-n-Butylphthalate** | **1.0** | **1.2** |
| 206-44-0 | Fluoranthene | 1.0 | < 1.0 U |
| 129-00-0 | Pyrene | 1.0 | < 1.0 U |
| 85-68-7 | Butylbenzylphthalate | 1.0 | < 1.0 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5.0 | < 5.0 U |
| 56-55-3 | Benzo(a)anthracene | 1.0 | < 1.0 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.0 | < 1.0 U |
| 218-01-9 | Chrysene | 1.0 | < 1.0 U |
| 117-84-0 | Di-n-Octyl phthalate | 1.0 | < 1.0 U |
| 205-99-2 | Benzo(b)fluoranthene | 1.0 | < 1.0 U |
| 207-08-9 | Benzo(k)fluoranthene | 1.0 | < 1.0 U |
| 50-32-8 | Benzo(a)pyrene | 1.0 | < 1.0 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.0 | < 1.0 U |
| 53-70-3 | Dibenz(a,h)anthracene | 1.0 | < 1.0 U |
| 191-24-2 | Benzo(g,h,i)perylene | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 82.0% | 2-Fluorobiphenyl | 70.4% |
| d14-p-Terphenyl | 84.4% | d4-1,2-Dichlorobenzene | 59.6% |
| d5-Phenol | 71.5% | 2-Fluorophenol | 75.7% |
| 2,4,6-Tribromophenol | 77.3% | d4-2-Chlorophenol | 77.6% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MW-5-0705
SAMPLE

Lab Sample ID: II03A
LIMS ID: 05-12358
Matrix: Water
Data Release Authorized:
Reported: 07/28/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

Date Extracted: 07/25/05
Date Analyzed: 07/27/05 19:39
Instrument/Analyst: NT4/LJR

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

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 1.0 | < 1.0 U |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 1.0 | < 1.0 U |
| 95-57-8 | 2-Chlorophenol | 1.0 | < 1.0 U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | < 1.0 U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | < 1.0 U |
| 100-51-6 | Benzyl Alcohol | 5.0 | < 5.0 U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | < 1.0 U |
| 95-48-7 | 2-Methylphenol | 1.0 | < 1.0 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 1.0 | < 1.0 U |
| 106-44-5 | 4-Methylphenol | 1.0 | < 1.0 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 5.0 | < 5.0 U |
| 67-72-1 | Hexachloroethane | 1.0 | < 1.0 U |
| 98-95-3 | Nitrobenzene | 1.0 | < 1.0 U |
| 78-59-1 | Isophorone | 1.0 | < 1.0 U |
| 88-75-5 | 2-Nitrophenol | 5.0 | < 5.0 U |
| 105-67-9 | 2,4-Dimethylphenol | 1.0 | < 1.0 U |
| 65-85-0 | Benzoic Acid | 10 | < 10 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 1.0 | < 1.0 U |
| 120-83-2 | 2,4-Dichlorophenol | 5.0 | < 5.0 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | < 1.0 U |
| 91-20-3 | Naphthalene | 1.0 | < 1.0 U |
| 106-47-8 | 4-Chloroaniline | 5.0 | < 5.0 U |
| 87-68-3 | Hexachlorobutadiene | 1.0 | < 1.0 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 5.0 | < 5.0 U |
| 91-57-6 | 2-Methylnaphthalene | 1.0 | < 1.0 U |
| 77-47-4 | Hexachlorocyclopentadiene | 5.0 | < 5.0 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 5.0 | < 5.0 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5.0 | < 5.0 U |
| 91-58-7 | 2-Chloronaphthalene | 1.0 | < 1.0 U |
| 88-74-4 | 2-Nitroaniline | 5.0 | < 5.0 U |
| 131-11-3 | Dimethylphthalate | 1.0 | < 1.0 U |
| 208-96-8 | Acenaphthylene | 1.0 | < 1.0 U |
| 99-09-2 | 3-Nitroaniline | 5.0 | < 5.0 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MW-5-0705
SAMPLE

Lab Sample ID: II03A
LIMS ID: 05-12358
Matrix: Water
Date Analyzed: 07/27/05 19:39

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 83-32-9 | Acenaphthene | 1.0 | < 1.0 U |
| 51-28-5 | 2,4-Dinitrophenol | 10 | < 10 U |
| 100-02-7 | 4-Nitrophenol | 5.0 | < 5.0 U |
| 132-64-9 | Dibenzofuran | 1.0 | < 1.0 U |
| 606-20-2 | 2,6-Dinitrotoluene | 5.0 | < 5.0 U |
| 121-14-2 | 2,4-Dinitrotoluene | 5.0 | < 5.0 U |
| 84-66-2 | Diethylphthalate | 1.0 | < 1.0 U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1.0 | < 1.0 U |
| 86-73-7 | Fluorene | 1.0 | < 1.0 U |
| 100-01-6 | 4-Nitroaniline | 5.0 | < 5.0 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 10 | < 10 U |
| 86-30-6 | N-Nitrosodiphenylamine | 1.0 | < 1.0 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1.0 | < 1.0 U |
| 118-74-1 | Hexachlorobenzene | 1.0 | < 1.0 U |
| 87-86-5 | Pentachlorophenol | 5.0 | < 5.0 U |
| 85-01-8 | Phenanthrene | 1.0 | < 1.0 U |
| 86-74-8 | Carbazole | 1.0 | < 1.0 U |
| 120-12-7 | Anthracene | 1.0 | < 1.0 U |
| 84-74-2 | Di-n-Butylphthalate | 1.0 | < 1.0 U |
| 206-44-0 | Fluoranthene | 1.0 | < 1.0 U |
| 129-00-0 | Pyrene | 1.0 | < 1.0 U |
| 85-68-7 | Butylbenzylphthalate | 1.0 | < 1.0 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5.0 | < 5.0 U |
| 56-55-3 | Benzo(a)anthracene | 1.0 | < 1.0 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.0 | < 1.0 U |
| 218-01-9 | Chrysene | 1.0 | < 1.0 U |
| 117-84-0 | Di-n-Octyl phthalate | 1.0 | < 1.0 U |
| 205-99-2 | Benzo(b)fluoranthene | 1.0 | < 1.0 U |
| 207-08-9 | Benzo(k)fluoranthene | 1.0 | < 1.0 U |
| 50-32-8 | Benzo(a)pyrene | 1.0 | < 1.0 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.0 | < 1.0 U |
| 53-70-3 | Dibenz(a,h)anthracene | 1.0 | < 1.0 U |
| 191-24-2 | Benzo(g,h,i)perylene | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 74.8% | 2-Fluorobiphenyl | 63.2% |
| d14-p-Terphenyl | 72.4% | d4-1,2-Dichlorobenzene | 55.6% |
| d5-Phenol | 65.1% | 2-Fluorophenol | 69.9% |
| 2,4,6-Tribromophenol | 73.9% | d4-2-Chlorophenol | 71.2% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: LCS-072505
LCS/LCSD

Lab Sample ID: LCS-072505
LIMS ID: 05-12358
Matrix: Water
Data Release Authorized:
Reported: 07/28/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

Date Extracted LCS/LCSD: 07/25/05

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

Date Analyzed LCS: 07/27/05 16:15
LCSD: 07/27/05 16:49
Instrument/Analyst LCS: NT4/LJR
LCSD: NT4/LJR

GPC Cleanup: NO

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|---|---|---|---|---|---|---|---|
| Phenol | 20.6 | 25.0 | 82.4% | 21.6 | 25.0 | 86.4% | 4.7% |
| 2-Chlorophenol | 20.9 | 25.0 | 83.6% | 21.3 | 25.0 | 85.2% | 1.9% |
| 1,4-Dichlorobenzene | 11.4 | 25.0 | 45.6% | 16.4 | 25.0 | 65.6% | 36.0% |
| N-Nitroso-Di-N-Propylamine | 20.6 | 25.0 | 82.4% | 21.5 | 25.0 | 86.0% | 4.3% |
| 1,2,4-Trichlorobenzene | 12.2 | 25.0 | 48.8% | 17.0 | 25.0 | 68.0% | 32.9% |
| 4-Chloro-3-methylphenol | 21.6 | 25.0 | 86.4% | 23.0 | 25.0 | 92.0% | 6.3% |
| Acenaphthene | 18.8 | 25.0 | 75.2% | 20.3 | 25.0 | 81.2% | 7.7% |
| 4-Nitrophenol | 27.4 | 25.0 | 110% | 29.8 | 25.0 | 119% | 8.4% |
| 2,4-Dinitrotoluene | 22.7 | 25.0 | 90.8% | 23.6 | 25.0 | 94.4% | 3.9% |
| Pentachlorophenol | 20.7 | 25.0 | 82.8% | 22.7 | 25.0 | 90.8% | 9.2% |
| Pyrene | 19.7 | 25.0 | 78.8% | 20.9 | 25.0 | 83.6% | 5.9% |

Semivolatile Surrogate Recovery

| | LCS | LCSD |
|---|---|---|
| d5-Nitrobenzene | 82.4% | 80.0% |
| 2-Fluorobiphenyl | 74.8% | 74.4% |
| d14-p-Terphenyl | 81.6% | 80.4% |
| d4-1,2-Dichlorobenzene | 63.6% | 68.0% |
| d5-Phenol | 82.9% | 77.1% |
| 2-Fluorophenol | 79.7% | 75.7% |
| 2,4,6-Tribromophenol | 90.9% | 88.8% |
| d4-2-Chlorophenol | 82.4% | 79.7% |

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: MB-072805
METHOD BLANK

Lab Sample ID: MB-072805
LIMS ID: 05-12358
Matrix: Water
Data Release Authorized: VTS
Reported: 08/03/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Date Extracted: 07/28/05
Date Analyzed: 08/02/05 14:00
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | < 1.0 U |
| 53469-21-9 | Aroclor 1242 | 1.0 | < 1.0 U |
| 12672-29-6 | Aroclor 1248 | 1.0 | < 1.0 U |
| 11097-69-1 | Aroclor 1254 | 1.0 | < 1.0 U |
| 11096-82-5 | Aroclor 1260 | 1.0 | < 1.0 U |
| 11104-28-2 | Aroclor 1221 | 1.0 | < 1.0 U |
| 11141-16-5 | Aroclor 1232 | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

**PCB Surrogate Recovery**

| | |
|---|---|
| Decachlorobiphenyl | 104% |
| Tetrachlorometaxylene | 84.0% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: MW-5-0705
SAMPLE

Lab Sample ID: II03A
LIMS ID: 05-12358
Matrix: Water
Data Release Authorized: VTS
Reported: 08/03/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

Date Extracted: 07/28/05
Date Analyzed: 08/02/05 14:51
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | < 1.0 U |
| 53469-21-9 | Aroclor 1242 | 1.0 | < 1.0 U |
| 12672-29-6 | Aroclor 1248 | 1.0 | < 1.0 U |
| 11097-69-1 | Aroclor 1254 | 1.0 | < 1.0 U |
| 11096-82-5 | Aroclor 1260 | 1.0 | < 1.0 U |
| 11104-28-2 | Aroclor 1221 | 1.0 | < 1.0 U |
| 11141-16-5 | Aroclor 1232 | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

| PCB Surrogate Recovery | |
|---|---|
| Decachlorobiphenyl | 84.2% |
| Tetrachlorometaxylene | 89.8% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: LCS-072805
LCS/LCSD

Lab Sample ID: LCS-072805
LIMS ID: 05-12358
Matrix: Water
Data Release Authorized: VTS
Reported: 08/03/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 07/28/05

Date Analyzed LCS: 08/02/05 14:17
LCSD: 08/02/05 14:34
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: No

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 4.03 | 5.12 | 78.7% | 4.16 | 5.12 | 81.2% | 3.2% |
| Aroclor 1260 | 4.17 | 5.12 | 81.4% | 4.33 | 5.12 | 84.6% | 3.8% |

PCB Surrogate Recovery

| | LCS | LCSD |
|---|---|---|
| Decachlorobiphenyl | 95.5% | 96.2% |
| Tetrachlorometaxylene | 84.8% | 85.8% |

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131

Data Release Authorized:
Reported: 07/27/05

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result mg/L |
|---|---|---|---|---|---|---|
| MB-072505 | Method Blank | 07/25/05 | 07/27/05 | 1.0 | Diesel | < 0.25 U |
| 05-12358 | HC ID: --- | | FID3A | | Motor Oil | < 0.50 U |
| | | | | | o-Terphenyl | 88.2% |
| II03A | MW-5-0705 | 07/25/05 | 07/27/05 | 1.0 | Diesel | < 0.25 U |
| 05-12358 | HC ID: --- | | FID3A | | Motor Oil | < 0.50 U |
| | | | | | o-Terphenyl | 82.4% |

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned


Sample ID: LCS-072505
LAB CONTROL

Lab Sample ID: LCS-072505
LIMS ID: 05-12358
Matrix: Water
Data Release Authorized:
Reported: 07/27/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

Date Extracted: 07/25/05
Date Analyzed: 07/27/05 10:37
Instrument/Analyst: FID/JGR

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

| Range | Lab Control | Spike Added | Recovery |
|---|---|---|---|
| Diesel | 2.50 | 3.00 | 83.3% |

TPHD Surrogate Recovery

| | |
|---|---|
| o-Terphenyl | 96.7% |

Results reported in mg/L

# METHOD BLANK RESULTS-CONVENTIONALS
## II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: NA
Date Received: NA

| Analyte | Method | Date | Units | Blank |
|---|---|---|---|---|
| N-Ammonia | EPA 350.1M | 08/02/05 | mg-N/L | < 0.010 U |
| Sulfide | EPA 376.2 | 07/26/05 | mg/L | < 0.05 U |

SAMPLE RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/21/05
Date Received: 07/22/05

**Client ID: MW-5-0705**
**ARI ID: 05-12358 II03A**

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 08/02/05 080205#3 | EPA 350.1M | mg-N/L | 0.010 | 0.725 |
| Sulfide | 07/26/05 072605#1 | EPA 376.2 | mg/L | 0.05 | < 0.05 U |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/21/05
Date Received: 07/22/05

**Client ID: MW-6-0705**
**ARI ID: 05-12359 II03B**

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 08/02/05 080205#3 | EPA 350.1M | mg-N/L | 0.020 | 1.71 |
| Sulfide | 07/26/05 072605#1 | EPA 376.2 | mg/L | 0.05 | < 0.05 U |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/21/05
Date Received: 07/22/05

**Client ID: MW-6X-0705**
**ARI ID: 05-12360 II03C**

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 08/02/05 080205#3 | EPA 350.1M | mg-N/L | 0.020 | 1.68 |
| Sulfide | 07/26/05 072605#1 | EPA 376.2 | mg/L | 0.05 | < 0.05 U |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/21/05
Date Received: 07/22/05

**Client ID: MW-1-0705**
**ARI ID: 05-12361 II03D**

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 08/02/05 080205#3 | EPA 350.1M | mg-N/L | 0.020 | 1.45 |
| Sulfide | 07/26/05 072605#1 | EPA 376.2 | mg/L | 1.00 | 13.3 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/21/05
Date Received: 07/22/05

**Client ID: MW-2-0705**
**ARI ID: 05-12362 II03E**

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 08/02/05 080205#3 | EPA 350.1M | mg-N/L | 0.050 | 2.80 |
| Sulfide | 07/26/05 072605#1 | EPA 376.2 | mg/L | 2.50 | 28.0 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/21/05
Date Received: 07/22/05

**Client ID: MW-3-0705**
**ARI ID: 05-12363 II03F**

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 08/02/05 080205#3 | EPA 350.1M | mg-N/L | 0.020 | 1.84 |
| Sulfide | 07/26/05 072605#1 | EPA 376.2 | mg/L | 0.05 | < 0.05 U |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/21/05
Date Received: 07/22/05

**Client ID: MW-4-0705**
**ARI ID: 05-12364 II03G**

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 08/02/05 080205#3 | EPA 350.1M | mg-N/L | 0.100 | 5.54 |
| Sulfide | 07/26/05 072605#1 | EPA 376.2 | mg/L | 0.05 | < 0.05 U |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/21/05
Date Received: 07/22/05

**Client ID: MW-7-0705**
**ARI ID: 05-12365 II03H**

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 08/02/05 080205#3 | EPA 350.1M | mg-N/L | 0.010 | 0.271 |
| Sulfide | 07/26/05 072605#1 | EPA 376.2 | mg/L | 0.05 | < 0.05 U |

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Analyte | Method | Date | Units | Sample | Replicate(s) | RPD/RSD |
|---|---|---|---|---|---|---|
| **ARI ID: II03A Client ID: MW-5-0705** | | | | | | |
| N-Ammonia | EPA 350.1M | 08/02/05 | mg-N/L | 0.725 | 0.722 | 0.4% |
| Sulfide | EPA 376.2 | 07/26/05 | mg/L | < 0.05 | < 0.05 | NA |

MS/MSD RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Analyte | Method | Date | Units | Sample | Spike | Spike Added | Recovery |
|---|---|---|---|---|---|---|---|
| **ARI ID: II03A Client ID: MW-5-0705** | | | | | | | |
| N-Ammonia | EPA 350.1M | 08/02/05 | mg-N/L | 0.725 | 1.76 | 1.00 | 103.5% |
| Sulfide | EPA 376.2 | 07/26/05 | mg/L | < 0.05 | 6.43 | 7.52 | 85.5% |

LAB CONTROL RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: NA
Date Received: NA

| Analyte | Method | Date | Units | LCS | Spike Added | Recovery |
|---|---|---|---|---|---|---|
| Sulfide | EPA 376.2 | 07/26/05 | mg/L | 0.70 | 0.75 | 93.1% |

STANDARD REFERENCE RESULTS-CONVENTIONALS
II03-Geomatrix

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/03/05

Project: MJB NORTH
Event: 10131
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Method | Date | Units | SRM | True Value | Recovery |
|---|---|---|---|---|---|---|
| N-Ammonia<br>SPEX 28-24AS | EPA 350.1M | 08/02/05 | mg-N/L | 0.462 | 0.500 | 92.4% |

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: METHOD BLANK**

Lab Sample ID: II03MB
LIMS ID: 05-12359
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-36-0 | Antimony | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-38-2 | Arsenic | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-43-9 | Cadmium | 0.002 | 0.002 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-47-3 | Chromium | 0.005 | 0.005 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-50-8 | Copper | 0.002 | 0.002 | U |
| 3020A | 07/28/05 | 7421 | 08/03/05 | 7439-92-1 | Lead | 0.001 | 0.001 | U |
| 7470A | 07/26/05 | 7470A | 07/30/05 | 7439-97-6 | Mercury | 0.0001 | 0.0001 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-66-6 | Zinc | 0.006 | 0.006 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: MW-5-0705**
**SAMPLE**

Lab Sample ID: II03A
LIMS ID: 05-12358
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-36-0 | Antimony | 0.1 | 0.1 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-38-2 | Arsenic | 0.1 | 0.1 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-43-9 | Cadmium | 0.004 | 0.004 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | **7440-47-3** | **Chromium** | 0.01 | **0.05** | |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-50-8 | Copper | 0.004 | 0.004 | U |
| 3020A | 07/28/05 | 7421 | 08/03/05 | **7439-92-1** | **Lead** | 0.001 | **0.001** | |
| 7470A | 07/26/05 | 7470A | 07/30/05 | 7439-97-6 | Mercury | 0.0001 | 0.0001 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-66-6 | Zinc | 0.01 | 0.01 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: MW-5-0705**
**DUPLICATE**

Lab Sample ID: II03A
LIMS ID: 05-12358
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

## MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---|---|---|---|---|---|---|
| Antimony | 6010B | 0.1 U | 0.1 U | 0.0% | +/- 0.1 | L |
| Arsenic | 6010B | 0.1 U | 0.1 U | 0.0% | +/- 0.1 | L |
| Cadmium | 6010B | 0.004 U | 0.004 U | 0.0% | +/- 0.004 | L |
| Chromium | 6010B | 0.05 | 0.04 | 22.2% | +/- 0.01 | L |
| Copper | 6010B | 0.004 U | 0.004 U | 0.0% | +/- 0.004 | L |
| Lead | 7421 | 0.001 | 0.001 U | 0.0% | +/- 0.001 | L |
| Mercury | 7470A | 0.0001 U | 0.0001 U | 0.0% | +/- 0.0001 | L |
| Zinc | 6010B | 0.01 U | 0.01 U | 0.0% | +/- 0.01 | L |

Reported in mg/L

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

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: MW-5-0705**
**MATRIX SPIKE**

Lab Sample ID: II03A
LIMS ID: 05-12358
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

**MATRIX SPIKE QUALITY CONTROL REPORT**

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|---|
| Antimony | 6010B | 0.1 U | 4.2 | 4.00 | 105% | |
| Arsenic | 6010B | 0.1 U | 4.6 | 4.00 | 115% | |
| Cadmium | 6010B | 0.004 U | 1.07 | 1.00 | 107% | |
| Chromium | 6010B | 0.05 | 1.00 | 1.00 | 95.0% | |
| Copper | 6010B | 0.004 U | 1.09 | 1.00 | 109% | |
| Lead | 7421 | 0.001 | 0.108 | 0.100 | 107% | |
| Mercury | 7470A | 0.0001 U | 0.0009 | 0.001 | 90.0% | |
| Zinc | 6010B | 0.01 U | 0.88 | 1.00 | 88.0% | |

Reported in mg/L

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

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: MW-6-0705**
**SAMPLE**

Lab Sample ID: II03B
LIMS ID: 05-12359
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-36-0 | Antimony | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-38-2 | Arsenic | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-43-9 | Cadmium | 0.002 | 0.002 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | **7440-47-3** | **Chromium** | 0.005 | **0.005** | |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-50-8 | Copper | 0.002 | 0.002 | U |
| 3020A | 07/28/05 | 7421 | 08/02/05 | 7439-92-1 | Lead | 0.001 | 0.001 | U |
| 7470A | 07/26/05 | 7470A | 07/30/05 | 7439-97-6 | Mercury | 0.0001 | 0.0001 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-66-6 | Zinc | 0.006 | 0.006 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: MW-6X-0705**
**SAMPLE**

Lab Sample ID: II03C
LIMS ID: 05-12360
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-36-0 | Antimony | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-38-2 | Arsenic | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-43-9 | Cadmium | 0.002 | 0.002 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | **7440-47-3** | **Chromium** | 0.005 | **0.006** | |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-50-8 | Copper | 0.002 | 0.002 | U |
| 3020A | 07/28/05 | 7421 | 08/02/05 | 7439-92-1 | Lead | 0.001 | 0.001 | U |
| 7470A | 07/26/05 | 7470A | 07/30/05 | 7439-97-6 | Mercury | 0.0001 | 0.0001 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-66-6 | Zinc | 0.006 | 0.006 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: MW-1-0705**
**SAMPLE**

Lab Sample ID: II03D
LIMS ID: 05-12361
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-36-0 | Antimony | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-38-2 | Arsenic | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-43-9 | Cadmium | 0.002 | 0.002 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | **7440-47-3** | **Chromium** | 0.005 | **0.012** | |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-50-8 | Copper | 0.002 | 0.002 | U |
| 3020A | 07/28/05 | 7421 | 08/02/05 | 7439-92-1 | Lead | 0.001 | 0.001 | U |
| 7470A | 07/26/05 | 7470A | 07/30/05 | 7439-97-6 | Mercury | 0.0001 | 0.0001 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-66-6 | Zinc | 0.006 | 0.006 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: MW-2-0705**
**SAMPLE**

Lab Sample ID: II03E
LIMS ID: 05-12362
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-36-0 | Antimony | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-38-2 | Arsenic | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-43-9 | Cadmium | 0.002 | 0.002 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | **7440-47-3** | **Chromium** | 0.005 | **0.020** | |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-50-8 | Copper | 0.002 | 0.002 | U |
| 3020A | 07/28/05 | 7421 | 08/02/05 | 7439-92-1 | Lead | 0.001 | 0.001 | U |
| 7470A | 07/26/05 | 7470A | 07/30/05 | 7439-97-6 | Mercury | 0.0001 | 0.0001 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-66-6 | Zinc | 0.006 | 0.006 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: MW-3-0705**
**SAMPLE**

Lab Sample ID: II03F
LIMS ID: 05-12363
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-36-0 | Antimony | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-38-2 | Arsenic | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-43-9 | Cadmium | 0.002 | 0.002 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | **7440-47-3** | **Chromium** | 0.005 | **0.005** | |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-50-8 | Copper | 0.002 | 0.002 | U |
| 3020A | 07/28/05 | 7421 | 08/02/05 | 7439-92-1 | Lead | 0.001 | 0.001 | U |
| 7470A | 07/26/05 | 7470A | 07/30/05 | 7439-97-6 | Mercury | 0.0001 | 0.0001 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-66-6 | Zinc | 0.006 | 0.006 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: MW-4-0705**
**SAMPLE**

Lab Sample ID: II03G
LIMS ID: 05-12364
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-36-0 | Antimony | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-38-2 | Arsenic | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-43-9 | Cadmium | 0.002 | 0.002 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | **7440-47-3** | **Chromium** | 0.005 | **0.020** | |
| 6010B | 07/26/05 | 6010B | 08/08/05 | **7440-50-8** | **Copper** | 0.002 | **0.003** | |
| 3020A | 07/28/05 | 7421 | 08/02/05 | 7439-92-1 | Lead | 0.001 | 0.001 | U |
| 7470A | 07/26/05 | 7470A | 07/30/05 | 7439-97-6 | Mercury | 0.0001 | 0.0001 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-66-6 | Zinc | 0.006 | 0.006 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: MW-7-0705**
**SAMPLE**

Lab Sample ID: II03H
LIMS ID: 05-12365
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-36-0 | Antimony | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-38-2 | Arsenic | 0.05 | 0.05 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-43-9 | Cadmium | 0.002 | 0.002 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | **7440-47-3** | **Chromium** | 0.005 | **0.006** | |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-50-8 | Copper | 0.002 | 0.002 | U |
| 3020A | 07/28/05 | 7421 | 08/02/05 | 7439-92-1 | Lead | 0.001 | 0.001 | U |
| 7470A | 07/26/05 | 7470A | 07/30/05 | 7439-97-6 | Mercury | 0.0001 | 0.0001 | U |
| 6010B | 07/26/05 | 6010B | 08/08/05 | 7440-66-6 | Zinc | 0.006 | 0.006 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

**INORGANICS ANALYSIS DATA SHEET**
**DISSOLVED METALS**
Page 1 of 1

**Sample ID: LAB CONTROL**

Lab Sample ID: II03LCS
LIMS ID: 05-12359
Matrix: Water
Data Release Authorized:
Reported: 08/09/05

QC Report No: II03-Geomatrix
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

**BLANK SPIKE QUALITY CONTROL REPORT**

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|
| Antimony | 6010B | 2.04 | 2.00 | 102% | |
| Arsenic | 6010B | 2.06 | 2.00 | 103% | |
| Cadmium | 6010B | 0.531 | 0.500 | 106% | |
| Chromium | 6010B | 0.501 | 0.500 | 100% | |
| Copper | 6010B | 0.495 | 0.500 | 99.0% | |
| Lead | 7421 | 0.102 | 0.100 | 102% | |
| Mercury | 7470A | 0.0021 | 0.0020 | 105% | |
| Zinc | 6010B | 0.497 | 0.500 | 99.4% | |

Reported in mg/L

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

**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

GEOMATRIX
Received
AUG 17 2005
SEATTLE

10 August 2005

Kathleen Goodman
Geomatrix Consultants
600 University Ave., Suite 1020
Seattle, WA 98101

**RE: Project – 10131, MJB North**
**ARI Job No. IJ43**

Dear Kathleen:

Please find enclosed the final results for the sample from the project referenced above. Hexavalent chromium and total arsenic by GFAA was added to sample RI-TP-6.0.0 as requested on 8/5/05.

No analytical complications were noted.

Copies of these reports and all associated raw data will be kept on file at 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
mark@arilabs.com
206/695-6210

Enclosures

cc: file IJ43

MDH/mdh

METHOD BLANK RESULTS-CONVENTIONALS
IJ43-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/16/05

Project: MJB NORTH
Event: 10131
Date Sampled: NA
Date Received: NA

| Analyte | Date | Units | Blank |
|---|---|---|---|
| Hexavalent Chrome | 08/15/05 | mg/kg | < 0.112 U |
| Total Solids | 08/08/05 | Percent | < 0.01 U |

SAMPLE RESULTS-CONVENTIONALS
IJ43-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/16/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/12/05
Date Received: 07/13/05

**Client ID: RI-TP-6-0.0**
**ARI ID: 05-13248 IJ43A**

| Analyte | Date | Method | Units | RL | Sample | |
|---|---|---|---|---|---|---|
| Hexavalent Chrome | 08/15/05<br>081505#1 | SM3500Cr-D | mg/kg | 0.118 | < 0.118 U | UJ |
| Total Solids | 08/08/05<br>080805#1 | EPA 160.3 | Percent | 0.01 | 95.50 | |

RL Analytical reporting limit
U Undetected at reported detection limit

Hexavalent Chrome performed on KH2PO4 Extracts.

JLS
10/24/05

REPLICATE RESULTS-CONVENTIONALS
IJ43-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/16/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/12/05
Date Received: 07/13/05

| Analyte | Date | Units | Sample | Replicate(s) | RPD/RSD |
|---|---|---|---|---|---|
| **ARI ID: IJ43A Client ID: RI-TP-6-0.0** | | | | | |
| Hexavalent Chrome | 08/15/05 | mg/kg | < 0.118 | < 0.118<br>< 0.118 | NA |
| Total Solids | 08/08/05 | Percent | 95.50 | 95.50<br>95.60 | 0.1% |

MS/MSD RESULTS-CONVENTIONALS
IJ43-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/16/05

Project: MJB NORTH
Event: 10131
Date Sampled: 07/12/05
Date Received: 07/13/05

| Analyte | Date | Units | Sample | Spike | Spike Added | Recovery |
|---|---|---|---|---|---|---|
| **ARI ID: IJ43A Client ID: RI-TP-6-0.0** | | | | | | |
| Hexavalent Chrome | 08/15/05 | mg/kg | < 0.118 | 5.24 | 6.54 | 80.1% |

STANDARD REFERENCE RESULTS-CONVENTIONALS
IJ43-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/16/05

Project: MJB NORTH
Event: 10131
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Date | Units | SRM | True Value | Recovery |
|---|---|---|---|---|---|
| Hexavalent Chrome<br>Soil Hexavalent Chrome | 08/15/05 | mg/kg | 0.242 | 0.250 | 96.8% |

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: IJ43MB
LIMS ID: 05-13249
Matrix: Soil
Data Release Authorized:
Reported: 08/15/05

QC Report No: IJ43-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 08/09/05 | 7060A | 08/15/05 | 7440-38-2 | Arsenic | 0.1 | 0.1 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: RI-TP-1-3.0
SAMPLE

Lab Sample ID: IJ43B
LIMS ID: 05-13249
Matrix: Soil
Data Release Authorized:
Reported: 08/15/05

QC Report No: IJ43-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 73.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 08/09/05 | 7060A | 08/15/05 | 7440-38-2 | Arsenic | 0.7 | 6.8 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: IJ43LCS
LIMS ID: 05-13249
Matrix: Soil
Data Release Authorized:
Reported: 08/15/05

QC Report No: IJ43-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|
| Arsenic | 7060A | 9.2 | 10.0 | 92.0% | |

Reported in mg/kg-dry

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

**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

26 August 2005




Kathleen Goodman
Geomatrix Consultants
600 University Ave., Suite 1020
Seattle, WA 98101

**RE: Project – 10131, MJB North**
**ARI Job No. IJ84**

Dear Kathleen:

Please find enclosed and the final results for the samples from the project referenced above. These samples were analyzed for dissolved arsenic and antimony as requested.

No analytical complications were noted.

Copies of these reports and all associated raw data will be kept on file at 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
mark@arilabs.com
206/695-6210

Enclosures

cc: file IJ84

MDH/mdh

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: IJ84MB
LIMS ID: 05-13423
Matrix: Water
Data Release Authorized:
Reported: 08/26/05

QC Report No: IJ84-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-5-0705
SAMPLE

Lab Sample ID: IJ84A
LIMS ID: 05-13423
Matrix: Water
Data Release Authorized:
Reported: 08/26/05

QC Report No: IJ84-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 08/16/05 | 200.8 | 08/24/05 | 7440-36-0 | Antimony | 1 | 2 | |
| 200.8 | 08/16/05 | 200.8 | 08/24/05 | 7440-38-2 | Arsenic | 2 | 2 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-6-0705
SAMPLE

Lab Sample ID: IJ84B
LIMS ID: 05-13424
Matrix: Water
Data Release Authorized:
Reported: 08/26/05

QC Report No: IJ84-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-38-2 | Arsenic | 0.5 | 6.5 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-6X-0705
SAMPLE

Lab Sample ID: IJ84C
LIMS ID: 05-13425
Matrix: Water
Data Release Authorized:
Reported: 08/26/05

QC Report No: IJ84-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-38-2 | Arsenic | 0.5 | 6.9 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-1-0705
SAMPLE

Lab Sample ID: IJ84D
LIMS ID: 05-13426
Matrix: Water
Data Release Authorized:
Reported: 08/26/05

QC Report No: IJ84-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-38-2 | Arsenic | 0.5 | 0.5 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-2-0705
SAMPLE

Lab Sample ID: IJ84E
LIMS ID: 05-13427
Matrix: Water
Data Release Authorized:
Reported: 08/26/05

QC Report No: IJ84-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-36-0 | Antimony | 0.2 | 0.3 | |
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-38-2 | Arsenic | 0.5 | 0.5 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-3-0705
SAMPLE

Lab Sample ID: IJ84F
LIMS ID: 05-13428
Matrix: Water
Data Release Authorized:
Reported: 08/26/05

QC Report No: IJ84-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-38-2 | Arsenic | 0.2 | 1.2 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-4-0705
SAMPLE

Lab Sample ID: IJ84G
LIMS ID: 05-13429
Matrix: Water
Data Release Authorized:
Reported: 08/26/05

QC Report No: IJ84-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-36-0 | Antimony | 0.2 | 0.6 | |
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-38-2 | Arsenic | 0.5 | 13.0 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-7-0705
SAMPLE

Lab Sample ID: IJ84H
LIMS ID: 05-13430
Matrix: Water
Data Release Authorized:
Reported: 08/26/05

QC Report No: IJ84-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: 07/21/05
Date Received: 07/22/05

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 08/16/05 | 200.8 | 08/22/05 | 7440-38-2 | Arsenic | 0.2 | 2.5 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: LAB CONTROL

Lab Sample ID: IJ84LCS
LIMS ID: 05-13423
Matrix: Water
Data Release Authorized:
Reported: 08/26/05

QC Report No: IJ84-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

## BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|
| Antimony | 200.8 | 26.0 | 25.0 | 104% | |
| Arsenic | 200.8 | 25.8 | 25.0 | 103% | |

Reported in µg/L

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

**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

30 August 2005

GEOMATRIX
Received
SEP - 1 2005
SEATTLE

Kathleen Goodman
Geomatrix Consultants
600 University Ave., Suite 1020
Seattle, WA 98101

**RE: Project – 10131, MJB North**
**ARI Job No. IK70**

Dear Kathleen:

Please find enclosed the final results for the sample from the project referenced above.

Lead by GFAA was added to sample RI-TP-7-6.5 as requested on 8/18/05.

No analytical complications were noted.

Copies of these reports and all associated raw data will be kept on file at 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
mark@arilabs.com
206/695-6210

Enclosures

cc: file IK70

MDH/mdh

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: METHOD BLANK

Lab Sample ID: IK70MB
LIMS ID: 05-14027
Matrix: Soil
Data Release Authorized:
Reported: 08/30/05

QC Report No: IK70-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 08/19/05 | 6010B | 08/29/05 | 7439-92-1 | Lead | 2 | 2 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: RI-TP-7-6.5
SAMPLE

Lab Sample ID: IK70A
LIMS ID: 05-14027
Matrix: Soil
Data Release Authorized:
Reported: 08/30/05

QC Report No: IK70-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: 07/12/05
Date Received: 07/13/05

Percent Total Solids: 87.1%

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | mg/kg-dry | Q |
|---|---|---|---|---|---|---|---|---|
| 3050B | 08/19/05 | 6010B | 08/29/05 | 7439-92-1 | Lead | 2 | 7 | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS


Sample ID: LAB CONTROL

Lab Sample ID: IK70LCS
LIMS ID: 05-14027
Matrix: Soil
Data Release Authorized:
Reported: 08/30/05

QC Report No: IK70-GEOMATRIX
Project: MJB NORTH
10131
Date Sampled: NA
Date Received: NA

## BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|
| Lead | 6010B | 200 | 200 | 100% | |

Reported in mg/kg-dry

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

Geomatrix

# Memorandum

| | | | |
|---|---|---|---|
| **TO:** | Kathleen Goodman | **DATE:** | March 23, 2006 |
| **FROM:** | Zanna Satterwhite | **PROJ. NO.:** | 10131 |
| **CC:** | Project File | **PROJ. NAME:** | MJB North Yard |
| **SUBJECT:** | Groundwater and Soil Sampling Summary Data Quality Review – Sample Delivery Groups IZ24, 0602-143, 0602-143B, and 0602-143C | | |

This memorandum presents a summary data quality review of seven primary groundwater samples and one field duplicate groundwater sample, collected January 24, 2006, and 100 primary soil samples collected February 9 and 10, 2006. The groundwater samples were submitted to Analytical Resources, Incorporated (ARI), a Washington State Department of Ecology (Ecology) accredited laboratory, located in Tukwila, Washington, and the soil samples were submitted to OnSite Environmental, Incorporated (OnSite), an Ecology-accredited laboratory, located in Redmond, Washington. The samples were analyzed for the following organic and/or inorganic analyses:

- Semivolatile Organic Compounds (SVOCs) by EPA Method 8270C
- Total Petroleum Hydrocarbons (TPH) as diesel and motor oil by Ecology Method NWTPH-Dx
- Total and dissolved metals by EPA Method 6010B (antimony, arsenic, cadmium, chromium, copper, lead, and zinc)
- Dissolved arsenic and antimony by EPA Method 200.8
- Total arsenic by EPA Method 7060A
- Total and dissolved lead by EPA Method 7421
- Total lead by EPA Method 7421 using Toxics Characteristic Leaching Procedure (TCLP)
- Total mercury by EPA Method 7471A
- Total thallium by EPA Method 6020
- Dissolved mercury by EPA Method 7470A

- Sulfide by EPA Method 376.2
- Ammonia by EPA Method 350.1
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082

The analyses were performed in general accordance with methods specified in Environmental Protection Agency's (EPA) *Test Methods for Evaluating Solid Waste (SW-846), January 1995* and associated revisions, EPA's *Methods for Determination of Inorganic Substances in Environmental Samples, August 1993,* and *Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.*

Sample IDs, laboratory sample IDs, and requested analyses associated with this sampling event are listed below.

| Sample ID | Matrix | Laboratory Sample ID | Requested Analyses |
|---|---|---|---|
| MW-1-0106 | water | IZ24G | diss. metals, sulfide, ammonia |
| MW-2-0106 | water | IZ24F | diss. metals, sulfide, ammonia |
| MW-3-0106 | water | IZ24E | diss. metals, sulfide, ammonia |
| MW-4-0106 | water | IZ24B | diss. metals, sulfide, ammonia |
| MW-5-0106 | water | IZ24H | diss. metals, sulfide, ammonia, SVOCs, PCBs, TPH-Dx |
| MW-6-0106 | water | IZ24C | diss. metals, sulfide, ammonia |
| MW-6X-0106 | water | IZ24D | diss. metals, sulfide, ammonia |
| MW-7-0106 | water | IZ24A | diss. metals, sulfide, ammonia |
| PP-1-0.0 | soil | 02-143-01 | total As |
| PP-1-4.0 | soil | 02-143-02 | total Pb |
| PP-1-8.0 | soil | 02-143-03 | total Pb |
| PP-2-0.0 | soil | 02-143-04 | total As |
| PP-2-5.0 | soil | 02-143-06 | total Pb |
| PP-2-8.5 | soil | 02-143-07 | total Pb |
| PP-3-0.0 | soil | 02-143-08 | total As |
| PP-3-4.0 | soil | 02-143-09 | total Pb |
| PP-3-8.0 | soil | 02-143-10 | total Pb |
| PP-4-0.0 | soil | 02-143-12 | total As |
| PP-4-4.0 | soil | 02-143-13 | total Pb |
| PP-4-8.0 | soil | 02-143-14 | total Pb |
| PP-5-0.0 | soil | 02-143-15 | total As |
| PP-5-4.0 | soil | 02-143-16 | total Pb |
| PP-5-8.0 | soil | 02-143-17 | total Pb |
| PP-5-9.0 | soil | 02-143-18 | total Pb |

| Sample ID | Matrix | Laboratory Sample ID | Requested Analyses |
|---|---|---|---|
| PP-6-0.0 | soil | 02-143-19 | total As |
| PP-6-4.0 | soil | 02-143-20 | total Pb |
| PP-6-8.5 | soil | 02-143-22 | total Pb |
| PP-7-0.0 | soil | 02-143-23 | total As |
| PP-7-4.5 | soil | 02-143-24 | total Pb |
| PP-7-6.0 | soil | 02-143-25 | total Pb |
| PP-7-8.0 | soil | 02-143-26 | total Pb |
| PP-8-0.0 | soil | 02-143-27 | total As |
| PP-8-4.5 | soil | 02-143-28 | total Pb |
| PP-8-6.0 | soil | 02-143-29 | total Pb |
| PP-8-8.0 | soil | 02-143-30 | total Pb |
| PP-9-0.0 | soil | 02-143-50 | total As |
| PP-9-4.5 | soil | 02-143-51 | total Pb |
| PP-9-6.0 | soil | 02-143-52 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-9-9.0 | soil | 02-143-53 | PCBs |
| PP-10-0.0 | soil | 02-143-54 | total As |
| PP-10-4.0 | soil | 02-143-55 | total Pb |
| PP-10-6.0 | soil | 02-143-56 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-10-9.0 | soil | 02-143-57 | PCBs |
| PP-11-0.0 | soil | 02-143-31 | total As |
| PP-11-5.0 | soil | 02-143-32 | total Pb |
| PP-11-8.0 | soil | 02-143-33 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-12-0.0 | soil | 02-143-58 | total As |
| PP-12-4.5 | soil | 02-143-59 | total Pb |
| PP-12-6.0 | soil | 02-143-60 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-12-9.0 | soil | 02-143-61 | SVOCs |
| PP-13-0.0 | soil | 02-143-62 | total As |
| PP-13-4.0 | soil | 02-143-63 | total Pb |
| PP-13-8.0 | soil | 02-143-64 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-14-0.0 | soil | 02-143-34 | total As |
| PP-14-4.5 | soil | 02-143-35 | total Pb |
| PP-14-8.0 | soil | 02-143-36 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-15-0.0 | soil | 02-143-37 | total As |
| PP-15-4.5 | soil | 02-143-38 | total Pb; TCLP Pb |
| PP-15-8.0 | soil | 02-143-39 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-16-0.0 | soil | 02-143-40 | total As |
| PP-16-4.0 | soil | 02-143-41 | total Pb |
| PP-16-6.5 | soil | 02-143-42 | total Sb, As, Cd, Pb, Hg, Tl; TCLP Pb |

| Sample ID | Matrix | Laboratory Sample ID | Requested Analyses |
|---|---|---|---|
| PP-17-0.0 | soil | 02-143-44 | total As |
| PP-17-4.5 | soil | 02-143-45 | total Pb; TCLP Pb |
| PP-17-8.0 | soil | 02-143-46 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-18-0.0 | soil | 02-143-47 | total As |
| PP-18-4.5 | soil | 02-143-48 | total Pb |
| PP-18-6.0 | soil | 02-143-49 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-19-0.0 | soil | 02-143-66 | total As |
| PP-19-4.5 | soil | 02-143-67 | total Pb |
| PP-19-6.0 | soil | 02-143-68 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-19-9.5 | soil | 02-143-69 | SVOCs |
| PP-20-4.5 | soil | 02-143-71 | total Pb |
| PP-20-9.0 | soil | 02-143-72 | total As, Cd, Pb, TCLP Pb |
| PP-21-4.5 | soil | 02-143-74 | total Pb |
| PP-21-6.0 | soil | 02-143-75 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-21-8.5 | soil | 02-143-76 | total Pb |
| PP-22-1.5 | soil | 02-143-77 | total Pb |
| PP-22-4.0 | soil | 02-143-78 | total Pb |
| PP-22-8.0 | soil | 02-143-79 | total Sb, As, Cd, Pb, Hg, Tl; TCLP Pb |
| PP-22-9.0 | soil | 02-143-80 | total Pb |
| PP-23-2.0 | soil | 02-143-81 | total Pb |
| PP-23-4.0 | soil | 02-143-82 | total Pb |
| PP-23-8.0 | soil | 02-143-83 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-23-9.0 | soil | 02-143-84 | total Pb |
| PP-24-2.0 | soil | 02-143-85 | total Pb |
| PP-24-4.5 | soil | 02-143-86 | total Pb, TCLP Pb |
| PP-24-8.0 | soil | 02-143-87 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-25-1.0 | soil | 02-143-88 | total Pb; TCLP Pb |
| PP-25-4.0 | soil | 02-143-89 | total Pb |
| PP-25-8.0 | soil | 02-143-90 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-26-1.5 | soil | 02-143-91 | total Pb |
| PP-26-4.0 | soil | 02-143-92 | total Pb |
| PP-26-8.0 | soil | 02-143-93 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-27-4.0 | soil | 02-143-94 | total Pb |
| PP-27-8.0 | soil | 02-143-95 | total Sb, As, Cd, Pb, Hg, Tl |
| PP-27-9.0 | soil | 02-143-96 | total Pb, TCLP Pb |
| PP-28-6.0 | soil | 02-143-97 | total Pb |
| PP-28-9.0 | soil | 02-143-98 | total Sb, As, Cd, Pb |
| PP-29-8.0 | soil | 02-143-99 | total Pb |

| Sample ID | Matrix | Laboratory Sample ID | Requested Analyses |
|---|---|---|---|
| PP-29-9.0 | soil | 02-143-100 | total Sb, As, Cd, Pb |
| PP-30-6.0 | soil | 02-143-101 | total Pb |
| PP-30-9.0 | soil | 02-143-102 | total Sb, As, Cd, Pb |
| PP-31-6.0 | soil | 02-143-103 | total Pb |
| PP-31-9.0 | soil | 02-143-104 | total Sb, As, Cd, Pb |
| PP-32-5.5 | soil | 02-143-105 | total Pb |
| PP-32-8.0 | soil | 02-143-106 | total Pb |
| PP-32-9.0 | soil | 02-143-107 | total Sb, As, Cd, Pb |

Upon receipt by ARI and OnSite, the sample jar information was compared to the chain-of-custody. The temperatures of the coolers were recorded as part of the check-in procedure at ARI. There were no discrepancies noted at the time of receipt and the temperatures of the coolers were within the acceptable range of 4 +/- 2 °C.

Data review is based on method performance criteria. The laboratories provided validatable packages containing summarized sample results and associated QA/QC data as well as instrument printouts and sample preparation and injection log pages. The data review conducted on these SDGs included a review of summarized results and QA/QC data. Hold times, initial and continuing calibrations, internal standards, method blanks, surrogate recoveries, laboratory control samples (LCS), matrix spike/matrix spike duplicate (MS/MSD) results, field duplicate results, and reporting limits were reviewed to assess compliance with applicable methods. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in the 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, SVOCs, and TPH-Dx by the methods identified in the introduction to this report, and were evaluated for the following criteria.

1. Holding Times – Acceptable

2. Blanks – Acceptable except as noted:

   No trip blanks or equipment blanks were submitted in this sampling event. A method blank was prepared with each laboratory sample batch.

   SVOCs by EPA Method 8270C: Target compounds were not detected in the method blanks, with one exception. Di-n-butylphthalate was detected in the soil method blank associated with SDG 02-143 at 0.098 mg/kg. The di-n-butylphthalate results in the associated samples were non-detect; therefore, sample results were not qualified.

3. Surrogates – Acceptable

4. Laboratory Control Samples (LCS) – Acceptable

5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable

6. Field Duplicates – Acceptable:

   No field duplicates for organic analyses were collected during this sampling event. .

7. Reporting Limits – Acceptable

**INORGANIC ANALYSES**

Samples were analyzed for total and dissolved metals, sulfide, and ammonia by the methods identified in the introduction to this report.

1. Holding Times – Acceptable except as noted:

2. Blanks – Acceptable except as noted:

   No equipment blanks were submitted in this sampling event. A method blank was prepared with each laboratory sample batch. Target compounds were not detected in the method blanks.

3. Laboratory Control Samples (LCS or Blank Spike) – Acceptable

4. Laboratory Duplicates – Acceptable except as noted:

   Total Metals by EPA 6010B/6020: A lab duplicate was performed with sample PP-25-8.0 (SDG 02-143). The RPDs for lead and thallium were above the 20% QC limit, at 38% and 45%, respectively. Since the results in the primary and duplicate sample were less than 5 times the detection limit in both cases, the results for lead and thallium for sample PP-25-8.0 were not qualified.

5. Matrix Spike (MS) – Acceptable except as noted:

   Total Metals by EPA 6010B/6020:
   MS/MSDs were prepared with samples PP-29-8.0 and PP-25-8.0 (SDG 02-143). The percent recoveries for antimony were not within control limits (75 to 125%), (antimony recovery ranged between 3% and 20% in the MSs and MSDs). The antimony result (non-detect) for PP-25-8.0 was qualified as unusable and flagged "R". PP-29-8.0 was not analyzed for antimony, so no results were flagged.

6. Field Duplicates – Acceptable except as noted:

   One field duplicate was collected during this sample event: a field duplicate was collected with sample MW-6-0106 and identified as MW-6X-0106. The RPD is not calculated if both results are less than five times the reporting limit, as indicated on the table with a "NC". The RPDs were less than the project specific control limit of 30 percent.

| Sample ID/ Field Duplicate ID | SDG | Analyte | Primary Result (mg/L) | Duplicate Result (mg/L) | RPD (%) |
|---|---|---|---|---|---|
| MW-6-0106/MW-6X-0106 | IZ24 | arsenic | 0.0051 | 0.0052 | 2 |
| | | copper | 0.006 | 0.002U | NC |
| | | zinc | 0.010 | 0.006U | NC |
| | | ammonia | 1.36 | 1.33 | 2 |

7. Reporting Limits – Acceptable

## OVERALL ASSESSMENT OF DATA

The completeness of ARI SDG IZ24 and OnSite SDGs 0602-143 and 0602-143B is greater than 95 percent. The data usability is based on USEPA guidance documents 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. The following table summarizes the sample IDs and qualified results.

| Sample | Qualified Analyte | Qualified Result | Units | Qualifier Reason |
|---|---|---|---|---|
| PP-25-8.0 | antimony | 1.3 UR | mg/kg | Low MS% recovery |
| all other samples | none | | | |

**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

GEOMATRIX
Received
FE
SEATTLE

7 February 2006

Kathleen Goodman
Geomatrix Consultants
600 University Ave., Suite 1020
Seattle, WA 98101

**RE: Project – 10131, MJB North**
**ARI Job No. IZ24**

Dear Kathleen:

Please find enclosed the original chain of custody record and the final results for the samples from the project referenced above. Analytical Resources, Inc. accepted eight water samples in good condition on January 25, 2006. The samples were analyzed for SVOAs, PCBs, NWTPH-Dx, dissolved metals and conventional parameters as requested.

Problems associated with these analyses are discussed in the case narrative.

A copy of this package will be kept on file at 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
mark@arilabs.com
206/695-6210

Enclosures

cc: file IZ24

MDH/mdh

# Chain of Custody Record & Laboratory Analysis Request

| | |
|---|---|
| ARI Assigned Number: IZ24 | Turn-around Requested: Standard |
| ARI Client Company: Geomatrix | Phone: |
| Client Contact: Kathleen Goodman | |
| Client Project Name: MJB North | |
| Client Project #: 10131 | Samplers: Za S |

| | |
|---|---|
| Page: 1 of 1 | |
| Date: 1/24/06 | Ice Present? Y |
| No. of Coolers: 1 | Cooler Temps: 4.2 |


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 | Diss. Metals* (HNO3) Field Filtered | Sulfide (NaOH/Zn Ac) EPA 376.2 | Ammonia (H2SO4) EPA 350.1 | SVOCs EPA 8270D | PCBs EPA 8082 | TPH-Dx & NW TPH-Dx | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7-0106 | 1/24/06 | 1246 | W | 3 | X | X | X | | | | | | |
| MW-4-0106 | | 1335 | | 3 | X | X | X | | | | | | |
| MW-6-0106 | | 1423 | | 3 | X | X | X | | | | | | |
| MW-6X-0106 | | 1423 | | 3 | X | X | X | | | | | | |
| MW-3-0106 | | 1536 | | 3 | X | X | X | | | | | | |
| MW-2-0106 | | 1654 | | 3 | X | X | X | | | | | | |
| MW-1-0106 | | 1746 | | 3 | X | X | X | | | | | | |
| MW-5-0106 | ↓ | 1821 | ↓ | 9 | X | X | X | X | X | | | | |
| | | | | | | ZAS | 1/24/06 | | | | | | |
| | | | | | | | | | | | | | |

Comments/Special Instructions
Silica Gel/Acid Wash Cleanup.
* diss. Metals = Ant, As, Cd, Cr, Cu, Pb, Hg, Zn by EPA 6010B/7421/7470A
EPA 200.8

| | Relinquished by: | Received by: | Relinquished by: | Received by: |
|---|---|---|---|---|
| (Signature) | Jennifer Smith | | | |
| Printed Name: | JENNIFER SMITH | Bryan R. Bussey | | |
| Company: | Geomatrix | ARI | | |
| Date & Time: | 1/25/06 1028 | 1-25-06 1028 | | |


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

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

# Data Reporting Qualifiers

**Effective 12/28/04**

## Inorganic Data

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

* Duplicate RPD is not within established control limits

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

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

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

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

## Organic Data

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

* Flagged value is not within established control limits

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

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

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

NR Spiked compound recovery is not reported due to chromatographic interference

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

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

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

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

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

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

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

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

## Geotechnical Data

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MB-012606
METHOD BLANK

Lab Sample ID: MB-012606
LIMS ID: 06-1096
Matrix: Water
Data Release Authorized:
Reported: 01/31/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: NA
Date Received: NA

Date Extracted: 01/26/06
Date Analyzed: 01/30/06 13:55
Instrument/Analyst: NT6/LJR

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

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 108-95-2 | Phenol | 1.0 | < 1.0 U |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 1.0 | < 1.0 U |
| 95-57-8 | 2-Chlorophenol | 1.0 | < 1.0 U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | < 1.0 U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | < 1.0 U |
| 100-51-6 | Benzyl Alcohol | 5.0 | < 5.0 U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | < 1.0 U |
| 95-48-7 | 2-Methylphenol | 1.0 | < 1.0 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 1.0 | < 1.0 U |
| 106-44-5 | 4-Methylphenol | 1.0 | < 1.0 U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 5.0 | < 5.0 U |
| 67-72-1 | Hexachloroethane | 1.0 | < 1.0 U |
| 98-95-3 | Nitrobenzene | 1.0 | < 1.0 U |
| 78-59-1 | Isophorone | 1.0 | < 1.0 U |
| 88-75-5 | 2-Nitrophenol | 5.0 | < 5.0 U |
| 105-67-9 | 2,4-Dimethylphenol | 1.0 | < 1.0 U |
| 65-85-0 | Benzoic Acid | 10 | < 10 U |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 1.0 | < 1.0 U |
| 120-83-2 | 2,4-Dichlorophenol | 5.0 | < 5.0 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | < 1.0 U |
| 91-20-3 | Naphthalene | 1.0 | < 1.0 U |
| 106-47-8 | 4-Chloroaniline | 5.0 | < 5.0 U |
| 87-68-3 | Hexachlorobutadiene | 1.0 | < 1.0 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 5.0 | < 5.0 U |
| 91-57-6 | 2-Methylnaphthalene | 1.0 | < 1.0 U |
| 77-47-4 | Hexachlorocyclopentadiene | 5.0 | < 5.0 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 5.0 | < 5.0 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5.0 | < 5.0 U |
| 91-58-7 | 2-Chloronaphthalene | 1.0 | < 1.0 U |
| 88-74-4 | 2-Nitroaniline | 5.0 | < 5.0 U |
| 131-11-3 | Dimethylphthalate | 1.0 | < 1.0 U |
| 208-96-8 | Acenaphthylene | 1.0 | < 1.0 U |
| 99-09-2 | 3-Nitroaniline | 5.0 | < 5.0 U |
| 83-32-9 | Acenaphthene | 1.0 | < 1.0 U |
| 51-28-5 | 2,4-Dinitrophenol | 10 | < 10 U |
| 100-02-7 | 4-Nitrophenol | 5.0 | < 5.0 U |
| 132-64-9 | Dibenzofuran | 1.0 | < 1.0 U |
| 606-20-2 | 2,6-Dinitrotoluene | 5.0 | < 5.0 U |
| 121-14-2 | 2,4-Dinitrotoluene | 5.0 | < 5.0 U |
| 84-66-2 | Diethylphthalate | 1.0 | < 1.0 U |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MB-012606
METHOD BLANK

Lab Sample ID: MB-012606
LIMS ID: 06-1096
Matrix: Water
Date Analyzed: 01/30/06 13:55

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1.0 | < 1.0 U |
| 86-73-7 | Fluorene | 1.0 | < 1.0 U |
| 100-01-6 | 4-Nitroaniline | 5.0 | < 5.0 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 10 | < 10 U |
| 86-30-6 | N-Nitrosodiphenylamine | 1.0 | < 1.0 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1.0 | < 1.0 U |
| 118-74-1 | Hexachlorobenzene | 1.0 | < 1.0 U |
| 87-86-5 | Pentachlorophenol | 5.0 | < 5.0 U |
| 85-01-8 | Phenanthrene | 1.0 | < 1.0 U |
| 86-74-8 | Carbazole | 1.0 | < 1.0 U |
| 120-12-7 | Anthracene | 1.0 | < 1.0 U |
| 84-74-2 | Di-n-Butylphthalate | 1.0 | < 1.0 U |
| 206-44-0 | Fluoranthene | 1.0 | < 1.0 U |
| 129-00-0 | Pyrene | 1.0 | < 1.0 U |
| 85-68-7 | Butylbenzylphthalate | 1.0 | < 1.0 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5.0 | < 5.0 U |
| 56-55-3 | Benzo(a)anthracene | 1.0 | < 1.0 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.0 | < 1.0 U |
| 218-01-9 | Chrysene | 1.0 | < 1.0 U |
| 117-84-0 | Di-n-Octyl phthalate | 1.0 | < 1.0 U |
| 205-99-2 | Benzo(b)fluoranthene | 1.0 | < 1.0 U |
| 207-08-9 | Benzo(k)fluoranthene | 1.0 | < 1.0 U |
| 50-32-8 | Benzo(a)pyrene | 1.0 | < 1.0 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.0 | < 1.0 U |
| 53-70-3 | Dibenz(a,h)anthracene | 1.0 | < 1.0 U |
| 191-24-2 | Benzo(g,h,i)perylene | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 87.6% | 2-Fluorobiphenyl | 74.8% |
| d14-p-Terphenyl | 91.6% | d4-1,2-Dichlorobenzene | 58.4% |
| d5-Phenol | 68.5% | 2-Fluorophenol | 70.4% |
| 2,4,6-Tribromophenol | 83.7% | d4-2-Chlorophenol | 76.5% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MW-5-0106
SAMPLE

Lab Sample ID: IZ24H
LIMS ID: 06-1096
Matrix: Water
Data Release Authorized:
Reported: 01/31/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Date Extracted: 01/26/06
Date Analyzed: 01/30/06 20:45
Instrument/Analyst: NT6/LJR

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

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| **108-95-2** | **Phenol** | **1.0** | **1.1** |
| 111-44-4 | Bis-(2-Chloroethyl) Ether | 1.0 | < 1.0 U |
| 95-57-8 | 2-Chlorophenol | 1.0 | < 1.0 U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | < 1.0 U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | < 1.0 U |
| 100-51-6 | Benzyl Alcohol | 5.0 | < 5.0 U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | < 1.0 U |
| 95-48-7 | 2-Methylphenol | 1.0 | < 1.0 U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 1.0 | < 1.0 U |
| **106-44-5** | **4-Methylphenol** | **1.0** | **31** |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 5.0 | < 5.0 U |
| 67-72-1 | Hexachloroethane | 1.0 | < 1.0 U |
| 98-95-3 | Nitrobenzene | 1.0 | < 1.0 U |
| 78-59-1 | Isophorone | 1.0 | < 1.0 U |
| 88-75-5 | 2-Nitrophenol | 5.0 | < 5.0 U |
| 105-67-9 | 2,4-Dimethylphenol | 1.0 | < 1.0 U |
| **65-85-0** | **Benzoic Acid** | **10** | **11** |
| 111-91-1 | bis(2-Chloroethoxy) Methane | 1.0 | < 1.0 U |
| 120-83-2 | 2,4-Dichlorophenol | 5.0 | < 5.0 U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | < 1.0 U |
| 91-20-3 | Naphthalene | 1.0 | < 1.0 U |
| 106-47-8 | 4-Chloroaniline | 5.0 | < 5.0 U |
| 87-68-3 | Hexachlorobutadiene | 1.0 | < 1.0 U |
| 59-50-7 | 4-Chloro-3-methylphenol | 5.0 | < 5.0 U |
| 91-57-6 | 2-Methylnaphthalene | 1.0 | < 1.0 U |
| 77-47-4 | Hexachlorocyclopentadiene | 5.0 | < 5.0 U |
| 88-06-2 | 2,4,6-Trichlorophenol | 5.0 | < 5.0 U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5.0 | < 5.0 U |
| 91-58-7 | 2-Chloronaphthalene | 1.0 | < 1.0 U |
| 88-74-4 | 2-Nitroaniline | 5.0 | < 5.0 U |
| 131-11-3 | Dimethylphthalate | 1.0 | < 1.0 U |
| 208-96-8 | Acenaphthylene | 1.0 | < 1.0 U |
| 99-09-2 | 3-Nitroaniline | 5.0 | < 5.0 U |
| 83-32-9 | Acenaphthene | 1.0 | < 1.0 U |
| 51-28-5 | 2,4-Dinitrophenol | 10 | < 10 U |
| 100-02-7 | 4-Nitrophenol | 5.0 | < 5.0 U |
| 132-64-9 | Dibenzofuran | 1.0 | < 1.0 U |
| 606-20-2 | 2,6-Dinitrotoluene | 5.0 | < 5.0 U |
| 121-14-2 | 2,4-Dinitrotoluene | 5.0 | < 5.0 U |
| 84-66-2 | Diethylphthalate | 1.0 | < 1.0 U |

← Method B = 64,000 µg/L

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: MW-5-0106
SAMPLE

Lab Sample ID: IZ24H
LIMS ID: 06-1096
Matrix: Water
Date Analyzed: 01/30/06 20:45

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1.0 | < 1.0 U |
| 86-73-7 | Fluorene | 1.0 | < 1.0 U |
| 100-01-6 | 4-Nitroaniline | 5.0 | < 5.0 U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 10 | < 10 U |
| 86-30-6 | N-Nitrosodiphenylamine | 1.0 | < 1.0 U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1.0 | < 1.0 U |
| 118-74-1 | Hexachlorobenzene | 1.0 | < 1.0 U |
| 87-86-5 | Pentachlorophenol | 5.0 | < 5.0 U |
| 85-01-8 | Phenanthrene | 1.0 | < 1.0 U |
| 86-74-8 | Carbazole | 1.0 | < 1.0 U |
| 120-12-7 | Anthracene | 1.0 | < 1.0 U |
| 84-74-2 | Di-n-Butylphthalate | 1.0 | < 1.0 U |
| 206-44-0 | Fluoranthene | 1.0 | < 1.0 U |
| 129-00-0 | Pyrene | 1.0 | < 1.0 U |
| 85-68-7 | Butylbenzylphthalate | 1.0 | < 1.0 U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5.0 | < 5.0 U |
| 56-55-3 | Benzo(a)anthracene | 1.0 | < 1.0 U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.0 | < 1.0 U |
| 218-01-9 | Chrysene | 1.0 | < 1.0 U |
| 117-84-0 | Di-n-Octyl phthalate | 1.0 | < 1.0 U |
| 205-99-2 | Benzo(b)fluoranthene | 1.0 | < 1.0 U |
| 207-08-9 | Benzo(k)fluoranthene | 1.0 | < 1.0 U |
| 50-32-8 | Benzo(a)pyrene | 1.0 | < 1.0 U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.0 | < 1.0 U |
| 53-70-3 | Dibenz(a,h)anthracene | 1.0 | < 1.0 U |
| 191-24-2 | Benzo(g,h,i)perylene | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

**Semivolatile Surrogate Recovery**

| | | | |
|---|---|---|---|
| d5-Nitrobenzene | 78.8% | 2-Fluorobiphenyl | 62.4% |
| d14-p-Terphenyl | 59.6% | d4-1,2-Dichlorobenzene | 50.8% |
| d5-Phenol | 63.2% | 2-Fluorophenol | 62.4% |
| 2,4,6-Tribromophenol | 74.9% | d4-2-Chlorophenol | 66.9% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: LCS-012606
LCS/LCSD

Lab Sample ID: LCS-012606
LIMS ID: 06-1096
Matrix: Water
Data Release Authorized:
Reported: 01/31/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Date Extracted LCS/LCSD: 01/26/06

Date Analyzed LCS: 01/30/06 14:29
LCSD: 01/30/06 15:04
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: NO

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

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|---|---|---|---|---|---|---|---|
| Phenol | 20.1 | 25.0 | 80.4% | 18.2 | 25.0 | 72.8% | 9.9% |
| Bis-(2-Chloroethyl) Ether | 22.2 | 25.0 | 88.8% | 22.2 | 25.0 | 88.8% | 0.0% |
| 2-Chlorophenol | 22.2 | 25.0 | 88.8% | 21.7 | 25.0 | 86.8% | 2.3% |
| 1,3-Dichlorobenzene | 10.6 | 25.0 | 42.4% | 11.5 | 25.0 | 46.0% | 8.1% |
| 1,4-Dichlorobenzene | 11.1 | 25.0 | 44.4% | 11.9 | 25.0 | 47.6% | 7.0% |
| Benzyl Alcohol | 22.4 | 25.0 | 89.6% | 21.0 | 25.0 | 84.0% | 6.5% |
| 1,2-Dichlorobenzene | 12.0 | 25.0 | 48.0% | 12.6 | 25.0 | 50.4% | 4.9% |
| 2-Methylphenol | 22.3 | 25.0 | 89.2% | 21.9 | 25.0 | 87.6% | 1.8% |
| 2,2'-Oxybis(1-Chloropropane) | 21.6 | 25.0 | 86.4% | 21.5 | 25.0 | 86.0% | 0.5% |
| 4-Methylphenol | 46.5 | 50.0 | 93.0% | 44.7 | 50.0 | 89.4% | 3.9% |
| N-Nitroso-Di-N-Propylamine | 24.3 | 25.0 | 97.2% | 24.2 | 25.0 | 96.8% | 0.4% |
| Hexachloroethane | 8.3 | 25.0 | 33.2% | 10.5 | 25.0 | 42.0% | 23.2% |
| Nitrobenzene | 26.2 | 25.0 | 105% | 26.2 | 25.0 | 105% | 0.0% |
| Isophorone | 27.5 | 25.0 | 110% | 27.6 | 25.0 | 110% | 0.4% |
| 2-Nitrophenol | 24.9 | 25.0 | 99.6% | 24.9 | 25.0 | 99.6% | 0.0% |
| 2,4-Dimethylphenol | 22.0 | 25.0 | 88.0% | 21.7 | 25.0 | 86.8% | 1.4% |
| Benzoic Acid | 20.0 | 25.0 | 80.0% | 18.2 | 25.0 | 72.8% | 9.4% |
| bis(2-Chloroethoxy) Methane | 26.7 | 25.0 | 107% | 27.0 | 25.0 | 108% | 1.1% |
| 2,4-Dichlorophenol | 25.6 | 25.0 | 102% | 26.0 | 25.0 | 104% | 1.6% |
| 1,2,4-Trichlorobenzene | 13.8 | 25.0 | 55.2% | 14.9 | 25.0 | 59.6% | 7.7% |
| Naphthalene | 19.6 | 25.0 | 78.4% | 19.3 | 25.0 | 77.2% | 1.5% |
| 4-Chloroaniline | 15.1 | 25.0 | 60.4% | 12.3 | 25.0 | 49.2% | 20.4% |
| Hexachlorobutadiene | 9.5 | 25.0 | 38.0% | 12.3 | 25.0 | 49.2% | 25.3% |
| 4-Chloro-3-methylphenol | 27.0 | 25.0 | 108% | 27.1 | 25.0 | 108% | 0.4% |
| 2-Methylnaphthalene | 19.8 | 25.0 | 79.2% | 20.2 | 25.0 | 80.8% | 2.0% |
| Hexachlorocyclopentadiene | 6.3 | 25.0 | 25.2% | 7.0 | 25.0 | 28.0% | 11.1% |
| 2,4,6-Trichlorophenol | 24.4 | 25.0 | 97.6% | 24.3 | 25.0 | 97.2% | 0.4% |
| 2,4,5-Trichlorophenol | 23.8 | 25.0 | 95.2% | 23.6 | 25.0 | 94.4% | 0.8% |
| 2-Chloronaphthalene | 20.5 | 25.0 | 82.0% | 20.8 | 25.0 | 83.2% | 1.5% |
| 2-Nitroaniline | 26.5 | 25.0 | 106% | 26.4 | 25.0 | 106% | 0.4% |
| Dimethylphthalate | 26.2 | 25.0 | 105% | 26.2 | 25.0 | 105% | 0.0% |
| Acenaphthylene | 23.4 | 25.0 | 93.6% | 23.1 | 25.0 | 92.4% | 1.3% |
| 3-Nitroaniline | 24.9 | 25.0 | 99.6% | 23.5 | 25.0 | 94.0% | 5.8% |
| Acenaphthene | 22.9 | 25.0 | 91.6% | 23.0 | 25.0 | 92.0% | 0.4% |
| 2,4-Dinitrophenol | 17.6 | 25.0 | 70.4% | 18.5 | 25.0 | 74.0% | 5.0% |
| 4-Nitrophenol | 28.1 | 25.0 | 112% | 25.0 | 25.0 | 100% | 11.7% |
| Dibenzofuran | 23.2 | 25.0 | 92.8% | 23.2 | 25.0 | 92.8% | 0.0% |
| 2,6-Dinitrotoluene | 26.7 | 25.0 | 107% | 26.2 | 25.0 | 105% | 1.9% |
| 2,4-Dinitrotoluene | 26.1 | 25.0 | 104% | 26.1 | 25.0 | 104% | 0.0% |
| Diethylphthalate | 27.0 | 25.0 | 108% | 27.0 | 25.0 | 108% | 0.0% |
| 4-Chlorophenyl-phenylether | 25.7 | 25.0 | 103% | 25.6 | 25.0 | 102% | 0.4% |
| Fluorene | 25.6 | 25.0 | 102% | 25.6 | 25.0 | 102% | 0.0% |
| 4-Nitroaniline | 27.0 | 25.0 | 108% | 26.6 | 25.0 | 106% | 1.5% |
| 4,6-Dinitro-2-Methylphenol | 24.3 | 25.0 | 97.2% | 25.3 | 25.0 | 101% | 4.0% |
| N-Nitrosodiphenylamine | 25.9 | 25.0 | 104% | 25.7 | 25.0 | 103% | 0.8% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS


Sample ID: LCS-012606
LCS/LCSD

Lab Sample ID: LCS-012606
LIMS ID: 06-1096
Matrix: Water
Date Analyzed: 01/30/06 14:29

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|---|---|---|---|---|---|---|---|
| 4-Bromophenyl-phenylether | 25.8 | 25.0 | 103% | 26.5 | 25.0 | 106% | 2.7% |
| Hexachlorobenzene | 25.3 | 25.0 | 101% | 25.4 | 25.0 | 102% | 0.4% |
| Pentachlorophenol | 24.4 | 25.0 | 97.6% | 24.6 | 25.0 | 98.4% | 0.8% |
| Phenanthrene | 25.3 | 25.0 | 101% | 25.4 | 25.0 | 102% | 0.4% |
| Carbazole | 26.4 | 25.0 | 106% | 26.2 | 25.0 | 105% | 0.8% |
| Anthracene | 25.4 | 25.0 | 102% | 25.5 | 25.0 | 102% | 0.4% |
| Di-n-Butylphthalate | 27.3 | 25.0 | 109% | 27.5 | 25.0 | 110% | 0.7% |
| Fluoranthene | 25.4 | 25.0 | 102% | 25.7 | 25.0 | 103% | 1.2% |
| Pyrene | 27.2 | 25.0 | 109% | 26.9 | 25.0 | 108% | 1.1% |
| Butylbenzylphthalate | 28.7 | 25.0 | 115% | 28.7 | 25.0 | 115% | 0.0% |
| 3,3'-Dichlorobenzidine | 20.5 | 25.0 | 82.0% | 20.2 | 25.0 | 80.8% | 1.5% |
| Benzo(a)anthracene | 26.2 | 25.0 | 105% | 25.9 | 25.0 | 104% | 1.2% |
| bis(2-Ethylhexyl)phthalate | 24.3 | 25.0 | 97.2% | 28.3 | 25.0 | 113% | 15.2% |
| Chrysene | 25.0 | 25.0 | 100% | 25.1 | 25.0 | 100% | 0.4% |
| Di-n-Octyl phthalate | 24.7 | 25.0 | 98.8% | 24.5 | 25.0 | 98.0% | 0.8% |
| Benzo(b)fluoranthene | 24.6 | 25.0 | 98.4% | 25.4 | 25.0 | 102% | 3.2% |
| Benzo(k)fluoranthene | 25.4 | 25.0 | 102% | 24.5 | 25.0 | 98.0% | 3.6% |
| Benzo(a)pyrene | 24.9 | 25.0 | 99.6% | 24.8 | 25.0 | 99.2% | 0.4% |
| Indeno(1,2,3-cd)pyrene | 30.3 | 25.0 | 121% | 30.4 | 25.0 | 122% | 0.3% |
| Dibenz(a,h)anthracene | 27.9 | 25.0 | 112% | 28.0 | 25.0 | 112% | 0.4% |
| Benzo(g,h,i)perylene | 30.3 | 25.0 | 121% | 30.3 | 25.0 | 121% | 0.0% |

**Semivolatile Surrogate Recovery**

| | LCS | LCSD |
|---|---|---|
| d5-Nitrobenzene | 94.4% | 88.0% |
| 2-Fluorobiphenyl | 83.2% | 75.6% |
| d14-p-Terphenyl | 95.6% | 83.2% |
| d4-1,2-Dichlorobenzene | 65.2% | 58.8% |
| d5-Phenol | 76.8% | 63.2% |
| 2-Fluorophenol | 76.8% | 66.1% |
| 2,4,6-Tribromophenol | 96.0% | 86.1% |
| d4-2-Chlorophenol | 83.5% | 75.7% |

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: MB-012606
METHOD BLANK

Lab Sample ID: MB-012606
LIMS ID: 06-1096
Matrix: Water
Data Release Authorized:
Reported: 02/01/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: NA
Date Received: NA

Date Extracted: 01/26/06
Date Analyzed: 01/31/06 12:49
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | < 1.0 U |
| 53469-21-9 | Aroclor 1242 | 1.0 | < 1.0 U |
| 12672-29-6 | Aroclor 1248 | 1.0 | < 1.0 U |
| 11097-69-1 | Aroclor 1254 | 1.0 | < 1.0 U |
| 11096-82-5 | Aroclor 1260 | 1.0 | < 1.0 U |
| 11104-28-2 | Aroclor 1221 | 1.0 | < 1.0 U |
| 11141-16-5 | Aroclor 1232 | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

**PCB Surrogate Recovery**

| | |
|---|---|
| Decachlorobiphenyl | 98.5% |
| Tetrachlorometaxylene | 88.0% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: MW-5-0106
SAMPLE

Lab Sample ID: IZ24H
LIMS ID: 06-1096
Matrix: Water
Data Release Authorized:
Reported: 02/01/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Date Extracted: 01/26/06
Date Analyzed: 01/31/06 16:32
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

| CAS Number | Analyte | RL | Result |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | < 1.0 U |
| 53469-21-9 | Aroclor 1242 | 1.0 | < 1.0 U |
| 12672-29-6 | Aroclor 1248 | 1.0 | < 1.0 U |
| 11097-69-1 | Aroclor 1254 | 1.0 | < 1.0 U |
| 11096-82-5 | Aroclor 1260 | 1.0 | < 1.0 U |
| 11104-28-2 | Aroclor 1221 | 1.0 | < 1.0 U |
| 11141-16-5 | Aroclor 1232 | 1.0 | < 1.0 U |

Reported in µg/L (ppb)

PCB Surrogate Recovery

| | |
|---|---|
| Decachlorobiphenyl | 100% |
| Tetrachlorometaxylene | 90.2% |

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082


Sample ID: LCS-012606
LCS/LCSD

Lab Sample ID: LCS-012606
LIMS ID: 06-1096
Matrix: Water
Data Release Authorized:
Reported: 02/01/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 01/26/06

Date Analyzed LCS: 01/31/06 13:07
LCSD: 01/31/06 13:26
Instrument/Analyst LCS: ECD5/AAR
LCSD: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: No

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 4.72 | 5.12 | 92.2% | 5.06 | 5.12 | 98.8% | 7.0% |
| Aroclor 1260 | 5.41 | 5.12 | 106% | 5.82 | 5.12 | 114% | 7.3% |

PCB Surrogate Recovery

| | LCS | LCSD |
|---|---|---|
| Decachlorobiphenyl | 112% | 118% |
| Tetrachlorometaxylene | 100% | 98.2% |

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

ANALYTICAL RESOURCES INCORPORATED

**ORGANICS ANALYSIS DATA SHEET**
**TOTAL DIESEL RANGE HYDROCARBONS**
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131

Data Release Authorized:
Reported: 01/31/06

| ARI ID | Sample ID | Extraction Date | Analysis Date | DL | Range | Result mg/L |
|---|---|---|---|---|---|---|
| MB-012706 | Method Blank | 01/27/06 | 01/28/06 | 1.0 | Diesel | < 0.25 U |
| 06-1096 | HC ID: --- | | FID3A | | Motor Oil | < 0.50 U |
| | | | | | o-Terphenyl | 98.2% |
| IZ24H | MW-5-0106 | 01/27/06 | 01/28/06 | 1.0 | Diesel | < 0.25 U |
| 06-1096 | HC ID: --- | | FID3A | | Motor Oil | < 0.50 U |
| | | | | | o-Terphenyl | 97.3% |

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned — Sample ID: LCS-012706
 — LAB CONTROL

Lab Sample ID: LCS-012706
LIMS ID: 06-1096
Matrix: Water
Data Release Authorized: MW
Reported: 01/31/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Date Extracted: 01/27/06
Date Analyzed: 01/28/06 14:46
Instrument/Analyst: FID/JGR

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

| Range | Lab Control | Spike Added | Recovery |
|---|---|---|---|
| Diesel | 2.85 | 3.00 | 95.0% |

TPHD Surrogate Recovery

| | |
|---|---|
| o-Terphenyl | 101% |

Results reported in mg/L

METHOD BLANK RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: NA
Date Received: NA

| Analyte | Method | Date | Units | Blank |
|---|---|---|---|---|
| N-Ammonia | EPA 350.1M | 02/03/06 | mg-N/L | < 0.010 U |
| Sulfide | EPA 376.2 | 01/26/06 | mg/L | < 1.00 U |
| | | 01/27/06 | | < 0.05 U |

SAMPLE RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Client ID: MW-7-0106
ARI ID: 06-1089 IZ24A

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 02/03/06 020306#2 | EPA 350.1M | mg-N/L | 0.010 | 0.244 |
| Sulfide | 01/27/06 012706#1 | EPA 376.2 | mg/L | 0.05 | < 0.05 U |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Client ID: MW-4-0106
ARI ID: 06-1090 IZ24B

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 02/03/06 020306#2 | EPA 350.1M | mg-N/L | 0.050 | 4.04 |
| Sulfide | 01/26/06 012606#1 | EPA 376.2 | mg/L | 1.00 | 3.70 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Client ID: MW-6-0106
ARI ID: 06-1091 IZ24C

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 02/03/06 020306#2 | EPA 350.1M | mg-N/L | 0.020 | 1.36 |
| Sulfide | 01/27/06 012706#1 | EPA 376.2 | mg/L | 0.05 | < 0.05 U |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Client ID: MW-6X-0106
ARI ID: 06-1092 IZ24D

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 02/03/06 020306#2 | EPA 350.1M | mg-N/L | 0.020 | 1.33 |
| Sulfide | 01/27/06 012706#1 | EPA 376.2 | mg/L | 0.05 | < 0.05 U |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Client ID: MW-3-0106
ARI ID: 06-1093 IZ24E

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 02/03/06 020306#2 | EPA 350.1M | mg-N/L | 0.010 | 0.172 |
| Sulfide | 01/27/06 012706#1 | EPA 376.2 | mg/L | 0.05 | 0.07 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Client ID: MW-2-0106
ARI ID: 06-1094 IZ24F

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 02/03/06 020306#2 | EPA 350.1M | mg-N/L | 0.010 | 0.730 |
| Sulfide | 01/26/06 012606#1 | EPA 376.2 | mg/L | 1.00 | 16.5 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Client ID: MW-1-0106
ARI ID: 06-1095 IZ24G

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 02/03/06 020306#2 | EPA 350.1M | mg-N/L | 0.020 | 1.64 |
| Sulfide | 01/26/06 012606#1 | EPA 376.2 | mg/L | 1.00 | 12.7 |

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: 01/24/06
Date Received: 01/25/06

Client ID: MW-5-0106
ARI ID: 06-1096 IZ24H

| Analyte | Date Batch | Method | Units | RL | Sample |
|---|---|---|---|---|---|
| N-Ammonia | 02/03/06 020306#2 | EPA 350.1M | mg-N/L | 0.050 | 2.30 |
| Sulfide | 01/26/06 012606#1 | EPA 376.2 | mg/L | 1.00 | 8.00 |

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: 01/24/06
Date Received: 01/25/06

| Analyte | Method | Date | Units | Sample | Replicate(s) | RPD/RSD |
|---|---|---|---|---|---|---|
| **ARI ID: IZ24A** | **Client ID: MW-7-0106** | | | | | |
| N-Ammonia | EPA 350.1M | 02/03/06 | mg-N/L | 0.244 | 0.246 | 0.8% |
| **ARI ID: IZ24B** | **Client ID: MW-4-0106** | | | | | |
| Sulfide | EPA 376.2 | 01/26/06 | mg/L | 3.70 | 3.50 | 5.6% |

MS/MSD RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: 01/24/06
Date Received: 01/25/06

| Analyte | Method | Date | Units | Sample | Spike | Spike Added | Recovery |
|---|---|---|---|---|---|---|---|
| **ARI ID: IZ24A** | **Client ID: MW-7-0106** | | | | | | |
| N-Ammonia | EPA 350.1M | 02/03/06 | mg-N/L | 0.244 | 0.696 | 0.500 | 90.4% |
| **ARI ID: IZ24B** | **Client ID: MW-4-0106** | | | | | | |
| Sulfide | EPA 376.2 | 01/26/06 | mg/L | 3.70 | 9.60 | 7.20 | 81.9% |

LAB CONTROL RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: NA
Date Received: NA

| Analyte | Method | Date | Units | LCS | Spike Added | Recovery |
|---|---|---|---|---|---|---|
| Sulfide | EPA 376.2 | 01/26/06 | mg/L | 3.00 | 2.90 | 103.4% |
| | | 01/27/06 | | 0.36 | 0.36 | 100.0% |

STANDARD REFERENCE RESULTS-CONVENTIONALS
IZ24-GEOMATRIX

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 02/07/06

Project: MJB North
Event: 10131
Date Sampled: NA
Date Received: NA

| Analyte/SRM ID | Method | Date | Units | SRM | True Value | Recovery |
|---|---|---|---|---|---|---|
| N-Ammonia<br>SPEX 28-24AS | EPA 350.1M | 02/03/06 | mg-N/L | 0.463 | 0.500 | 92.6% |

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: IZ24MB
LIMS ID: 06-1090
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: NA
Date Received: NA

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | 7440-38-2 | Arsenic | 0.2 | 0.2 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-43-9 | Cadmium | 2 | 2 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-47-3 | Chromium | 5 | 5 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-50-8 | Copper | 2 | 2 | U |
| 7000A | 01/26/06 | 7421 | 01/31/06 | 7439-92-1 | Lead | 1 | 1 | U |
| 7470 | 01/26/06 | 7470A | 01/26/06 | 7439-97-6 | Mercury | 0.1 | 0.1 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-66-6 | Zinc | 6 | 6 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-7-0106
SAMPLE

Lab Sample ID: IZ24A
LIMS ID: 06-1089
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | **7440-38-2** | **Arsenic** | 0.2 | **0.8** | |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-43-9 | Cadmium | 2 | 2 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-47-3 | Chromium | 5 | 5 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-50-8 | Copper | 2 | 2 | U |
| 7000A | 01/26/06 | 7421 | 01/31/06 | **7439-92-1** | **Lead** | 1 | **1** | |
| 7470 | 01/26/06 | 7470A | 01/26/06 | 7439-97-6 | Mercury | 0.1 | 0.1 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-66-6 | Zinc | 6 | 6 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-7-0106
DUPLICATE

Lab Sample ID: IZ24A
LIMS ID: 06-1089
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

## MATRIX DUPLICATE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Duplicate | RPD | Control Limit | Q |
|---|---|---|---|---|---|---|
| Antimony | 200.8 | 0.2 U | 0.2 U | 0.0% | +/- 0.2 | L |
| Arsenic | 200.8 | 0.8 | 0.8 | 0.0% | +/- 0.2 | L |
| Cadmium | 6010B | 2 U | 2 U | 0.0% | +/- 2 | L |
| Chromium | 6010B | 5 U | 5 U | 0.0% | +/- 5 | L |
| Copper | 6010B | 2 U | 2 U | 0.0% | +/- 2 | L |
| Lead | 7421 | 1 | 1 U | 0.0% | +/- 1 | L |
| Mercury | 7470A | 0.1 U | 0.1 U | 0.0% | +/- 0.1 | L |
| Zinc | 6010B | 6 U | 6 U | 0.0% | +/- 6 | L |

Reported in µg/L

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

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-7-0106
MATRIX SPIKE

Lab Sample ID: IZ24A
LIMS ID: 06-1089
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

## MATRIX SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Sample | Spike | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|---|
| Antimony | 200.8 | 0.2 U | 24.7 | 25.0 | 98.8% | |
| Arsenic | 200.8 | 0.8 | 26.1 | 25.0 | 101% | |
| Cadmium | 6010B | 2 U | 546 | 500 | 109% | |
| Chromium | 6010B | 5 U | 503 | 500 | 101% | |
| Copper | 6010B | 2 U | 493 | 500 | 98.6% | |
| Lead | 7421 | 1 | 20 | 20 | 95.0% | |
| Mercury | 7470A | 0.1 U | 1.1 | 1.0 | 110% | |
| Zinc | 6010B | 6 U | 516 | 500 | 103% | |

Reported in µg/L

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

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-4-0106
SAMPLE

Lab Sample ID: IZ24B
LIMS ID: 06-1090
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | **7440-36-0** | **Antimony** | 0.2 | **0.6** | |
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | **7440-38-2** | **Arsenic** | 0.2 | **10.2** | |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-43-9 | Cadmium | 2 | 2 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | **7440-47-3** | **Chromium** | 5 | **9** | |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-50-8 | Copper | 2 | 2 | U |
| 7000A | 01/26/06 | 7421 | 01/31/06 | 7439-92-1 | Lead | 1 | 1 | U |
| 7470 | 01/26/06 | 7470A | 01/26/06 | 7439-97-6 | Mercury | 0.1 | 0.1 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-66-6 | Zinc | 6 | 6 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-6-0106
SAMPLE

Lab Sample ID: IZ24C
LIMS ID: 06-1091
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | **7440-38-2** | **Arsenic** | 0.2 | **5.1** | |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-43-9 | Cadmium | 2 | 2 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-47-3 | Chromium | 5 | 5 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | **7440-50-8** | **Copper** | 2 | **6** | |
| 7000A | 01/26/06 | 7421 | 01/31/06 | 7439-92-1 | Lead | 1 | 1 | U |
| 7470 | 01/26/06 | 7470A | 01/26/06 | 7439-97-6 | Mercury | 0.1 | 0.1 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | **7440-66-6** | **Zinc** | 6 | **10** | |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-6X-0106
SAMPLE

Lab Sample ID: IZ24D
LIMS ID: 06-1092
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | **7440-38-2** | **Arsenic** | 0.2 | **5.2** | |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-43-9 | Cadmium | 2 | 2 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-47-3 | Chromium | 5 | 5 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-50-8 | Copper | 2 | 2 | U |
| 7000A | 01/26/06 | 7421 | 01/31/06 | 7439-92-1 | Lead | 1 | 1 | U |
| 7470 | 01/26/06 | 7470A | 01/26/06 | 7439-97-6 | Mercury | 0.1 | 0.1 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-66-6 | Zinc | 6 | 6 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-3-0106
SAMPLE

Lab Sample ID: IZ24E
LIMS ID: 06-1093
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | **7440-38-2** | **Arsenic** | 0.2 | **2.2** | |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-43-9 | Cadmium | 2 | 2 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-47-3 | Chromium | 5 | 5 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-50-8 | Copper | 2 | 2 | U |
| 7000A | 01/26/06 | 7421 | 01/31/06 | 7439-92-1 | Lead | 1 | 1 | U |
| 7470 | 01/26/06 | 7470A | 01/26/06 | 7439-97-6 | Mercury | 0.1 | 0.1 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-66-6 | Zinc | 6 | 6 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-2-0106
SAMPLE

Lab Sample ID: IZ24F
LIMS ID: 06-1094
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | **7440-38-2** | **Arsenic** | 0.2 | **0.8** | |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-43-9 | Cadmium | 2 | 2 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-47-3 | Chromium | 5 | 5 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-50-8 | Copper | 2 | 2 | U |
| 7000A | 01/26/06 | 7421 | 01/31/06 | 7439-92-1 | Lead | 1 | 1 | U |
| 7470 | 01/26/06 | 7470A | 01/26/06 | 7439-97-6 | Mercury | 0.1 | 0.1 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-66-6 | Zinc | 6 | 6 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-1-0106
SAMPLE

Lab Sample ID: IZ24G
LIMS ID: 06-1095
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | **7440-38-2** | **Arsenic** | 0.2 | **2.1** | |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-43-9 | Cadmium | 2 | 2 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-47-3 | Chromium | 5 | 5 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | **7440-50-8** | **Copper** | 2 | **2** | |
| 7000A | 01/26/06 | 7421 | 01/31/06 | 7439-92-1 | Lead | 1 | 1 | U |
| 7470 | 01/26/06 | 7470A | 01/26/06 | 7439-97-6 | Mercury | 0.1 | 0.1 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-66-6 | Zinc | 6 | 6 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: MW-5-0106
SAMPLE

Lab Sample ID: IZ24H
LIMS ID: 06-1096
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: 01/24/06
Date Received: 01/25/06

| Prep Meth | Prep Date | Analysis Method | Analysis Date | CAS Number | Analyte | RL | µg/L | Q |
|---|---|---|---|---|---|---|---|---|
| 200.8 | 01/26/06 | 200.8 | 02/02/06 | 7440-36-0 | Antimony | 0.2 | 0.2 | U |
| 200.8 | 01/26/06 | 200.8 | 02/03/06 | **7440-38-2** | **Arsenic** | 1 | **2** | |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-43-9 | Cadmium | 4 | 4 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-47-3 | Chromium | 10 | 10 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-50-8 | Copper | 4 | 4 | U |
| 7000A | 01/26/06 | 7421 | 01/31/06 | 7439-92-1 | Lead | 5 | 5 | U |
| 7470 | 01/26/06 | 7470A | 01/26/06 | 7439-97-6 | Mercury | 0.1 | 0.1 | U |
| 6010B | 01/26/06 | 6010B | 01/30/06 | 7440-66-6 | Zinc | 10 | 10 | U |

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS


Sample ID: LAB CONTROL

Lab Sample ID: IZ24LCS
LIMS ID: 06-1090
Matrix: Water
Data Release Authorized:
Reported: 02/06/06

QC Report No: IZ24-GEOMATRIX
Project: MJB North
10131
Date Sampled: NA
Date Received: NA

## BLANK SPIKE QUALITY CONTROL REPORT

| Analyte | Analysis Method | Spike Found | Spike Added | % Recovery | Q |
|---|---|---|---|---|---|
| Antimony | 200.8 | 25.5 | 25.0 | 102% | |
| Arsenic | 200.8 | 26.2 | 25.0 | 105% | |
| Cadmium | 6010B | 560 | 500 | 112% | |
| Chromium | 6010B | 515 | 500 | 103% | |
| Copper | 6010B | 503 | 500 | 101% | |
| Lead | 7421 | 20 | 20 | 100% | |
| Mercury | 7470A | 2.2 | 2.0 | 110% | |
| Zinc | 6010B | 534 | 500 | 107% | |

Reported in µg/L

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

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

GEOMATRIX
Received
MAR -6 2006
SEATTLE

February 28, 2006

Kathleen Goodman
Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10131/4
Laboratory Reference No. 0602-143

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on February 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

Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**Case Narrative**

Samples were collected on February 9 and 10, 2006 and received by the laboratory on February 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.

Total Metals EPA 6010B/6020/7471A Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries and RPDs for Antimony are outside control limits due to matrix interferences. The Spike Blank recoveries were 92% and 88%.

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: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
page 1 of 3

| | |
|---|---|
| Date Extracted: | 2-21-06 |
| Date Analyzed: | 2-22-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | 02-143-61 |
| **Client ID:** | **PP-12-9.0** |

| **Compound:** | **Results** | **Flags** | **PQL** |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | | 0.12 |
| Pyridine | ND | | 0.12 |
| Phenol | ND | | 0.12 |
| Aniline | ND | | 0.12 |
| bis(2-Chloroethyl)ether | ND | | 0.12 |
| 2-Chlorophenol | ND | | 0.12 |
| 1,3-Dichlorobenzene | ND | | 0.12 |
| 1,4-Dichlorobenzene | ND | | 0.12 |
| Benzyl alcohol | ND | | 0.12 |
| 1,2-Dichlorobenzene | ND | | 0.12 |
| 2-Methylphenol (o-Cresol) | ND | | 0.12 |
| bis(2-Chloroisopropyl)ether | ND | | 0.12 |
| (3+4)-Methylphenol (m,p-Cresol) | 0.39 | | 0.12 |
| N-Nitroso-di-n-propylamine | ND | | 0.12 |
| Hexachloroethane | ND | | 0.12 |
| Nitrobenzene | ND | | 0.12 |
| Isophorone | ND | | 0.12 |
| 2-Nitrophenol | ND | | 0.12 |
| 2,4-Dimethylphenol | ND | | 0.12 |
| bis(2-Chloroethoxy)methane | ND | | 0.12 |
| 2,4-Dichlorophenol | ND | | 0.12 |
| 1,2,4-Trichlorobenzene | ND | | 0.12 |
| Naphthalene | ND | | 0.12 |
| 4-Chloroaniline | ND | | 0.12 |
| Hexachlorobutadiene | ND | | 0.12 |
| 4-Chloro-3-methylphenol | ND | | 0.12 |
| 2-Methylnaphthalene | ND | | 0.12 |
| 1-Methylnaphthalene | ND | | 0.12 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
page 2 of 3

Lab ID: 02-143-61
**Client ID: PP-12-9.0**

| Compound: | Results | Flags | PQL |
|---|---|---|---|
| Hexachlorocyclopentadiene | ND | | 0.12 |
| 2,4,6-Trichlorophenol | ND | | 0.12 |
| 2,3-Dichloroaniline | ND | | 0.12 |
| 2,4,5-Trichlorophenol | ND | | 0.12 |
| 2-Chloronaphthalene | ND | | 0.12 |
| 2-Nitroaniline | ND | | 0.12 |
| 1,4-Dinitrobenzene | ND | | 0.12 |
| Dimethylphthalate | ND | | 0.12 |
| 1,3-Dinitrobenzene | ND | | 0.12 |
| 2,6-Dinitrotoluene | ND | | 0.12 |
| 1,2-Dinitrobenzene | ND | | 0.12 |
| Acenaphthylene | ND | | 0.12 |
| 3-Nitroaniline | ND | | 0.12 |
| 2,4-Dinitrophenol | ND | | 0.62 |
| Acenaphthene | ND | | 0.12 |
| 4-Nitrophenol | ND | | 0.12 |
| 2,4-Dinitrotoluene | ND | | 0.12 |
| Dibenzofuran | ND | | 0.12 |
| 2,3,4,6-Tetrachlorophenol | ND | | 0.12 |
| 2,3,5,6-Tetrachlorophenol | ND | | 0.12 |
| Diethylphthalate | ND | | 0.12 |
| 4-Chlorophenyl-phenylether | ND | | 0.12 |
| 4-Nitroaniline | ND | | 0.12 |
| Fluorene | ND | | 0.12 |
| 4,6-Dinitro-2-methylphenol | ND | | 0.62 |
| N-Nitrosodiphenylamine | ND | | 0.12 |
| 1,2-Diphenylhydrazine | ND | | 0.12 |
| 4-Bromophenyl-phenylether | ND | | 0.12 |
| Hexachlorobenzene | ND | | 0.12 |
| Pentachlorophenol | ND | | 0.62 |
| Phenanthrene | 0.43 | | 0.12 |
| Anthracene | ND | | 0.12 |
| Carbazole | ND | | 0.12 |
| Di-n-butylphthalate | ND | | 0.12 |
| Fluoranthene | ND | | 0.12 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
page 3 of 3

Lab ID: 02-143-61
**Client ID: PP-12-9.0**

| Compound: | Results | Flags | PQL |
|---|---|---|---|
| Benzidine | ND | | 1.2 |
| Pyrene | 0.37 | | 0.12 |
| Butylbenzylphthalate | ND | | 0.12 |
| bis-2-Ethylhexyladipate | ND | | 0.12 |
| 3,3'-Dichlorobenzidine | ND | | 1.2 |
| Benzo[a]anthracene | 0.15 | | 0.12 |
| Chrysene | 0.19 | | 0.12 |
| bis(2-Ethylhexyl)phthalate | ND | | 0.12 |
| Di-n-octylphthalate | ND | | 0.12 |
| Benzo[b]fluoranthene | 0.20 | | 0.12 |
| Benzo[k]fluoranthene | ND | | 0.12 |
| Benzo[a]pyrene | 0.15 | | 0.12 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.12 |
| Dibenz[a,h]anthracene | ND | | 0.12 |
| Benzo[g,h,i]perylene | ND | | 0.12 |

| Surrogate : | Percent Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 58 | 25 - 121 |
| Phenol-d6 | 63 | 24 - 113 |
| Nitrobenzene-d5 | 52 | 23 - 120 |
| 2-Fluorobiphenyl | 61 | 30 - 115 |
| 2,4,6-Tribromophenol | 79 | 19 - 122 |
| Terphenyl-d14 | 60 | 18 - 137 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
page 1 of 3

| | |
|---|---|
| Date Extracted: | 2-20-06 |
| Date Analyzed: | 2-22-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | 02-143-69 |
| **Client ID:** | **PP-19-9.5** |

| **Compound:** | **Results** | **Flags** | **PQL** |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | | 0.12 |
| Pyridine | ND | | 0.12 |
| Phenol | 7.5 | | 0.24 |
| Aniline | ND | | 0.12 |
| bis(2-Chloroethyl)ether | ND | | 0.12 |
| 2-Chlorophenol | ND | | 0.12 |
| 1,3-Dichlorobenzene | ND | | 0.12 |
| 1,4-Dichlorobenzene | ND | | 0.12 |
| Benzyl alcohol | ND | | 0.12 |
| 1,2-Dichlorobenzene | ND | | 0.12 |
| 2-Methylphenol (o-Cresol) | ND | | 0.12 |
| bis(2-Chloroisopropyl)ether | ND | | 0.12 |
| (3+4)-Methylphenol (m,p-Cresol) | 13 | | 0.24 |
| N-Nitroso-di-n-propylamine | ND | | 0.12 |
| Hexachloroethane | ND | | 0.12 |
| Nitrobenzene | ND | | 0.12 |
| Isophorone | ND | | 0.12 |
| 2-Nitrophenol | ND | | 0.12 |
| 2,4-Dimethylphenol | ND | | 0.12 |
| bis(2-Chloroethoxy)methane | ND | | 0.12 |
| 2,4-Dichlorophenol | ND | | 0.12 |
| 1,2,4-Trichlorobenzene | ND | | 0.12 |
| Naphthalene | ND | | 0.12 |
| 4-Chloroaniline | ND | | 0.12 |
| Hexachlorobutadiene | ND | | 0.12 |
| 4-Chloro-3-methylphenol | ND | | 0.12 |
| 2-Methylnaphthalene | ND | | 0.12 |
| 1-Methylnaphthalene | ND | | 0.12 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
page 2 of 3

Lab ID: 02-143-69
**Client ID: PP-19-9.5**

| Compound: | Results | Flags | PQL |
|---|---|---|---|
| Hexachlorocyclopentadiene | ND | | 0.12 |
| 2,4,6-Trichlorophenol | ND | | 0.12 |
| 2,3-Dichloroaniline | ND | | 0.12 |
| 2,4,5-Trichlorophenol | ND | | 0.12 |
| 2-Chloronaphthalene | 0.17 | | 0.12 |
| 2-Nitroaniline | ND | | 0.12 |
| 1,4-Dinitrobenzene | ND | | 0.12 |
| Dimethylphthalate | ND | | 0.12 |
| 1,3-Dinitrobenzene | ND | | 0.12 |
| 2,6-Dinitrotoluene | ND | | 0.12 |
| 1,2-Dinitrobenzene | ND | | 0.12 |
| Acenaphthylene | 0.14 | | 0.12 |
| 3-Nitroaniline | ND | | 0.12 |
| 2,4-Dinitrophenol | ND | | 0.62 |
| Acenaphthene | ND | | 0.12 |
| 4-Nitrophenol | ND | | 0.12 |
| 2,4-Dinitrotoluene | ND | | 0.12 |
| Dibenzofuran | ND | | 0.12 |
| 2,3,4,6-Tetrachlorophenol | ND | | 0.12 |
| 2,3,5,6-Tetrachlorophenol | ND | | 0.12 |
| Diethylphthalate | ND | | 0.12 |
| 4-Chlorophenyl-phenylether | ND | | 0.12 |
| 4-Nitroaniline | ND | | 0.12 |
| Fluorene | ND | | 0.12 |
| 4,6-Dinitro-2-methylphenol | ND | | 0.62 |
| N-Nitrosodiphenylamine | ND | | 0.12 |
| 1,2-Diphenylhydrazine | ND | | 0.12 |
| 4-Bromophenyl-phenylether | ND | | 0.12 |
| Hexachlorobenzene | ND | | 0.12 |
| Pentachlorophenol | ND | | 0.62 |
| Phenanthrene | 0.69 | | 0.12 |
| Anthracene | 0.18 | | 0.12 |
| Carbazole | ND | | 0.12 |
| Di-n-butylphthalate | ND | | 0.12 |
| Fluoranthene | ND | | 0.12 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
page 3 of 3

Lab ID: 02-143-69
**Client ID: PP-19-9.5**

| Compound: | Results | Flags | PQL |
|---|---|---|---|
| Benzidine | ND | | 1.2 |
| Pyrene | 0.37 | | 0.12 |
| Butylbenzylphthalate | ND | | 0.12 |
| bis-2-Ethylhexyladipate | ND | | 0.12 |
| 3,3'-Dichlorobenzidine | ND | | 1.2 |
| Benzo[a]anthracene | 0.27 | | 0.12 |
| Chrysene | 0.37 | | 0.12 |
| bis(2-Ethylhexyl)phthalate | ND | | 0.12 |
| Di-n-octylphthalate | ND | | 0.12 |
| Benzo[b]fluoranthene | 0.55 | | 0.12 |
| Benzo[k]fluoranthene | 0.17 | | 0.12 |
| Benzo[a]pyrene | 0.45 | | 0.12 |
| Indeno[1,2,3-cd]pyrene | 0.35 | | 0.12 |
| Dibenz[a,h]anthracene | ND | | 0.12 |
| Benzo[g,h,i]perylene | ND | | 0.12 |

| Surrogate : | Percent Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 50 | 25 - 121 |
| Phenol-d6 | 57 | 24 - 113 |
| Nitrobenzene-d5 | 44 | 23 - 120 |
| 2-Fluorobiphenyl | 66 | 30 - 115 |
| 2,4,6-Tribromophenol | 121 | 19 - 122 |
| Terphenyl-d14 | 66 | 18 - 137 |



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: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
**METHOD BLANK QUALITY CONTROL**
page 1 of 3

| | |
|---|---|
| Date Extracted: | 2-20-06 |
| Date Analyzed: | 2-22-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0220S1 |

| Compound: | Results | Flags | PQL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | | 0.033 |
| Pyridine | ND | | 0.033 |
| Phenol | ND | | 0.033 |
| Aniline | ND | | 0.033 |
| bis(2-Chloroethyl)ether | ND | | 0.033 |
| 2-Chlorophenol | ND | | 0.033 |
| 1,3-Dichlorobenzene | ND | | 0.033 |
| 1,4-Dichlorobenzene | ND | | 0.033 |
| Benzyl alcohol | ND | | 0.033 |
| 1,2-Dichlorobenzene | ND | | 0.033 |
| 2-Methylphenol (o-Cresol) | ND | | 0.033 |
| bis(2-Chloroisopropyl)ether | ND | | 0.033 |
| (3+4)-Methylphenol (m,p-Cresol) | ND | | 0.033 |
| N-Nitroso-di-n-propylamine | ND | | 0.033 |
| Hexachloroethane | ND | | 0.033 |
| Nitrobenzene | ND | | 0.033 |
| Isophorone | ND | | 0.033 |
| 2-Nitrophenol | ND | | 0.033 |
| 2,4-Dimethylphenol | ND | | 0.033 |
| bis(2-Chloroethoxy)methane | ND | | 0.033 |
| 2,4-Dichlorophenol | ND | | 0.033 |
| 1,2,4-Trichlorobenzene | ND | | 0.033 |
| Naphthalene | ND | | 0.033 |
| 4-Chloroaniline | ND | | 0.033 |
| Hexachlorobutadiene | ND | | 0.033 |
| 4-Chloro-3-methylphenol | ND | | 0.033 |
| 2-Methylnaphthalene | ND | | 0.033 |
| 1-Methylnaphthalene | ND | | 0.033 |



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: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
**METHOD BLANK QUALITY CONTROL**
page 2 of 3

Lab ID: MB0220S1

| Compound: | Results | Flags | PQL |
|---|---|---|---|
| Hexachlorocyclopentadiene | ND | | 0.033 |
| 2,4,6-Trichlorophenol | ND | | 0.033 |
| 2,3-Dichloroaniline | ND | | 0.033 |
| 2,4,5-Trichlorophenol | ND | | 0.033 |
| 2-Chloronaphthalene | ND | | 0.033 |
| 2-Nitroaniline | ND | | 0.033 |
| 1,4-Dinitrobenzene | ND | | 0.033 |
| Dimethylphthalate | ND | | 0.033 |
| 1,3-Dinitrobenzene | ND | | 0.033 |
| 2,6-Dinitrotoluene | ND | | 0.033 |
| 1,2-Dinitrobenzene | ND | | 0.033 |
| Acenaphthylene | ND | | 0.033 |
| 3-Nitroaniline | ND | | 0.033 |
| 2,4-Dinitrophenol | ND | | 0.17 |
| Acenaphthene | ND | | 0.033 |
| 4-Nitrophenol | ND | | 0.033 |
| 2,4-Dinitrotoluene | ND | | 0.033 |
| Dibenzofuran | ND | | 0.033 |
| 2,3,4,6-Tetrachlorophenol | ND | | 0.033 |
| 2,3,5,6-Tetrachlorophenol | ND | | 0.033 |
| Diethylphthalate | ND | | 0.033 |
| 4-Chlorophenyl-phenylether | ND | | 0.033 |
| 4-Nitroaniline | ND | | 0.033 |
| Fluorene | ND | | 0.033 |
| 4,6-Dinitro-2-methylphenol | ND | | 0.17 |
| N-Nitrosodiphenylamine | ND | | 0.033 |
| 1,2-Diphenylhydrazine | ND | | 0.033 |
| 4-Bromophenyl-phenylether | ND | | 0.033 |
| Hexachlorobenzene | ND | | 0.033 |
| Pentachlorophenol | ND | | 0.17 |
| Phenanthrene | ND | | 0.033 |
| Anthracene | ND | | 0.033 |
| Carbazole | ND | | 0.033 |
| Di-n-butylphthalate | 0.098 | | 0.033 |
| Fluoranthene | ND | | 0.033 |



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: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
**METHOD BLANK QUALITY CONTROL**
page 3 of 3

Lab ID: MB0220S1

| Compound: | Results | Flags | PQL |
|---|---|---|---|
| Benzidine | ND | | 0.33 |
| Pyrene | ND | | 0.033 |
| Butylbenzylphthalate | ND | | 0.033 |
| bis-2-Ethylhexyladipate | ND | | 0.033 |
| 3,3'-Dichlorobenzidine | ND | | 0.33 |
| Benzo[a]anthracene | ND | | 0.033 |
| Chrysene | ND | | 0.033 |
| bis(2-Ethylhexyl)phthalate | ND | | 0.033 |
| Di-n-octylphthalate | ND | | 0.033 |
| Benzo[b]fluoranthene | ND | | 0.033 |
| Benzo[k]fluoranthene | ND | | 0.033 |
| Benzo[a]pyrene | ND | | 0.033 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.033 |
| Dibenz[a,h]anthracene | ND | | 0.033 |
| Benzo[g,h,i]perylene | ND | | 0.033 |

| Surrogate : | Percent Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 58 | 25 - 121 |
| Phenol-d6 | 62 | 24 - 113 |
| Nitrobenzene-d5 | 53 | 23 - 120 |
| 2-Fluorobiphenyl | 60 | 30 - 115 |
| 2,4,6-Tribromophenol | 75 | 19 - 122 |
| Terphenyl-d14 | 76 | 18 - 137 |



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: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
**METHOD BLANK QUALITY CONTROL**
page 1 of 3

| | |
|---|---|
| Date Extracted: | 2-21-06 |
| Date Analyzed: | 2-22-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0221S1 |

| Compound: | Results | Flags | PQL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | | 0.033 |
| Pyridine | ND | | 0.033 |
| Phenol | ND | | 0.033 |
| Aniline | ND | | 0.033 |
| bis(2-Chloroethyl)ether | ND | | 0.033 |
| 2-Chlorophenol | ND | | 0.033 |
| 1,3-Dichlorobenzene | ND | | 0.033 |
| 1,4-Dichlorobenzene | ND | | 0.033 |
| Benzyl alcohol | ND | | 0.033 |
| 1,2-Dichlorobenzene | ND | | 0.033 |
| 2-Methylphenol (o-Cresol) | ND | | 0.033 |
| bis(2-Chloroisopropyl)ether | ND | | 0.033 |
| (3+4)-Methylphenol (m,p-Cresol) | ND | | 0.033 |
| N-Nitroso-di-n-propylamine | ND | | 0.033 |
| Hexachloroethane | ND | | 0.033 |
| Nitrobenzene | ND | | 0.033 |
| Isophorone | ND | | 0.033 |
| 2-Nitrophenol | ND | | 0.033 |
| 2,4-Dimethylphenol | ND | | 0.033 |
| bis(2-Chloroethoxy)methane | ND | | 0.033 |
| 2,4-Dichlorophenol | ND | | 0.033 |
| 1,2,4-Trichlorobenzene | ND | | 0.033 |
| Naphthalene | ND | | 0.033 |
| 4-Chloroaniline | ND | | 0.033 |
| Hexachlorobutadiene | ND | | 0.033 |
| 4-Chloro-3-methylphenol | ND | | 0.033 |
| 2-Methylnaphthalene | ND | | 0.033 |
| 1-Methylnaphthalene | ND | | 0.033 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
**METHOD BLANK QUALITY CONTROL**
page 2 of 3

Lab ID: MB0221S1

| Compound: | Results | Flags | PQL |
|---|---|---|---|
| Hexachlorocyclopentadiene | ND | | 0.033 |
| 2,4,6-Trichlorophenol | ND | | 0.033 |
| 2,3-Dichloroaniline | ND | | 0.033 |
| 2,4,5-Trichlorophenol | ND | | 0.033 |
| 2-Chloronaphthalene | ND | | 0.033 |
| 2-Nitroaniline | ND | | 0.033 |
| 1,4-Dinitrobenzene | ND | | 0.033 |
| Dimethylphthalate | ND | | 0.033 |
| 1,3-Dinitrobenzene | ND | | 0.033 |
| 2,6-Dinitrotoluene | ND | | 0.033 |
| 1,2-Dinitrobenzene | ND | | 0.033 |
| Acenaphthylene | ND | | 0.033 |
| 3-Nitroaniline | ND | | 0.033 |
| 2,4-Dinitrophenol | ND | | 0.17 |
| Acenaphthene | ND | | 0.033 |
| 4-Nitrophenol | ND | | 0.033 |
| 2,4-Dinitrotoluene | ND | | 0.033 |
| Dibenzofuran | ND | | 0.033 |
| 2,3,4,6-Tetrachlorophenol | ND | | 0.033 |
| 2,3,5,6-Tetrachlorophenol | ND | | 0.033 |
| Diethylphthalate | ND | | 0.033 |
| 4-Chlorophenyl-phenylether | ND | | 0.033 |
| 4-Nitroaniline | ND | | 0.033 |
| Fluorene | ND | | 0.033 |
| 4,6-Dinitro-2-methylphenol | ND | | 0.17 |
| N-Nitrosodiphenylamine | ND | | 0.033 |
| 1,2-Diphenylhydrazine | ND | | 0.033 |
| 4-Bromophenyl-phenylether | ND | | 0.033 |
| Hexachlorobenzene | ND | | 0.033 |
| Pentachlorophenol | ND | | 0.17 |
| Phenanthrene | ND | | 0.033 |
| Anthracene | ND | | 0.033 |
| Carbazole | ND | | 0.033 |
| Di-n-butylphthalate | ND | | 0.033 |
| Fluoranthene | ND | | 0.033 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
**METHOD BLANK QUALITY CONTROL**
page 3 of 3

Lab ID: MB0221S1

| Compound: | Results | Flags | PQL |
|---|---|---|---|
| Benzidine | ND | | 0.33 |
| Pyrene | ND | | 0.033 |
| Butylbenzylphthalate | ND | | 0.033 |
| bis-2-Ethylhexyladipate | ND | | 0.033 |
| 3,3'-Dichlorobenzidine | ND | | 0.33 |
| Benzo[a]anthracene | ND | | 0.033 |
| Chrysene | ND | | 0.033 |
| bis(2-Ethylhexyl)phthalate | ND | | 0.033 |
| Di-n-octylphthalate | ND | | 0.033 |
| Benzo[b]fluoranthene | ND | | 0.033 |
| Benzo[k]fluoranthene | ND | | 0.033 |
| Benzo[a]pyrene | ND | | 0.033 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.033 |
| Dibenz[a,h]anthracene | ND | | 0.033 |
| Benzo[g,h,i]perylene | ND | | 0.033 |

| Surrogate : | Percent Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 62 | 25 - 121 |
| Phenol-d6 | 68 | 24 - 113 |
| Nitrobenzene-d5 | 58 | 23 - 120 |
| 2-Fluorobiphenyl | 66 | 30 - 115 |
| 2,4,6-Tribromophenol | 78 | 19 - 122 |
| Terphenyl-d14 | 74 | 18 - 137 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**SEMIVOLATILES by EPA 8270C/SIM**
**SB/SBD QUALITY CONTROL**

Date Extracted: 2-21-06
Date Analyzed: 2-22-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0221S1

| Compound: | Spike Amount | SB | Percent Recovery | SBD | Percent Recovery | Recovery Limits | Flags |
|---|---|---|---|---|---|---|---|
| Phenol | 1.33 | 0.860 | 65 | 0.872 | 66 | 26-90 | |
| 2-Chlorophenol | 1.33 | 0.835 | 63 | 0.838 | 63 | 25-102 | |
| 1,4-Dichlorobenzene | 0.667 | 0.418 | 63 | 0.427 | 64 | 30-130 | |
| N-Nitroso-di-n-propylamine | 0.667 | 0.398 | 60 | 0.401 | 60 | 41-126 | |
| 1,2,4-Trichlorobenzene | 0.667 | 0.439 | 66 | 0.461 | 69 | 30-130 | |
| 4-Chloro-3-methylphenol | 1.33 | 0.946 | 71 | 1.000 | 75 | 26-103 | |
| Acenaphthene | 0.667 | 0.457 | 69 | 0.480 | 72 | 31-137 | |
| 2,4-Dinitrotoluene | 0.667 | 0.510 | 76 | 0.548 | 82 | 28-89 | |
| 4-Nitrophenol | 1.33 | 1.09 | 82 | 1.14 | 86 | 11-114 | |
| Pentachlorophenol | 1.33 | 0.984 | 74 | 1.08 | 81 | 17-109 | |
| Pyrene | 0.667 | 0.505 | 76 | 0.541 | 81 | 35-142 | |

| | RPD | RPD Limits | Flags |
|---|---|---|---|
| Phenol | 1 | 35 | |
| 2-Chlorophenol | 0 | 50 | |
| 1,4-Dichlorobenzene | 2 | 30 | |
| N-Nitroso-di-n-propylamine | 1 | 38 | |
| 1,2,4-Trichlorobenzene | 5 | 30 | |
| 4-Chloro-3-methylphenol | 6 | 33 | |
| Acenaphthene | 5 | 19 | |
| 2,4-Dinitrotoluene | 7 | 47 | |
| 4-Nitrophenol | 4 | 50 | |
| Pentachlorophenol | 9 | 47 | |
| Pyrene | 7 | 36 | |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**PCBs by EPA 8082**

| | |
|---|---|
| Date Extracted: | 2-14-06 |
| Date Analyzed: | 2-15-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | 02-143-53 |
| Client ID: | **PP-9-9.0** |

| | Result | PQL |
|---|---|---|
| Aroclor 1016: | **ND** | 0.13 |
| Aroclor 1221: | **ND** | 0.13 |
| Aroclor 1232: | **ND** | 0.13 |
| Aroclor 1242: | **ND** | 0.13 |
| Aroclor 1248: | **ND** | 0.13 |
| Aroclor 1254: | **ND** | 0.13 |
| Aroclor 1260: | **ND** | 0.13 |

| Surrogate | Percent Recovery | Control Limits |
|---|---|---|
| Decachlorobiphenyl | 48 | 41-128 |

Flags:



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**PCBs by EPA 8082**

| | |
|---|---|
| Date Extracted: | 2-14-06 |
| Date Analyzed: | 2-22-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | 02-143-57 |
| Client ID: | **PP-10-9.0** |

| | Result | PQL |
|---|---|---|
| Aroclor 1016: | **ND** | 0.16 |
| Aroclor 1221: | **ND** | 0.16 |
| Aroclor 1232: | **ND** | 0.16 |
| Aroclor 1242: | **ND** | 0.16 |
| Aroclor 1248: | **ND** | 0.16 |
| Aroclor 1254: | **ND** | 0.16 |
| Aroclor 1260: | **ND** | 0.16 |

| **Surrogate** | **Percent Recovery** | **Control Limits** |
|---|---|---|
| Decachlorobiphenyl | 61 | 41-128 |

Flags: Z



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**PCBs by EPA 8082**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 2-14-06 |
| Date Analyzed: | 2-22-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0214S1 |

| | 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 | 76 | 41-128 |

Flags: Z



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**PCBs by EPA 8082**
**MS/MSD QUALITY CONTROL**

Date Extracted: 2-14-06
Date Analyzed: 2-14-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-157-03

Spike Level: 0.500

| | MS | Percent Recovery | MSD | Percent Recovery | RPD |
|---|---|---|---|---|---|
| Aroclor 1260: | 0.338 | 68 | 0.425 | 85 | 23 |
| PQL | 0.050 | | 0.050 | | |

| Surrogate | Percent Recovery | Percent Recovery | Control Limits |
|---|---|---|---|
| Decachlorobiphenyl | 53 | 65 | 41-128 |

Flags:



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-01
Client ID: PP-1-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **5.7** | 5.2 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-02
Client ID: PP-1-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.7 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

| | |
|---|---|
| Date Extracted: | 2-17,21&22-06 |
| Date Analyzed: | 2-17,21,22,23&24-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | 02-143-03 |
| Client ID: | PP-1-8.0 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **7.0** | 6.0 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-04
Client ID: PP-2-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **6.0** | 5.2 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-06
Client ID: PP-2-5 0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **7.3** | 6.8 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-07
Client ID: PP-2-8.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **110** | 7.1 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-08
Client ID: PP-3-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **5.8** | 5.2 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-09
Client ID: PP-3-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **8.8** | 7.8 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-10
Client ID: PP-3-8 0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **12** | 8.3 |



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Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-12
Client ID: PP-4-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **5.4** | 5.2 |



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Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-13
Client ID: PP-4-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 10.0 |



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Date of Report: February 28, 2006
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Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-14
Client ID: PP-4-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.9 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-15
Client ID: PP-5-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **5.6** | 5.3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-16
Client ID: PP-5-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **23** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-17
Client ID: PP-5-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **170** | 6.7 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-18
Client ID: PP-5-9.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **61** | 5.9 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-19
Client ID: PP-6-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **ND** | 5.3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-20
Client ID: PP-6-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-22
Client ID: PP-6-8.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.6 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-23
Client ID: PP-7-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **8.6** | 5.2 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-24
Client ID: PP-7-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **110** | 6.2 |



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: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-25
Client ID: PP-7-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **69** | 5.9 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-26
Client ID: PP-7-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **47** | 5.6 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-27
Client ID: PP-8-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **5.9** | 5.2 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-28
Client ID: PP-8-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **140** | 9.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-29
Client ID: PP-8-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 9.1 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-30
Client ID: PP-8-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **47** | 6.1 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-31
Client ID: PP-11-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **ND** | 5.5 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-32
Client ID: PP-11-5.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **140** | 8.9 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-33
Client ID: PP-11-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 2.4 |
| Arsenic | 6010B | **ND** | 12 |
| Cadmium | 6010B | **ND** | 1.2 |
| Lead | 6010B | **220** | 12 |
| Mercury | 7471A | **1.5** | 0.61 |
| Thallium | 6020 | **ND** | 0.24 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-34
Client ID: PP-14-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **7.1** | 5.7 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-35
Client ID: PP-14-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **51** | 7.2 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-36
Client ID: PP-14-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 2.1 |
| Arsenic | 6010B | **15** | 10 |
| Cadmium | 6010B | **1.1** | 1.0 |
| Lead | 6010B | **47** | 10 |
| Mercury | 7471A | **ND** | 0.52 |
| Thallium | 6020 | **ND** | 0.21 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-37
Client ID: PP-15-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **ND** | 5.6 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-38
Client ID: PP-15-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **1600** | 8.1 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-39
Client ID: PP-15-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **20** | 3.6 |
| Arsenic | 6020 | **34** | 3.6 |
| Cadmium | 6010B | **7.1** | 1.8 |
| Lead | 6010B | **1600** | 18 |
| Mercury | 7471A | **ND** | 0.89 |
| Thallium | 6020 | **ND** | 0.36 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-40
Client ID: PP-16-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **8.9** | 5.3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-40
Client ID: PP-16-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **8.9** | 5.3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-41
Client ID: PP-16-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **150** | 24 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-42
Client ID: PP-16-6.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **16** | 2.9 |
| Arsenic | 6020 | **26** | 2.9 |
| Cadmium | 6010B | **2.7** | 1.5 |
| Lead | 6010B | **2300** | 15 |
| Mercury | 7471A | **1.3** | 0.74 |
| Thallium | 6020 | **ND** | 0.29 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-44
Client ID: PP-17-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **5.6** | 5.6 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-45
Client ID: PP-17-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **2100** | 19 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-46
Client ID: PP-17-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **21** | 2.7 |
| Arsenic | 6010B | **100** | 14 |
| Cadmium | 6010B | **3.6** | 1.4 |
| Lead | 6010B | **820** | 14 |
| Mercury | 7471A | **ND** | 0.68 |
| Thallium | 6020 | **ND** | 0.27 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-47
Client ID: PP-18-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **ND** | 5.7 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-48
Client ID: PP-18-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **44** | 6.6 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-49
Client ID: PP-18-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **2.6** | 1.4 |
| Arsenic | 6010B | **ND** | 7.1 |
| Cadmium | 6010B | **ND** | 0.71 |
| Lead | 6010B | **30** | 7.1 |
| Mercury | 7471A | **0.50** | 0.36 |
| Thallium | 6020 | **ND** | 0.14 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-50
Client ID: PP-9-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **7.5** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-51
Client ID: PP-9-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **63** | 7.8 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-52
Client ID: PP-9-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 2.4 |
| Arsenic | 6010B | **ND** | 12 |
| Cadmium | 6010B | **ND** | 1.2 |
| Lead | 6010B | **29** | 12 |
| Mercury | 7471A | **ND** | 0.61 |
| Thallium | 6020 | **ND** | 0.24 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-54
Client ID: PP-10-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **ND** | 6.0 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-55
Client ID: PP-10-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **130** | 8.9 |



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: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-56
Client ID: PP-10-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.2 |
| Arsenic | 6010B | **ND** | 5.9 |
| Cadmium | 6010B | **ND** | 0.59 |
| Lead | 6010B | **ND** | 5.9 |
| Mercury | 7471A | **ND** | 0.29 |
| Thallium | 6020 | **ND** | 0.12 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-58
Client ID: PP-12-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **ND** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-59
Client ID: PP-12-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **21** | 9.6 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

## TOTAL METALS
## EPA 6010B/6020/7471A

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-60
Client ID: PP-12-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 4.0 |
| Arsenic | 6020 | **ND** | 4.0 |
| Cadmium | 6020 | **ND** | 1.0 |
| Lead | 6010B | **29** | 20 |
| Mercury | 7471A | **ND** | 1.0 |
| Thallium | 6020 | **ND** | 0.40 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-62
Client ID: PP-13-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **ND** | 5.7 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-63
Client ID: PP-13-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **63** | 9.1 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-64
Client ID: PP-13-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.2 |
| Arsenic | 6010B | **ND** | 6.0 |
| Cadmium | 6010B | **ND** | 0.60 |
| Lead | 6010B | **25** | 6.0 |
| Mercury | 7471A | **0.36** | 0.30 |
| Thallium | 6020 | **ND** | 0.12 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-66
Client ID: PP-19-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **ND** | 5.3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-67
Client ID: PP-19-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **39** | 7.9 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-68
Client ID: PP-19-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 3.6 |
| Arsenic | 6020 | **ND** | 3.6 |
| Cadmium | 6020 | **ND** | 0.89 |
| Lead | 6010B | **150** | 18 |
| Mercury | 7471A | **ND** | 0.89 |
| Thallium | 6020 | **ND** | 0.36 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-71
Client ID: PP-20-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **170** | 5.6 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-72
Client ID: PP-20-9.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **510** | 10 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-74
Client ID: PP-21-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **19** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-75
Client ID: PP-21-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.5 |
| Arsenic | 6010B | **ND** | 7.6 |
| Cadmium | 6010B | **ND** | 0.76 |
| Lead | 6010B | **170** | 7.6 |
| Mercury | 7471A | **ND** | 0.38 |
| Thallium | 6020 | **ND** | 0.15 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-76
Client ID: PP-21-8.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **18** | 5.5 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-77
Client ID: PP-22-1.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-78
Client ID: PP-22-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **6.4** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-79
Client ID: PP-22-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.4 |
| Arsenic | 6010B | **ND** | 6.8 |
| Cadmium | 6010B | **0.73** | 0.68 |
| Lead | 6010B | **2500** | 6.8 |
| Mercury | 7471A | **ND** | 0.34 |
| Thallium | 6020 | **ND** | 0.14 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-80
Client ID: PP-22-9.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **1800** | 10 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-81
Client ID: PP-23-2.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-82
Client ID: PP-23-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **17** | 5.5 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-83
Client ID: PP-23-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.1 |
| Arsenic | 6010B | **ND** | 5.6 |
| Cadmium | 6010B | **ND** | 0.56 |
| Lead | 6010B | **49** | 5.6 |
| Mercury | 7471A | **ND** | 0.28 |
| Thallium | 6020 | **ND** | 0.11 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-84
Client ID: PP-23-9.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **510** | 15 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-85
Client ID: PP-24-2.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-86
Client ID: PP-24-4.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **260** | 11 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-87
Client ID: PP-24-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.1 |
| Arsenic | 6010B | **ND** | 5.6 |
| Cadmium | 6010B | **ND** | 0.56 |
| Lead | 6010B | **71** | 5.6 |
| Mercury | 7471A | **ND** | 0.28 |
| Thallium | 6020 | **ND** | 0.11 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-88
Client ID: PP-25-1.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **1500** | 5.3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-89
Client ID: PP-25-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **130** | 6.2 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-90
Client ID: PP-25-8.0

| Analyte | Method | Result | PQL | |
|---|---|---|---|---|
| Antimony | 6020 | **ND** | 1.3 | R |
| Arsenic | 6010B | **ND** | 6.3 | |
| Cadmium | 6010B | **ND** | 0.63 | |
| Lead | 6010B | **20** | 6.3 | |
| Mercury | 7471A | **ND** | 0.31 | |
| Thallium | 6020 | **0.32** | 0.13 | |

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3/7/06



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-91
Client ID: PP-26-1.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **14** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-92
Client ID: PP-26-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **21** | 5.7 |



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Date of Report: February 28, 2006
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Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-93
Client ID: PP-26-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.1 |
| Arsenic | 6010B | **ND** | 5.5 |
| Cadmium | 6010B | **ND** | 0.55 |
| Lead | 6010B | **8.4** | 5.5 |
| Mercury | 7471A | **ND** | 0.27 |
| Thallium | 6020 | **ND** | 0.11 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-94
Client ID: PP-27-4 0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-95
Client ID: PP-27-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.2 |
| Arsenic | 6010B | **ND** | 6.1 |
| Cadmium | 6010B | **ND** | 0.61 |
| Lead | 6010B | **13** | 6.1 |
| Mercury | 7471A | **ND** | 0.30 |
| Thallium | 6020 | **ND** | 0.12 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-96
Client ID: PP-27-9 0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **440** | 23 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-97
Client ID: PP-28-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 6.3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-98
Client ID: PP-28-9.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.3 |
| Arsenic | 6010B | **ND** | 6.3 |
| Cadmium | 6010B | **ND** | 0.63 |
| Lead | 6010B | **16** | 6.3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-99
Client ID: PP-29-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **6.5** | 5.3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-100
Client ID: PP-29-9.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 2.2 |
| Arsenic | 6020 | **12** | 2.2 |
| Cadmium | 6010B | **ND** | 1.1 |
| Lead | 6010B | **76** | 11 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-101
Client ID: PP-30-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **11** | 6.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-102
Client ID: PP-30-9.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **4.0** | 3.4 |
| Arsenic | 6020 | **8.2** | 3.4 |
| Cadmium | 6020 | **ND** | 0.86 |
| Lead | 6010B | **100** | 17 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-103
Client ID: PP-31-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **160** | 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.

Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-104
Client ID: PP-31-9.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **4.3** | 4.0 |
| Arsenic | 6020 | **11** | 4.0 |
| Cadmium | 6020 | **ND** | 1.0 |
| Lead | 6010B | **33** | 20 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-105
Client ID: PP-32-5.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.4 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-106
Client ID: PP-32-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **23** | 7.8 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**

Date Extracted: 2-17,21&22-06
Date Analyzed: 2-17,21,22,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-107
Client ID: PP-32-9.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 3.2 |
| Arsenic | 6020 | **11** | 3.2 |
| Cadmium | 6020 | **ND** | 0.81 |
| Lead | 6010B | **48** | 16 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 2-21-06 |
| Date Analyzed: | 2-21-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0221S1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **ND** | 5.0 |



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Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 2-21-06
Date Analyzed: 2-21-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-31

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Arsenic | **ND** | **ND** | NA | 5.0 | |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**MS/MSD QUALITY CONTROL**

Date Extracted: 2-21-06
Date Analyzed: 2-21-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-31

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Arsenic | 100 | **89.8** | 90 | **88.5** | 88 | 2 | |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 2-21-06 |
| Date Analyzed: | 2-21-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0221S3 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.0 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 2-21-06
Date Analyzed: 2-21-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-06

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **5.35** | **5.00** | 7 | 5.0 | |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**MS/MSD QUALITY CONTROL**

Date Extracted: 2-21-06
Date Analyzed: 2-21-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-06

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 250 | **218** | 85 | **214** | 83 | 2 | |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 2-21-06 |
| Date Analyzed: | 2-23-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0221S4 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 5.0 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 2-21-06
Date Analyzed: 2-23-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-67

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **24.4** | **23.3** | 5 | 5.0 | |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**MS/MSD QUALITY CONTROL**

Date Extracted: 2-21-06
Date Analyzed: 2-23-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-67

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 250 | **244** | 88 | **239** | 86 | 2 | |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 2-22-06 |
| Date Analyzed: | 2-24-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0222S2 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.0 |
| Arsenic | 6010B | **ND** | 5.0 |
| Cadmium | 6010B | **ND** | 0.50 |
| Lead | 6010B | **ND** | 5.0 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 2-22-06
Date Analyzed: 2-24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-99

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Antimony | **ND** | **ND** | NA | 1.0 | |
| Arsenic | **6.12** | **6.21** | 1 | 5.0 | |
| Cadmium | **ND** | **ND** | NA | 0.50 | |
| Lead | **6.18** | **5.64** | 9 | 5.0 | |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**
**MS/MSD QUALITY CONTROL**

Date Extracted: 2-22-06
Date Analyzed: 2-24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-99

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Antimony | 100 | **20.1** | 20 | **15.9** | 16 | 23 | V, W |
| Arsenic | 100 | **93.2** | 87 | **93.1** | 87 | 0 | |
| Cadmium | 50 | **42.7** | 85 | **42.4** | 85 | 1 | |
| Lead | 250 | **204** | 79 | **204** | 79 | 0 | |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 2-17&22-06 |
| Date Analyzed: | 2-17,23&24-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0217S2&MB0222S4 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 1.0 |
| Arsenic | 6010B | **ND** | 5.0 |
| Cadmium | 6010B | **ND** | 0.50 |
| Lead | 6010B | **ND** | 5.0 |
| Mercury | 7471A | **ND** | 0.25 |
| Thallium | 6020 | **ND** | 0.10 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 2-17&22-06
Date Analyzed: 2-17,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-90

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Antimony | **ND** | **ND** | NA | 1.0 | |
| Arsenic | **ND** | **ND** | NA | 5.0 | |
| Cadmium | **ND** | **ND** | NA | 0.50 | |
| Lead | **15.9** | **10.9** | 38 | 5.0 | C |
| Mercury | **ND** | **ND** | NA | 0.25 | |
| Thallium | **0.256** | **0.163** | 45 | 0.10 | C |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**
**MS/MSD QUALITY CONTROL**

Date Extracted: 2-17&22-06
Date Analyzed: 2-17,23&24-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-90

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Antimony | 100 | **7.32** | 7 | **2.90** | 3 | 86 | V, W |
| Arsenic | 100 | **89.0** | 89 | **88.0** | 88 | 1 | |
| Cadmium | 50 | **44.8** | 90 | **44.3** | 89 | 1 | |
| Lead | 250 | **232** | 87 | **239** | 89 | 3 | |
| Mercury | 0.50 | **0.478** | 96 | **0.478** | 96 | 0 | |
| Thallium | 100 | **99.5** | 99 | **103** | 103 | 4 | |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

## % MOISTURE

Date Analyzed: 2-14,21&22-06

| Client ID | Lab ID | % Moisture |
|---|---|---|
| PP-1-0.0 | 02-143-01 | 3 |
| PP-1-4.0 | 02-143-02 | 13 |
| PP-1-8.0 | 02-143-03 | 16 |
| PP-2-0.0 | 02-143-04 | 4 |
| PP-2-5.0 | 02-143-06 | 27 |
| PP-2-8.5 | 02-143-07 | 30 |
| PP-3-0.0 | 02-143-08 | 3 |
| PP-3-4.0 | 02-143-09 | 36 |
| PP-3-8.0 | 02-143-10 | 40 |
| PP-4-0.0 | 02-143-12 | 3 |
| PP-4-4.0 | 02-143-13 | 50 |
| PP-4-8.0 | 02-143-14 | 15 |
| PP-5-0.0 | 02-143-15 | 5 |
| PP-5-4.0 | 02-143-16 | 8 |
| PP-5-8.0 | 02-143-17 | 25 |
| PP-5-9.0 | 02-143-18 | 15 |
| PP-6-0.0 | 02-143-19 | 5 |
| PP-6-4.0 | 02-143-20 | 8 |
| PP-6-8.5 | 02-143-22 | 11 |
| PP-7-0.0 | 02-143-23 | 3 |
| PP-7-4.5 | 02-143-24 | 19 |
| PP-7-6.0 | 02-143-25 | 15 |
| PP-7-8.0 | 02-143-26 | 10 |
| PP-8-0.0 | 02-143-27 | 3 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

## % MOISTURE

Date Analyzed: 2-21&22-06

| Client ID | Lab ID | % Moisture |
|---|---|---|
| PP-8-4.5 | 02-143-28 | 47 |
| PP-8-6.0 | 02-143-29 | 45 |
| PP-8-8.0 | 02-143-30 | 18 |
| PP-11-0.0 | 02-143-31 | 9 |
| PP-11-5.0 | 02-143-32 | 44 |
| PP-11-8.0 | 02-143-33 | 59 |
| PP-14-0.0 | 02-143-34 | 13 |
| PP-14-4.5 | 02-143-35 | 31 |
| PP-14-8.0 | 02-143-36 | 52 |
| PP-15-0.0 | 02-143-37 | 11 |
| PP-15-4.5 | 02-143-38 | 38 |
| PP-15-8.0 | 02-143-39 | 72 |
| PP-16-0.0 | 02-143-40 | 6 |
| PP-16-4.0 | 02-143-41 | 79 |
| PP-16-6.5 | 02-143-42 | 66 |
| PP-17-0.0 | 02-143-44 | 10 |
| PP-17-4.5 | 02-143-45 | 74 |
| PP-17-8.0 | 02-143-46 | 63 |
| PP-18-0.0 | 02-143-47 | 12 |
| PP-18-4.5 | 02-143-48 | 24 |
| PP-18-6.0 | 02-143-49 | 30 |
| PP-9-0.0 | 02-143-50 | 8 |
| PP-9-4.5 | 02-143-51 | 36 |
| PP-9-6.0 | 02-143-52 | 59 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

## % MOISTURE

Date Analyzed: 2-21&22-06

| Client ID | Lab ID | % Moisture |
|---|---|---|
| PP-9-9.0 | 02-143-53 | 60 |
| PP-10-0.0 | 02-143-54 | 16 |
| PP-10-4.0 | 02-143-55 | 44 |
| PP-10-6.0 | 02-143-56 | 15 |
| PP-10-9.0 | 02-143-57 | 68 |
| PP-12-0.0 | 02-143-58 | 8 |
| PP-12-4.5 | 02-143-59 | 48 |
| PP-12-6.0 | 02-143-60 | 75 |
| PP-12-9.0 | 02-143-61 | 74 |
| PP-13-0.0 | 02-143-62 | 13 |
| PP-13-4.0 | 02-143-63 | 45 |
| PP-13-8.0 | 02-143-64 | 16 |
| PP-19-0.0 | 02-143-66 | 5 |
| PP-19-4.5 | 02-143-67 | 37 |
| PP-19-6.0 | 02-143-68 | 72 |
| PP-19-9.5 | 02-143-69 | 75 |
| PP-20-4.5 | 02-143-71 | 10 |
| PP-20-9.0 | 02-143-72 | 52 |
| PP-21-4.5 | 02-143-74 | 7 |
| PP-21-6.0 | 02-143-75 | 34 |
| PP-21-8.5 | 02-143-76 | 9 |
| PP-22-1.5 | 02-143-77 | 5 |
| PP-22-4.0 | 02-143-78 | 8 |
| PP-22-8.0 | 02-143-79 | 26 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

## % MOISTURE

Date Analyzed: 2-22-06

| Client ID | Lab ID | % Moisture |
|---|---|---|
| PP-22-9.0 | 02-143-80 | 50 |
| PP-23-2.0 | 02-143-81 | 7 |
| PP-23-4.0 | 02-143-82 | 9 |
| PP-23-8.0 | 02-143-83 | 11 |
| PP-23-9.0 | 02-143-84 | 66 |
| PP-24-2.0 | 02-143-85 | 8 |
| PP-24-4.5 | 02-143-86 | 54 |
| PP-24-8.0 | 02-143-87 | 11 |
| PP-25-1.0 | 02-143-88 | 6 |
| PP-25-4.0 | 02-143-89 | 19 |
| PP-25-8.0 | 02-143-90 | 20 |
| PP-26-1.5 | 02-143-91 | 7 |
| PP-26-4.0 | 02-143-92 | 13 |
| PP-26-8.0 | 02-143-93 | 9 |
| PP-27-4.0 | 02-143-94 | 8 |
| PP-27-8.0 | 02-143-95 | 18 |
| PP-27-9.0 | 02-143-96 | 78 |
| PP-28-6.0 | 02-143-97 | 21 |
| PP-28-9.0 | 02-143-98 | 21 |
| PP-29-8.0 | 02-143-99 | 5 |
| PP-29-9.0 | 02-143-100 | 54 |
| PP-30-6.0 | 02-143-101 | 22 |
| PP-30-9.0 | 02-143-102 | 71 |
| PP-31-6.0 | 02-143-103 | 76 |



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Date of Report: February 28, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143
Project: 10131/4

**% MOISTURE**

Date Analyzed: 2-22-06

| Client ID | Lab ID | % Moisture |
|---|---|---|
| PP-31-9.0 | 02-143-104 | 75 |
| PP-32-5.5 | 02-143-105 | 8 |
| PP-32-8.0 | 02-143-106 | 36 |
| PP-32-9.0 | 02-143-107 | 69 |



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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 extract treated with a Mercury cleanup procedure.

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference



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# Staged Electronic Data Deliverable (SEDD)

Click Here for SEDD Implementation Information

**What is SEDD?**
SEDD is an inter-agency effort to create a generic format for electronic delivery of analyti data for environmental programs. The data deliverable generated by SEDD is an industr standard Extensible Markup Language (XML) file. A major advantage for laboratories is t SEDD can be implemented in stages. This allows laboratories to meet Electronic Data Deliverable (EDD) requirements for multiple programs without having to overhaul their EI producing systems as agency or program needs change.

Details on the SEDD format are given in the SEDD Specification, the draft version of whi may be downloaded from this Web site. Additionally, EPA's Analytical Services Branch (ASB) has developed a SEDD Generator Tool to assist laboratories in generating SEDD deliverables.

Please use the following presentations to obtain a better understanding of SEDD and ho benefits federal agencies, laboratories, and analytical data users.

SEDD: An Overview and Status Report (PPT 703K)

A Technical Overview of SEDD (PPT 1MB)

**Who Supports SEDD?**
SEDD is currently being supported by a number of laboratories, vendors, and contractors full list of those currently participating may be found on the Implementation Status and In Agency Efforts page.

**Common SEDD Misconceptions**
SEDD Is NOT:

- A database
- A flat file
- A parser

So What is SEDD?

- SEDD is a hierarchal file created by a Laboratory Information Management System (database).
- A SEDD file contains information regarding the chemical analysis of samples.
- Information (analytical results) from a SEDD file can be reviewed and then input into customer databases using parsing routines.
- Parsing routines need to be written ONLY once for each database type.

**The SEDD Stages**
SEDD has four stages of data elements based on the following criteria:

A. Stage 1 contains the minimum number of analytical data elements to convey results ONLY data to the end user (and is equivalent to the data on the current CLP Form I).

B. Stages 2a and 2b build on Stage 1. Stages 2a and 2b add method and instrument Quality Control data, respectively.

C. Stage 3 builds on Stages 1 and 2, and adds additional measurement data to allow for independent recalculation of reported results. Stage 3 will be similar in detail to the current CLP electronic deliverable.

D. Stage 4 builds on Stages 1, 2, and 3 and adds the raw instrument data files. This Stage is currently under development.

**Inter-Agency Efforts**
EPA ASB is working with offices from the US Army Corps of Engineers (USACE) to deve contract requirements for delivery of electronic files based on the SEDD Specification. Jo efforts are also underway to develop tools for reviewing SEDD deliverables utilizing exist data review software.

- More information is available regarding the SEDD Implementation Status and Inte Agency Efforts

**SEDD Contacts**
If you need help downloading the files provided, please contact Anand Mudambi (mudambi.anand@epa.gov) at 703-603-8796 or Michael S. Johnson (johnson.michaels@epa.gov) at 703-603-0266.

# Chain of Custody

Page 1 of 11

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Laboratory Number: 02-143

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MTB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PP-1-0.0 | 2/9/06 | 0904 | S | 1 | | | | | | | | | | | | | | | | X | | | X |
| 2 | PP-1-4.0 | | 0906 | | | | | | | | | | | | | | | | | | | X | | |
| 3 | PP-1-8.0 | | 0908 | | | | | | | | | | | | | | | | | | | X | | |
| 4 | PP-2-0.0 | | 0951 | | | | | | | | | | | | | | | | | | X | | | |
| 5 | PP-2-4.0 | | 0954 | | | | | | | | | | | | | | | | | | | | | |
| 6 | PP-2-5.0 | | 0955 | | | | | | | | | | | | | | | | | | | X | | X |
| 7 | PP-2-8.5 | | 1003 | | | | | | | | | | | | | | | | | | | X | | |
| 8 | PP-3-0.0 | | 0843 | | | | | | | | | | | | | | | | | | X | | | |
| 9 | PP-3-4.0 | | 0846 | | | | | | | | | | | | | | | | | | | X | | |
| 10 | PP-3-8.0 | | 0851 | | | | | | | | | | | | | | | | | | | X | | |

| | Signature | Company | Date | Time | Comments/Special Instructions |
|---|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | | |
| Received by | | OSE | 2/10/06 | 1635 | |
| Relinquished by | | | | | |
| Received by | | | | | |
| Relinquished by | | | | | |
| Received by | | | | | |
| Reviewed by/Date | | Reviewed by/Date | | | Chromatograms with final report ☐ |

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: NTB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | PP-3-10.5 | 2/9/06 | 0853 | S | 1 | | | | | | | | | | | | | | | | | | | | |
| 12 | PP-4-0.0 | | 1013 | | | | | | | | | | | | | | | | | | X | | | | X |
| 13 | PP-4-4.0 | | 1020 | | | | | | | | | | | | | | | | | | | X | | | |
| 14 | PP-4-8.0 | | 1027 | | | | | | | | | | | | | | | | | | | X | | | |
| 15 | PP-5-0.0 | | 0919 | | | | | | | | | | | | | | | | | | X | | | | |
| 16 | PP-5-4.0 | | 0922 | | | | | | | | | | | | | | | | | | | X | | | |
| 17 | PP-5-8.0 | | 0925 | | | | | | | | | | | | | | | | | | | X | | | |
| 18 | PP-5-9.0 | | 0927 | | | | | | | | | | | | | | | | | | | X | | | |
| 19 | PP-6-0.0 | | 0935 | | | | | | | | | | | | | | | | | | X | | | | |
| 20 | PP-6-4.0 | ↓ | 0940 | ↓ | ↓ | | | | | | | | | | | | | | | | | X | | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | [signature] | Geomatrix | 2/10/06 | |
| Received by | [signature] | 982 | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | PP-6-5.0 | 2/9/06 | 0942 | S | 1 | | | | | | | | | | | | | | | | X | | | | |
| 22 | PP-6-8.5 | | 0944 | | | | | | | | | | | | | | | | | | | X | | | X |
| 23 | PP-7-0.0 | | 0828 | | | | | | | | | | | | | | | | | | X | | | | |
| 24 | PP-7-4.5 | | 0834 | | | | | | | | | | | | | | | | | | | X | | | |
| 25 | PP-7-6.0 | | 0835 | | | | | | | | | | | | | | | | | | | X | | | |
| 26 | PP-7-8.0 | | 0838 | | | | | | | | | | | | | | | | | | | X | | | |
| 27 | PP-8-0.0 | | 1051 | | | | | | | | | | | | | | | | | | X | | | | |
| 28 | PP-8-4.5 | | 1057 | | | | | | | | | | | | | | | | | | | X | | | |
| 29 | PP-8-6.0 | | 1059 | | | | | | | | | | | | | | | | | | | X | | | |
| 30 | PP-8-8.0 | | 1106 | | | | | | | | | | | | | | | | | | | X | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | Zanna Satterwhite | Geomatrix | 2/10/06 | |
| Received by | [signature] | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

**Comments/Special Instructions:**

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | PP-11-0.0 | 2/9/06 | 1156 | S | 1 | | | | | | | | | | | | | | | | X | | | | X |
| 32 | PP-11-5.0 | | 1202 | | | | | | | | | | | | | | | | | | | X | | | |
| 33 | PP-11-8.0 | | 1206 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 34 | PP-14-0.0 | | 1300 | | | | | | | | | | | | | | | | | | X | | | | |
| 35 | PP-14-5.5 | | 1302 | | | | | | | | | | | | | | | | | | | X | | | |
| 36 | PP-14-8.0 | | 1304 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 37 | PP-15-0.0 | | 1242 | | | | | | | | | | | | | | | | | | X | | | | |
| 38 | PP-15-5.5 | | 1244 | | | | | | | | | | | | | | | | | | | X | | | |
| 39 | PP-15-8.0 | | 1246 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 40 | PP-16-0.0 | ↓ | 1137 | ↓ | ↓ | | | | | | | | | | | | | | | | X | | | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

Comments/Special Instructions:

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MTB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | PP-16-4.0 | 2/9/06 | 1139 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 42 | PP-16-6.5 | | 1141 | | | | | | | | | | | | | | | | | | X | X | X | | ↓ |
| 43 | PP-16-8.0 | | 1143 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 44 | PP-17-0.0 | | 1214 | | | | | | | | | | | | | | | | | | X | | | | X |
| 45 | PP-17-4.5 | | 1224 | | | | | | | | | | | | | | | | | | | X | | | |
| 46 | PP-17-8.0 | | 1231 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 47 | PP-18-0.0 | | 1320 | | | | | | | | | | | | | | | | | | X | | | | |
| 48 | PP-18-4.5 | | 1322 | | | | | | | | | | | | | | | | | | | X | | | |
| 49 | PP-18-6.0 | ↓ | 1324 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 50 | PP-9-0.0 | 2/10/06 | 0928 | ↓ | ↓ | | | | | | | | | | | | | | | | X | | | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | [signature] | Geomatrix | 2/10/06 | |
| Received by | [signature] | GSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

Comments/Special Instructions:

Chromatograms with final report ☐

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OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 51 | PP-9-4.5 | 2/10/06 | 0930 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 52 | PP-9-6.0 | ↓ | 0932 | ↓ | ↓ | | | | | | | | | | | | | | | | X | X | X | | ↓ |
| 53 | PP-9-9.0 | | 0934 | | | | | | | | | | X | | | | | | | | | | | | |
| 54 | PP-10-0.0 | | 0815 | | | | | | | | | | | | | | | | | | X | | | | X |
| 55 | PP-10-4.0 | | 0820 | | | | | | | | | | | | | | | | | | | X | | | |
| 56 | PP-10-6.0 | | 0822 | | | | | | | | | | | | | | | | | | X | X | X | | ↓ |
| 57 | PP-10-9.0 | | 0825 | | | | | | | | | | X | | | | | | | | | | | | |
| 58 | PP-11-0.0 | | 0910 | | | | | | | | | | | | | | | | | | X | | | | X |
| 59 | PP-11-~~4.5~~ 2.5 | | 0912 | | | | | | | | | | | | | | | | | | | X | | | |
| 60 | PP-11-6.0 | ↓ | 0914 | ↓ | ↓ | | | | | | | | | | | | | | | | X | X | X | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | Za S | Geomatrix | 2/10/06 | |
| Received by | MMW | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



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Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MTB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C * | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61 | PP-12-9.0 | 2/10/06 | 0916 | S | X2 | | | | | | X | | | | | | | | | | | | | | X |
| 62 | PP-13-0.0 | | 0851 | | 1 | | | | | | | | | | | | | | | | X | | | | X |
| 63 | PP-13-4.0 | | 0853 | | 1 | | | | | | | | | | | | | | | | | X | | | ↓ |
| 64 | PP-13-8.0 | | 0855 | | 1 | | | | | | | | | | | | | | | | X | X | X | | ↓ |
| 65 | PP-13-9.0 | | 0857 | | 2 | | | | | | | | | | | | | | | | | | | | |
| 66 | PP-19-0.0 | | 0832 | | 1 | | | | | | | | | | | | | | | | X | | | | X |
| 67 | PP-19-4.5 | | 0835 | | 1 | | | | | | | | | | | | | | | | | X | | | ↓ |
| 68 | PP-19-6.0 | | 0837 | | 1 | | | | | | | | | | | | | | | | X | X | X | | ↓ |
| 69 | PP-19-9.5 | | 0839 | | 2 | | | | | | X | | | | | | | | | | | | | | ↓ |
| 70 | PP-20-0.0 | ↓ | 0946 | ↓ | 1 | | | | | | | | | | | | | | | | | | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | 0825 | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

Comments/Special Instructions:
* SVOCs w/ and w/o silica gel + acid wash.

Chromatograms with final report ☐

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# Chain of Custody



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Project Number: 10131/4
Project Name: MTB North
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**Turnaround Request (in working days)**

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- ☐ 2 Day ☐ 3 Day
- ☒ Standard (7 working days)
- ☐ _____ (other)

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 71 | PP-20-4.5 | 2/10/06 | 0953 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 72 | PP-20-9.0 | | 0955 | | | | | | | | | | | | | | | | | | | X | | | ↓ |
| 73 | PP-21-0.0 | | 1001 | | | | | | | | | | | | | | | | | | | | | | |
| 74 | PP-21-4.5 | | 1003 | | | | | | | | | | | | | | | | | | | X | | | X |
| 75 | PP-21-6.0 | | 1005 | | | | | | | | | | | | | | | | | | X | X | X | X | ↓ |
| 76 | PP-21-8.5 | | 1007 | | | | | | | | | | | | | | | | | | | X | | | |
| 77 | PP-22-1.5 | | 1136 | | | | | | | | | | | | | | | | | | | X | | | |
| 78 | PP-22-4.0 | | 1138 | | | | | | | | | | | | | | | | | | | X | | | |
| 79 | PP-22-8.0 | | 1140 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 80 | PP-22-9.0 | ↓ | 1142 | ↓ | ↓ | | | | | | | | | | | | | | | | | X | | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

**Comments/Special Instructions:**

Chromatograms with final report ☐

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Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MTB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | PP-23-2.0 | 2/10/06 | 1046 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 82 | PP-23-4.0 | | 1048 | | | | | | | | | | | | | | | | | | | X | | | | |
| 83 | PP-23-8.0 | | 1050 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 84 | PP-23-9.0 | | 1052 | | | | | | | | | | | | | | | | | | | X | | | | |
| 85 | PP-24-2.0 | | 1029 | | | | | | | | | | | | | | | | | | | X | | | | |
| 86 | PP-24-4.5 | | 1031 | | | | | | | | | | | | | | | | | | | X | | | | |
| 87 | PP-24-8.0 | | 1033 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 88 | PP-25-1.0 | | 1015 | | | | | | | | | | | | | | | | | | | X | | | | |
| 89 | PP-25-4.0 | | 1016 | | | | | | | | | | | | | | | | | | | X | | | | |
| 90 | PP-25-8.0 | | 1018 | | | | | | | | | | | | | | | | | | X | X | X | X | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

Comments/Special Instructions:

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, TI | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91 | PP-26-1.5 | 2/10/06 | 1118 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 92 | PP-26-4.0 | | 1120 | | | | | | | | | | | | | | | | | | | X | | | |
| 93 | PP-26-8.0 | | 1122 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 94 | PP-27-4.0 | | 1108 | | | | | | | | | | | | | | | | | | | X | | | |
| 95 | PP-27-8.0 | | 1102 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 96 | PP-27-9.0 | | 1104 | | | | | | | | | | | | | | | | | | | X | | | |
| 97 | PP-28-6.0 | | 1317 | | | | | | | | | | | | | | | | | | | X | | | |
| 98 | PP-28-9.0 | | 1329 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 99 | PP-29-8.0 | | 1214 | | | | | | | | | | | | | | | | | | | X | | | |
| 100 | PP-29-9.0 | | 1216 | | | | | | | | | | | | | | | | | | X | X | X | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | Zanna Satterwhite | Geomatrix | 2/10/06 | |
| Received by | M. Van | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603



Laboratory Number: 02-143

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MTB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard (7 working days)
☐ _____ (other)

Requested Analysis

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | PP-30-6.0 | 2/10/06 | 1256 | S | 1 | | | | | | | | | | | | | | | | | X | - | | X |
| 102 | PP-30-9.0 | | 1341 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 103 | PP-31-6.0 | | 1220 | | | | | | | | | | | | | | | | | | | X | | | |
| 104 | PP-31-9.0 | | 1225 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 105 | PP-32-5.5 | | 1205 | | | | | | | | | | | | | | | | | | | X | | | |
| 106 | PP-32-8.0 | | 1208 | | | | | | | | | | | | | | | | | | | X | | | |
| 107 | PP-32-9.0 | | 1210 | | | | | | | | | | | | | | | | | | X | X | X | | |
| | | | | | | | | 24 | 2/10/06 | | | | | | | | | | | | | | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | CRS | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

Comments/Special Instructions:

Chromatograms with final report ☐

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OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

March 10, 2006

Kathleen Goodman
Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10131/4
Laboratory Reference No. 0602-143B

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on February 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

Date of Report: March 10, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143B
Project: 10131/4

**Case Narrative**

Samples were collected on February 9 and 10, 2006 and received by the laboratory on February 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.



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: March 10, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143B
Project: 10131/4

**TCLP LEAD**
**by EPA 1311/6010B**

| | |
|---|---|
| Date Prepared: | 3-6-06 |
| Date Extracted: | 3-7-06 |
| Date Analyzed: | 3-9-06 |
| Matrix: | TCLP Extract |
| Units: | mg/L (ppm) |

| Client ID | Lab ID | Result | PQL |
|---|---|---|---|
| **PP-15-4.5** | 02-143-38 | **0.50** | 0.20 |
| **PP-16-6.5** | 02-143-42 | **8.2** | 0.20 |
| **PP-17-4.5** | 02-143-45 | **ND** | 0.20 |
| **PP-22-8.0** | 02-143-79 | **3.5** | 0.20 |
| **PP-25-1.0** | 02-143-88 | **15** | 0.20 |



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: March 10, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143B
Project: 10131/4

**TCLP LEAD**
**by EPA 1311/6010B**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Prepared: | 3-6-06 |
| Date Extracted: | 3-7-06 |
| Date Analyzed: | 3-9-06 |
| Matrix: | TCLP Extract |
| Units: | mg/L (ppm) |
| Lab ID: | MB0307T1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 0.20 |



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: March 10, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143B
Project: 10131/4

**TCLP LEAD**
**by EPA 1311/6010B**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Prepared: | 3-6-06 |
| Date Extracted: | 3-7-06 |
| Date Analyzed: | 3-9-06 |
| Matrix: | TCLP Extract |
| Units: | mg/L (ppm) |
| Lab ID: | MB0307T2 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 0.20 |



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: March 10, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143B
Project: 10131/4

**TCLP LEAD**
**by EPA 1311/6010B**
**DUPLICATE QUALITY CONTROL**

Date Prepared: 3-6-06
Date Extracted: 3-7-06
Date Analyzed: 3-9-06

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 02-143-88

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **14.7** | **15.0** | 2 | 0.20 | |



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: March 10, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143B
Project: 10131/4

**TCLP LEAD**
**by EPA 1311/6010B**
**MS/MSD QUALITY CONTROL**

Date Prepared: 3-6-06
Date Extracted: 3-7-06
Date Analyzed: 3-9-06

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 02-143-88

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 10 | **23.5** | 88 | **23.7** | 90 | 1 | |



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



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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PP-1-0.0 | 2/9/06 | 0904 | S | 1 | | | | | | | | | | | | | | | | X | | | | X |
| 2 | PP-1-4.0 | | 0906 | | | | | | | | | | | | | | | | | | | X | | | |
| 3 | PP-1-8.0 | | 0908 | | | | | | | | | | | | | | | | | | | X | | | |
| 4 | PP-2-0.0 | | 0951 | | | | | | | | | | | | | | | | | | X | | | | |
| 5 | PP-2-4.0 | | 0954 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | PP-2-5.0 | | 0955 | | | | | | | | | | | | | | | | | | | X | | | X |
| 7 | PP-2-8.5 | | 1003 | | | | | | | | | | | | | | | | | | | X | | | |
| 8 | PP-3-0.0 | | 0843 | | | | | | | | | | | | | | | | | | X | | | | |
| 9 | PP-3-4.0 | | 0846 | | | | | | | | | | | | | | | | | | | X | | | |
| 10 | PP-3-8.0 | | 0851 | | | | | | | | | | | | | | | | | | | X | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

**Comments/Special Instructions:**

⊗ Added 3/1/06. DB (STANDARD)
○ Added 3/13/06. DB (STANDARD)

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



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Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: NJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | PP-3-10.5 | 2/9/06 | 0853 | S | 1 | | | | | | | | | | | | | | | | | | | |
| 12 | PP-4-0.0 | | 1013 | | | | | | | | | | | | | | | | | | X | | | X |
| 13 | PP-4-4.0 | | 1020 | | | | | | | | | | | | | | | | | | | X | | |
| 14 | PP-4-8.0 | | 1027 | | | | | | | | | | | | | | | | | | | X | | |
| 15 | PP-5-0.0 | | 0919 | | | | | | | | | | | | | | | | | | X | | | |
| 16 | PP-5-4.0 | | 0922 | | | | | | | | | | | | | | | | | | | X | | |
| 17 | PP-5-8.0 | | 0925 | | | | | | | | | | | | | | | | | | | X | | |
| 18 | PP-5-9.0 | | 0927 | | | | | | | | | | | | | | | | | | | X | | |
| 19 | PP-6-0.0 | | 0935 | | | | | | | | | | | | | | | | | | X | | | |
| 20 | PP-6-4.0 | ↓ | 0940 | ↓ | ↓ | | | | | | | | | | | | | | | | | X | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/Special Instructions

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | PP-6-5.0 | 2/9/06 | 0942 | S | 1 | | | | | | | | | | | | | | | | | | | |
| 22 | PP-6-8.5 | | 0944 | | | | | | | | | | | | | | | | | | | X | | X |
| 23 | PP-7-0.0 | | 0828 | | | | | | | | | | | | | | | | | | X | | | |
| 24 | PP-7-4.5 | | 0834 | | | | | | | | | | | | | | | | | | | X | | |
| 25 | PP-7-6.0 | | 0835 | | | | | | | | | | | | | | | | | | | X | | |
| 26 | PP-7-8.0 | | 0838 | | | | | | | | | | | | | | | | | | | X | | |
| 27 | PP-8-0.0 | | 1051 | | | | | | | | | | | | | | | | | | X | | | |
| 28 | PP-8-4.5 | | 1057 | | | | | | | | | | | | | | | | | | | X | | |
| 29 | PP-8-6.0 | | 1059 | | | | | | | | | | | | | | | | | | | X | | |
| 30 | PP-8-8.0 | | 1106 | | | | | | | | | | | | | | | | | | | X | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/special instructions:

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP ~~Metals~~ LEAD | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | PP-11-0.0 | 2/9/06 | 1156 | S | 1 | | | | | | | | | | | | | | | | X | | | X |
| 32 | PP-11-5.0 | | 1202 | | | | | | | | | | | | | | | | | | | X | | |
| 33 | PP-11-8.0 | | 1206 | | | | | | | | | | | | | | | | | | X | X | X | |
| 34 | PP-14-0.0 | | 1300 | | | | | | | | | | | | | | | | | | X | | | |
| 35 | PP-14-4.5 | | 1302 | | | | | | | | | | | | | | | | | | | X | | |
| 36 | PP-14-8.0 | | 1304 | | | | | | | | | | | | | | | | | | X | X | X | |
| 37 | PP-15-0.0 | | 1242 | | | | | | | | | | | | | | | | | | X | | | |
| 38 | PP-15-4.5 | | 1244 | | | | | | | | | | | | | | ⊗ | | | | | X | | |
| 39 | PP-15-8.0 | | 1246 | | | | | | | | | | | | | | | | | | X | X | X | |
| 40 | PP-16-0.0 | ↓ | 1137 | ↓ | ↓ | | | | | | | | | | | | | | | | X | | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

**Comments/Special Instructions:**

⊗ Added 3/1/06 - DB

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Tanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals LEAD | HEM by 1664 | VPH | EPH | As | Pb | Se, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | PP-16-4.0 | 2/9/06 | 1139 | S | 1 | | | | | | | | | | | | | | | | | X | | X |
| 42 | PP-16-6.5 | | 1141 | | | | | | | | | | | | | | ⊗ | | | | X | X | X | ↓ |
| 43 | PP-16-8.0 | | 1143 | | | | | | | | | | | | | | | | | | X | | X | |
| 44 | PP-17-0.0 | | 1214 | | | | | | | | | | | | | | | | | | X | | | X |
| 45 | PP-17-4.5 | | 1224 | | | | | | | | | | | | | | ⊗ | | | | | X | | |
| 46 | PP-17-8.0 | | 1231 | | | | | | | | | | | | | | | | | | X | X | X | |
| 47 | PP-18-0.0 | | 1320 | | | | | | | | | | | | | | | | | | X | | | |
| 48 | PP-18-4.5 | | 1322 | | | | | | | | | | | | | | | | | | | X | | |
| 49 | PP-18-6.0 | ↓ | 1324 | | | | | | | | | | | | | | | | | | X | X | X | |
| 50 | PP-9-0.0 | 2/10/06 | 0928 | ↓ | ↓ | | | | | | | | | | | | | | | | X | | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

**Comments/Special Instructions**

⊗ Added 3/10/06. PB

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | AS | PB | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 51 | PP-9-4.5 | 2/10/04 | 0930 | S | 1 | | | | | | | | | | | | | | | | | X | | X |
| 52 | PP-9-6.0 | | 0932 | | | | | | | | | | | | | | | | | | X | X | X | ↓ |
| 53 | PP-9-9.0 | | 0934 | | | | | | | | | | X | | | | | | | | | | | |
| 54 | PP-10-0.0 | | 0815 | | | | | | | | | | | | | | | | | | X | | | X |
| 55 | PP-10-4.0 | | 0820 | | | | | | | | | | | | | | | | | | | X | | ↓ |
| 56 | PP-10-6.0 | | 0822 | | | | | | | | | | | | | | | | | | X | X | X | ↓ |
| 57 | PP-10-9.0 | | 0825 | | | | | | | | | | X | | | | | | | | | | | |
| 58 | PP-12-0.0 | | 0910 | | | | | | | | | | | | | | | | | | X | | | X |
| 59 | PP-12-~~4.5~~ 2.5 | | 0912 | | | | | | | | | | | | | | | | | | | X | | ↓ |
| 60 | PP-12-~~6.0~~ 5.0 | ↓ | 0914 | ↓ | ↓ | | | | | | | | | | | | | | | | X | X | X | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | Za S | Geomatrix | 2/10/04 | |
| Received by | MMW | OSE | 2/10/04 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

**Comments/Special Instructions:**

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zenna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C * | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61 | PP-12-9.0 | 2/10/06 | 0916 | S | 2 | | | | | | X | | | | | | | | | | | | | X |
| 62 | PP-13-0.0 | | 0851 | | 1 | | | | | | | | | | | | | | | | X | | | X |
| 63 | PP-13-4.0 | | 0853 | | 1 | | | | | | | | | | | | | | | | | X | | ↓ |
| 64 | PP-13-8.0 | | 0855 | | 1 | | | | | | | | | | | | | | | | X | X | X | |
| 65 | PP-13-9.0 | | 0857 | | 2 | | | | | | | | | | | | | | | | | | | |
| 66 | PP-19-0.0 | | 0832 | | 1 | | | | | | | | | | | | | | | | X | | | X |
| 67 | PP-19-4.5 | | 0835 | | 1 | | | | | | | | | | | | | | | | | X | | ↓ |
| 68 | PP-19-6.0 | | 0837 | | 1 | | | | | | | | | | | | | | | | X | X | X | |
| 69 | PP-19-9.5 | | 0839 | | 2 | | | | | | X | | | | | | | | | | | | | |
| 70 | PP-20-0.0 | ↓ | 0946 | ↓ | 1 | | | | | | | | | | | | | | | | | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Reviewed by/Date

Reviewed by/Date

**Comments/Special Instructions:**

* SVOCs w/ and w/o silica gel + acid wash.

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MTB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals LEAD | HEM by 1664 | VPH | EPT Cd | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 71 | PP-20-4.5 | 2/10/06 | 0953 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 72 | PP-20-9.0 | | 0955 | | | | | | | | | | | | | | O | | | O | O | X | | | ↓ |
| 73 | PP-21-0.0 | | 1001 | | | | | | | | | | | | | | | | | | | | | | |
| 74 | PP-21-4.5 | | 1003 | | | | | | | | | | | | | | | | | | | X | | | X |
| 75 | PP-21-6.0 | | 1005 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 76 | PP-21-8.5 | | 1007 | | | | | | | | | | | | | | | | | | | X | | | |
| 77 | PP-22-1.5 | | 1136 | | | | | | | | | | | | | | | | | | | X | | | |
| 78 | PP-22-4.0 | | 1138 | | | | | | | | | | | | | | | | | | | X | | | |
| 79 | PP-22-8.0 | | 1140 | | | | | | | | | | | | | | ⊗ | | | | X | X | X | X | |
| 80 | PP-22-9.0 | ↓ | 1142 | ↓ | ↓ | | | | | | | | | | | | | | | | | X | | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Reviewed by/Date

Reviewed by/Date

**Comments/Special Instructions:**

⊗ Added 3/1/06. DB
O Added 3/13/06. DB

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals LEAD | HEM by 1664 | VPH | EPH | TPS | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | PP-23-2.0 | 2/10/06 | 1046 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 82 | PP-23-4.0 | | 1048 | | | | | | | | | | | | | | | | | | | X | | | |
| 83 | PP-23-8.0 | | 1050 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 84 | PP-23-9.0 | | 1052 | | | | | | | | | | | | | | | | | | | X | | | |
| 85 | PP-24-2.0 | | 1029 | | | | | | | | | | | | | | | | | | | X | | | |
| 86 | PP-24-4.5 | | 1031 | | | | | | | | | | | | | | ⊙ | | | | | X | | | |
| 87 | PP-24-8.0 | | 1033 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 88 | PP-25-1.0 | | 1015 | | | | | | | | | | | | | | ⊗ | | | | | X | | | |
| 89 | PP-25-4.0 | | 1016 | | | | | | | | | | | | | | | | | | | X | | | |
| 90 | PP-25-8.0 | ↓ | 1018 | ↓ | ↓ | | | | | | | | | | | | | | | | X | X | X | X | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

**Comments/Special Instructions**

⊗ Added 3/1/06. DB
⊙ Added 3/13/06. DB

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals LEAD | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91 | PP-26-1.5 | 2/10/06 | 1118 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 92 | PP-26-4.0 | | 1120 | | | | | | | | | | | | | | | | | | | X | | | |
| 93 | PP-26-8.0 | | 1122 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 94 | PP-27-4.0 | | 1100 | | | | | | | | | | | | | | | | | | | X | | | |
| 95 | PP-27-8.0 | | 1102 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 96 | PP-27-9.0 | | 1104 | | | | | | | | | | | | | | O | | | | | X | | | |
| 97 | PP-28-6.0 | | 1327 | | | | | | | | | | | | | | | | | | | X | | | |
| 98 | PP-28-9.0 | | 1329 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 99 | PP-29-8.0 | | 1244 | | | | | | | | | | | | | | | | | | | X | | | |
| 100 | PP-29-9.0 | | 1246 | | | | | | | | | | | | | | | | | | X | X | X | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | Zanna Sattenwhite | Geomatrix | 2/10/06 | |
| Received by | M. Van | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/Special Instructions:
O Added 3/13/06 - DB

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MTB North
Project Manager: Kathleen Goodman
Sampled by: Laura Sabatini

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | PP-30-6.0 | 2/10/06 | 1256 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 102 | PP-30-9.0 | | 1341 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 103 | PP-31-6.0 | | 1220 | | | | | | | | | | | | | | | | | | | X | | | |
| 104 | PP-31-9.0 | | 1225 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 105 | PP-32-5.5 | | 1205 | | | | | | | | | | | | | | | | | | | X | | | |
| 106 | PP-32-8.0 | | 1208 | | | | | | | | | | | | | | | | | | | X | | | |
| 107 | PP-32-9.0 | | 1210 | | | | | | | | | | | | | | | | | | X | X | X | | |

245 2/10/06

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | [signature] | Geomatrix | 2/10/06 | |
| Received by | [signature] | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/Special Instructions

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

GEOMATRIX Received MAR 27 2006 SEATTLE

March 22, 2006

Kathleen Goodman
Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10131/4
Laboratory Reference No. 0602-143C

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on February 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

Date of Report: March 22, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143C
Project: 10131/4

**Case Narrative**

Samples were collected on February 9 and 10, 2006 and received by the laboratory on February 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.



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: March 22, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143C
Project: 10131/4

**TCLP LEAD**
**by EPA 1311/6010B**

| | |
|---|---|
| Date Prepared: | 3-20-06 |
| Date Extracted: | 3-21-06 |
| Date Analyzed: | 3-21-06 |
| Matrix: | TCLP Extract |
| Units: | mg/L (ppm) |

| Client ID | Lab ID | Result | PQL |
|---|---|---|---|
| **PP-20-9.0** | 02-143-72 | **1.3** | 0.20 |
| **PP-24-4.5** | 02-143-86 | **ND** | 0.20 |
| **PP-27-9.0** | 02-143-96 | **ND** | 0.20 |



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: March 22, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143C
Project: 10131/4

**TCLP LEAD**
**by EPA 1311/6010B**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Prepared: | 3-20-06 |
| Date Extracted: | 3-21-06 |
| Date Analyzed: | 3-21-06 |
| Matrix: | TCLP Extract |
| Units: | mg/L (ppm) |
| Lab ID: | MB0321T1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 0.20 |



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: March 22, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143C
Project: 10131/4

**TCLP LEAD**
**by EPA 1311/6010B**
**DUPLICATE QUALITY CONTROL**

Date Prepared: 3-20-06
Date Extracted: 3-21-06
Date Analyzed: 3-21-06

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 03-138-01

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **1.04** | **1.03** | 1 | 0.20 | |



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: March 22, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143C
Project: 10131/4

**TCLP LEAD**
**by EPA 1311/6010B**
**MS/MSD QUALITY CONTROL**

Date Prepared: 3-20-06
Date Extracted: 3-21-06
Date Analyzed: 3-21-06

Matrix: TCLP Extract
Units: mg/L (ppm)

Lab ID: 03-138-01

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 10 | **10.1** | 90 | **9.91** | 89 | 1 | |



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Date of Report: March 22, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143C
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**

Date Extracted: 3-16-06
Date Analyzed: 3-17-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-143-72
Client ID: PP-20-9.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **12** | 10 |
| Cadmium | 6010B | **1.6** | 1.0 |



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Date of Report: March 22, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143C
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 3-16-06 |
| Date Analyzed: | 3-17-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0316S1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **ND** | 5.0 |
| Cadmium | 6010B | **ND** | 0.50 |



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Date of Report: March 22, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143C
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 3-16-06
Date Analyzed: 3-17-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-122-09

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Arsenic | **ND** | **ND** | NA | 5.0 | |
| Cadmium | **ND** | **ND** | NA | 0.50 | |



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: March 22, 2006
Samples Submitted: February 10, 2006
Laboratory Reference: 0602-143C
Project: 10131/4

**TOTAL METALS**
**EPA 6010B**
**MS/MSD QUALITY CONTROL**

Date Extracted: 3-16-06
Date Analyzed: 3-17-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-122-09

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Arsenic | 100 | **97.5** | 97 | **97.0** | 97 | 0 | |
| Cadmium | 50 | **47.6** | 95 | **48.1** | 96 | 1 | |



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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



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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PP-1-0.0 | 2/9/06 | 0904 | S | 1 | | | | | | | | | | | | | | | | X | | | X |
| 2 | PP-1-4.0 | | 0906 | | | | | | | | | | | | | | | | | | | X | | |
| 3 | PP-1-8.0 | | 0908 | | | | | | | | | | | | | | | | | | | X | | |
| 4 | PP-2-0.0 | | 0951 | | | | | | | | | | | | | | | | | | X | | | X |
| 5 | PP-2-4.0 | | 0954 | | | | | | | | | | | | | | | | | | | | | |
| 6 | PP-2-5.0 | | 0955 | | | | | | | | | | | | | | | | | | | X | | X |
| 7 | PP-2-8.5 | | 1003 | | | | | | | | | | | | | | | | | | | X | | |
| 8 | PP-3-0.0 | | 0843 | | | | | | | | | | | | | | | | | | X | | | |
| 9 | PP-3-4.0 | | 0846 | | | | | | | | | | | | | | | | | | | X | | |
| 10 | PP-3-8.0 | | 0851 | | | | | | | | | | | | | | | | | | | X | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

**Comments/Special Instructions:**

⊗ Added 3/1/06 DB (STANDARD)
① Added 3/13/06 DB (STANDARD)

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | PP-3-10.5 | 2/9/06 | 0853 | S | 1 | | | | | | | | | | | | | | | | | | | |
| 12 | PP-4-0.0 | | 1013 | | | | | | | | | | | | | | | | | | X | | | X |
| 13 | PP-4-4.0 | | 1020 | | | | | | | | | | | | | | | | | | | X | | |
| 14 | PP-4-8.0 | | 1027 | | | | | | | | | | | | | | | | | | | X | | |
| 15 | PP-5-0.0 | | 0919 | | | | | | | | | | | | | | | | | | X | | | |
| 16 | PP-5-4.0 | | 0922 | | | | | | | | | | | | | | | | | | | X | | |
| 17 | PP-5-8.0 | | 0925 | | | | | | | | | | | | | | | | | | | X | | |
| 18 | PP-5-9.0 | | 0927 | | | | | | | | | | | | | | | | | | | X | | |
| 19 | PP-6-0.0 | | 0935 | | | | | | | | | | | | | | | | | | X | | | |
| 20 | PP-6-4.0 | ↓ | 0940 | ↓ | ↓ | | | | | | | | | | | | | | | | | X | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



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Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | PP-6-5.0 | 2/9/06 | 0942 | S | 1 | | | | | | | | | | | | | | | | X | | | | |
| 22 | PP-6-8.5 | | 0944 | | | | | | | | | | | | | | | | | | | X | | | X |
| 23 | PP-7-0.0 | | 0828 | | | | | | | | | | | | | | | | | | X | | | | |
| 24 | PP-7-4.5 | | 0834 | | | | | | | | | | | | | | | | | | | X | | | |
| 25 | PP-7-6.0 | | 0835 | | | | | | | | | | | | | | | | | | | X | | | |
| 26 | PP-7-8.0 | | 0838 | | | | | | | | | | | | | | | | | | | X | | | |
| 27 | PP-8-0.0 | | 1051 | | | | | | | | | | | | | | | | | | X | | | | |
| 28 | PP-8-4.5 | | 1057 | | | | | | | | | | | | | | | | | | | X | | | |
| 29 | PP-8-6.0 | | 1059 | | | | | | | | | | | | | | | | | | | X | | | |
| 30 | PP-8-8.0 | | 1106 | | | | | | | | | | | | | | | | | | | X | | | |

| | Signature | Company | Date | Time | Comments/Special Instructions: |
|---|---|---|---|---|---|
| Relinquished by | Zanna Satterwhite | Geomatrix | 2/10/06 | | |
| Received by | [signature] | OSE | 2/10/06 | 1635 | |
| Relinquished by | | | | | |
| Received by | | | | | |
| Relinquished by | | | | | |
| Received by | | | | | |

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



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Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals – LEAD | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | PP-11-0.0 | 2/9/06 | 1156 | S | 1 | | | | | | | | | | | | | | | | X | | | X |
| 32 | PP-11-5.0 | | 1202 | | | | | | | | | | | | | | | | | | | X | | |
| 33 | PP-11-8.0 | | 1206 | | | | | | | | | | | | | | | | | | X | X | X | |
| 34 | PP-14-0.0 | | 1300 | | | | | | | | | | | | | | | | | | X | | | |
| 35 | PP-14-4.5 | | 1302 | | | | | | | | | | | | | | | | | | | X | | |
| 36 | PP-14-8.0 | | 1304 | | | | | | | | | | | | | | | | | | X | X | X | |
| 37 | PP-15-0.0 | | 1242 | | | | | | | | | | | | | | | | | | X | | | |
| 38 | PP-15-4.5 | | 1244 | | | | | | | | | | | | | | ⊗ | | | | | X | | |
| 39 | PP-15-8.0 | | 1246 | | | | | | | | | | | | | | | | | | X | X | X | |
| 40 | PP-16-0.0 | ↓ | 1137 | ↓ | ↓ | | | | | | | | | | | | | | | | X | | | ↓ |

| | Signature | Company | Date | Time | Comments/Special Instructions |
|---|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | | ⊗ Added 3/1/06 - DB |
| Received by | | OSE | 2/10/06 | 1635 | |
| Relinquished by | | | | | |
| Received by | | | | | |
| Relinquished by | | | | | |
| Received by | | | | | |
| Reviewed by/Date | | Reviewed by/Date | | | Chromatograms with final report ☐ |

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# Chain of Custody



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Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Tanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP ~~Metals~~ LEAD | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | PP-16-4.0 | 2/9/06 | 1139 | S | 1 | | | | | | | | | | | | | | | | | X | | X |
| 42 | PP-16-6.5 | | 1141 | | | | | | | | | | | | | | ⊗ | | | | X | X | X | ↓ |
| 43 | PP-16-8.0 | | 1143 | | | | | | | | | | | | | | | | | | | | | |
| 44 | PP-17-0.0 | | 1214 | | | | | | | | | | | | | | | | | | X | | | X |
| 45 | PP-17-4.5 | | 1224 | | | | | | | | | | | | | | ⊗ | | | | | X | | |
| 46 | PP-17-8.0 | | 1231 | | | | | | | | | | | | | | | | | | X | X | X | |
| 47 | PP-18-0.0 | | 1320 | | | | | | | | | | | | | | | | | | X | | | |
| 48 | PP-18-4.5 | | 1322 | | | | | | | | | | | | | | | | | | | X | | |
| 49 | PP-18-6.0 | ↓ | 1324 | | | | | | | | | | | | | | | | | | X | X | X | |
| 50 | PP-9-0.0 | 2/10/06 | 0928 | ↓ | ↓ | | | | | | | | | | | | | | | | X | | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

**Comments/Special Instructions:**

⊗ Added 3/1/06. DB

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd, Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 51 | PP-9-4.5 | 2/10/06 | 0930 | S | 1 | | | | | | | | | | | | | | | | | X | | X |
| 52 | PP-9-6.0 | | 0932 | | | | | | | | | | | | | | | | | | X | X | X | ↓ |
| 53 | PP-9-9.0 | | 0934 | | | | | | | | | | X | | | | | | | | | | | |
| 54 | PP-10-0.0 | | 0815 | | | | | | | | | | | | | | | | | | X | | | X |
| 55 | PP-10-4.0 | | 0820 | | | | | | | | | | | | | | | | | | | X | | ↓ |
| 56 | PP-10-6.0 | | 0822 | | | | | | | | | | | | | | | | | | X | X | X | ↓ |
| 57 | PP-10-9.0 | | 0825 | | | | | | | | | | X | | | | | | | | | | | |
| 58 | PP-12-0.0 | | 0910 | | | | | | | | | | | | | | | | | | X | | | X |
| 59 | PP-12-4.5 ~~2.5~~ 2.5 | | 0912 | | | | | | | | | | | | | | | | | | | X | | ↓ |
| 60 | PP-12-6.0 | ↓ | 0914 | ↓ | ↓ | | | | | | | | | | | | | | | | X | X | X | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | Za S | Geomatrix | 2/10/06 | |
| Received by | MMW | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



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Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zenna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C * | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Cr, Cd, Hg, Ti | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61 | PP-12-9.0 | 2/10/06 | 0916 | S | 2 | | | | | | X | | | | | | | | | | | | | | X |
| 62 | PP-13-0.0 | | 0851 | | 1 | | | | | | | | | | | | | | | | X | | | | X |
| 63 | PP-13-4.0 | | 0853 | | 1 | | | | | | | | | | | | | | | | | X | | | ↓ |
| 64 | PP-13-8.0 | | 0855 | | 1 | | | | | | | | | | | | | | | | X | X | X | | ↓ |
| 65 | PP-13-9.0 | | 0857 | | 2 | | | | | | | | | | | | | | | | | | | | |
| 66 | PP-19-0.0 | | 0832 | | 1 | | | | | | | | | | | | | | | | X | | | | X |
| 67 | PP-19-4.5 | | 0835 | | 1 | | | | | | | | | | | | | | | | | X | | | ↓ |
| 68 | PP-19-6.0 | | 0837 | | 1 | | | | | | | | | | | | | | | | X | X | X | | ↓ |
| 69 | PP-19-9.5 | | 0839 | | 2 | | | | | | X | | | | | | | | | | | | | | ↓ |
| 70 | PP-20-0.0 | ↓ | 0946 | ↓ | 1 | | | | | | | | | | | | | | | | | | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | 0815 | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

**Comments/Special Instructions:**

* SVOCs w/ and w/o silica gel + acid wash.

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MTB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals LEAD | HEM by 1664 | VPH | EPH Cd | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 71 | PP-20-4.5 | 2/10/06 | 0953 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 72 | PP-20-9.0 | | 0955 | | | | | | | | | | | | | | O | | | O | O | X | | | ↓ |
| 73 | PP-21-0.0 | | 1001 | | | | | | | | | | | | | | | | | | | X | | | |
| 74 | PP-21-4.5 | | 1003 | | | | | | | | | | | | | | | | | | | X | | | X |
| 75 | PP-21-6.0 | | 1005 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 76 | PP-21-8.5 | | 1007 | | | | | | | | | | | | | | | | | | | X | | | |
| 77 | PP-22-1.5 | | 1136 | | | | | | | | | | | | | | | | | | | X | | | |
| 78 | PP-22-4.0 | | 1138 | | | | | | | | | | | | | | | | | | | X | | | |
| 79 | PP-22-8.0 | | 1140 | | | | | | | | | | | | | | ⊗ | | | | X | X | X | X | |
| 80 | PP-22-9.0 | ↓ | 1142 | ↓ | ↓ | | | | | | | | | | | | | | | | | X | | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

**Comments/Special Instructions:**

⊗ Added 3/1/06. DB
O Added 3/13/06. DB

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP ~~Metals~~ LEAD | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | PP-23-2.0 | 2/10/06 | 1046 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 82 | PP-23-4.0 | | 1048 | | | | | | | | | | | | | | | | | | | X | | | |
| 83 | PP-23-8.0 | | 1050 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 84 | PP-23-9.0 | | 1052 | | | | | | | | | | | | | | | | | | | X | | | |
| 85 | PP-24-2.0 | | 1029 | | | | | | | | | | | | | | | | | | | X | | | |
| 86 | PP-24-4.5 | | 1031 | | | | | | | | | | | | | | ⊙ | | | | | X | | | |
| 87 | PP-24-8.0 | | 1033 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 88 | PP-25-1.0 | | 1015 | | | | | | | | | | | | | | ⊗ | | | | | X | | | |
| 89 | PP-25-4.0 | | 1016 | | | | | | | | | | | | | | | | | | | X | | | |
| 90 | PP-25-8.0 | ↓ | 1018 | ↓ | ↓ | | | | | | | | | | | | | | | | X | X | X | X | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix | 2/10/06 | |
| Received by | | | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

**Comments/Special Instructions:**

⊗ Added 3/1/06. DB

⊙ Added 3/13/06. DB

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals LEAD | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91 | PP-26-1.5 | 2/10/06 | 1118 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 92 | PP-26-4.0 | | 1120 | | | | | | | | | | | | | | | | | | | X | | | |
| 93 | PP-26-8.0 | | 1122 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 94 | PP-27-4.0 | | 1100 | | | | | | | | | | | | | | | | | | | X | | | |
| 95 | PP-27-8.0 | | 1102 | | | | | | | | | | | | | | | | | | X | X | X | X | |
| 96 | PP-27-9.0 | | 1104 | | | | | | | | | | | | | | O | | | | | X | | | |
| 97 | PP-28-6.0 | | 1327 | | | | | | | | | | | | | | | | | | | X | | | |
| 98 | PP-28-9.0 | | 1329 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 99 | PP-29-8.0 | | 1244 | | | | | | | | | | | | | | | | | | | X | | | |
| 100 | PP-29-9.0 | ↓ | 1246 | ↓ | ↓ | | | | | | | | | | | | | | | | X | X | X | | ↓ |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | Zanna Sattenwhite | Geomatrix | 2/10/06 | |
| Received by | M. Olson | OSE | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

**Comments/Special Instructions:**

O Added 3/13/06 - DB

Chromatograms with final report ☐

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MTB North
Project Manager: Kathleen Goldman
Sampled by: Laura Sabatini to

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 02-143

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | PP-30-6.0 | 2/10/06 | 1256 | S | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 102 | PP-30-9.0 | | 1341 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 103 | PP-31-6.0 | | 1220 | | | | | | | | | | | | | | | | | | | X | | | |
| 104 | PP-31-9.0 | | 1225 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 105 | PP-32-5.5 | | 1205 | | | | | | | | | | | | | | | | | | | X | | | |
| 106 | PP-32-8.0 | | 1208 | | | | | | | | | | | | | | | | | | | X | | | |
| 107 | PP-32-9.0 | | 1210 | | | | | | | | | | | | | | | | | | X | X | X | | |

24S 2/10/06

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | [signature] | Geomatrix | 2/10/06 | |
| Received by | [signature] | CRS | 2/10/06 | 1635 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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Geomatrix

# Memorandum

| | | | |
|---|---|---|---|
| **TO:** | Kathleen Goodman | **DATE:** | April 3, 2006 |
| **FROM:** | Zanna Satterwhite | **PROJ. NO.:** | 10131 |
| **CC:** | Project File | **PROJ. NAME:** | MJB North Yard |
| **SUBJECT:** | Soil Sampling Summary Data Quality Review – Sample Delivery Group 0603-181 | | |

This memorandum presents a summary data quality review of 15 primary soil samples collected March 22, 2006. The soil samples were submitted to OnSite Environmental, Incorporated (OnSite), an Ecology-accredited laboratory, located in Redmond, Washington. The samples were analyzed for the following organic and/or inorganic analyses:

- Carcinogenic Polyaromatic Hydrocarbons (cPAHs) by EPA Method 8270C/SIM
- Total metals by EPA Method 6010B (arsenic, cadmium, and lead)
- Total metals by EPA Method 6020 (antimony and thallium)
- Total mercury by EPA Method 7471A
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082

The analyses were performed in general accordance with methods specified in Environmental Protection Agency's (EPA) *Test Methods for Evaluating Solid Waste (SW-846), January 1995* and associated revisions, EPA's *Methods for Determination of Inorganic Substances in Environmental Samples, August 1993,* and *Standard Methods for the Examination of Water and Wastewater, 19$^{th}$ Edition, 1995.*

Sample IDs, laboratory sample IDs, and requested analyses associated with this sampling event are listed below.

| Sample ID | Matrix | Laboratory Sample ID | Requested Analyses |
|---|---|---|---|
| PP-33-9.0 | soil | 03-181-02 | cPAHs, PCBs |
| PP-34-8.0 | soil | 03-181-04 | Total Pb |
| PP-35-8.0 | soil | 03-181-07 | Total As, Cd, Hg, Pb, Sb, Tl |
| PP-35-9.0 | soil | 03-181-08 | cPAHs |
| PP-36-8.0 | soil | 03-181-10 | Total Pb |
| PP-37-8.0 | soil | 03-181-13 | Total As, Cd, Hg, Pb, Sb, Tl |
| PP-38-8.0 | soil | 03-181-15 | Total Pb |

| Sample ID | Matrix | Laboratory Sample ID | Requested Analyses |
|---|---|---|---|
| PP-39-0.0 | soil | 03-181-16 | Total As |
| PP-39-6.5 | soil | 03-181-18 | Total Pb |
| PP-40-0.0 | soil | 03-181-20 | Total As |
| PP-40-6.0 | soil | 03-181-22 | Total Pb |
| PP-41-4.0 | soil | 03-181-25 | Total Pb |
| PP-42-4.0 | soil | 03-181-26 | Total Pb |
| PP-43-4.0 | soil | 03-181-28 | Total Pb |
| PP-44-4.0 | soil | 03-181-30 | Total Pb |

Upon receipt by OnSite, the sample jar information was compared to the chain-of-custody. There were no discrepancies noted at the time of receipt and the temperatures of the coolers were within the acceptable range of 4 +/- 2 °C.

Data review is based on method performance criteria. The laboratories provided validatable packages containing summarized sample results and associated QA/QC data as well as instrument printouts and sample preparation and injection log pages. The data review conducted on these SDGs included a review of summarized results and QA/QC data. Hold times, initial and continuing calibrations, internal standards, method blanks, surrogate recoveries, laboratory control samples (LCS), matrix spike/matrix spike duplicate (MS/MSD) results, field duplicate results, and reporting limits were reviewed to assess compliance with applicable methods. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in the 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 and cPAHs by the methods identified in the introduction to this report, and were evaluated for the following criteria.

1. Holding Times – Acceptable

2. Blanks – Acceptable except as noted:

   No trip blanks or equipment blanks were submitted in this sampling event. A method blank was prepared with each laboratory sample batch.

3. Surrogates – Acceptable

4. Laboratory Control Samples (LCS) – Acceptable

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

   <u>cPAHs by EPA 8270C/SIM</u>
   A MS was prepared with sample PP-35-9.0. The percent recoveries for phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, and benzo(a)pyrene were below control limits (75 to 125%) for the MS. The percent recoveries for fluoranthene, pyrene, benzo(a)anthracene, benzo(b)fluoranthene, and benzo(a)pyrene were also below control limits (75 to 125%) for the MSD. Associated detect results for fluoranthene, pyrene, benzo(a)anthracene, benzo(b)fluoranthene, and benzo(a)pyrene in PP-35-9.0 were qualified as estimated high and flagged "J+."

6. Field Duplicates – Acceptable:

   No field duplicates for organic analyses were collected during this sampling event.

7. Reporting Limits – Acceptable

**INORGANIC ANALYSES**

Samples were analyzed for total metals by the methods identified in the introduction to this report.

1. Holding Times – Acceptable except as noted:

2. Blanks – Acceptable except as noted:

   No equipment blanks were submitted in this sampling event. A method blank was prepared with each laboratory sample batch. Target compounds were not detected in the method blanks.

3. Laboratory Control Samples (LCS or Blank Spike) – Acceptable

4. Laboratory Duplicates – Acceptable except as noted:

5. Matrix Spike (MS) – Acceptable except as noted:

   Antimony by EPA 6020:
   A MS was prepared with sample PP-40-0.0. The percent recoveries for antimony, were not within control limits (75 to 125%) for the MS, despite reanalysis by the lab (antimony MS and MSD recoveries were 13.3% and 13.4%, respectively). Because PP-40-0.0 was not analyzed for antimony, no results were qualified as a result of the poor recoveries.

6. Field Duplicates – Acceptable:

   No field duplicates for organic analyses were collected during this sampling event.

7. Reporting Limits – Acceptable

## OVERALL ASSESSMENT OF DATA

The completeness of OnSite SDG 0603-181 is 100 percent. The data usability is based on USEPA guidance documents 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. The following table summarizes the sample IDs and qualified results.

| Sample | Qualified Analyte | Qualified Result | Units | Qualifier Reason |
|---|---|---|---|---|
| PP-35-9.0 | fluoranthene | 0.29 J+ | mg/kg | low MS/MSD %recovery |
| | pyrene | 0.31 J+ | mg/kg | low MS/MSD %recovery |
| | benzo(a)anthracene | 0.12 J+ | mg/kg | low MS/MSD %recovery |
| | benzo(b)fluoranthene | 0.15 J+ | mg/kg | low MS/MSD %recovery |
| | benzo(a)pyrene | 0.16 J+ | mg/kg | low MS/MSD %recovery |

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

GEOMATRIX
Received
APR 5 2006
SEATTLE

April 3, 2006

Kathleen Goodman
Geomatrix Consultants, Inc.
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

Re: Analytical Data for Project 10131/4
Laboratory Reference No. 0603-181

Dear Kathleen:

Enclosed are the analytical results and associated quality control data for samples submitted on March 22, 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

Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**Case Narrative**

Samples were collected on March 22, 2006 and received by the laboratory on March 22, 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.

Total Metals EPA 6010B/6020/7471A Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for Antimony are outside control limits due to matrix interferences. The Spike Blank recovery was 97%.

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.

PAHs EPA 8270C/SIM Analysis

The MS/MSD had multiple recoveries outside of control limits due to high levels of contamination in the native sample. A spike blank extracted with this batch had all compound recoveries within control limits.

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: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**PAHs by EPA 8270C/SIM**

| | |
|---|---|
| Date Extracted: | 3-29-06 |
| Date Analyzed: | 3-30-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | 03-181-02 |
| **Client ID:** | **PP-33-9.0** |

| **Compound:** | **Results** | **Flags** | **PQL** |
|---|---|---|---|
| Naphthalene | ND | | 0.019 |
| 2-Methylnaphthalene | ND | | 0.019 |
| 1-Methylnaphthalene | ND | | 0.019 |
| Acenaphthylene | ND | | 0.019 |
| Acenaphthene | ND | | 0.019 |
| Fluorene | ND | | 0.019 |
| Phenanthrene | 0.061 | | 0.019 |
| Anthracene | 0.019 | | 0.019 |
| Fluoranthene | 0.13 | | 0.019 |
| Pyrene | 0.12 | | 0.019 |
| Benzo[a]anthracene | 0.061 | | 0.019 |
| Chrysene | 0.098 | | 0.019 |
| Benzo[b]fluoranthene | 0.078 | | 0.019 |
| Benzo[k]fluoranthene | 0.026 | | 0.019 |
| Benzo[a]pyrene | 0.067 | | 0.019 |
| Indeno(1,2,3-c,d)pyrene | 0.039 | | 0.019 |
| Dibenz[a,h]anthracene | ND | | 0.019 |
| Benzo[g,h,i]perylene | 0.048 | | 0.019 |

| **Surrogate :** | **Percent Recovery** | **Control Limits** |
|---|---|---|
| Nitrobenzene-d5 | 71 | 49 - 121 |
| 2-Fluorobiphenyl | 73 | 53 - 110 |
| Terphenyl-d14 | 99 | 64 - 123 |



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: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**PAHs by EPA 8270C/SIM**

| | |
|---|---|
| Date Extracted: | 3-29-06 |
| Date Analyzed: | 3-30-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | 03-181-08 |
| **Client ID:** | **PP-35-9.0** |

| **Compound:** | **Results** | **Flags** | **PQL** | |
|---|---|---|---|---|
| Naphthalene | ND | | 0.014 | |
| 2-Methylnaphthalene | ND | | 0.014 | |
| 1-Methylnaphthalene | ND | | 0.014 | |
| Acenaphthylene | 0.016 | | 0.014 | |
| Acenaphthene | 0.015 | | 0.014 | |
| Fluorene | ND | | 0.014 | |
| Phenanthrene | 0.14 | | 0.014 | |
| Anthracene | 0.034 | | 0.014 | |
| Fluoranthene | 0.29 | | 0.014 | J+ |
| Pyrene | 0.31 | | 0.014 | J+ |
| Benzo[a]anthracene | 0.12 | | 0.014 | J+ |
| Chrysene | 0.16 | | 0.014 | |
| Benzo[b]fluoranthene | 0.15 | | 0.014 | J+ |
| Benzo[k]fluoranthene | 0.045 | | 0.014 | |
| Benzo[a]pyrene | 0.16 | | 0.014 | J+ |
| Indeno(1,2,3-c,d)pyrene | 0.077 | | 0.014 | |
| Dibenz[a,h]anthracene | ND | | 0.014 | |
| Benzo[g,h,i]perylene | 0.16 | | 0.014 | |

| **Surrogate :** | **Percent Recovery** | **Control Limits** |
|---|---|---|
| Nitrobenzene-d5 | 68 | 49 - 121 |
| 2-Fluorobiphenyl | 75 | 53 - 110 |
| Terphenyl-d14 | 98 | 64 - 123 |

ZAS
4/3/06



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: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

## PAHs by EPA 8270C/SIM
## METHOD BLANK QUALITY CONTROL

| | |
|---|---|
| Date Extracted: | 3-29-06 |
| Date Analyzed: | 3-30-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0329S1 |
| **Client ID:** | |

| **Compound:** | **Results** | **Flags** | **PQL** |
|---|---|---|---|
| Naphthalene | ND | | 0.0067 |
| 2-Methylnaphthalene | ND | | 0.0067 |
| 1-Methylnaphthalene | ND | | 0.0067 |
| Acenaphthylene | ND | | 0.0067 |
| Acenaphthene | ND | | 0.0067 |
| Fluorene | ND | | 0.0067 |
| Phenanthrene | ND | | 0.0067 |
| Anthracene | ND | | 0.0067 |
| Fluoranthene | ND | | 0.0067 |
| Pyrene | ND | | 0.0067 |
| Benzo[a]anthracene | ND | | 0.0067 |
| Chrysene | ND | | 0.0067 |
| Benzo[b]fluoranthene | ND | | 0.0067 |
| Benzo[k]fluoranthene | ND | | 0.0067 |
| Benzo[a]pyrene | ND | | 0.0067 |
| Indeno(1,2,3-c,d)pyrene | ND | | 0.0067 |
| Dibenz[a,h]anthracene | ND | | 0.0067 |
| Benzo[g,h,i]perylene | ND | | 0.0067 |

| **Surrogate :** | **Percent Recovery** | **Control Limits** |
|---|---|---|
| Nitrobenzene-d5 | 67 | 49 - 121 |
| 2-Fluorobiphenyl | 67 | 53 - 110 |
| Terphenyl-d14 | 101 | 64 - 123 |



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: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**PAHs by EPA 8270C/SIM**
**MS/MSD QUALITY CONTROL**

Date Extracted: 3-29-06
Date Analyzed: 3-30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-08

| Compound: | Sample Amount | Spike Amount | MS | Percent Recovery | MSD | Percent Recovery | Recovery Limits | Flags |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | 0.0833 | 0.0678 | 81 | 0.0715 | 86 | 30-115 | |
| Acenaphthylene | 0.00808 | 0.0833 | 0.0751 | 80 | 0.0818 | 89 | 46-125 | |
| Acenaphthene | 0.00739 | 0.0833 | 0.0805 | 88 | 0.0855 | 94 | 40-119 | |
| Fluorene | ND | 0.0833 | 0.0863 | 104 | 0.0965 | 116 | 50-133 | |
| Phenanthrene | 0.0693 | 0.0833 | 0.104 | 42 | 0.114 | 54 | 48-128 | I |
| Anthracene | 0.0168 | 0.0833 | 0.0804 | 76 | 0.0920 | 90 | 53-134 | |
| Fluoranthene | 0.141 | 0.0833 | 0.137 | -5 | 0.151 | 11 | 50-143 | I |
| Pyrene | 0.151 | 0.0833 | 0.114 | -45 | 0.144 | -8 | 44-139 | I |
| Benzo[a]anthracene | 0.0597 | 0.0833 | 0.0860 | 32 | 0.105 | 54 | 62-129 | I |
| Chrysene | 0.0784 | 0.0833 | 0.0949 | 20 | 0.115 | 44 | 42-127 | I |
| Benzo[b]fluoranthene | 0.0749 | 0.0833 | 0.0962 | 26 | 0.115 | 48 | 57-132 | I |
| Benzo[k]fluoranthene | 0.0219 | 0.0833 | 0.0876 | 79 | 0.1000 | 94 | 57-131 | |
| Benzo[a]pyrene | 0.0770 | 0.0833 | 0.0944 | 21 | 0.116 | 46 | 59-132 | I |
| Indeno(1,2,3-c,d)pyrene | 0.0379 | 0.0833 | 0.0835 | 55 | 0.104 | 79 | 55-135 | |
| 0Dibenz[a,h]anthracene | ND | 0.0833 | 0.0802 | 96 | 0.0916 | 110 | 36-146 | |
| Benzo[g,h,i]perylene | 0.0787 | 0.0833 | 0.143 | 78 | 0.130 | 62 | 42-140 | |

| | RPD | RPD Limit | Flags |
|---|---|---|---|
| Naphthalene | 5 | 25 | |
| Acenaphthylene | 9 | 25 | |
| Acenaphthene | 6 | 25 | |
| Fluorene | 11 | 25 | |
| Phenanthrene | 10 | 25 | |
| Anthracene | 14 | 25 | |
| Fluoranthene | 10 | 25 | |
| Pyrene | 24 | 25 | |
| Benzo[a]anthracene | 20 | 25 | |
| Chrysene | 19 | 25 | |
| Benzo[b]fluoranthene | 17 | 25 | |
| Benzo[k]fluoranthene | 13 | 25 | |
| Benzo[a]pyrene | 20 | 25 | |
| Indeno(1,2,3-c,d)pyrene | 21 | 25 | |
| Dibenz[a,h]anthracene | 13 | 25 | |
| Benzo[g,h,i]perylene | 10 | 25 | |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**PCBs by EPA 8082**

| | |
|---|---|
| Date Extracted: | 3-24-06 |
| Date Analyzed: | 3-28-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | 03-181-02 |
| Client ID: | **PP-33-9.0** |

| | Result | PQL |
|---|---|---|
| Aroclor 1016: | **ND** | 0.14 |
| Aroclor 1221: | **ND** | 0.14 |
| Aroclor 1232: | **ND** | 0.14 |
| Aroclor 1242: | **ND** | 0.14 |
| Aroclor 1248: | **ND** | 0.14 |
| Aroclor 1254: | **ND** | 0.14 |
| Aroclor 1260: | **ND** | 0.14 |

| **Surrogate** | **Percent Recovery** | **Control Limits** |
|---|---|---|
| Decachlorobiphenyl | 74 | 41-128 |

Flags: Z



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**PCBs by EPA 8082**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 3-24-06 |
| Date Analyzed: | 3-28-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0324S1 |

| | 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 | 86 | 41-128 |

Flags: Z



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**PCBs by EPA 8082**
**MS/MSD QUALITY CONTROL**

Date Extracted: 3-24-06
Date Analyzed: 3-27-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-188-02

Spike Level: 0.500

| | MS | Percent Recovery | MSD | Percent Recovery | RPD |
|---|---|---|---|---|---|
| Aroclor 1260: | 0.395 | 79 | 0.455 | 91 | 14 |
| PQL | 0.050 | | 0.050 | | |

| Surrogate | Percent Recovery | Percent Recovery | Control Limits |
|---|---|---|---|
| Decachlorobiphenyl | 78 | 92 | 41-128 |

Flags:



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL LEAD**
**EPA 6010B**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-04
Client ID: PP-34-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **ND** | 22 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-07
Client ID: PP-35-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 6.9 |
| Arsenic | 6010B | **ND** | 14 |
| Cadmium | 6010B | **ND** | 1.4 |
| Lead | 6010B | **100** | 14 |
| Mercury | 7471A | **ND** | 0.69 |
| Thallium | 6020 | **ND** | 0.69 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL LEAD**
**EPA 6010B**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-10
Client ID: PP-36-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **46** | 8.2 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020/7471A**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-13
Client ID: PP-37-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 3.2 |
| Arsenic | 6010B | **6.7** | 6.5 |
| Cadmium | 6010B | **ND** | 0.65 |
| Lead | 6010B | **160** | 6.5 |
| Mercury | 7471A | **1.4** | 0.65 |
| Thallium | 6020 | **ND** | 0.32 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL LEAD**
**EPA 6010B**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-15
Client ID: PP-38-8.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **300** | 14 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL ARSENIC**
**EPA 6010B**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-16
Client ID: PP-39-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **8.2** | 5.1 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL LEAD**
**EPA 6010B**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-18
Client ID: PP-39-6.5

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **49** | 7.8 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL ARSENIC**
**EPA 6010B**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-20
Client ID: PP-40-0.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Arsenic | 6010B | **10** | 5.1 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL LEAD**
**EPA 6010B**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-22
Client ID: PP-40-6.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **7.0** | 6.6 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL LEAD**
**EPA 6010B**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-25
Client ID: PP-41-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **84** | 5.4 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL LEAD**
**EPA 6010B**

| | |
|---|---|
| Date Extracted: | 3-28&29-06 |
| Date Analyzed: | 3-28&30-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | 03-181-26 |
| Client ID: | PP-42-4.0 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **39** | 5.3 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL LEAD**
**EPA 6010B**

| | |
|---|---|
| Date Extracted: | 3-28&29-06 |
| Date Analyzed: | 3-28&30-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | 03-181-28 |
| Client ID: | PP-43-4.0 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **58** | 5.5 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL LEAD**
**EPA 6010B**

Date Extracted: 3-28&29-06
Date Analyzed: 3-28&30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-30
Client ID: PP-44-4.0

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010B | **53** | 7.1 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 3-29-06 |
| Date Analyzed: | 3-30-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0329S3 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Antimony | 6020 | **ND** | 2.5 |
| Arsenic | 6010B | **ND** | 5.0 |
| Cadmium | 6010B | **ND** | 0.50 |
| Lead | 6010B | **ND** | 5.0 |
| Thallium | 6020 | **ND** | 0.25 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

## TOTAL MERCURY
## EPA 7471A
## METHOD BLANK QUALITY CONTROL

| | |
|---|---|
| Date Extracted: | 3-28-06 |
| Date Analyzed: | 3-28-06 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0328S1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Mercury | 7471A | **ND** | 0.25 |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 3-29-06
Date Analyzed: 3-30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-20

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Antimony | **ND** | **ND** | NA | 2.5 | |
| Arsenic | **9.97** | **8.56** | 15 | 5.0 | |
| Cadmium | **ND** | **ND** | NA | 0.50 | |
| Lead | **14.9** | **14.2** | 4 | 5.0 | |
| Thallium | **ND** | **ND** | NA | 0.25 | |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

## TOTAL MERCURY
## EPA 7471A
## DUPLICATE QUALITY CONTROL

Date Extracted: 3-28-06
Date Analyzed: 3-28-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-188-05

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Mercury | **ND** | **ND** | NA | 0.25 | |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL METALS**
**EPA 6010B/6020**
**MS/MSD QUALITY CONTROL**

Date Extracted: 3-29-06
Date Analyzed: 3-30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-181-20

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Antimony | 100 | **13.3** | 13 | **13.4** | 13 | 1 | V |
| Arsenic | 100 | **99.5** | 89 | **98.8** | 89 | 1 | |
| Cadmium | 50 | **43.1** | 86 | **43.9** | 88 | 2 | |
| Lead | 250 | **218** | 81 | **222** | 83 | 2 | |
| Thallium | 100 | **85.1** | 85 | **87.2** | 87 | 3 | |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

**TOTAL MERCURY**
**EPA 7471A**
**MS/MSD QUALITY CONTROL**

Date Extracted: 3-28-06
Date Analyzed: 3-28-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 03-188-05

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Mercury | 0.50 | **0.483** | 97 | **0.493** | 99 | 2 | |



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Date of Report: April 3, 2006
Samples Submitted: March 22, 2006
Laboratory Reference: 0603-181
Project: 10131/4

## % MOISTURE

Date Analyzed: 3-29-06

| Client ID | Lab ID | % Moisture |
|---|---|---|
| PP-33-9.0 | 03-181-02 | 64 |
| PP-34-8.0 | 03-181-04 | 77 |
| PP-35-8.0 | 03-181-07 | 64 |
| PP-35-8.0 | 03-181-08 | 57 |
| PP-36-8.0 | 03-181-10 | 39 |
| PP-37-8.0 | 03-181-13 | 23 |
| PP-38-8.0 | 03-181-15 | 64 |
| PP-39-0.0 | 03-181-16 | 2 |
| PP-39-6.5 | 03-181-18 | 36 |
| PP-40-0.0 | 03-181-20 | 2 |
| PP-40-6.0 | 03-181-22 | 24 |
| PP-41-4.0 | 03-181-25 | 8 |
| PP-42-4.0 | 03-181-26 | 6 |
| PP-43-4.0 | 03-181-28 | 9 |
| PP-44-4.0 | 03-181-30 | 30 |



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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 extract treated with a Mercury cleanup procedure.

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference



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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 03-181

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM ($140 each) | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PP-33-4.0 | 3/12/06 | 0931 | S | 1 | | | | | | | | | | | | | | | | | | | | |
| 2 | PP-33-9.0 | | 0934 | | 3 | | | | | | | X | X | | | | | | | | | | | | X |
| 3 | PP-34-4.0 | | 0950 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 4 | PP-34-8.0 | | 0952 | | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 5 | PP-34-9.0 | | 0954 | | 2 | | | | | | | | | | | | | | | | | | | | |
| 6 | PP-35-4.0 | | 1002 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 7 | PP-35-8.0 | | 1004 | | 1 | | | | | | | | | | | | | | | | X | X | X | X | X |
| 8 | PP-35-9.0 | | 1006 | | 2 | | | | | | | X | | | | | | | | | | | | | |
| 9 | PP-36-4.0 | | 1015 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 10 | PP-36-8.0 | ↓ | 1017 | ↓ | 1 | | | | | | | | | | | | | | | | | X | | | X |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix Consultants | 3/12/06 | 1541 |
| Received by | | CGHC IC | 3/12/06 | 1541 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MJB North
Project Manager: Kathleen Goodman
Sampled by: Zanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 03-181

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C (SIM only) | PAHs by 8270C / SIM | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | PP-37-4.0 | 3/22/06 | 1044 | S | 1 | | | | | | | | | | | | | | | | | | | | |
| 12 | PP-37-5.0 | | 1046 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 13 | PP-37-8.0 | | 1051 | | 1 | | | | | | | | | | | | | | | | X | X | X | X | X |
| 14 | PP-38-4.0 | | 1111 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 15 | PP-38-8.0 | | 1113 | | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 16 | PP-39-0.0 | | 1134 | | 1 | | | | | | | | | | | | | | | | X | | | | ↓ |
| 17 | PP-39-4.5 | | 1135 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 18 | PP-39-6.5 | | 1137 | | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 19 | PP-39-8.0 | | 1138 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 20 | PP-40-0.0 | ↓ | 1150 | ↓ | 1 | | | | | | | | | | | | | | | | X | | | | X |

| | Signature | Company | Date | Time | Comments/Special Instructions |
|---|---|---|---|---|---|
| Relinquished by | | Geomatrix Consultants | 3/22/06 | 1541 | |
| Received by | | OnSite Env. | 3/22/06 | 1541 | |
| Relinquished by | | | | | |
| Received by | | | | | |
| Relinquished by | | | | | |
| Received by | | | | | |
| Reviewed by/Date | | Reviewed by/Date | | | Chromatograms with final report ☐ |

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# Chain of Custody



OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131-1
Project Name: MTB North
Project Manager: Kathleen Goodman
Sampled by: Laura Satterwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 03-181

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM (5 µ40 each) | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | PP-40-4.5 | 3/22/06 | 1153 | S | 1 | | | | | | | | | | | | | | | | | | | | |
| 22 | PP-40-6.0 | | 1155 | | 1 | | | | | | | | | | | | | | | | | X | | | X |
| 23 | PP-40-8.0 | | 1156 | | 2 | | | | | | | | | | | | | | | | | | | | |
| 24 | PP-41-1.5 | | 1217 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 25 | PP-41-4.0 | | 1219 | | 1 | | | | | | | | | | | | | | | | | (X) | | | (X) |
| 26 | PP-42-4.0 | | 1235 | | 1 | | | | | | | | | | | | | | | | | (X) | | | (X) |
| 27 | PP-42-8.0 | | 1237 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 28 | PP-43-4.0 | | 1258 | | 1 | | | | | | | | | | | | | | | | | (X) | | | (X) |
| 29 | PP-43-6.0 | | 1259 | | 1 | | | | | | | | | | | | | | | | | | | | |
| 30 | PP-44-4.0 | | 1314 | | 1 | | | | | | | | | | | | | | | | | (X) | | | (X) |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix Consultants | 3/22/06 | 1541 |
| Received by | | GCS Site Fac | 3/22/06 | 1541 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

Comments/Special Instructions: (X) Archive 3/27/06 EL 5H

Chromatograms with final report ☐

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# Chain of Custody

Page 4 of 4

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Geomatrix Consultants
Project Number: 10131/4
Project Name: MTB North
Project Manager: Kathleen Goodman
Sampled by: Tanna Sattenwhite

**Turnaround Request (in working days)**

(Check One)

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

**Laboratory Number:** 03-181

**Requested Analysis**

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | # of Cont. | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Dx | Volatiles by 8260B | Halogenated Volatiles by 8260B | Semivolatiles by 8270C | PAHs by 8270C / SIM ☒ (140 cals) | PCBs by 8082 | Pesticides by 8081A | Herbicides by 8151A | Total RCRA Metals (8) | TCLP Metals | HEM by 1664 | VPH | EPH | As | Pb | Sb, Cd | Hg, Tl | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | PP-44-SD | 3/22/06 | 1316 | S | 1 | | | | | | | | | | | | | | | | | | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished by | | Geomatrix Consultants | 3/22/06 | 1541 |
| Received by | | OnSite Env. | 3/22/06 | 1541 |
| Relinquished by | | | | |
| Received by | | | | |
| Relinquished by | | | | |
| Received by | | | | |
| Reviewed by/Date | | Reviewed by/Date | | |

Comments/Special Instructions:

Chromatograms with final report ☐

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