



Commissioner
Indiana Department of Environmental Management
100 North Senate Avenue
Indianapolis, Indiana 46206-2241
Attention: Chief, Permits Branch

ARCADIS U.S., Inc.
251 East Ohio Street
Suite 800
Indianapolis
Indiana 46204
Tel 317.231.6500
Fax 317.231.6514
www.arcadis-us.com

ENVIRONMENT

Subject:

Groundwater Data Statistical Evaluation – Second Half 2010, Closed Hazardous Waste Surface Impoundment, GM Former AGT Division – INR000021436, 2701 West Raymond Street, Indianapolis, IN

Date:
December 29, 2010

Dear Commissioner:

On behalf of Motors Liquidation Company (MLC), ARCADIS respectfully submits this Groundwater Monitoring Statistical Evaluation as specified in the Final Hazardous Waste Post-Closure Permit Renewal (Permit) dated January 26, 2007. As required by the Permit, this Evaluation provides details regarding the semi-annual groundwater monitoring performed in October 2010 and is being submitted within sixty (60) days of the final laboratory report which was received by ARCADIS on November 3, 2010. Signed Certifications by MLC and ARCADIS are attached as per the Permit. The following sections provide details of the groundwater monitoring.

Contact:
Heather Gastineau-
Lyons
Phone:
317-236-5214

Email:
heather.gastineau@arcadis-us.com

Our ref:
IN000297.2010.00100

Groundwater Monitoring

On October 20, 2010 and in accordance with the Permit, one groundwater sample was collected from each of the downgradient monitoring wells (MW-201B, MW-202B and MW-203B) and the upgradient monitoring well MW-206B. The locations of the monitoring wells are presented on Drawing 1. Depth to groundwater was measured prior to purging the monitoring wells for sample collection. Groundwater samples were collected utilizing a low-flow/low-stress sampling technique. A stainless steel bladder pump equipped with disposable polyethylene bladder and tubing was used to purge the monitoring wells prior to sampling. Field parameter (pH, temperature, turbidity, conductivity, oxidation-reduction potential and dissolved oxygen) were measured during the purging of the monitoring wells. Groundwater was purged until the field parameters reached stabilized measurements as specified in the Permit. Approximately 9.5 gallons of water were purged from the four monitoring wells during the sampling event. After field measurements stabilized, groundwater samples were

Imagine the result

collected in laboratory-supplied containers. The containers were immediately sealed, labeled and placed in an ice-packed cooler that was transported to Pace Analytical Services, Inc. (Pace), located in Indianapolis, Indiana, observing proper chain-of-custody procedures. The groundwater samples were analyzed for dissolved metals (arsenic, barium, cadmium, chromium, lead, mercury, silver, selenium) and total cyanide.

Groundwater analytical results for the monitoring wells are presented in Table 1. Groundwater field data sheets from the sampling event are provided in Attachment 1. The laboratory analytical results are provided in Attachment 2.

A waste characterization sample was collected from the purge water. After analytical results of the purge water demonstrated that concentrations were below permitted discharge limits, the water was discharged to the sanitary sewer in accordance with Industrial Discharge Permit #342403 granted by the City of Indianapolis.

Groundwater Evaluation

In accordance with the Permit (and subsequent Permit Modifications), analytical data from monitoring well MW-206B (designated as background upgradient monitoring well) was evaluated to establish background groundwater quality conditions. Details of the exploratory data analysis and statistical evaluation of background data, conducted in accordance with Appendix H, Section 4.3 of the Permit, is included as Attachment 3. Background groundwater quality was established using the most recent 16 valid observations (i.e., May 2003 to October 2010) for each indicator parameter, as summarized in Table 2.

A point-by-point comparison of data from compliance wells to background screening levels (BSLs) was conducted to evaluate water quality. BSLs were calculated using concentrations of indicator parameters in upgradient monitoring well MW-206B. The desired statistic to represent the BSL is a one-sided 95 percent confidence interval for the 99th percentile (95/99 upper tolerance limit [UTL]). However, the high frequency of non-detects precluded calculation of the 95/99 UTL for all but barium, which had six detects. For the other parameters, the BSL was based conservatively on the maximum detected concentration or the maximum reporting limit. The final BSL values are presented in Table 3.

The groundwater analytical results from monitoring wells MW-206B and MW-203B (designated as downgradient monitoring wells) were all non-detects, and therefore

below the Permit specific quantitation limits for all indicator parameters. Arsenic was detected in monitoring well MW-201B (0.0063 mg/L) and barium was detected in monitoring well MW-202B (0.110 mg/L). The results of the statistical evaluation, summarized in Attachment 3, suggest that there is no evidence of impacts to groundwater quality.

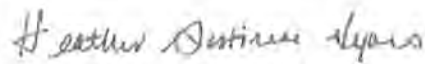
In addition to this report, an electronic digital dataset report in the format specified in Appendix H, Tables 3 and 4 of the Permit will be submitted electronically to the email address specified in the Permit.

Finally, a review of groundwater elevations from monitoring wells installed within the surface impoundment (internal) and monitoring wells installed outside the slurry wall and in both the upper and the lower sand units (external) was completed to ensure an inward hydraulic gradient. Based on the review, the groundwater elevations in the external monitoring wells in the upper sand unit were generally 8.5 feet higher in elevation than the groundwater elevations in the internal monitoring wells, and the groundwater elevations in the external monitoring wells in the lower sand unit were more than 3 feet higher in elevation than the groundwater elevations in the internal monitoring wells, thereby demonstrating an inward hydraulic gradient. A graphical depiction of the elevations is presented on Drawing 2.

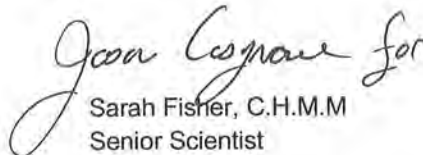
MLC plans to collect groundwater samples the monitoring wells in the Spring of 2011. If you have any questions or comments regarding the enclosed Groundwater Data Statistical Evaluation, please contact Mr. David Favero at 217-522-6714 or either of the undersigned.

Sincerely,

ARCADIS U.S., Inc.



Heather Gastineau-Lyons, L.P.G.
Staff Geologist



Sarah Fisher, C.H.M.M
Senior Scientist

Copies:

David Favero, on behalf of MLC

Attachments:

- Drawing 1 – Site Map
- Drawing 2 – Surface Impoundment October 6, 2010 Groundwater Elevations
- Table 1 – Groundwater Analytical Data
- Table 2 – Upgradient Monitoring Well MW-206B Background Data
- Table 3 – Background Screening Levels
- Attachment 1 – Groundwater Sampling Field Sheets
- Attachment 2 – Laboratory Analytical Report
- Attachment 3 – Statistical Evaluation of Background Groundwater Quality

Certification

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

INR000021436

U.S. EPA I.D. Number

GM Former AGT Division

Facility Name



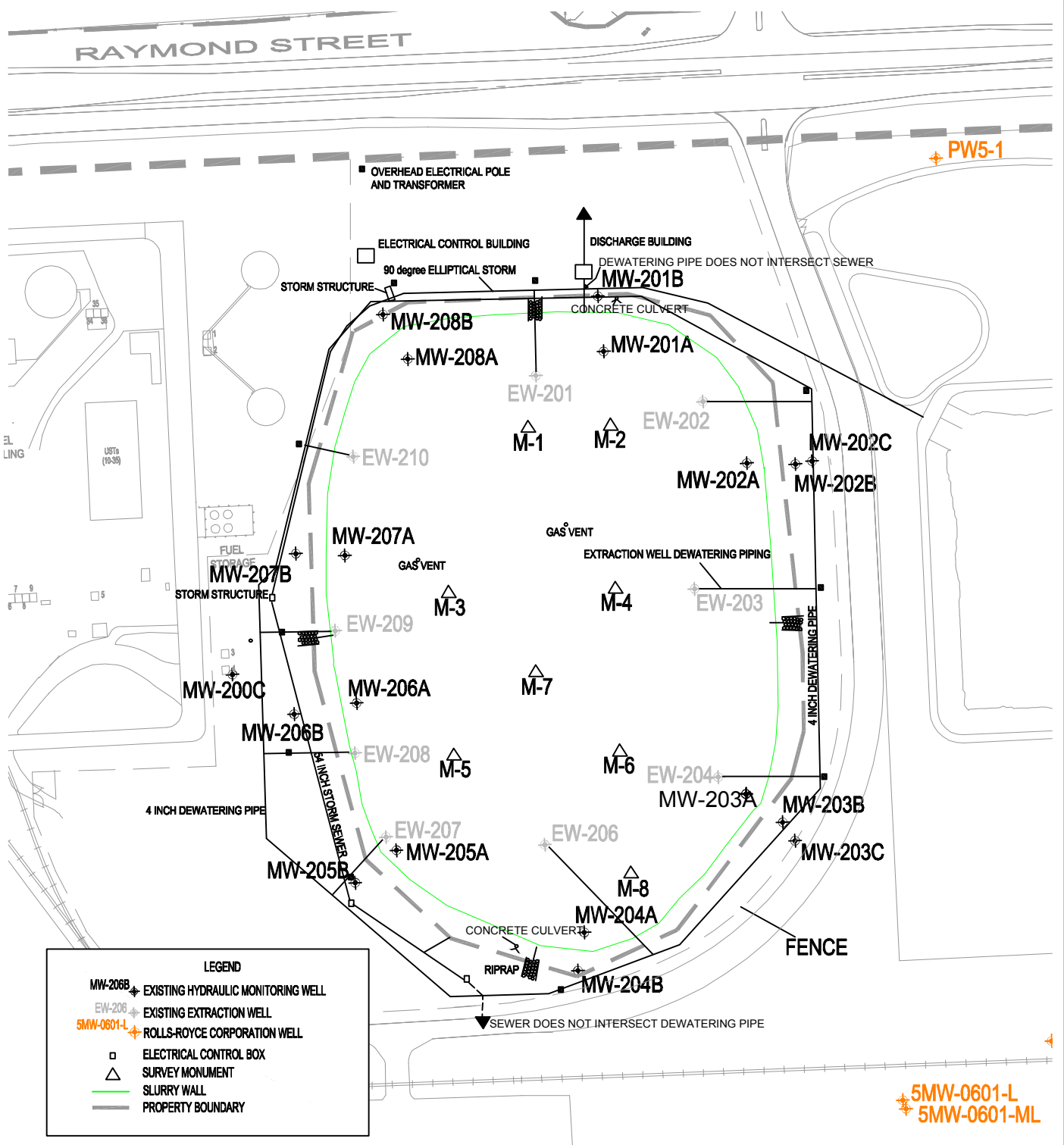
David Favero, P.G., Favero Geosciences

Agent for Motors Liquidation Company (formerly known as General Motors Corporation)

December 23, 2010

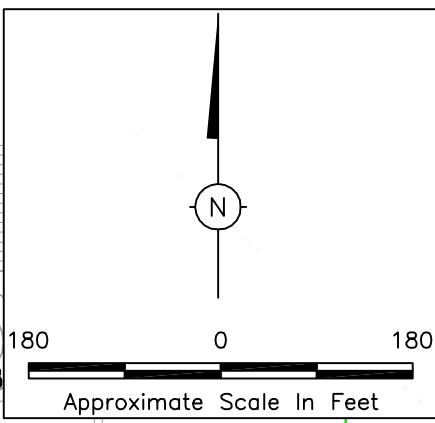
Date

CITY: Indianapolis DIV: GROUP: SER: DR: HGL: PM: J: Casagrande TM: (Or) G: A: PROJECT: TM: C: Motors Liquidation Company (1325 - AGT Surface Impoundment) Semi-Annual Reporting_Surface Impoundment (2010 2nd half) Surface Impoundment Site Map for DF files_100825.dwg LAYOUT: 1 SAVED: 12/29/2010 11:23 AM ACADVER: 17.06 (LMS TECH) PAGES: 17 PLOTTED: 12/29/2010 11:23 AM BY: GASTNEAULYONS, HEATHER



LEGEND

- MW-206B EXISTING HYDRAULIC MONITORING WELL
- EW-208 EXISTING EXTRACTION WELL
- 5MW-0601-L ROLLS-ROYCE CORPORATION WELL
- ELECTRICAL CONTROL BOX
- SURVEY MONUMENT
- SLURRY WALL
- PROPERTY BOUNDARY



NOTE: PIPING AND BUILDING LOCATIONS ARE APPROXIMATE.

MOTORS LIQUIDATION COMPANY
INDIANAPOLIS, INDIANA

SITE MAP

DRAWING

1

Drawing 2. Surface Impoundment October 6, 2010 Groundwater Elevations

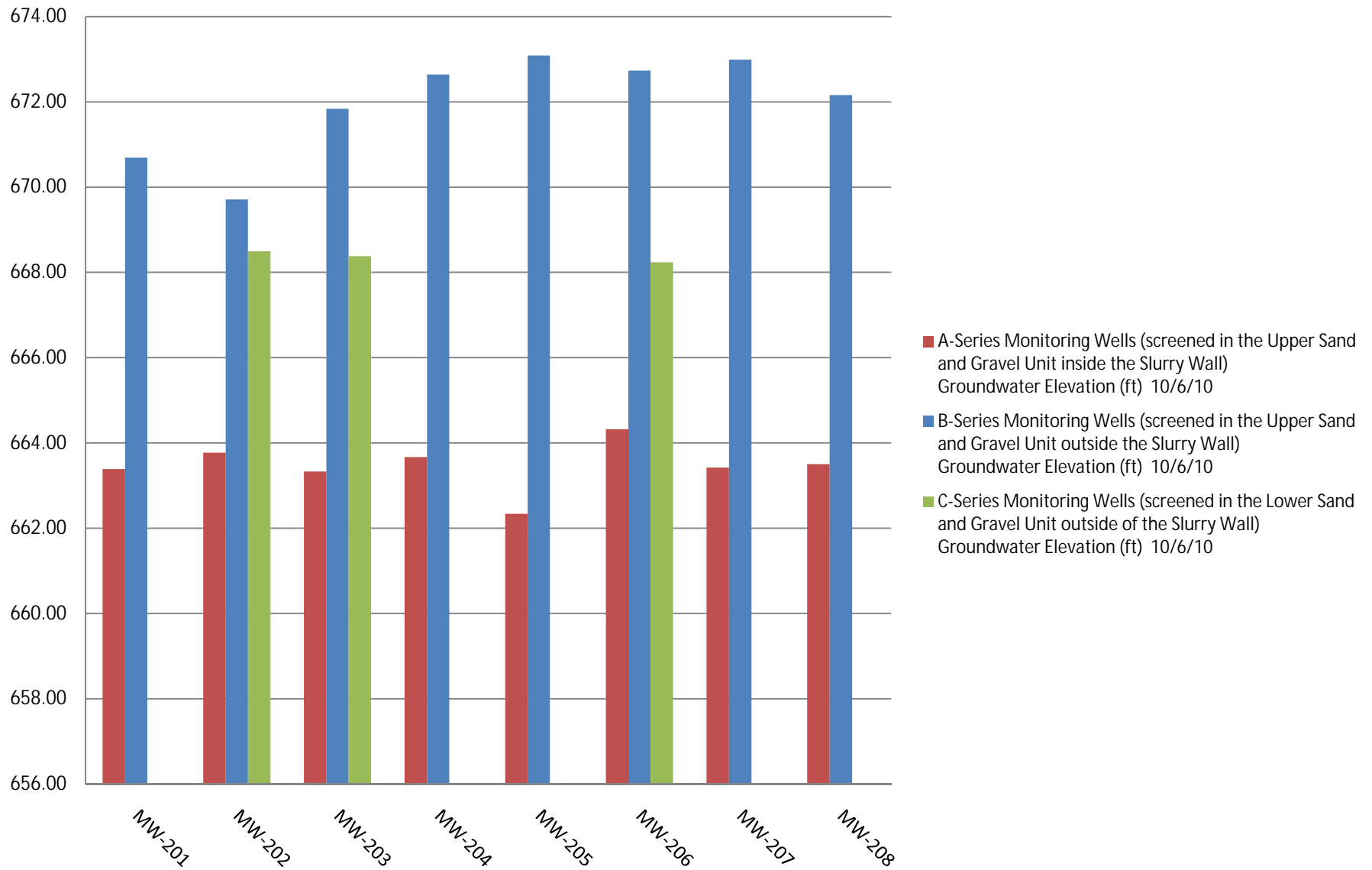


TABLE 1
GROUNDWATER ANALYTICAL DATA
CLOSED HAZARDOUS WASTE SURFACE IMPOUNDMENT
FORMER ALLISON GAS TURBINE DIVISION - PLANT 5
INDIANAPOLIS, INDIANA
INR000021436

Monitoring Well	Sample ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Cyanide
MW-201B	MW-201B (A)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	<0.0100	<0.0500	<0.0200
	MW-201B (B)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	0.0102	<0.0500	0.0253
	MW-201B (C)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	<0.0100	<0.0500	<0.0200
	MW-201B (D)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	<0.0100	<0.0500	<0.0200
	MW-201B (A)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (B)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (C)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (D)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (A)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (B)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (C)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (D)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (A)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (B)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (C)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (D)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (A)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (B)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (C)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (D)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-201B (A)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-201B (B)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-201B (C)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-201B (D)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-201B (A)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-201B (B)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-201B (C)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-201B (D)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-201B (110806)	11/08/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-201B (051607)	05/16/07	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
	MW-201B (111507)	11/15/07	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
	MW-201B (051408)	05/14/08	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
MW-201B (110608)	11/06/08	<0.0100	<0.100	<0.00500	<0.0100	<0.0050	<0.00200	<0.0100	<0.0500	<0.0050	
MW-201B (051409)	05/14/09	<0.0100	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-201B (112309)	11/23/09	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-201B (060410)	06/04/10	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-201B (10202010)	10/20/10	0.0063	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	

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INDIANAPOLIS, INDIANA
INR000021436

Monitoring Well	Sample ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Cyanide
MW-202B	MW-202B (A)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	<0.0100	<0.0500	<0.0200
	MW-202B (B)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	<0.0100	<0.0500	<0.0200
	MW-202B (C)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	<0.0100	<0.0500	0.0209
	MW-202B (D)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	<0.0100	<0.0500	<0.0200
	MW-202B (A)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (B)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (C)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (D)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (A)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (B)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (C)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (D)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (A)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (B)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (C)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (D)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (A)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (B)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (C)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (D)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (A)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	0.0103	<0.0100	<0.0100
	MW-202B (B)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-202B (C)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-202B (D)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-202B (A)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-202B (B)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-202B (C)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-202B (D)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-202B (110806)	11/08/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0100	<0.0200
	MW-202B (051607)	05/16/07	<0.0100	<0.100	<0.00500	0.0359	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
	MW-202B (111507)	11/15/07	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
	MW-202B (051408)	05/14/08	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
MW-202B (110608)	11/06/08	<0.0100	<0.100	<0.00500	<0.0100	<0.0050	<0.00200	<0.0100	<0.0500	<0.0050	
MW-202B (051409)	05/14/09	<0.0100	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-202B (112309)	11/23/09	<0.0100	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-202B (112309)	06/04/10	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-202B (10202010)	10/20/10	<0.0050	0.110	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	

TABLE 1
GROUNDWATER ANALYTICAL DATA
CLOSED HAZARDOUS WASTE SURFACE IMPOUNDMENT
FORMER ALLISON GAS TURBINE DIVISION - PLANT 5
INDIANAPOLIS, INDIANA
INR000021436

Monitoring Well	Sample ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Cyanide
MW-203B	MW-203B (A)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	0.0104	<0.0500	<0.0200
	MW-203B (B)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	<0.0100	<0.0500	<0.0200
	MW-203B (C)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	<0.0100	<0.0500	<0.0200
	MW-203B (D)	05/21/03	<0.0500	<0.100	<0.00500	<0.0500	<0.0500	<0.00200	<0.0100	<0.0500	0.0239
	MW-203B (A)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (B)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (C)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (D)	11/19/03	<0.0100	<0.0500	<0.001	<0.0200	<0.005	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (A)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (B)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (C)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (D)	05/25/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (A)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (B)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (C)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (D)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (A)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (B)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (C)	05/09/05	<0.0100	<0.0500	0.00132	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (D)	05/09/05	<0.0100	<0.0500	<0.00100	<0.0200	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (A)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-203B (B)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-203B (C)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-203B (D)	11/10/05	<0.0100	<0.100	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-203B (A)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-203B (B)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-203B (C)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-203B (D)	05/17/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.05	<0.0200
	MW-203B (110806)	11/08/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0100	<0.0200
	MW-203B (051607)	05/16/07	<0.0100	<0.100	<0.00500	0.0147	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
	MW-203B (111507)	11/15/07	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
	MW-203B (051408)	05/14/08	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
	MW-203B (110608)	11/06/08	<0.0100	<0.100	<0.00500	<0.0100	<0.0050	<0.00200	<0.0100	<0.0500	<0.0050
MW-203B (051409)	05/14/09	<0.0100	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-203B (112309)	11/23/09	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-203B (060410)	06/04/10	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-203B (10202010)	10/20/10	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-203B (10202010) FD	10/20/10	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	

TABLE 1

**GROUNDWATER ANALYTICAL DATA
CLOSED HAZARDOUS WASTE SURFACE IMPOUNDMENT
FORMER ALLISON GAS TURBINE DIVISION - PLANT 5
INDIANAPOLIS, INDIANA
INR000021436**

Monitoring Well	Sample ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Cyanide
MW-206B	MW-206B (A)	05/21/03	<0.0100*	<0.100	<0.00500	<0.0100*	<0.0100*	<0.00200	<0.0100	<0.0500	<0.0200
	MW-206B (B)	05/21/03	<0.0100*	<0.100	<0.00500	<0.0100*	<0.0100*	<0.00200	<0.0100	<0.0500	0.214
	MW-206B (C)	05/21/03	<0.0100*	<0.100	<0.00500	<0.0100*	<0.0100*	<0.00200	<0.0100	<0.0500	<0.0200
	MW-206B (D)	05/21/03	<0.0100*	<0.100	<0.00500	<0.0100*	<0.0100*	<0.00200	<0.0100	<0.0500	<0.0200
	MW-206B (A)	11/19/03	<0.0100	<0.0500	<0.00100	<0.0100*	<0.0050*	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (B)	11/19/03	<0.0100	<0.0500	<0.00100	<0.0100*	<0.0050*	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (C)	11/19/03	<0.0100	<0.0500	<0.00100	<0.0100*	<0.0050*	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (D)	11/19/03	<0.0100	<0.0500	<0.00100	<0.0100*	<0.0050*	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (A)	05/25/04	<0.0100	0.0885	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (B)	05/25/04	<0.0100	0.0884	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (C)	05/25/04	<0.0100	0.0875	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (D)	05/25/04	<0.0100	0.0889	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (A)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (B)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (C)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (D)	11/11/04	<0.0100	<0.0500	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (A)	05/09/05	<0.0100	0.0989	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (B)	05/09/05	<0.0100	0.0942	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (C)	05/09/05	<0.0100	0.0967	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (D)	05/09/05	0.0162	<0.0500	<0.00100	<0.0100*	<0.00500	<0.00200	<0.0100	<0.0100	<0.0200
	MW-206B (A)	11/10/05	<0.0100	0.0839	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-206B (B)	11/10/05	<0.0100	0.0802	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-206B (C)	11/10/05	<0.0100	0.0804	<0.00500	<0.0100	<0.00500	<0.00020	0.0114	<0.0100	<0.0100
	MW-206B (D)	11/10/05	<0.0100	0.0793	<0.00500	<0.0100	<0.00500	<0.00020	<0.0100	<0.0100	<0.0100
	MW-206B (A)	05/17/06	<0.0100	0.1	<0.00500	0.0266	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-206B (B)	05/17/06	<0.0100	0.0986	<0.00500	0.055	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-206B (C)	05/17/06	<0.0100	0.0966	<0.00500	0.0176	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-206B (D)	05/17/06	<0.0100	<0.100	<0.00500	0.0140	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-206B (110806)	11/08/06	<0.0100	<0.100	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0200
	MW-206B (051607)	05/16/07	<0.0100	0.112	<0.00500	0.0111	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
	MW-206B (111507)	11/15/07	<0.0100	<0.100	<0.00500	0.0760	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
	MW-206B (051408)	05/14/08	<0.0100	0.114	<0.00500	<0.0100	<0.0100	<0.00200	<0.0100	<0.0500	<0.0100
MW-206B (110608)	11/06/08	<0.0100	<0.100	<0.00500	<0.0100	<0.0050	<0.00200	<0.0100	<0.0500	<0.0050	
MW-206B (051409)	05/14/09	<0.0100	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-206B (112309)	11/23/09	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-206B(060410)	06/04/10	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
MW-206B (10202010)	10/20/10	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	

Notes: * Re-evaluation of Reporting limits provided by Pace Analytical Services, Inc. (letter dated April 28, 2006)
Table includes results for most recent 16 valid sample observations.

TABLE 2

**UPGRADIENT MONITORING WELL MW-206B BACKGROUND DATA
 CLOSED HAZARDOUS WASTE SURFACE IMPOUNDMENT
 FORMER ALLISON GAS TURBINE DIVISION - PLANT 5
 INDIANAPOLIS, INDIANA
 INR000021436**

Monitoring Well	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Cyanide
MW-206B	5/21/2003	<0.0100*	<0.100	<0.0050	<0.0100*	<0.0100	<0.0020	<0.0100	<0.0500	0.214
	11/19/2003	<0.0100	<0.0500	<0.0010	<0.0100*	<0.0050*	<0.0020	<0.0100	<0.0100	<0.0200
	5/25/2004	<0.0100	0.0883	<0.0010	<0.0100*	<0.0050	<0.0020	<0.0100	<0.0100	<0.0200
	11/11/2004	<0.0100	<0.0500	<0.0010	<0.0100*	<0.0050	<0.0020	<0.0100	<0.0100	<0.0200
	5/9/2005	0.0162	0.096	<0.0010	<0.0100*	<0.0050	<0.0020	<0.0100	<0.0100	<0.0200
	11/10/2005	<0.0100	0.0810	<0.0050	<0.0100	<0.0050	<0.0002	0.0114	<0.0100	<0.0100
	5/17/2006	<0.0100	0.0982	<0.0050	0.0283	<0.0100	<0.0020	<0.0100	<0.0500	<0.0200
	11/8/2006	<0.0100	<0.100	<0.0050	<0.0100	<0.0100	<0.0020	<0.0100	<0.0500	<0.0200
	5/16/2007	<0.0100	0.112	<0.0050	0.0111	<0.0100	<0.0020	<0.0100	<0.0500	<0.0100
	11/15/2007	<0.0100	<0.100	<0.0050	0.076	<0.0100	<0.0020	<0.0100	<0.0500	<0.0100
	5/14/2008	<0.0100	0.114	<0.0050	<0.0100	<0.0100	<0.0020	<0.0100	<0.0500	<0.0100
	11/6/2008	<0.0100	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.0050
	5/14/2009	<0.0100	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010
	11/23/2009	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010
6/4/2010	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	
10/20/2010	<0.0050	<0.100	<0.0050	<0.0100	<0.0050	<0.0020	<0.0100	<0.0500	<0.010	

Estimated Quantitation Limit 0.0100 0.100 0.0050 0.0100 0.0100 0.0020 0.0100 0.0500 0.0200

Notes: * Re-evaluation of Reporting limits provided by Pace Analytical Services, Inc. (letter dated April 28, 2006)

TABLE 3

**BACKGROUND SCREENING LEVELS
CLOSED HAZARDOUS WASTE SURFACE IMPOUNDMENT
FORMER ALLISON GAS TURBINE DIVISION - PLANT 5
INDIANAPOLIS, INDIANA
INR000021436**

Analyte	Background Wells (MW-206B)					Compliance Wells (MW-201B, -202B, -203B)			
	Detects / N	Maximum (mg/L)	95/99 UTL (mg/L)	Method	BSL (mg/L) ¹	Maximum (mg/L)	Well	2010 Sampling Dates	> BSL ?
Arsenic	1 / 16	0.016	NA	NA	0.02	0.0063	MW-201B	10/20/10	No
Barium	6 / 16	0.114	0.128	Kaplan-Meier ²	0.13	0.11	MW-202B	10/20/10	No
Cadmium	0 / 16	< 0.005	NA	NA	0.01	< 0.005	All 3 wells	10/20/10	No
Chromium	3 / 16	0.076	NA	NA	0.08	< 0.01	All 3 wells	10/20/10	No
Lead	0 / 16	< 0.01	NA	NA	0.01	< 0.005	All 3 wells	10/20/10	No
Mercury	0 / 16	< 0.002	NA	NA	0.00	< 0.002	All 3 wells	10/20/10	No
Selenium	1 / 16	0.0114	NA	NA	0.01	< 0.01	All 3 wells	10/20/10	No
Silver	0 / 16	< 0.05	NA	NA	0.05	< 0.05	All 3 wells	10/20/10	No
Cyanide	1 / 16	0.214	NA	NA	0.21	< 0.01	All 3 wells	10/20/10	No

Abbreviations:

< = nondetect, value equal to estimated quantitation limit (EQL)

95/99 UTL = upper tolerance limit based on upper 95 percent confidence interval for 99th percentile

BSL = background screening level

N = sample size

Notes:

¹ If detects = 0, the maximum reporting limit of nondetects is used as the BSL. If detects < 5, BSL = maximum detect. If detects ≥ 5, BSL= 95/99 UTL. BSL calculated with the most recent 16 samples only.

² Data are left censored with n=16 and detects = 6, normally distributed with mild skew (standard deviation of log of detects ≤ 1), which supports use of Kaplan-Meier 95/99 UTL instead of a Poisson UTL.

ARCADIS

Attachment 1

Groundwater Sampling Field
Sheets

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: MLC - Surface Impoundment
 Ref. No.: IN000257

Date: 10/20/10
 Personnel: Wes Kuhn
Scott Matekaj

Monitoring Well Data:

Well No.: MW-202B
 Measurement Point: T0C - 691.47
 Constructed Well Depth (ft): 37.71
 Measured Well Depth (ft): 37.51
 Depth of Sediment (ft): 6.52.52
 Screen Length (ft): 10'
 Depth to Pump Intake (ft)⁽¹⁾: 30'
 Well Diameter, D (in): 2"
 Well Screen Volume, V_s (mL)⁽²⁾: 6200
 Initial Depth to Water (ft): 22.14

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1030											
1037	~200	22.14		7.51	19.55	964.5	28	1.07	130		
1043	~200	22.14		7.50	19.81	970.7	4	0.88	100.9		
1043	cleared	flow through cell	Missed Sample 3								
1047:00	~200	22.12		7.49	20.09	975.3	-31	0.83	27.72		
1055	~200	22.13		7.49	20.21	990.1	-43	0.70	17.17		
1100	~200	22.14		7.49	20.28	983.3	-49	0.64	10.30		
1105	~200	22.14		7.49	20.42	987.7	-53	0.60	7.223		
1110	~200	22.14		7.49	20.44	988.6	-57	0.57	5.862		
1115	~200	22.14		7.49	20.56	991.3	-60	0.55	4.546		
1120	~200	22.14		7.49	20.70	995.7	-63	0.54	3.325	2.56m	

Sampled @ 1125

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12) \times (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .

Figure 3: Monitoring Well Record for Low-Flow Purging. Resubmitted August 2006

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: MLC Surface Impoundment
 Ref. No.: IN 000 297

Date: 10/20/10
 Personnel: Wes Kubz
Scott Matkoff

Monitoring Well Data:

Well No.: MW-0203B
 Measurement Point: 706-691.65
 Constructed Well Depth (ft): 34.30'
 Measured Well Depth (ft): 34.30'
 Depth of Sediment (ft): 657.35
 Screen Length (ft): 10'
 Depth to Pump Intake (ft)⁽¹⁾: 662.35
 Well Diameter, D (in): 2"
 Well Screen Volume, V_s (mL)⁽²⁾: 6200
 Initial Depth to Water (ft): 20.09

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1145											
1154	~200	20.09		7.15	16.45	931.9	43	1.25	40.17		
1159	~200	20.09		7.16	16.55	932.7	20	1.13	27.96		
1204	~200	20.09		7.16	16.52	932.1	19	1.01	18.33		
1209	~200	20.09		7.16	16.61	940.9	8	0.93	11.51		
1214	~200	20.09		7.16	16.61	943.7	0	0.88	5.6		
1219	~200	20.09		7.16	16.60	944.3	-11	0.87	4.084		
1224	~200	20.09		7.16	16.60	945.7	-20	0.80	3.218		
1229	~200	20.09		7.16	16.67	948.6	-25	0.79	2.257		
1234	~200	20.09		7.16	16.64	952.2	-28	0.78	1.775		
1239	~200	20.09		7.17	16.68	949.2	-39	0.80	1.562	2.5 gal	

Notes: Sample at 1245 **FB-1 1300** Field Dup 1

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = P(D/2)^2(5 \times 12) \times (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: MLL - Surface Impoundment
 Ref. No.: IN000297

Date: 10/20/10
 Personnel: Wes Kuhn
Scott Matelf

Monitoring Well Data:

Well No.: MW-201B
 Measurement Point: TOC
 Constructed Well Depth (ft): ~~38.45~~
 Measured Well Depth (ft): 38.45
 Depth of Sediment (ft): _____

Screen Length (ft): 10'
 Depth to Pump Intake (ft)⁽¹⁾: -32'
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: _____
 Initial Depth to Water (ft): _____

Drawdown

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (µS/cm)	ORP (µV)	DO (µg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
0920					Start	Pump					
0925	~300 mL/min	22.67		7.12	21.32	871.4	178	3.74	-47.09		
0930	~300 mL/min	22.67		7.47	21.80	868.9	155	3.56	-58.13		
0940	~300 mL/min	22.67		7.64	22.13	872.9	67	3.80	1.372		
0945	~300 mL/min	22.67		7.66	22.25	875.9	52	3.49	0.7351		
0950	~300 mL/min	22.67		7.67	22.24	875.4	40	3.49	0.7544		
0955	~300 mL/min	22.67		7.68	22.32	878.4	43	3.48	0.4576		
1000	~300 mL/min	22.67		7.68	22.38	877.5	41	3.49	0.0898	2.5 gal	

Sample at 1005

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = P \cdot (D/2)^2 \cdot \pi \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p / V_s .

17300 (2) PART C FMC-06-1-03
 Revision 3, October 29, 2002

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: MLC - Surface Impoundment
 Ref. No.: IN000297

Date: 10/26/10
 Personnel: Wes Kuhn
Scott Maloney

Monitoring Well Data:

Well No.: MW-206B Screen Length (ft): 10'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 30'
 Constructed Well Depth (ft): 37.73 Well Diameter, D (in): 2"
 Measured Well Depth (ft): 36.73 Well Screen Volume, V_s (mL)⁽²⁾:
 Depth of Sediment (ft): .07 Initial Depth to Water (ft): 20.73

Drawdown

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (µg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1312											
1322	≈ 200	20.73		7.14	19.03	883.7	8	0.44	13.19		
1327	≈ 200	20.73		7.15	18.69	876.7	-10	0.27	7.600		
1332	≈ 200	20.73		7.16	18.60	877.2	-18	0.20	8.707		
1337	≈ 200	20.73		7.16	18.61	876.0	-22	0.16	7.792		
1342	≈ 200	20.13		7.15	18.54	877.4	-26	0.14	3.241		
1347	≈ 200	20.75		7.15	18.39	875.1	-31	0.12	2.601		
1352	≈ 200	20.75		7.15	18.49	876.0	-34	0.10	16.05		
1357	≈ 200	20.75		7.15	18.39	876.5	-37	0.07	1.076		
1406	≈ 200	20.75		7.15	18.21	873.0	-38	0.06	1.995	2 gal	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = P \cdot (D/2)^2 \cdot (5 \cdot 12)^2 \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p / V_s .

Sampled @ 410 MW-206B and MS/MSD

** 1357 the TSSOL
 Don't take sample also
 started again
 due to high turbidity
 on 1352 sample, next
 reading at 1406*

Figure 3: Monitoring Well Record for Low-Flow Purging.

Resubmitted August 2006

ARCADIS

Attachment 2

Laboratory Analytical Report

November 03, 2010

Ms. Sarah Fisher
Arcadis U.S., Inc.
251 E. Ohio Street
Suite 800
Indianapolis, IN 46204

RE: Project: MLC Surface Impoundment
Pace Project No.: 5042596

Dear Ms. Fisher:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Donna Spyker

donna.spyker@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MLC Surface Impoundment

Pace Project No.: 5042596

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5042596001	MW-201B(102010)	Water	10/20/10 10:05	10/20/10 15:34
5042596002	MW-202B(102010)	Water	10/20/10 11:25	10/20/10 15:34
5042596003	MW-203B(102010)	Water	10/20/10 12:45	10/20/10 15:34
5042596004	FD-1(102010)-WK	Water	10/20/10 08:00	10/20/10 15:34
5042596005	EB-1(102010)-WK	Water	10/20/10 13:00	10/20/10 15:34
5042596006	MW-206B(102010)	Water	10/20/10 14:10	10/20/10 15:34

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SAMPLE ANALYTE COUNT

Project: MLC Surface Impoundment

Pace Project No.: 5042596

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5042596001	MW-201B(102010)	EPA 6010	FRW	7
		EPA 7470	RAK	1
		EPA 9012	ILP	1
5042596002	MW-202B(102010)	EPA 6010	FRW	7
		EPA 7470	RAK	1
		EPA 9012	ILP	1
5042596003	MW-203B(102010)	EPA 6010	FRW	7
		EPA 7470	RAK	1
		EPA 9012	ILP	1
5042596004	FD-1(102010)-WK	EPA 6010	FRW	7
		EPA 7470	RAK	1
		EPA 9012	ILP	1
5042596005	EB-1(102010)-WK	EPA 6010	FRW	7
		EPA 7470	RAK	1
		EPA 9012	ILP	1
5042596006	MW-206B(102010)	EPA 6010	FRW	7
		EPA 7470	RAK	1
		EPA 9012	ILP	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MLC Surface Impoundment

Pace Project No.: 5042596

Sample: MW-201B(102010)		Lab ID: 5042596001	Collected: 10/20/10 10:05	Received: 10/20/10 15:34	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic, Dissolved	6.3 ug/L		5.0	1	10/26/10 00:00	10/27/10 21:49	7440-38-2	
Barium, Dissolved	ND ug/L		100	1	10/26/10 00:00	10/27/10 21:49	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 21:49	7440-43-9	
Chromium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 21:49	7440-47-3	
Lead, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 21:49	7439-92-1	
Selenium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 21:49	7782-49-2	
Silver, Dissolved	ND ug/L		50.0	1	10/26/10 00:00	10/27/10 21:49	7440-22-4	
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND ug/L		2.0	1	10/27/10 00:00	10/28/10 09:32	7439-97-6	
9012 Cyanide, Total		Analytical Method: EPA 9012						
Cyanide	ND mg/L		0.010	1		10/28/10 18:13	57-12-5	

ANALYTICAL RESULTS

Project: MLC Surface Impoundment

Pace Project No.: 5042596

Sample: MW-202B(102010)		Lab ID: 5042596002	Collected: 10/20/10 11:25	Received: 10/20/10 15:34	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic, Dissolved	ND	ug/L	5.0	1	10/26/10 00:00	10/27/10 21:55	7440-38-2	
Barium, Dissolved	110	ug/L	100	1	10/26/10 00:00	10/27/10 21:55	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	1	10/26/10 00:00	10/27/10 21:55	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	10/26/10 00:00	10/27/10 21:55	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	10/26/10 00:00	10/27/10 21:55	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	1	10/26/10 00:00	10/27/10 21:55	7782-49-2	
Silver, Dissolved	ND	ug/L	50.0	1	10/26/10 00:00	10/27/10 21:55	7440-22-4	
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND	ug/L	2.0	1	10/27/10 00:00	10/28/10 09:33	7439-97-6	
9012 Cyanide, Total		Analytical Method: EPA 9012						
Cyanide	ND	mg/L	0.010	1		10/28/10 18:14	57-12-5	

ANALYTICAL RESULTS

Project: MLC Surface Impoundment

Pace Project No.: 5042596

Sample: MW-203B(102010)		Lab ID: 5042596003	Collected: 10/20/10 12:45	Received: 10/20/10 15:34	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:01	7440-38-2	
Barium, Dissolved	ND ug/L		100	1	10/26/10 00:00	10/27/10 22:01	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:01	7440-43-9	
Chromium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:01	7440-47-3	
Lead, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:01	7439-92-1	
Selenium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:01	7782-49-2	
Silver, Dissolved	ND ug/L		50.0	1	10/26/10 00:00	10/27/10 22:01	7440-22-4	
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND ug/L		2.0	1	10/27/10 00:00	10/28/10 09:35	7439-97-6	
9012 Cyanide, Total		Analytical Method: EPA 9012						
Cyanide	ND mg/L		0.010	1		10/28/10 18:15	57-12-5	

ANALYTICAL RESULTS

Project: MLC Surface Impoundment

Pace Project No.: 5042596

Sample: FD-1(102010)-WK		Lab ID: 5042596004	Collected: 10/20/10 08:00	Received: 10/20/10 15:34	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:06	7440-38-2	
Barium, Dissolved	ND ug/L		100	1	10/26/10 00:00	10/27/10 22:06	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:06	7440-43-9	
Chromium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:06	7440-47-3	
Lead, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:06	7439-92-1	
Selenium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:06	7782-49-2	
Silver, Dissolved	ND ug/L		50.0	1	10/26/10 00:00	10/27/10 22:06	7440-22-4	
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND ug/L		2.0	1	10/27/10 00:00	10/28/10 09:36	7439-97-6	
9012 Cyanide, Total		Analytical Method: EPA 9012						
Cyanide	ND mg/L		0.010	1		10/28/10 18:16	57-12-5	

ANALYTICAL RESULTS

Project: MLC Surface Impoundment

Pace Project No.: 5042596

Sample: EB-1(102010)-WK		Lab ID: 5042596005	Collected: 10/20/10 13:00	Received: 10/20/10 15:34	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:12	7440-38-2	
Barium, Dissolved	ND ug/L		100	1	10/26/10 00:00	10/27/10 22:12	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:12	7440-43-9	
Chromium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:12	7440-47-3	
Lead, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:12	7439-92-1	
Selenium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:12	7782-49-2	
Silver, Dissolved	ND ug/L		50.0	1	10/26/10 00:00	10/27/10 22:12	7440-22-4	
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND ug/L		2.0	1	10/27/10 00:00	10/28/10 09:37	7439-97-6	
9012 Cyanide, Total		Analytical Method: EPA 9012						
Cyanide	ND mg/L		0.010	1		10/28/10 18:17	57-12-5	

ANALYTICAL RESULTS

Project: MLC Surface Impoundment

Pace Project No.: 5042596

Sample: MW-206B(102010)	Lab ID: 5042596006	Collected: 10/20/10 14:10	Received: 10/20/10 15:34	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:18	7440-38-2	
Barium, Dissolved	ND ug/L		100	1	10/26/10 00:00	10/27/10 22:18	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:18	7440-43-9	
Chromium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:18	7440-47-3	
Lead, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:18	7439-92-1	
Selenium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:18	7782-49-2	
Silver, Dissolved	ND ug/L		50.0	1	10/26/10 00:00	10/27/10 22:18	7440-22-4	
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND ug/L		2.0	1	10/27/10 00:00	10/28/10 09:39	7439-97-6	
9012 Cyanide, Total		Analytical Method: EPA 9012						
Cyanide	ND mg/L		0.010	1		10/28/10 18:18	57-12-5	

QUALITY CONTROL DATA

Project: MLC Surface Impoundment

Pace Project No.: 5042596

QC Batch: MPRP/6587 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Associated Lab Samples: 5042596001, 5042596002, 5042596003, 5042596004, 5042596005, 5042596006

METHOD BLANK: 499472 Matrix: Water
 Associated Lab Samples: 5042596001, 5042596002, 5042596003, 5042596004, 5042596005, 5042596006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	5.0	10/27/10 21:15	
Barium, Dissolved	ug/L	ND	100	10/27/10 21:15	
Cadmium, Dissolved	ug/L	ND	5.0	10/27/10 21:15	
Chromium, Dissolved	ug/L	ND	10.0	10/27/10 21:15	
Lead, Dissolved	ug/L	ND	5.0	10/27/10 21:15	
Selenium, Dissolved	ug/L	ND	10.0	10/27/10 21:15	
Silver, Dissolved	ug/L	ND	50.0	10/27/10 21:15	

LABORATORY CONTROL SAMPLE: 499473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	1030	103	80-120	
Barium, Dissolved	ug/L	1000	1010	101	80-120	
Cadmium, Dissolved	ug/L	1000	1040	104	80-120	
Chromium, Dissolved	ug/L	1000	1020	102	80-120	
Lead, Dissolved	ug/L	1000	1020	102	80-120	
Selenium, Dissolved	ug/L	1000	1040	104	80-120	
Silver, Dissolved	ug/L	500	479	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 499474 499475

Parameter	Units	5042596006		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Arsenic, Dissolved	ug/L	ND	1000	1000	1000	1060	1070	106	107	75-125	1	20
Barium, Dissolved	ug/L	ND	1000	1000	1000	1040	1060	96	98	75-125	2	20
Cadmium, Dissolved	ug/L	ND	1000	1000	1000	1020	1020	102	102	75-125	.7	20
Chromium, Dissolved	ug/L	ND	1000	1000	1000	1010	1010	100	101	75-125	.5	20
Lead, Dissolved	ug/L	ND	1000	1000	1000	1010	1010	101	101	75-125	.5	20
Selenium, Dissolved	ug/L	ND	1000	1000	1000	1050	1060	105	106	75-125	.9	20
Silver, Dissolved	ug/L	ND	500	500	500	451	402	90	80	75-125	12	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 499476 499477

Parameter	Units	5042683008		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Arsenic, Dissolved	ug/L	9.0	1000	1000	1000	1080	1080	107	107	75-125	.05	20
Barium, Dissolved	ug/L	ND	1000	1000	1000	1030	1030	98	99	75-125	.3	20
Cadmium, Dissolved	ug/L	ND	1000	1000	1000	1020	1020	102	102	75-125	.04	20

Date: 11/03/2010 12:59 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MLC Surface Impoundment

Pace Project No.: 5042596

Parameter	Units	5042683008		499476		499477		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Chromium, Dissolved	ug/L	ND	1000	1000	997	995	100	100	75-125	.1	20			
Lead, Dissolved	ug/L	ND	1000	1000	1020	1020	102	102	75-125	0	20			
Selenium, Dissolved	ug/L	ND	1000	1000	1060	1060	105	106	75-125	.8	20			
Silver, Dissolved	ug/L	ND	500	500	470	457	94	91	75-125	3	20			

QUALITY CONTROL DATA

Project: MLC Surface Impoundment

Pace Project No.: 5042596

QC Batch: MERP/2904 Analysis Method: EPA 7470
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
 Associated Lab Samples: 5042596001, 5042596002, 5042596003, 5042596004, 5042596005, 5042596006

METHOD BLANK: 499694 Matrix: Water
 Associated Lab Samples: 5042596001, 5042596002, 5042596003, 5042596004, 5042596005, 5042596006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	2.0	10/28/10 09:24	

LABORATORY CONTROL SAMPLE: 499695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 499696 499697

Parameter	Units	5042596006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.1	4.9	102	99	75-125	4	20	

QUALITY CONTROL DATA

Project: MLC Surface Impoundment

Pace Project No.: 5042596

QC Batch: WETA/5688

Analysis Method: EPA 9012

QC Batch Method: EPA 9012

Analysis Description: 9012 Cyanide, Total

Associated Lab Samples: 5042596001, 5042596002, 5042596003, 5042596004, 5042596005, 5042596006

METHOD BLANK: 500257

Matrix: Water

Associated Lab Samples: 5042596001, 5042596002, 5042596003, 5042596004, 5042596005, 5042596006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	10/28/10 18:11	

LABORATORY CONTROL SAMPLE: 500258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.2	0.18	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 500259

500260

Parameter	Units	5042596006		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Cyanide	mg/L	ND	.2	.2	.2	0.18	0.20	90	102	75-125	12	20

QUALIFIERS

Project: MLC Surface Impoundment

Pace Project No.: 5042596

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1/10/05

Section A
 Required Client Information:
 Company: **ARCADIS**
 Address: **251 E. Ohio St. Ste. 806**
 Indianapolis, IN
 Email To: **Sarah.Fisher@arcadis-us.com**
 Phone: **317-231-6500** Fax: **317-231-6514**
 Requested Due Date/TAT: **STD**

Section B
 Required Project Information:
 Report To: **Sarah Fisher**
 Copy To:
 Purchase Order No.:
 Project Name: **MCC Surface Improvement**
 Project Number: **IN000297.2010.00010**

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Project Manager:
 Pace Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
 Site Location: **IN**
 STATE: **IN**

Page: **1** of **1**
1314231

ITEM #	Matrix Codes MATRIX / CODE	Sample ID (A-Z, 0-9 / -)	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB						
1	Drinking Water	MW-201B(102010)	10/20/10	1005	G		Unpreserved	X		001
2	Water	MW-202B(102010)		1125	G		HCl	X		002
3	Waste Water	MW-203B(102010)		1245	G		NaOH	X		003
4	Product	FD-1(102010) - WX			G		HNO ₃	X		004
5	Soil/Solid	EB-1(102010) - WX		1300	G		H ₂ SO ₄	X		005
6	Oil	MW-206B(102010)		1410	G		Other	X		MS/MSD 006
7	Wipe									
8	Air									
9	Tissue									
10	Other									
11										
12										

ADDITIONAL COMMENTS
 Lab To Filter Dissolved Metals
 Level III DATA Pack

RELINQUISHED BY / AFFILIATION
 Wesley Kim
 DATE: 10/20/10 1534

ACCEPTED BY / AFFILIATION
 Wesley Kim
 DATE: 10/20/10 3:34pm

DATE
 10/20/10

TIME
 1534

DATE SIGNED
 10/20/10

DATE SIGNED (MM/DD/YY)
 10/20/10

Temp in °C

Received on

Sealed Cooler

Custody

Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wesley Kim

SIGNATURE of SAMPLER: Wesley Kim

DATE SIGNED (MM/DD/YY): 10/20/10

ORIGINAL

WT Client Del.

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Face Analytical

Client Name: Arcadis

Project # 3042596

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 2346ABCDE Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 2.10C Ice Visible in Sample Containers: yes no
Temp should be above freezing to 6°C

Date and Initials of person examining contents: DL 10/20/10

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	5.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, W-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Project Manager Review		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 10/20/10

Sample Container Count

CLIENT: Arcadis



COC PAGE 1 of 1
 COC ID# 1314231

Project # 042576

Sample Line	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Container Codes	DG9H	AG1U	WGFU	R	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
	40mL HCL amber vial	1liter unpreserved amber glass	4oz clear soil jar	terra core kit	500mL HNO3 plastic	500mL unpreserved plastic	500mL H2SO4 plastic	250mL HNO3 plastic	250mL unpreserved plastic	250mL H2SO4 plastic	1 liter unpreserved plastic	1 liter HNO3 plastic	DG9P
	Air Filter	AG1H	AG1S	AG1T	AG2N	AG2S	AG2U	AG3U	BG1H	BG1S	BG1T	BG1U	DG9S
	1 liter HCL amber glass	1 liter H2SO4 amber glass	1 liter Na Thiosulfate amber gl	500mL HNO3 amber glass	500mL H2SO4 amber glass	500mL unpreserved amber gla	250mL unpreserved amber gla	1 liter HCL clear glass	1 liter H2SO4 clear glass	1 liter Na Thiosulfate clear gla	1 liter unpreserved glass	1 liter NaOH, Asc Acid plastic	DG9T
	500mL HNO3 plastic	500mL unpreserved plastic	500mL H2SO4 plastic	500mL unpreserved amber gla	500mL H2SO4 amber glass	500mL unpreserved amber gla	250mL unpreserved amber gla	1 liter HCL clear glass	1 liter H2SO4 clear glass	1 liter Na Thiosulfate clear gla	1 liter unpreserved glass	500mL NaOH, Asc Acid plastic	DG9U
	40mL TSP amber vial	40mL H2SO4 amber vial	40mL Na Thio amber vial	40mL unpreserved amber wide	Summa Can	40mL HCL clear vial	40mL Na Thio. clear vial	40mL unpreserved clear vial	Headspace septa vial & HCL	4oz wide jar w/hexane wipe	Ziploc Bag	40mL MeOH clear vial	ZPLC

ICP Metals 6010B

Project Number 5042596

Initials/ Date Compiled act 11-30-10

Section 1: Prep and Analytical Information

- * *Sample Preparation Logs*
- * *Sample Analysis Logs*
- * *QC Summary Sheets*

Analyst	Sample ID	Client	Sample Type	QC Batch	Initial Wt./Vol (g or ml)	Final Vol. (ml)	Project No.	Comments	Method
LLB	499472	In-house QC Account	BLANK	6587	50	50			3010A ICP
LLB	499473	In-house QC Account	LCS	6587	50	50			3010A ICP
LLB	499474	In-house QC Account	MS	6587	50	50			3010A ICP
LLB	499475	In-house QC Account	MSD	6587	50	50			3010A ICP
LLB	499476	In-house QC Account	MS	6587	50	50			3010A ICP
LLB	499477	In-house QC Account	MSD	6587	50	50			3010A ICP
LLB	5042475034	Arcadis U.S., Inc.	PS	6587	50	50	5042475	LE#4	3010A ICP
LLB	5042475036	Arcadis U.S., Inc.	PS	6587	50	50	5042475		3010A ICP
LLB	5042596001	Arcadis U.S., Inc.	PS	6587	50	50	5042596		3010A ICP
LLB	5042596002	Arcadis U.S., Inc.	PS	6587	50	50	5042596		3010A ICP
LLB	5042596003	Arcadis U.S., Inc.	PS	6587	50	50	5042596		3010A ICP
LLB	5042596004	Arcadis U.S., Inc.	PS	6587	50	50	5042596		3010A ICP
LLB	5042596005	Arcadis U.S., Inc.	PS	6587	50	50	5042596		3010A ICP
LLB	5042596006	Arcadis U.S., Inc.	PS	6587	50	50	5042596		3010A ICP
LLB	5042683002	Arcadis U.S., Inc.	OQS	6587	50	50	5042683		3010A ICP
LLB	5042683003	Arcadis U.S., Inc.	PS	6587	50	50	5042683		3010A ICP
LLB	5042683004	Arcadis U.S., Inc.	PS	6587	50	50	5042683		3010A ICP
LLB	5042683005	Arcadis U.S., Inc.	PS	6587	50	50	5042683		3010A ICP
LLB	5042683006	Arcadis U.S., Inc.	PS	6587	50	50	5042683		3010A ICP
LLB	5042683007	Arcadis U.S., Inc.	PS	6587	50	50	5042683		3010A ICP
LLB	5042683008	Arcadis U.S., Inc.	OQS	6587	50	50	5042683		3010A ICP

APC 10/26/10

ICP Instrument Run Log

Nitric Lot#: 3223
HCL Lot#: 3198

Page Number 2206

Wednesday, October 27, 2010

FR

ICV Standard #: 22535

CalStdID1: 22523

CalStdID2: 22524

CalStdID3: 22525

CalStdID4: 22526

CalStdID5: 22527

CalStdID6: 0

CalStdID7: 22529

ICSA: 22534

ICSAB: 22514

CRDL: 22518

Blank: 22522

SampleID	SampleType	Client	Comments	RunBatch	QCBatch	RetRun	Date/Time	Project#
50ICP1	EPA6010B	METHOD:				No		
SAMPLE ID:	SAMPLE TYP	CLIENT		BATCH:		No		PROJECT
blank						No	10/27/2010 9:21:00 AM	
ag 2						No	10/27/2010 9:27:00 AM	
mixstd 3						No	10/27/2010 9:32:00 AM	
mixstd 5						No	10/27/2010 9:37:00 AM	
mixstd 2						No	10/27/2010 9:42:00 AM	
mixstd 1						No	10/27/2010 9:46:00 AM	
mixstd 4						No	10/27/2010 9:52:00 AM	
ICVCCV						No	10/27/2010 9:57:00 AM	
ICVCCV						No	10/27/2010 10:03:00 AM	
ICBCCB						No	10/27/2010 10:09:00 AM	
ICDL						No	10/27/2010 10:14:00 AM	
ICSA						No	10/27/2010 10:20:00 AM	
ICsabl						No	10/27/2010 10:26:00 AM	
499130	BLANK	In-house QC Accou		6007		No	10/27/2010 10:31:00 AM	
499131	LCS	In-house QC Accou		6007		No	10/27/2010 10:37:00 AM	
5041101026	PS	Acuity Environment		6007		No	10/27/2010 10:43:00 AM	5041101
5041101026 10x	PS	Acuity Environment		6007		No	10/27/2010 10:54:00 AM	
5042735001 10x r	PS	Terra Materials		6007		No	10/27/2010 11:00:00 AM	
5042735002 10x r	PS	Terra Materials		6007		No	10/27/2010 11:06:00 AM	
5042735001 50x	PS	Terra Materials		6007		No	10/27/2010 11:17:00 AM	
5042735002 50x	PS	Terra Materials		6007		No	10/27/2010 11:23:00 AM	
5042735003 50x	PS	Terra Materials		6007		No	10/27/2010 11:28:00 AM	
ICVCCV						No	10/27/2010 11:35:00 AM	
ICBCCB						No	10/27/2010 11:41:00 AM	

ICP Instrument Run Log

Nitric Lot#: 3223

Page Number 2206

50TRACE

HCL Lot#: 3198

Wednesday, October 27, 2010

ICV Standard #: 22535

CalStdID1: 22523

CalStdID2: 22524

CalStdID3: 22525

CalStdID4: 22526

CalStdID5: 22527

CalStdID6: 0

CalStdID7: 22529

ICSA: 22534

ICSAB: 22514

CRDL: 22518

Blank: 22522

SampleID	SampleType	Client	Comments	RunBatch	QCBatch	ReRun	Date/Time	Project#
5042475017	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 7:56:00 PM	5042475
5042475019	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 8:01:00 PM	5042475
5042475020	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 8:07:00 PM	5042475
5042475021	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 8:13:00 PM	5042475
5042475025	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 8:19:00 PM	5042475
icvccv						No	10/27/2010 8:24:00 PM	
icbcb						No	10/27/2010 8:30:00 PM	
icbcb						No	10/27/2010 8:36:00 PM	
5042475026	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 8:41:00 PM	5042475
5042475027	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 8:47:00 PM	5042475
5042475029	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 8:53:00 PM	5042475
5042475030	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 8:58:00 PM	5042475
5042475031	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 9:04:00 PM	5042475
5042475032	PS	Arcadis U.S., Inc.		6009		No	10/27/2010 9:10:00 PM	5042475
499472	BLANK	In-house QC Accou		6010		No	10/27/2010 9:15:00 PM	
499473	LCS	In-house QC Accou		6010		No	10/27/2010 9:21:00 PM	
5042475034	PS	Arcadis U.S., Inc.		6010		No	10/27/2010 9:27:00 PM	5042475
5042475036	PS	Arcadis U.S., Inc.		6010		No	10/27/2010 9:32:00 PM	5042475
icvccv2						No	10/27/2010 9:38:00 PM	
icbcb2						No	10/27/2010 9:44:00 PM	
50425996001	PS	Arcadis U.S., Inc.		6010		No	10/27/2010 9:49:00 PM	5042596
50425996002	PS	Arcadis U.S., Inc.		6010		No	10/27/2010 9:55:00 PM	5042596
50425996003	PS	Arcadis U.S., Inc.		6010		No	10/27/2010 10:01:00 PM	5042596
50425996004	PS	Arcadis U.S., Inc.		6010		No	10/27/2010 10:06:00 PM	5042596
50425996005	PS	Arcadis U.S., Inc.		6010		No	10/27/2010 10:12:00 PM	5042596
50425996006	OOS	Arcadis U.S., Inc.		6010		No	10/27/2010 10:18:00 PM	5042596
499474	MS	In-house QC Accou		6010		No	10/27/2010 10:24:00 PM	

ICP Instrument Run Log

50TRACE

Nitric Lot#: 3223
HCL Lot#: 3198

Page Number 2206

Wednesday, October 27, 2010

Free

ICV Standard #: 22535 CalStdID1: 22523 CalStdID2: 22524 CalStdID3: 22525 CalStdID4: 22526 CalStdID5: 22527
 CalStdID6: 0 CalStdID7: 22529 ICSA: 22534 ICSAB: 22514 CRDL: 22518 Blank: 22522

SampleID	SampleType	Client	Comments	RunBatch	QCBatch	ReRun	DateTime	Project#
499475	MSD	In-house QC Accou		6010		No	10/27/2010 10:29:00 PM	
5042596006 pds						No	10/27/2010 10:35:00 PM	
5042596006 5x						No	10/27/2010 10:41:00 PM	
icvccv2						No	10/27/2010 10:46:00 PM	
icbcb2						No	10/27/2010 10:52:00 PM	
crdl						No	10/27/2010 10:58:00 PM	
5042683002	PS	Arcadis U.S. Inc.		6010		No	10/27/2010 11:03:00 PM	5042683
5042683003	PS	Arcadis U.S. Inc.		6010		No	10/27/2010 11:09:00 PM	5042683
5042683004	PS	Arcadis U.S. Inc.		6010		No	10/27/2010 11:15:00 PM	5042683
5042683005	PS	Arcadis U.S. Inc.		6010		No	10/27/2010 11:20:00 PM	5042683
5042683006	PS	Arcadis U.S. Inc.		6010		No	10/27/2010 11:26:00 PM	5042683
5042683007	PS	Arcadis U.S. Inc.		6010		No	10/27/2010 11:32:00 PM	5042683
5042683008	OQS	Arcadis U.S. Inc.		6010		No	10/27/2010 11:37:00 PM	5042683
499476	MS	In-house QC Accou		6010		No	10/27/2010 11:43:00 PM	
499477	MSD	In-house QC Accou		6010		No	10/27/2010 11:49:00 PM	
icvccv2						No	10/27/2010 11:54:00 PM	
icbcb2						No	10/28/2010	
crdl2						No	10/28/2010 12:06:00 AM	
blank						No	10/28/2010 12:14:00 AM	
ag 2						No	10/28/2010 12:19:00 AM	
mixstd 3						No	10/28/2010 12:24:00 AM	
mixstd 5						No	10/28/2010 12:29:00 AM	
mixstd 2						No	10/28/2010 12:34:00 AM	
mixstd 1						No	10/28/2010 12:39:00 AM	
mixstd 4						No	10/28/2010 12:44:00 AM	
icvccv2						No	10/28/2010 12:49:00 AM	
icbcb2						No	10/28/2010 12:55:00 AM	



ICP Metals 6010B

Section 2: Initial Calibration Data

- * Initial Calibration Summary Table*
- * Initial Calibration Standards and Blanks*
- * CRDL Standards*

**Initial Calibrations included:
(Instrument name and calibration date)**

ICAL 1: 50 ICP1 10-27-10

ICAL 2: _____

ICAL 3: _____

ICAL 4: _____

Method: EPA6010B Standard: blank

Run Time: 10/27/10 09:21:48

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Avge	-.00013	-.00028	.00017	.00011	.00210	.00024	.00007
SDev	.00026	.00110	.00006	.00004	.00000	.00000	.00039
%RSD	198.12	396.42	32.761	35.479	.13187	.13187	596.17
#1	.00005	-.00105	.00021	.00013	.00210	.00024	-.00021
#2	-.00031	.00050	.00013	.00008	.00210	.00024	.00034
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Avge	.00034	.00014	.00798	-.00012	.00017	.00005	.00011
SDev	.00011	.00013	.00014	.00006	.00006	.00000	.00007
%RSD	32.511	89.917	1.7290	47.023	32.511	.13187	70.612
#1	.00026	.00005	.00789	-.00008	.00013	.00005	.00005
#2	.00042	.00024	.00808	-.00016	.00021	.00005	.00016
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Avge	.00046	.00039	.00189	.00452	.00180	.00058	-.00210
SDev	.00017	.00078	.00115	.00074	.00132	.00048	.00156
%RSD	36.242	198.12	60.782	16.314	73.195	83.481	74.342
#1	.00034	-.00016	.00108	.00400	.00087	.00024	-.00321
#2	.00058	.00094	.00270	.00504	.00273	.00092	-.00100
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Avge	.00091	.00481	.00013	.00377	.00009	.00076	-.00084
SDev	.00165	.00004	.00007	.00010	.00002	.00000	.00156
%RSD	182.33	.90466	56.458	2.5956	20.074	.13187	185.71
#1	.00208	.00484	.00008	.00384	.00008	.00076	.00026
#2	-.00026	.00478	.00018	.00370	.00010	.00076	-.00194
Elem	Al3082						
Avge	-.01562						
SDev	.00022						
%RSD	1.4402						
#1	-.01577						
#2	-.01546						

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38072	--	--	--	--	--	--
SDev	50.20458	--	--	--	--	--	--
%RSD	.1318692	--	--	--	--	--	--
#1	38036	--	--	--	--	--	--
#2	38107	--	--	--	--	--	--

Method: EPA6010B Standard: ag 2
Run Time: 10/27/10 09:27:27

Elem Ag3280
Avge .63585
SDev .00032
%RSD .05070

#1 .63562
#2 .63608

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38070	--	--	--	--	--	--
SDev	115.2584	--	--	--	--	--	--
%RSD	.3027579	--	--	--	--	--	--
#1	37988	--	--	--	--	--	--
#2	38151	--	--	--	--	--	--

Method: EPA6010B Standard: mixstd 3
 Run Time: 10/27/10 09:32:04

Elem	As1890	Mo2020	Si2881
Avge	6.6290	.60309	.24424
SDev	.0136	.00010	.00025
%RSD	.20475	.01620	.10154

#1	6.6386	.60302	.24442
#2	6.6194	.60316	.24407

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38208	--	--	--	--	--	--
SDev	73.53911	--	--	--	--	--	--
%RSD	.1924704	--	--	--	--	--	--
#1	38156	--	--	--	--	--	--
#2	38260	--	--	--	--	--	--

Method: EPA6010B Standard: mixstd 5
 Run Time: 10/27/10 09:37:12

Elem	B_2496	Mg2790	Sb2068	Tl1908
Avge	.18752	.86571	.95723	1.6651
SDev	.00073	.00203	.00515	.0014
%RSD	.38973	.23441	.53819	.08421

#1	.18700	.86428	.95359	1.6641
#2	.18803	.86715	.96087	1.6661

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37855	--	--	--	--	--	--
SDev	29.69848	--	--	--	--	--	--
%RSD	.0784533	--	--	--	--	--	--
#1	37834	--	--	--	--	--	--
#2	37876	--	--	--	--	--	--

Method: EPA6010B Standard: mixstd 2
 Run Time: 10/27/10 09:42:21

Elem	Ba4934	Co2286	Cu3247	Fe2714	V_2924
Avge	.28538	.58649	.81157	1.9193	.14101
SDev	.00277	.00490	.00747	.0193	.00131
%RSD	.96994	.83542	.92024	1.0073	.92892

#1	.28734	.58995	.81685	1.9330	.14194
#2	.28342	.58302	.80629	1.9056	.14009

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37250	--	--	--	--	--	--
SDev	381.1306	--	--	--	--	--	--
%RSD	1.023156	--	--	--	--	--	--
#1	36981	--	--	--	--	--	--
#2	37520	--	--	--	--	--	--

Method: EPA6010B Standard: mixstd 1
 Run Time: 10/27/10 09:46:59

Elem	Be3130	Cd2265	Mn2576	2203/1	2203/2	1960/1	1960/2
Avge	2.0027	9.4187	1.4208	23.265	19.540	1.1904	1.1471
SDev	.0014	.0015	.0003	.034	.072	.0035	.0087
%RSD	.06821	.01549	.02040	.14498	.36746	.29113	.76185

#1	2.0037	9.4177	1.4210	23.289	19.591	1.1928	1.1533
#2	2.0018	9.4198	1.4206	23.241	19.489	1.1879	1.1410

Elem	Zn2062
Avge	.75336
SDev	.00109
%RSD	.14446

#1	.75413
#2	.75259

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38550	--	--	--	--	--	--
SDev	122.3295	--	--	--	--	--	--
%RSD	.3173309	--	--	--	--	--	--
#1	38463	--	--	--	--	--	--
#2	38636	--	--	--	--	--	--

Method: EPA6010B Standard: mixstd 4

Run Time: 10/27/10 09:52:09

Elem	Ca3158	Cr2677	K_7664	Na3302	Ni2316	Al3082	
Avge	1.9271	.27714	.23635	.04799	1.2432	.66644	
SDev	.0074	.00091	.00011	.00048	.0072	.00014	
%RSD	.38328	.32927	.04839	.99303	.58088	.02143	
#1	1.9323	.27779	.23627	.04765	1.2483	.66634	
#2	1.9218	.27650	.23643	.04833	1.2381	.66654	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37996	--	--	--	--	--	--
SDev	20.50610	--	--	--	--	--	--
%RSD	.0539684	--	--	--	--	--	--
#1	37982	--	--	--	--	--	--
#2	38011	--	--	--	--	--	--

Method: EPA6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag3280	328.068	ag 2	blank	3144.75	.412467	10/27/10 09:52:09
As1890	189.042	mixstd 3	blank	1508.51	.417131	10/27/10 09:52:09
B_2496	249.678	mixstd 5	blank	10675.4	-1.82301	10/27/10 09:52:09
Ba4934	493.409	mixstd 2	blank	3505.40	-.368382	10/27/10 09:52:09
Be3130	313.042	mixstd 1	blank	499.844	-1.05033	10/27/10 09:52:09
Ca3158	315.887	mixstd 4	blank	25949.4	-6.13438	10/27/10 09:52:09
Cd2265	226.502	mixstd 1	blank	318.516	-.020834	10/27/10 09:52:09
Co2286	228.616	mixstd 2	blank	1710.22	-.583853	10/27/10 09:52:09
Cr2677	267.716	mixstd 4	blank	3610.23	-.521242	10/27/10 09:52:09
Cu3247	324.753	mixstd 2	blank	1222.16	-9.75882	10/27/10 09:52:09
Fe2714	271.441	mixstd 2	blank	52099.3	6.15615	10/27/10 09:52:09
K_7664	766.491	mixstd 4	blank	84681.8	-14.4547	10/27/10 09:52:09
Mg2790	279.078	mixstd 5	blank	23103.8	-1.21371	10/27/10 09:52:09
Mn2576	257.610	mixstd 1	blank	1407.76	-.147839	10/27/10 09:52:09
Mo2020	202.030	mixstd 3	blank	3318.76	-1.52514	10/27/10 09:52:09
Na3302	330.232	mixstd 4	blank	209453.	-82.4157	10/27/10 09:52:09
Ni2316	231.604	mixstd 4	blank	805.619	-1.52296	10/27/10 09:52:09
2203/1	220.351	mixstd 1	blank	430.012	-1.94251	10/27/10 09:52:09
2203/2	220.352	mixstd 1	blank	511.814	-.920435	10/27/10 09:52:09
Sb2068	206.838	mixstd 5	blank	4181.25	-2.41485	10/27/10 09:52:09
1960/1	196.021	mixstd 1	blank	3355.02	7.05339	10/27/10 09:52:09
1960/2	196.022	mixstd 1	blank	3488.74	-3.16527	10/27/10 09:52:09
Si2881	288.158	mixstd 3	blank	41715.5	-200.517	10/27/10 09:52:09
Sn1899	189.989	mixstd 6	blank	17285.1	-2.26924	10/27/10 09:52:09
Ti3372	337.280	mixstd 6	blank	645.267	-2.43220	10/27/10 09:52:09
V_2924	292.402	mixstd 2	blank	7114.41	-.653958	10/27/10 09:52:09
Zn2062	206.200	mixstd 1	blank	3986.20	-3.03639	10/27/10 09:52:09
Tl1908	190.864	mixstd 5	blank	2401.01	2.01563	10/27/10 09:52:09
Al3082	308.215	mixstd 4	blank	14651.0	228.783	10/27/10 09:52:09
Pb2203	220.353	STD4	STD1-Blank	1.00000	.000000	*NOT STANDARDIZED
Se1960	196.026	STD4	STD1-Blank	1.00000	.000000	*NOT STANDARDIZED

Method: EPA6010B Sample Name: icvccv

Operator:

Run Time: 10/27/10 09:57:18

rem.

Comment:

high %RSD

Mode: CONC Corr. Factor: 1

EL

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	465.39	982.97	947.94	960.49	980.83	10148.	980.00
SDev	27.07	60.94	63.32	63.33	63.98	659.	63.18
%RSD	5.8169	6.1999	6.6799	6.5932	6.5229	6.4971	6.4465

102710

#1	Q446.25	939.88	903.17	915.71	935.59	9682.1	935.33
#2	484.54	1026.1	992.72	1005.3	1026.1	10615.	1024.7

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.00	1000.0	1000.0	1000.0	1000.0	10000.	1000.0
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	944.62	970.85	914.26	9720.5	9935.1	9921.4	974.84
SDev	60.22	65.86	59.62	653.5	563.7	671.4	63.70
%RSD	6.3754	6.7838	6.5216	6.7232	5.6735	6.7671	6.5340

#1	902.03	924.28	Q872.10	9258.4	9536.5	9446.7	929.80
#2	987.20	1017.4	956.42	10183.	10334.	10396.	1019.9

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.0	1000.0	1000.0	10000.	10000.	10000.	1000.0
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	967.46	10082.	967.83	984.44	977.99	985.93	992.47
SDev	64.26	592.	65.54	45.23	50.56	64.09	49.84
%RSD	6.6417	5.8676	6.7723	4.5949	5.1695	6.5007	5.0217

#1	922.02	9663.7	921.48	952.46	942.24	940.61	957.23
#2	1012.9	10500.	1014.2	1016.4	1013.7	1031.3	1027.7

Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	1000.0	10000.	1000.0			1000.0	
Range	10.000	10.000	10.000			10.000	

Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	994.73	4964.4	Q1116.3	962.13	949.51	993.77	943.48
SDev	54.36	305.3	75.1	61.79	62.77	65.08	57.97
%RSD	5.4652	6.1490	6.7306	6.4219	6.6112	6.5493	6.1447

#1	956.28	4748.6	1063.2	918.44	905.12	947.75	902.48
#2	1033.2	5180.3	Q1169.5	1005.8	993.90	1039.8	984.47

Errors	NOCHECK	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value		5000.0	1000.0	1000.0	1000.0	1000.0	1000.0
Range		10.000	10.000	10.000	10.000	10.000	10.000

Elem	Al3082	Pb2203	Se1960
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Units	ppb	ppb	ppb
Avge	9698.7	980.1	994.0
SDev	622.7	48.8	52.9
%RSD	6.4200	4.977	5.318
#1	9258.4	945.6	956.6
#2	10139.	1015.	1031.
Errors	QC Pass	QC Pass	QC Pass
Value	10000.	1000.	1000.
Range	10.000	10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39313	--	--	--	--	--	--
SDev	1829.992	--	--	--	--	--	--
%RSD	4.654929	--	--	--	--	--	--
#1	40607	--	--	--	--	--	--
#2	38019	--	--	--	--	--	--

Method: EPA6010B Sample Name: icvccv
 Run Time: 10/27/10 10:03:22
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	484.89	1026.3	993.99	1007.9	1026.4	10635.	1026.1
SDev	.47	5.5	4.24	1.1	2.1	10.	2.1
%RSD	.09635	.53306	.42624	.10604	.20759	.09124	.20774
#1	484.56	1022.5	990.99	1007.1	1024.9	10628.	1024.6
#2	485.22	1030.2	996.99	1008.6	1027.9	10641.	1027.6
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.00	1000.0	1000.0	1000.0	1000.0	10000.	1000.0
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	988.42	1018.2	957.16	10179.	10357.	10398.	1021.8
SDev	.19	1.7	1.86	6.	33.	7.	.7
%RSD	.01894	.16525	.19434	.05824	.31521	.06798	.06948
#1	988.55	1017.0	955.85	10174.	10334.	10393.	1021.2
#2	988.29	1019.4	958.48	10183.	10380.	10403.	1022.3
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.0	1000.0	1000.0	10000.	10000.	10000.	1000.0
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1012.5	10695.	1018.7	1025.0	1018.6	1028.0	1038.7
SDev	5.3	40.	1.2	.0	2.5	5.8	6.3
%RSD	.52658	.37294	.11682	.00238	.24191	.55939	.60852
#1	1008.8	10667.	1017.9	1025.0	1020.3	1032.1	1043.2
#2	1016.3	10723.	1019.5	1025.1	1016.8	1023.9	1034.3
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	1000.0	10000.	1000.0			1000.0	
Range	10.000	10.000	10.000			10.000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1040.9	5189.2	Q1170.6	1007.7	993.85	1042.0	987.61
SDev	3.4	6.1	.3	.1	2.61	1.6	1.59
%RSD	.32945	.11740	.02849	.00698	.26237	.15168	.16081
#1	1043.3	5184.9	Q1170.4	1007.6	992.01	1040.8	986.48
#2	1038.5	5193.5	Q1170.9	1007.7	995.70	1043.1	988.73
Errors	NOCHECK	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value		5000.0	1000.0	1000.0	1000.0	1000.0	1000.0
Range		10.000	10.000	10.000	10.000	10.000	10.000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	10151.	1021.	1040.
SDev	17.	2.	4.
%RSD	.17061	.1602	.4223
#1	10139.	1022.	1043.
#2	10164.	1020.	1037.
Errors	QC Pass	QC Pass	QC Pass
Value	10000.	1000.	1000.
Range	10.000	10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37914	--	--	--	--	--	--
SDev	82.73149	--	--	--	--	--	--
%RSD	.2182112	--	--	--	--	--	--
#1	37855	--	--	--	--	--	--
#2	37972	--	--	--	--	--	--

Method: EPA6010B Sample Name: icbccb
 Run Time: 10/27/10 10:09:03
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.41916	-.26108	2.2464	.23411	.27187	83.761	.05826
SDev	.00067	3.16056	1.0022	.06603	.02008	1.051	.04123
%RSD	.16069	1210.6	44.614	28.207	7.3846	1.2547	70.761
#1	-.41963	-2.4959	2.9550	.28080	.28606	84.504	.02911
#2	-.41868	1.9738	1.5377	.18741	.25767	83.018	.08742
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	5.0000	10.000	50.000	50.000	50.000	200.00	1.0000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31458	.19449	.64859	17.846	3.4603	20.215	.93131
SDev	.12652	.06690	.40514	10.714	6.3478	.913	.00064
%RSD	40.218	34.399	62.465	60.037	183.45	4.5173	.06841
#1	-.40405	.14718	.36211	10.270	7.9489	20.861	.93176
#2	-.22512	.24180	.93507	25.422	-1.0283	19.569	.93086
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	10.000	5.0000	10.000	50.000	250.00	200.00	5.0000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.2042	95.062	.87322	1.2171	-1.6982	.84775	1.9535
SDev	1.8584	62.859	1.4896	2.1436	.5244	.08099	3.1954
%RSD	58.000	66.124	170.59	176.13	30.883	9.5538	163.57
#1	4.5183	139.51	-.18011	-.29870	-2.0690	.90502	4.2130
#2	1.8901	50.614	1.9265	2.7328	-1.3273	.79048	-.30595
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	.00000	.00000	.00000			.00000	
Range	20.000	1000.0	10.000			6.0000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.1978	19.533	-.66614	.62172	-.08922	.86186	-2.3494
SDev	2.0873	2.542	.97066	.23877	.26427	.30184	1.6123
%RSD	94.974	13.016	145.71	38.406	296.19	35.022	68.628
#1	3.6738	21.331	.02022	.45288	-.27609	1.0753	-3.4895
#2	.72184	17.735	-1.3525	.79056	.09764	.64843	-1.2093
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.00000	.00000	.00000	.00000	.00000	.00000
Range		200.00	20.000	20.000	10.000	10.000	20.000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	10.493	-.7272	2.117
SDev	.464	1.0636	2.456
%RSD	4.4204	146.3	116.0
#1	10.165	-1.479	3.854
#2	10.821	.0249	.3798
Errors	QC Pass	QC Pass	QC Pass
Value	.00000	.0000	.0000
Range	50.000	5.000	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37820	--	--	--	--	--	--
SDev	31.11270	--	--	--	--	--	--
%RSD	.0822652	--	--	--	--	--	--
#1	37798	--	--	--	--	--	--
#2	37842	--	--	--	--	--	--

Method: EPA6010B Sample Name: crdl
 Run Time: 10/27/10 10:14:43
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.6955	12.481	152.06	Q10.761	10.418	Q684.45	Q1.5960
SDev	.7030	7.644	.63	.072	.165	11.45	.7584
%RSD	7.2510	61.246	.41497	.66687	1.5836	1.6722	47.519
#1	10.193	Q17.886	152.51	Q10.811	10.535	Q692.54	Q2.1323
#2	9.1984	7.0758	151.62	Q10.710	10.301	Q676.36	1.0597
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail	QC Fail
Value	10.000	10.000	150.00	3.0000	10.000	500.00	1.0000
Range	50.000	50.000	20.000	50.000	20.000	20.000	50.000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.072	21.642	12.079	127.12	5146.8	547.95	11.626
SDev	3.231	2.948	3.584	2.93	64.3	2.13	.527
%RSD	15.335	13.619	29.668	2.3084	1.2486	.38885	4.5293
#1	23.357	23.726	14.613	129.20	5192.2	549.45	11.999
#2	18.787	19.558	9.5448	125.05	5101.4	546.44	11.254
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	20.000	20.000	10.000	100.00	5000.0	500.00	10.000
Range	20.000	20.000	50.000	50.000	20.000	20.000	20.000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30.321	2632.0	41.417	10.173	4.0161	Q19.143	11.156
SDev	.830	1012.5	.510	1.207	2.2048	7.742	1.362
%RSD	2.7389	38.468	1.2311	11.863	54.898	40.441	12.206
#1	30.908	Q3347.9	41.777	11.026	2.4571	Q24.618	10.193
#2	29.734	1916.0	41.056	9.3197	5.5751	13.669	12.119
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK
Value	30.000	2000.0	40.000			10.000	
Range	20.000	50.000	20.000			50.000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.667	15.792	83.382	22.362	29.548	43.078	16.463
SDev	2.627	3.153	6.143	2.317	.149	.122	1.548
%RSD	17.909	19.965	7.3678	10.359	.50397	.28300	9.4035
#1	12.810	18.021	Q87.726	24.001	29.653	42.991	15.368
#2	16.525	13.562	79.038	20.724	29.443	43.164	17.557
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value			70.000	20.000	30.000	40.000	20.000
Range			20.000	50.000	20.000	20.000	50.000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	230.71	6.067	13.50
SDev	15.99	1.069	2.21
%RSD	6.9287	17.62	16.34

#1	242.01	5.311	11.94
#2	219.41	6.822	Q15.06

Errors	QC Pass	QC Pass	QC Pass
Value	200.00	6.000	10.00
Range	50.000	50.00	50.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38270	--	--	--	--	--	--
SDev	24.04163	--	--	--	--	--	--
%RSD	.0628211	--	--	--	--	--	--
#1	38253	--	--	--	--	--	--
#2	38287	--	--	--	--	--	--

Method: EPA6010B Sample Name: icsa
 Run Time: 10/27/10 10:20:23
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	- .90795	14.684	4.0868	4.8050	-1.4557	484090.	Q5.9219
SDev	.96634	6.225	1.5552	.1393	.0478	115.	.4386
%RSD	106.43	42.395	38.054	2.8997	3.2830	.02374	7.4058
#1	-1.5913	19.086	5.1865	4.7065	-1.4895	484010.	Q6.2320
#2	-.22464	10.282	2.9871	4.9035	-1.4219	484170.	Q5.6118
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.00000	.00000	.00000	.00000	.00000	500000.	.00000
Range	10.000	20.000	100.00	20.000	6.0000	100000.	2.0000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.5822	-2.0583	Q23.605	187700.	68.044	516040.	3.7197
SDev	.7723	.2214	.109	54.	1.810	28.	.3259
%RSD	21.559	10.756	.46014	.02868	2.6600	.00545	8.7606
#1	-3.0361	-1.9018	Q23.528	187660.	69.324	516060.	3.9501
#2	-4.1283	-2.2149	Q23.682	187740.	66.765	516020.	3.4892
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	200000.	.00000	500000.	.00000
Range	20.000	10.000	20.000	40000.	500.00	100000.	10.000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.9078	143.82	-.60770	18.899	-4.3975	9.9108	-9.6008
SDev	.5455	16.57	.14312	.774	.0436	8.9048	5.7109
%RSD	18.761	11.519	23.551	4.0942	.99199	89.850	59.484
#1	3.2936	132.11	-.70890	19.446	-4.3666	Q16.207	-13.639
#2	2.5221	155.54	-.50650	18.352	-4.4283	3.6141	-5.5625
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	.00000	.00000	.00000			.00000	
Range	40.000	2000.0	20.000			12.000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.5258	55.393	-8.3337	1.3678	-.02149	12.428	4.5072
SDev	3.9857	3.192	2.8351	.0955	.29623	.515	6.6074
%RSD	72.129	5.7632	34.020	6.9792	1378.3	4.1416	146.60
#1	-2.7075	53.135	-6.3290	1.4353	.18797	12.792	-.16495
#2	-8.3442	57.650	-10.338	1.3003	-.23096	12.064	9.1794
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.00000	.00000	.00000	.00000	.00000	.00000
Range		400.00	20.000	20.000	20.000	20.000	100.00
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	496140.	3.360	-6.883
SDev	416.	.287	.757
%RSD	.08395	8.531	10.99
#1	495840.	3.563	-6.348
#2	496430.	3.158	-7.418
Errors	QC Pass	QC Pass	QC Pass
Value	500000.	.0000	.0000
Range	100000.	10.00	20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34556	--	--	--	--	--	--
SDev	27.57716	--	--	--	--	--	--
%RSD	.0798031	--	--	--	--	--	--
#1	34537	--	--	--	--	--	--
#2	34576	--	--	--	--	--	--

Method: EPA6010B Sample Name: icsab
 Run Time: 10/27/10 10:26:04
 Comment: 6010B
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	263.94	541.24	519.36	525.04	512.79	495400.	495.89
SDev	.67	.09	1.44	.21	.66	284.	.03
%RSD	.25312	.01704	.27797	.03916	.12893	.05740	.00665
#1	263.46	541.17	518.34	525.18	512.32	495200.	495.91
#2	264.41	541.30	520.38	524.89	513.26	495600.	495.86
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	250.00	500.00	500.00	500.00	500.00	500000.	500.00
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	460.35	493.06	541.69	191890.	14.803	529380.	506.42
SDev	.44	.77	.21	76.	3.451	346.	.16
%RSD	.09503	.15691	.03838	.03940	23.311	.06531	.03098
#1	460.05	493.61	541.54	191840.	12.363	529130.	506.53
#2	460.66	492.51	541.84	191950.	17.243	529620.	506.31
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	500.00	500.00	500.00	200000.		500000.	500.00
Range	20.000	20.000	20.000	20.000		20.000	20.000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	498.86	311.01	464.42	530.90	478.28	537.75	520.93
SDev	.14	131.20	2.89	2.36	.81	2.19	3.47
%RSD	.02816	42.186	.62266	.44486	.16987	.40691	.66662
#1	498.96	218.24	466.47	529.23	478.86	536.20	518.48
#2	498.76	403.79	462.38	532.57	477.71	539.30	523.39
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	500.00		500.00			500.00	
Range	20.000		20.000			20.000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	513.10	2559.4	568.52	515.82	509.09	494.30	497.41
SDev	1.50	5.4	6.55	.59	.27	.98	1.78
%RSD	.29138	.21164	1.1523	.11454	.05332	.19768	.35813
#1	512.05	2563.2	563.89	515.40	508.89	494.99	496.15
#2	514.16	2555.5	573.16	516.23	509.28	493.61	498.67
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		2500.0	500.00	500.00	500.00	500.00	500.00
Range		20.000	20.000	20.000	20.000	20.000	20.000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	499850.	495.8	515.7
SDev	488.	.2	2.2
%RSD	.09763	.0493	.4176
#1	499500.	495.6	514.2
#2	500190.	496.0	517.2
Errors	QC Pass	QC Pass	QC Pass
Value	500000.	500.0	500.0
Range	20.000	20.00	20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35037	--	--	--	--	--	--
SDev	38.18377	--	--	--	--	--	--
%RSD	.1089813	--	--	--	--	--	--
#1	35064	--	--	--	--	--	--
#2	35010	--	--	--	--	--	--

ICP Metals 6010B

Section 3: Remaining Sequence Data

- * *Calibration Verification Standards*
- * *Calibration Verification Blanks*
- * *Method Blanks*
- * *Laboratory Control Samples (LCS)*
- * *Matrix Spike and Spike Duplicate Samples (MS/MSD)*
- * *Client Sample Raw Data*

Method: EPA6010B Sample Name: icvccv
 Run Time: 10/27/10 20:24:42
 Comment: 6010B
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	487.56	1032.4	1026.7	1026.0	994.80	10750.	1048.7
SDev	.21	4.2	.0	.5	1.62	25.	1.8
%RSD	.04338	.40850	.00319	.04465	.16327	.23429	.17079

#1	487.41	1035.4	1026.7	1026.3	995.95	10768.	1050.0
#2	487.71	1029.4	1026.7	1025.7	993.65	10732.	1047.4

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.00	1000.0	1000.0	1000.0	1000.0	10000.	1000.0
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1006.9	1039.9	973.75	10351.	10372.	10682.	1033.4
SDev	1.2	.7	1.60	1.	2.	25.	1.9
%RSD	.11761	.06479	.16482	.01063	.01875	.23672	.18291

#1	1007.8	1040.3	974.88	10352.	10374.	10699.	1034.7
#2	1006.1	1039.4	972.61	10350.	10371.	10664.	1032.1

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.0	1000.0	1000.0	10000.	10000.	10000.	1000.0
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1008.0	10470.	997.13	1045.8	1022.2	1040.6	1049.1
SDev	3.7	31.	3.86	.6	.8	3.1	7.4
%RSD	.37153	.29159	.38714	.05949	.07815	.29788	.70412

#1	1005.3	10491.	999.86	1046.3	1021.7	1038.4	1054.4
#2	1010.6	10448.	994.40	1045.4	1022.8	1042.8	1043.9

Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	1000.0	10000.	1000.0			1000.0	
Range	10.000	10.000	10.000			10.000	

Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1066.0	Q5669.0	Q1182.7	1006.9	1016.1	1083.5	1004.0
SDev	1.9	56.3	1.7	.1	2.2	2.2	6.8
%RSD	.17843	.99364	.14049	.00868	.21866	.20317	.67411

#1	1064.7	Q5708.8	Q1183.9	1007.0	1017.6	1085.0	1008.8
#2	1067.3	Q5629.1	Q1181.5	1006.8	1014.5	1081.9	999.25

Errors	NOCHECK	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value		5000.0	1000.0	1000.0	1000.0	1000.0	1000.0
Range		10.000	10.000	10.000	10.000	10.000	10.000

Elem	Al3082	Pb2203	Se1960
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Units	ppb	ppb	ppb
Avge	10172.	1030.	1060.
SDev	10.	.	1.
%RSD	.09626	.0316	.1123

#1	10179.	1030.	1061.
#2	10165.	1030.	1060.

Errors	QC Pass	QC Pass	QC Pass
Value	10000.	1000.	1000.
Range	10.000	10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37886	--	--	--	--	--	--
SDev	156.9777	--	--	--	--	--	--
%RSD	.4143423	--	--	--	--	--	--
#1	37775	--	--	--	--	--	--
#2	37997	--	--	--	--	--	--

Method: EPA6010B Sample Name: icbccb
Run Time: 10/27/10 20:30:22
Comment: 6010B
Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29061	-3.2518	.87229	.46132	.81653	38.915	.18825
SDev	.29230	1.6540	.38091	.13024	.01855	1.936	.11812
%RSD	100.58	50.864	43.668	28.232	2.2718	4.9753	62.747

#1	-.49729	-4.4213	1.1416	.55341	.82965	37.546	.27177
#2	-.08392	-2.0822	.60294	.36923	.80341	40.284	.10473

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	5.0000	10.000	50.000	50.000	50.000	200.00	1.0000

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.24855	.42808	3.2596	8.2029	2.2479	15.518	.85225
SDev	.28549	.53670	.2720	8.7149	1.5720	.450	.05212
%RSD	114.86	125.37	8.3435	106.24	69.930	2.9030	6.1151

#1	-.04668	.80759	3.4519	14.365	3.3594	15.199	.88910
#2	-.45043	.04858	3.0673	2.0405	1.1364	15.836	.81539

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	10.000	5.0000	10.000	50.000	250.00	200.00	5.0000

Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6550	52.635	1.3158	3.4469	-2.2915	.17029	3.8324
SDev	1.0525	35.043	.1499	.3817	.5801	1.3223	.0628
%RSD	63.599	66.578	11.389	11.075	25.315	776.47	1.6385

#1	2.3992	27.855	1.2098	3.7168	-1.8813	1.1053	3.8768
#2	.91071	77.414	1.4218	3.1769	-2.7017	-.76470	3.7880

Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	.00000	.00000	.00000			.00000	
Range	20.000	1000.0	10.000			6.0000	

Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5342	108.85	-2.4954	.67333	-.27971	1.6278	-2.9015
SDev	2.4075	17.02	1.6032	.21548	.00002	.0724	.9880
%RSD	156.92	15.632	64.246	32.001	.00652	4.4466	34.050

#1	.16815	120.88	-3.6290	.82570	-.27970	1.6789	-2.2029
#2	-3.2366	96.818	-1.3618	.52097	-.27973	1.5766	-3.6001

Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.00000	.00000	.00000	.00000	.00000	.00000
Range		200.00	20.000	20.000	10.000	10.000	20.000

Elem	Al3082	Pb2203	Se1960
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Units	ppb	ppb	ppb
Avge	29.001	-.3804	.2531
SDev	2.487	.5141	1.627
%RSD	8.5757	135.1	642.8

#1	30.760	-.0169	1.403
#2	27.243	-.7439	-.8972

Errors	QC Pass	QC Pass	QC Pass
Value	.00000	.0000	.0000
Range	50.000	5.000	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38024	--	--	--	--	--	--
SDev	6.363961	--	--	--	--	--	--
%RSD	.0167369	--	--	--	--	--	--
#1	38028	--	--	--	--	--	--
#2	38019	--	--	--	--	--	--

Analysis Report

QC Standard

10/27/10 08:41:39 PM

page 1

Method: EPA6010B Sample Name: crdl
Run Time: 10/27/10 20:36:03
Comment: 6010B
Mode: CONC Corr. Factor: 1

Operator:

Table with 8 columns: Elem, Units, Avge, SDev, %RSD, #1, #2, Errors, Value, Range. Rows include elements like Ag3280, As1890, B_2496, Ba4934, Be3130, Ca3158, Cd2265, Co2286, Cr2677, Cu3247, Fe2714, K_7664, Mg2790, Mn2576, Mo2020, Na3302, Ni2316, 2203/1, 2203/2, Sb2068, 1960/1, 1960/2, Si2881, Sn1899, Ti3372, V_2924, Zn2062, Tl1908, Al3082, Pb2203, Se1960.

Units	ppb	ppb	ppb
Avge	218.82	5.199	6.516
SDev	4.42	.908	2.147
%RSD	2.0195	17.47	32.96
#1	215.70	5.841	Q4.997
#2	221.95	4.557	8.034
Errors	QC Pass	QC Pass	QC Pass
Value	200.00	6.000	10.00
Range	50.000	50.00	50.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37626	--	--	--	--	--	--
SDev	95.45942	--	--	--	--	--	--
%RSD	.2537094	--	--	--	--	--	--
#1	37558	--	--	--	--	--	--
#2	37693	--	--	--	--	--	--

Analysis Report

Method: EPA6010B Sample Name: 499472
 Run Time: 10/27/10 21:15:49
 Comment: 6010B
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.25476	L-4.4372	L.52801	11.385	L.35378	L13.467	L-.10936
SDev	.23811	1.4812	.96837	.238	.00512	.552	.19635
%RSD	93.465	33.382	183.40	2.0929	1.4483	4.1022	179.54
#1	L-.42313	L-3.3899	L1.2127	11.553	L.35740	L13.858	L.02948
#2	L-.08639	L-5.4846	L-.15673	11.216	L.35015	L13.077	L-.24820
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.31253	L-.09028	1.5788	L4.0873	L-4.3357	L4.0360	.39393
SDev	.25741	.20401	.1435	.9873	11.1446	4.0398	.13334
%RSD	82.365	225.96	9.0874	24.155	257.04	100.09	33.850
#1	L-.13051	L.05397	1.4773	L3.3892	L3.5447	L6.8926	.48822
#2	L-.49454	L-.23454	1.6802	L4.7854	L-12.216	L1.1794	L.29964
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.69882	L81.716	L.59951	1.9548	-2.5609	L-.13090	-4.3372
SDev	.33486	247.94	.55078	1.2597	1.4812	2.59414	4.9444
%RSD	47.918	303.41	91.873	64.443	57.839	1981.7	114.00
#1	L-.93561	257.03	L.21004	1.0641	-1.5135	L1.7034	-7.8334
#2	L-.46204	L-93.603	L.98897	2.8456	-3.6082	L-1.9652	-.84099
Errors	LC Low	LC Low	LC Low	NOCHECK	NOCHECK	LC Low	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.5933	185.96	L-2.0374	L.39826	L-.65421	L1.7703	L-2.1825
SDev	.6824	47.48	1.6276	.04620	.26650	.0582	1.7825
%RSD	14.856	25.534	79.886	11.600	40.737	3.2893	81.672
#1	4.1107	219.54	L-.88652	L.43093	L-.46576	L1.7291	L-.92211
#2	5.0758	152.39	L-3.1883	L.36560	L-.84265	L1.8115	L-3.4430
Errors	NOCHECK	LC Pass	LC Low	LC Low	LC Low	LC Low	LC Low
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	L17.561	L-1.057	L1.620
SDev	.358	.568	2.102
%RSD	2.0392	53.78	129.8

#1	L17.814	L-.6550	L.1335
#2	L17.308	L-1.459	L3.106

Errors	LC Low	LC Low	LC Low
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37730	--	--	--	--	--	--
SDev	132.2290	--	--	--	--	--	--
%RSD	.3504564	--	--	--	--	--	--
#1	37637	--	--	--	--	--	--
#2	37824	--	--	--	--	--	--

Analysis Report

10/27/10 09:27:06 PM

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Method: EPA6010B Sample Name: 499473
Run Time: 10/27/10 21:21:29
Comment: 6010B
Mode: CONC Corr. Factor: 1

Operator:

Table with 8 columns: Elem, Ag3280, As1890, B_2496, Ba4934, Be3130, Ca3158, Cd2265. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, Ag3280, As1890, B_2496, Ba4934, Be3130, Ca3158, Cd2265.

Table with 8 columns: Errors, High, Low, Ag3280, As1890, B_2496, Ba4934, Be3130, Ca3158, Cd2265.

Table with 8 columns: Elem, Co2286, Cr2677, Cu3247, Fe2714, K_7664, Mg2790, Mn2576. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, Co2286, Cr2677, Cu3247, Fe2714, K_7664, Mg2790, Mn2576.

Table with 8 columns: Errors, High, Low, Co2286, Cr2677, Cu3247, Fe2714, K_7664, Mg2790, Mn2576.

Table with 8 columns: Elem, Mo2020, Na3302, Ni2316, 2203/1, 2203/2, Sb2068, 1960/1. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, Mo2020, Na3302, Ni2316, 2203/1, 2203/2, Sb2068, 1960/1.

Table with 8 columns: Errors, High, Low, Mo2020, Na3302, Ni2316, 2203/1, 2203/2, Sb2068, 1960/1.

Table with 8 columns: Elem, 1960/2, Si2881, Sn1899, Ti3372, V_2924, Zn2062, Tl1908. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, 1960/2, Si2881, Sn1899, Ti3372, V_2924, Zn2062, Tl1908.

Table with 8 columns: Errors, High, Low, 1960/2, Si2881, Sn1899, Ti3372, V_2924, Zn2062, Tl1908.

Table with 4 columns: Elem, Al3082, Pb2203, Se1960.

Units	ppb	ppb	ppb
Avge	10082.	1023.	1045.
SDev	6.	2.	3.
%RSD	.05935	.1570	.3144

#1	10078.	1024.	1047.
#2	10086.	1022.	1043.

Errors	LC Pass	LC Pass	LC Pass
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38058	--	--	--	--	--	--
SDev	62.93250	--	--	--	--	--	--
%RSD	.1653616	--	--	--	--	--	--
#1	38013	--	--	--	--	--	--
#2	38102	--	--	--	--	--	--

Method: EPA6010B Sample Name: icvccv2
 Run Time: 10/27/10 21:38:33
 Comment: 6010B
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	490.04	1049.5	1015.5	1030.0	1029.2	10635.	1058.5
SDev	.94	3.4	4.1	.0	.3	11.	.6
%RSD	.19230	.32752	.40803	.00140	.03391	.10715	.05209
#1	490.70	1047.1	1012.5	1030.0	1029.0	10643.	1058.9
#2	489.37	1052.0	1018.4	1030.0	1029.5	10627.	1058.1
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.00	1000.0	1000.0	1000.0	1000.0	10000.	1000.0
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1008.9	1037.0	978.55	10353.	10484.	10603.	1038.6
SDev	.2	3.0	.65	3.	1.	16.	.4
%RSD	.02306	.29161	.06689	.02916	.01368	.15140	.04032
#1	1008.7	1039.2	979.01	10355.	10485.	10614.	1038.9
#2	1009.1	1034.9	978.09	10351.	10483.	10592.	1038.3
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.0	1000.0	1000.0	10000.	10000.	10000.	1000.0
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1025.1	10542.	1025.6	1055.1	1041.9	1053.5	1047.9
SDev	1.1	52.	1.9	.0	2.9	2.5	3.8
%RSD	.10452	.49261	.18461	.00234	.28051	.23285	.36566
#1	1024.3	10505.	1026.9	1055.1	1044.0	1055.2	1050.6
#2	1025.9	10578.	1024.3	1055.1	1039.9	1051.8	1045.2
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	1000.0	10000.	1000.0			1000.0	
Range	10.000	10.000	10.000			10.000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1076.8	Q5650.7	Q1199.7	1016.5	1017.4	1069.9	1012.9
SDev	4.8	38.0	.4	.6	.6	.3	3.1
%RSD	.44219	.67265	.03580	.05437	.06224	.02908	.30172
#1	1080.1	Q5677.6	Q1199.4	1016.9	1017.9	1069.7	1010.7
#2	1073.4	Q5623.8	Q1200.0	1016.1	1017.0	1070.1	1015.0
Errors	NOCHECK	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value		5000.0	1000.0	1000.0	1000.0	1000.0	1000.0
Range		10.000	10.000	10.000	10.000	10.000	10.000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	10256.	1046.	1067.
SDev	7.	2.	4.
%RSD	.07043	.1871	.4172
#1	10250.	1048.	1070.
#2	10261.	1045.	1064.
Errors	QC Pass	QC Pass	QC Pass
Value	10000.	1000.	1000.
Range	10.000	10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37640	--	--	--	--	--	--
SDev	67.88225	--	--	--	--	--	--
%RSD	.1803460	--	--	--	--	--	--
#1	37592	--	--	--	--	--	--
#2	37688	--	--	--	--	--	--

Method: EPA6010B Sample Name: icbccb2
Run Time: 10/27/10 21:44:13
Comment: 6010B
Mode: CONC Corr. Factor: 1

Operator:

Table with 8 columns: Elem, Ag3280, As1890, B_2496, Ba4934, Be3130, Ca3158, Cd2265. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, #1, #2, #1, #2, #1, #2. Rows include numerical values for each element.

Table with 8 columns: Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range.

Table with 8 columns: Elem, Co2286, Cr2677, Cu3247, Fe2714, K_7664, Mg2790, Mn2576. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, #1, #2, #1, #2, #1, #2. Rows include numerical values for each element.

Table with 8 columns: Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range.

Table with 8 columns: Elem, Mo2020, Na3302, Ni2316, 2203/1, 2203/2, Sb2068, 1960/1. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, #1, #2, #1, #2, #1, #2. Rows include numerical values for each element.

Table with 8 columns: Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range.

Table with 8 columns: Elem, 1960/2, Si2881, Sn1899, Ti3372, V_2924, Zn2062, Tl1908. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, #1, #2, #1, #2, #1, #2. Rows include numerical values for each element.

Table with 8 columns: Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range.

Table with 4 columns: Elem, Al3082, Pb2203, Se1960.

Units	ppb	ppb	ppb
Avge	-2.1493	-.1552	-.0241
SDev	.4400	1.4765	5.5460
%RSD	20.473	951.2	22970.

#1	-2.4604	.8888	3.897
#2	-1.8381	-1.199	-3.946

Errors	QC Pass	QC Pass	QC Pass
Value	.00000	.0000	.0000
Range	50.000	5.000	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37558	--	--	--	--	--	--
SDev	70.71068	--	--	--	--	--	--
%RSD	.1882706	--	--	--	--	--	--
#1	37508	--	--	--	--	--	--
#2	37608	--	--	--	--	--	--

Analysis Report

Method: EPA6010B Sample Name: 5042596001
 Run Time: 10/27/10 21:49:54
 Comment: 6010B
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.14440	6.3236	236.16	14.690	L.28634	40169.	L-.48849
SDev	1.15179	.3761	6.91	.995	.03086	60.	.24354
%RSD	797.65	5.9471	2.9279	6.7710	10.778	.15043	49.857
#1	L-.95884	6.5895	241.05	15.394	L.26452	40126.	L-.31627
#2	L.67004	6.0577	231.27	13.987	L.30816	40212.	L-.66070
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.79406	L.02103	2.8754	L-48.709	11911.	20261.	.68953
SDev	.36410	.20940	.1608	70.409	25.	66.	.00301
%RSD	45.853	995.79	5.5926	144.55	.21166	.32796	.43695
#1	L-1.0515	L-.12704	2.9891	L1.0784	11893.	20308.	.68740
#2	L-.53660	L.16910	2.7617	L-98.496	11929.	20214.	.69166
Errors	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.387	118960.	L.65005	17.772	-8.2816	L-2.1133	14.344
SDev	.350	263.	3.1825	21.738	15.1963	2.8214	23.370
%RSD	1.1142	.22120	489.58	122.32	183.49	133.50	162.93
#1	31.139	118780.	2.9004	2.4005	2.4638	L-4.1084	-2.1815
#2	31.634	119150.	L-1.6003	33.143	-19.027	L-.11831	30.869
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	LC Low	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.0325	5140.8	L-2.2746	.72742	L-2.1941	L2.1389	L-6.1620
SDev	13.3514	10.1	3.3390	.46457	3.8425	2.1418	3.0240
%RSD	265.30	.19653	146.79	63.865	175.13	100.14	49.076
#1	4.4084	5133.7	L-4.6357	L.39892	L.52303	3.6534	L-4.0236
#2	-14.473	5148.0	L.08640	1.0559	L-4.9111	L.62442	L-8.3003
Errors	NOCHECK	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	L7.3452	L.3944	L1.420
SDev	.9217	2.897	1.123
%RSD	12.549	734.6	79.09

#1	L6.6934	L2.443	L2.214
#2	L7.9969	L-1.654	L.6259

Errors	LC Low	LC Low	LC Low
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36662	--	--	--	--	--	--
SDev	47.37616	--	--	--	--	--	--
%RSD	.1292259	--	--	--	--	--	--
#1	36695	--	--	--	--	--	--
#2	36628	--	--	--	--	--	--

Method: EPA6010B Sample Name: 5042596002

Operator:

Run Time: 10/27/10 21:55:35

Comment: 6010B

Mode: CONC Corr. Factor: 1

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.19459	L-4.7564	314.61	110.04	L.26458	68353.	L-.69136
SDev	.85719	6.5899	4.98	.13	.06121	114.	.17799
%RSD	440.51	138.55	1.5834	.12046	23.135	.16644	25.745

#1	L.41153	L-9.4162	318.13	110.14	L.22130	68433.	L-.81722
#2	L-.80071	L-.09664	311.09	109.95	L.30786	68272.	L-.56551

Errors	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-1.2427	L-.41904	1.4222	35.602	10637.	20350.	7.2989
SDev	1.7253	1.40320	2.4212	4.001	41.	54.	.1787
%RSD	138.83	334.86	170.24	11.237	.39008	.26755	2.4482

#1	L-2.4627	L-1.4113	L-.28981	38.431	10608.	20388.	7.1726
#2	L-.02276	L.57318	3.1342	32.773	10667.	20311.	7.4253

Errors	LC Low	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000

Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	133.95	130560.	8.5930	1.6356	-2.3440	L-9.2683	-5.8165
SDev	.87	568.	.6502	1.5474	1.1718	4.7846	3.8244
%RSD	.64642	.43510	7.5663	94.606	49.991	51.623	65.752

#1	133.33	130160.	9.0527	.54144	-1.5154	L-12.652	-8.5208
#2	134.56	130960.	8.1332	2.7298	-3.1727	L-5.8851	-3.1122

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Low	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	

Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.8808	4982.7	L-5.1438	L-.41717	L-.20286	7.0332	L-3.0443
SDev	.6731	21.1	1.3520	1.27096	.00024	.2147	.9922
%RSD	35.787	.42310	26.285	304.66	.11651	3.0526	32.593

#1	-2.3567	4997.6	L-6.0998	L-1.3159	L-.20303	7.1850	L-2.3427
#2	-1.4048	4967.8	L-4.1877	L.48153	L-.20270	6.8814	L-3.7459

Errors	NOCHECK	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000

Elem	Al3082	Pb2203	Se1960
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Units	ppb	ppb	ppb
Avge	L14.404	L-1.019	L-3.191
SDev	12.112	.266	1.722
%RSD	84.090	26.15	53.98

#1	L5.8392	L-.8303	L-4.409
#2	L22.968	L-1.207	L-1.973

Errors	LC Low	LC Low	LC Low
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36368	--	--	--	--	--	--
SDev	68.58935	--	--	--	--	--	--
%RSD	.1886007	--	--	--	--	--	--
#1	36416	--	--	--	--	--	--
#2	36319	--	--	--	--	--	--

Analysis Report

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Method: EPA6010B Sample Name: 5042596003
Run Time: 10/27/10 22:01:16
Comment: 6010B
Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L.02820	L-1.1939	305.23	56.432	L.23379	118780.	L-.57561
SDev	.42162	.2918	1.64	.011	.00773	153.	.15360
%RSD	1495.3	24.441	.53824	.01986	3.3058	.12844	26.684

#1	L.32632	L-1.4002	306.39	56.440	L.22833	118880.	L-.68422
#2	L-.26993	L-.98756	304.07	56.425	L.23926	118670.	L-.46700

Errors	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L.17595	L-.32567	2.8871	97.253	3510.7	27521.	6.2479
SDev	.42760	.27708	.2989	.123	4.9	63.	.1801
%RSD	243.02	85.082	10.353	.12683	.13863	.23000	2.8826

#1	L.47831	L-.12974	3.0984	97.340	3514.1	27565.	6.1206
#2	L-.12641	L-.52159	2.6757	97.166	3507.3	27476.	6.3753

Errors	LC Low	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000

Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-5.0104	96871.	8.7718	3.6628	-.56077	L2.5002	.94979
SDev	.1761	226.	.8028	4.5940	.15781	.4881	5.4128
%RSD	3.5146	.23364	9.1516	125.42	28.142	19.522	569.89

#1	L-4.8859	97031.	9.3394	.41435	-.44918	L2.8453	-2.8776
#2	L-5.1349	96711.	8.2042	6.9113	-.67236	L2.1551	4.7772

Errors	LC Low	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Low	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	

Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3036	5103.1	L-1.3216	L.55128	L-.85188	4.9419	L-3.3504
SDev	2.7494	12.1	.6603	.20624	.27283	.1422	1.0207
%RSD	210.90	.23777	49.962	37.410	32.027	2.8772	30.465

#1	3.2477	5111.7	L-1.7885	L.40545	L-.65896	4.8414	L-4.0721
#2	-.64047	5094.5	L-.85467	.69711	L-1.0448	5.0425	L-2.6286

Errors	NOCHECK	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000

Elem	Al3082	Pb2203	Se1960
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Units	ppb	ppb	ppb
Avge	L17.354	L.8459	L1.186
SDev	.817	1.425	.031
%RSD	4.7085	168.4	2.645
#1	L17.932	L-.1614	L1.208
#2	L16.777	L1.853	L1.164

Errors	LC Low	LC Low	LC Low
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36874	--	--	--	--	--	--
SDev	50.91169	--	--	--	--	--	--
%RSD	.1380694	--	--	--	--	--	--
#1	36838	--	--	--	--	--	--
#2	36910	--	--	--	--	--	--

Analysis Report

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Method: EPA6010B Sample Name: 5042596004
Run Time: 10/27/10 22:06:57
Comment: 6010B
Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.4437	L4.8287	304.61	56.863	L.36443	118850.	L.25195
SDev	6.5996	9.4023	1.07	.029	.21737	1124.	.88765
%RSD	191.64	194.72	.35008	.05096	59.648	.94551	352.31
#1	8.1103	11.477	303.86	56.842	L.51813	119650.	.87962
#2	L-1.2230	L-1.8197	305.36	56.883	L.21072	118060.	L-.37571
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.5941	2.6207	5.5368	94.962	3611.0	27455.	6.8254
SDev	3.5768	3.6061	4.5812	14.510	85.0	305.	.6479
%RSD	137.88	137.60	82.742	15.280	2.3527	1.1092	9.4919
#1	5.1232	5.1706	8.7762	84.702	3671.1	27670.	7.2835
#2	L.06489	L.07076	2.2973	105.22	3550.9	27240.	6.3673
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-5.3332	98529.	7.0810	20.921	-12.944	12.599	19.521
SDev	1.5590	1309.	.8538	29.357	16.644	13.089	32.954
%RSD	29.231	1.3281	12.058	140.33	128.58	103.89	168.81
#1	L-4.2309	99454.	6.4773	41.680	-24.713	21.854	42.823
#2	L-6.4356	97604.	7.6847	.16207	-1.1751	L3.3439	-3.7810
Errors	LC Low	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.0735	5127.9	L3.1762	2.9129	L-1.1449	4.8781	L-.38304
SDev	11.6064	43.5	7.6823	2.9656	.6855	.4973	3.06451
%RSD	191.10	.84843	241.87	101.81	59.872	10.195	800.06
#1	-14.280	5158.7	8.6084	5.0099	L-1.6296	4.5264	L1.7839
#2	2.1335	5097.1	L-2.2560	.81594	L-.66018	5.2297	L-2.5500
Errors	NOCHECK	LC Pass	LC Low	LC Pass	LC Low	LC Pass	LC Low
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	35.811	L-1.667	L2.450
SDev	23.883	1.326	3.232
%RSD	66.691	79.52	131.9

#1	52.698	L-2.604	L4.735
#2	L18.923	L-.7296	L.1641

Errors	LC Pass	LC Low	LC Low
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36658	--	--	--	--	--	--
SDev	148.4924	--	--	--	--	--	--
%RSD	.4050751	--	--	--	--	--	--
#1	36763	--	--	--	--	--	--
#2	36553	--	--	--	--	--	--

Analysis Report

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Method: EPA6010B Sample Name: 5042596005
 Run Time: 10/27/10 22:12:39
 Comment: 6010B
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.33807	L-2.6013	L.54020	L1.0721	L.18882	107.73	L-.23251
SDev	.82528	2.9689	.18304	.0659	.00886	.48	.08336
%RSD	244.12	114.13	33.883	6.1421	4.6921	.44150	35.851

#1	L-.92163	L-4.7007	L.41077	L1.0256	L.19509	108.06	L-.29145
#2	L.24549	L-.50195	L.66962	L1.1187	L.18256	107.39	L-.17356

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.24579	L.10078	1.5509	L8.8996	42.796	15.674	1.7907
SDev	.09658	.06692	.8714	1.9572	11.118	.341	.0534
%RSD	39.294	66.403	56.185	21.992	25.979	2.1730	2.9837

#1	L-.17750	L.05346	L.93473	L10.283	34.934	15.915	1.7529
#2	L-.31409	L.14811	2.1670	L7.5156	50.657	15.433	1.8285

Errors	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000

Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.03775	L78.825	L.69840	2.5079	-.86088	L1.0228	-9.3136
SDev	.14387	180.93	1.0271	.1368	.43142	4.5467	.2536
%RSD	381.16	229.54	147.07	5.4564	50.113	444.54	2.7234

#1	L.06399	L-49.115	L-.02788	2.6047	-.55583	L-2.1922	-9.1342
#2	L-.13948	L206.77	L1.4247	2.4112	-1.1659	L4.2378	-9.4929

Errors	LC Low	LC Low	LC Low	NOCHECK	NOCHECK	LC Low	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	

Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.21944	21.763	L-1.1205	.74979	L-.74910	9.7505	L-5.7812
SDev	3.8584	1.539	1.6077	.09707	.13327	.1505	3.4643
%RSD	1758.3	7.0705	143.48	12.947	17.791	1.5437	59.924

#1	2.9477	22.851	L.01630	.68115	L-.84334	9.6441	L-8.2308
#2	-2.5089	20.675	L-2.2573	.81843	L-.65486	9.8569	L-3.3315

Errors	NOCHECK	LC Pass	LC Low	LC Pass	LC Low	LC Pass	LC Low
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000

Elem	Al3082	Pb2203	Se1960
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Units	ppb	ppb	ppb
Avg	L.78556	L.2611	L-2.955
SDev	.01738	.3333	2.658
%RSD	2.2123	127.6	89.95

#1	L.79785	L.4968	L-1.075
#2	L.77328	L.0254	L-4.834

Errors	LC Low	LC Low	LC Low
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	37718	--	--	--	--	--	--
SDev	3.535534	--	--	--	--	--	--
%RSD	.0093735	--	--	--	--	--	--
#1	37721	--	--	--	--	--	--
#2	37716	--	--	--	--	--	--

Analysis Report

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Method: EPA6010B Sample Name: 5042596006
 Run Time: 10/27/10 22:18:20
 Comment: 6010B
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.86368	L-.41842	317.68	74.057	L.18238	89968.	L-.42910
SDev	.23584	.55002	1.40	.142	.00472	121.	.00487
%RSD	27.307	131.45	.44145	.19182	2.5883	.13495	1.1358
#1	L-.69691	L-.80734	318.67	74.158	L.18571	90053.	L-.42566
#2	L-1.0304	L-.02949	316.69	73.957	L.17904	89882.	L-.43255
Errors	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-.05877	L-.17951	2.3867	71.028	3442.9	26939.	6.0482
SDev	.03094	.06825	.0461	5.234	1.5	51.	.0025
%RSD	52.647	38.019	1.9319	7.3686	.04330	.18834	.04213
#1	L-.08064	L-.22777	2.4193	74.729	3443.9	26975.	6.0463
#2	L-.03689	L-.13125	2.3541	67.327	3441.8	26904.	6.0500
Errors	LC Low	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	L-8.9712	92628.	15.663	.76480	-1.2447	L-.32436	-.92846
SDev	.8155	1.	.033	1.8788	.4441	2.72641	4.71849
%RSD	9.0902	.00058	.21029	245.66	35.683	840.55	508.21
#1	L-9.5478	92628.	15.686	2.0933	-1.5587	L1.6035	2.4080
#2	L-8.3946	92628.	15.640	-.56370	-.93062	L-2.2522	-4.2649
Errors	LC Low	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Low	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5588	5971.2	L-2.9705	L.49987	L-1.0451	L2.9867	L-2.2447
SDev	4.3400	3.7	.9867	.03556	.0020	.1299	1.1293
%RSD	278.42	.06279	33.216	7.1139	.18769	4.3493	50.309
#1	1.5100	5973.8	L-3.6682	L.52501	L-1.0464	L2.8949	L-1.4462
#2	-4.6276	5968.5	L-2.2728	L.47472	L-1.0437	3.0786	L-3.0432
Errors	NOCHECK	LC Pass	LC Low	LC Low	LC Low	LC Low	LC Low
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	L13.451	L-.5753	L-1.349
SDev	3.618	.3294	4.466
%RSD	26.896	57.26	331.1

#1	L10.893	L-.3424	L1.809
#2	L16.010	L-.8082	L-4.507

Errors	LC Low	LC Low	LC Low
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36973	--	--	--	--	--	--
SDev	137.1787	--	--	--	--	--	--
%RSD	.3710240	--	--	--	--	--	--
#1	36876	--	--	--	--	--	--
#2	37070	--	--	--	--	--	--

Method: EPA6010B Sample Name: 499474
 Run Time: 10/27/10 22:24:01
 Comment: 6010B
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	451.12	1055.6	1303.0	1038.9	1027.1	98785.	1017.1
SDev	13.76	29.8	42.9	33.1	33.5	3184.	33.4
%RSD	3.0503	2.8234	3.2944	3.1891	3.2570	3.2231	3.2862

#1	460.85	1076.7	1333.3	1062.4	1050.8	101040.	1040.7
#2	441.39	1034.5	1272.6	1015.5	1003.5	96534.	993.43

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	959.09	1001.3	962.48	10104.	14899.	36749.	1009.3
SDev	29.79	31.0	30.58	344.	436.	1233.	32.6
%RSD	3.1056	3.0951	3.1776	3.4043	2.9245	3.3550	3.2283

#1	980.15	1023.2	984.10	10347.	15207.	37621.	1032.3
#2	938.03	979.39	940.85	9860.9	14591.	35878.	986.22

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000

Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1006.4	103950.	991.87	1014.9	1005.8	1038.8	1035.8
SDev	29.3	2996.	27.56	26.3	21.7	32.2	39.2
%RSD	2.9095	2.8825	2.7784	2.5958	2.1541	3.1042	3.7892

#1	1027.1	106070.	1011.4	1033.5	1021.1	1061.6	1063.6
#2	985.68	101830.	972.39	996.26	990.48	1016.0	1008.1

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	

Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1055.0	11166.	1184.9	999.72	1001.3	1018.0	981.94
SDev	32.0	348.	38.0	31.91	33.2	35.0	25.45
%RSD	3.0366	3.1169	3.2064	3.1922	3.3145	3.4335	2.5919

#1	1077.6	11412.	1211.8	1022.3	1024.8	1042.7	999.93
#2	1032.3	10920.	1158.1	977.15	977.88	993.25	963.94

Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000

Elem	Al3082	Pb2203	Se1960
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Units	ppb	ppb	ppb
Avge	9954.0	1009.	1049.
SDev	315.3	23.	34.
%RSD	3.1676	2.302	3.284

#1	10177.	1025.	1073.
#2	9731.1	992.4	1024.

Errors	LC Pass	LC Pass	LC Pass
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37233	--	--	--	--	--	--
SDev	1067.731	--	--	--	--	--	--
%RSD	2.867701	--	--	--	--	--	--
#1	36478	--	--	--	--	--	--
#2	37988	--	--	--	--	--	--

Analysis Report

10/27/10 10:35:19 PM

page 1

Method: EPA6010B Sample Name: 499475
 Run Time: 10/27/10 22:29:42
 Comment: 6010B
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	401.55	1069.1	1313.2	1058.6	1035.4	99933.	1024.0
SDev	.46	.1	2.5	.7	1.2	42.	.6
%RSD	.11342	.01050	.18787	.06415	.11980	.04194	.05784
#1	401.23	1069.0	1311.4	1058.1	1034.5	99903.	1023.6
#2	401.87	1069.2	1314.9	1059.1	1036.2	99962.	1024.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	967.95	1006.5	980.55	10173.	15254.	37054.	1020.4
SDev	1.81	2.1	.85	8.	19.	9.	1.0
%RSD	.18704	.20533	.08679	.08036	.12304	.02434	.09790
#1	969.23	1005.0	979.95	10167.	15241.	37047.	1019.7
#2	966.66	1007.9	981.15	10178.	15267.	37060.	1021.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1018.2	106520.	998.13	1021.8	1010.3	1052.3	1050.7
SDev	4.4	93.	5.34	.5	3.0	3.4	.9
%RSD	.43513	.08775	.53524	.05253	.29772	.32461	.08558
#1	1015.1	106450.	1001.9	1021.4	1012.4	1054.7	1050.1
#2	1021.3	106590.	994.36	1022.2	1008.1	1049.9	1051.4
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1062.6	10220.	1191.7	1014.6	1013.0	1022.2	993.67
SDev	4.8	80.	3.6	1.4	.3	2.2	.20
%RSD	.45511	.78564	.29894	.14039	.02942	.21379	.01984
#1	1059.2	10163.	1189.2	1013.6	1012.8	1023.7	993.53
#2	1066.1	10277.	1194.2	1015.6	1013.2	1020.6	993.81
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	10126.	1014.	1059.
SDev	12.	2.	4.
%RSD	.11959	.1802	.3330

#1	10117.	1015.	1056.
#2	10134.	1013.	1061.

Errors	LC Pass	LC Pass	LC Pass
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36352	--	--	--	--	--	--
SDev	14.14214	--	--	--	--	--	--
%RSD	.0389033	--	--	--	--	--	--

#1	36342	--	--	--	--	--	--
#2	36362	--	--	--	--	--	--

Analysis Report

10/27/10 10:41:00 PM

page 1

Method: EPA6010B Sample Name: 5042596006 pds
 Run Time: 10/27/10 22:35:24
 Comment: 6010B
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	410.85	1071.8	1322.4	1058.3	1045.4	97682.	1033.9
SDev	.24	8.0	4.8	7.2	5.9	668.	10.1
%RSD	.05851	.74396	.36091	.68374	.56431	.68407	.97563
#1	411.02	1066.2	1319.0	1063.4	1041.2	97210.	1026.7
#2	410.68	1077.4	1325.7	1053.2	1049.5	98155.	1041.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	974.18	1013.9	986.68	10237.	15242.	36435.	1028.4
SDev	6.80	5.8	7.11	108.	121.	425.	3.7
%RSD	.69840	.57614	.72062	1.0570	.79462	1.1651	.36231
#1	969.37	1009.7	991.71	10160.	15327.	36135.	1025.7
#2	978.99	1018.0	981.65	10313.	15156.	36735.	1031.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1027.4	103360.	1005.5	1051.8	1014.4	1070.3	1076.6
SDev	6.4	352.	13.8	10.2	25.6	2.2	15.3
%RSD	.62297	.34090	1.3711	.96639	2.5202	.20741	1.4177
#1	1022.9	103600.	995.76	1059.0	996.31	1071.9	1087.4
#2	1031.9	103110.	1015.3	1044.6	1032.5	1068.7	1065.8
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1062.8	11458.	1205.2	1021.1	1017.9	1031.0	1002.7
SDev	22.4	18.	6.8	1.5	3.9	16.2	8.6
%RSD	2.1089	.15442	.56718	.14267	.37855	1.5700	.86158
#1	1046.9	11470.	1200.4	1022.1	1015.2	1019.5	996.54
#2	1078.6	11445.	1210.0	1020.1	1020.6	1042.4	1008.8
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	10198.	1027.	1067.
SDev	42.	14.	10.
%RSD	.40696	1.331	.9244

#1	10227.	1017.	1060.
#2	10168.	1037.	1074.

Errors	LC Pass	LC Pass	LC Pass
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36505	--	--	--	--	--	--
SDev	340.8255	--	--	--	--	--	--
%RSD	.9336405	--	--	--	--	--	--
#1	36264	--	--	--	--	--	--
#2	36746	--	--	--	--	--	--

Analysis Report

10/27/10 10:46:42 PM

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Method: EPA6010B Sample Name: 5042596006 5x
 Run Time: 10/27/10 22:41:05
 Comment: 6010B
 Mode: CONC Corr. Factor: 5

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4279	L-3.7939	323.75	74.435	.84349	90286.	L-.73328
SDev	3.2761	11.8597	2.55	1.075	.10211	178.	.03186
%RSD	229.43	312.59	.78808	1.4445	12.105	.19672	4.3455
#1	3.7444	L4.5921	325.56	73.675	L.77129	90161.	L-.71075
#2	L-.88864	L-12.180	321.95	75.196	.91569	90412.	L-.75581
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	10000.	35000.	100000.	15000.	10000.	500000.	25000.
Low	1.2000	5.7000	2.8000	4.4000	.80000	14.300	.40000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9878	L-.18918	10.231	152.90	3301.2	26864.	8.6792
SDev	.1563	1.36739	2.725	9.99	27.6	22.	.4079
%RSD	7.8644	722.78	26.635	6.5367	.83508	.08237	4.6996
#1	2.0984	L.77771	8.3042	145.83	3281.7	26880.	8.3908
#2	1.8773	L-1.1561	12.158	159.96	3320.7	26849.	8.9676
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	25000.	100000.	100000.	300000.	60000.	500000.	20000.
Low	.80000	.80000	1.3000	15.200	18.700	11.500	.30000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.3530	85585.	22.950	6.2640	-3.8163	L-2.4947	-10.117
SDev	1.6024	486.	6.209	1.2431	6.0110	15.0539	2.590
%RSD	47.790	.56799	27.054	19.845	157.51	603.44	25.600
#1	4.4861	85241.	18.559	7.1430	.43413	L-13.139	-8.2859
#2	2.2199	85929.	27.340	5.3850	-8.0668	8.1500	-11.949
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Low	NOCHECK
High	40000.	200000.	100000.			40000.	
Low	2.1000	216.00	1.8000			4.9000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.840	6200.5	L-10.189	3.2618	L-1.3702	16.191	L-1.3812
SDev	17.534	75.4	1.680	1.0226	1.3455	1.477	1.8034
%RSD	80.286	1.2158	16.484	31.350	98.198	9.1233	130.56
#1	9.4411	6253.8	L-11.377	3.9849	L-.41877	17.235	L-2.6565
#2	34.238	6147.2	L-9.0017	2.5388	L-2.3215	15.146	L-.10604
Errors	NOCHECK	LC Pass	LC Low	LC Pass	LC Low	LC Pass	LC Low
High		100000.	75000.	10000.	100000.	50000.	50000.
Low		20.000	6.4000	.60000	.60000	3.0000	9.0000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	L-7.7373	L-.4585	11.20
SDev	1.1414	4.4233	10.83
%RSD	14.751	964.7	96.73

#1	L-6.9302	L2.669	L3.539
#2	L-8.5444	L-3.586	18.86

Errors	LC Low	LC Low	LC Pass
High	250000.	50000.	50000.
Low	26.500	2.800	6.700

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37340	--	--	--	--	--	--
SDev	38.89087	--	--	--	--	--	--
%RSD	.1041548	--	--	--	--	--	--
#1	37367	--	--	--	--	--	--
#2	37312	--	--	--	--	--	--

Method: EPA6010B Sample Name: icvccv2

Operator:

Run Time: 10/27/10 22:46:46

Comment: 6010B

Mode: CONC Corr. Factor: 1

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	495.15	1070.8	1017.4	1028.7	1060.1	10710.	1069.5
SDev	2.56	1.6	4.4	3.3	2.8	36.	2.3
%RSD	.51665	.14906	.43560	.31947	.26785	.33509	.21844
#1	493.34	1069.6	1014.3	1026.4	1058.1	10684.	1067.9
#2	496.96	1071.9	1020.5	1031.0	1062.1	10735.	1071.2
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.00	1000.0	1000.0	1000.0	1000.0	10000.	1000.0
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1014.1	1045.5	988.64	10472.	10692.	10668.	1049.3
SDev	3.5	3.4	3.21	46.	39.	17.	3.2
%RSD	.34057	.32419	.32476	.43997	.36363	.15939	.30768
#1	1011.7	1043.1	986.37	10439.	10665.	10656.	1047.0
#2	1016.6	1047.9	990.91	10504.	10720.	10680.	1051.6
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.0	1000.0	1000.0	10000.	10000.	10000.	1000.0
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1044.5	10820.	1045.2	1058.4	1055.0	1064.8	1056.8
SDev	5.2	83.	8.6	10.1	3.1	1.3	12.7
%RSD	.49316	.76451	.82574	.95555	.29773	.12538	1.2032
#1	1040.9	10761.	1039.1	1051.3	1052.7	1063.9	1047.8
#2	1048.1	10878.	1051.3	1065.6	1057.2	1065.8	1065.8
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	1000.0	10000.	1000.0			1000.0	
Range	10.000	10.000	10.000			10.000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1080.5	Q5544.2	Q1224.8	1031.9	1022.5	1068.1	1022.8
SDev	9.2	15.8	3.8	3.6	3.6	2.4	14.2
%RSD	.85101	.28551	.30734	.34582	.34971	.22121	1.3896
#1	1074.0	Q5533.0	Q1222.2	1029.3	1019.9	1066.4	1012.7
#2	1087.0	Q5555.4	Q1227.5	1034.4	1025.0	1069.8	1032.8
Errors	NOCHECK	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value		5000.0	1000.0	1000.0	1000.0	1000.0	1000.0
Range		10.000	10.000	10.000	10.000	10.000	10.000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	10424.	1056.	1073.
SDev	37.	5.	10.
%RSD	.35959	.5173	.9666

#1	10398.	1052.	1065.
#2	10451.	1060.	1080.

Errors	QC Pass	QC Pass	QC Pass
Value	10000.	1000.	1000.
Range	10.000	10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37121	--	--	--	--	--	--
SDev	173.9483	--	--	--	--	--	--
%RSD	.4685980	--	--	--	--	--	--
#1	37244	--	--	--	--	--	--
#2	36998	--	--	--	--	--	--

Method: EPA6010B Sample Name: icbccb2
Run Time: 10/27/10 22:52:26
Comment: 6010B
Mode: CONC Corr. Factor: 1

Operator:

Table with 8 columns: Elem, Ag3280, As1890, B_2496, Ba4934, Be3130, Ca3158, Cd2265. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, #1, #2, #1, #2, #1, #2. Rows include numerical values for each element.

Table with 8 columns: Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range.

Table with 8 columns: Elem, Co2286, Cr2677, Cu3247, Fe2714, K_7664, Mg2790, Mn2576. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, #1, #2, #1, #2, #1, #2. Rows include numerical values for each element.

Table with 8 columns: Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range.

Table with 8 columns: Elem, Mo2020, Na3302, Ni2316, 2203/1, 2203/2, Sb2068, 1960/1. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, #1, #2, #1, #2, #1, #2. Rows include numerical values for each element.

Table with 8 columns: Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range.

Table with 8 columns: Elem, 1960/2, Si2881, Sn1899, Ti3372, V_2924, Zn2062, Tl1908. Rows include Units, Avge, SDev, %RSD.

Table with 8 columns: #1, #2, #1, #2, #1, #2, #1, #2. Rows include numerical values for each element.

Table with 8 columns: Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range, Errors, Value, Range.

Table with 4 columns: Elem, Al3082, Pb2203, Se1960.

Units	ppb	ppb	ppb
Avge	-12.882	.5945	1.131
SDev	3.311	1.912	.222
%RSD	25.700	321.6	19.66

#1	-15.223	-.7575	1.289
#2	-10.541	1.947	.9742

Errors	QC Pass	QC Pass	QC Pass
Value	.00000	.0000	.0000
Range	50.000	5.000	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37406	--	--	--	--	--	--
SDev	79.90307	--	--	--	--	--	--
%RSD	.2136132	--	--	--	--	--	--
#1	37349	--	--	--	--	--	--
#2	37462	--	--	--	--	--	--

Method: EPA6010B Sample Name: crdl
Run Time: 10/27/10 22:58:06
Comment: 6010B
Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca3158	Cd2265
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.9276	6.2235	153.50	Q8.9159	10.446	524.04	.94735
SDev	.6886	.5272	.95	.0318	.049	3.80	.01522
%RSD	6.9364	8.4709	.62203	.35620	.46738	.72429	1.6065
#1	10.415	6.5963	152.83	Q8.8934	10.411	521.36	.95811
#2	9.4407	5.8508	154.18	Q8.9383	10.480	526.73	.93659
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	10.000	10.000	150.00	3.0000	10.000	500.00	1.0000
Range	50.000	50.000	20.000	50.000	20.000	20.000	50.000
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.786	19.817	11.302	103.17	5221.9	517.79	10.149
SDev	.265	.277	.261	9.28	37.3	7.48	.007
%RSD	1.3409	1.3958	2.3057	8.9989	.71490	1.4444	.06735
#1	19.599	19.622	11.117	96.609	5195.5	512.50	10.144
#2	19.974	20.013	11.486	109.74	5248.3	523.08	10.154
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	20.000	20.000	10.000	100.00	5000.0	500.00	10.000
Range	20.000	20.000	50.000	50.000	20.000	20.000	20.000
Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	Sb2068	1960/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	30.355	2126.6	41.807	8.5431	5.2912	12.982	10.795
SDev	.010	64.6	.225	3.4896	.7921	.426	2.873
%RSD	.03264	3.0375	.53911	40.847	14.971	3.2851	26.610
#1	30.362	2172.3	41.647	11.011	4.7310	13.283	12.826
#2	30.348	2080.9	41.966	6.0756	5.8513	12.680	8.7638
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value	30.000	2000.0	40.000			10.000	
Range	20.000	50.000	20.000			50.000	
Elem	1960/2	Si2881	Sn1899	Ti3372	V_2924	Zn2062	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.9100	32.843	79.760	20.910	29.528	42.835	18.324
SDev	1.4923	3.192	2.592	.166	.375	1.832	1.753
%RSD	18.865	9.7179	3.2496	.79466	1.2693	4.2773	9.5683
#1	8.9652	35.100	77.928	20.793	29.263	41.539	17.084
#2	6.8548	30.586	81.593	21.028	29.793	44.130	19.564
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value			70.000	20.000	30.000	40.000	20.000
Range			20.000	50.000	20.000	20.000	50.000
Elem	Al3082	Pb2203	Se1960				

Units	ppb	ppb	ppb
Avge	193.34	6.374	8.871
SDev	1.00	.634	1.952
%RSD	.51525	9.941	22.00

#1	192.63	6.822	10.25
#2	194.04	5.926	7.491

Errors	QC Pass	QC Pass	QC Pass
Value	200.00	6.000	10.00
Range	50.000	50.00	50.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37002	--	--	--	--	--	--
SDev	126.5721	--	--	--	--	--	--
%RSD	.3420729	--	--	--	--	--	--
#1	37091	--	--	--	--	--	--
#2	36912	--	--	--	--	--	--



Dissolved Mercury- liquids 7470A

Project Number 5042596

Initials/ Date Compiled RAK 11-3-10

All prep and analytical information
is included in one section:

- * *Sample Preparation and Analysis Logs*
- * *Initial Calibration Data*
- * *Calibration Verification Data*
- * *Laboratory Control Samples (LCS)*
- * *Matrix Spike and Spike Duplicate Samples
(MS/MSD)*
- * *Method Blanks*
- * *Client Sample Raw Data*

Mercury Log

PASI INDY EPA 7470A/7471A

Call/Spike Sol. #: 22491

ICV Sol. #: 22492

Time In

1:16 PM

Bath Temp(C): 95/3

Page Number:

2119

Wednesday, October 27, 2010

Aqua Regia: 0
 Hydroxylamine Hydrochloride: 0
 Potassium Permanganate: 3150
 Stannous Chloride: 0

Stannous Chloride 0
 Hg Carrier solution:
 Potassium Persulfate: 9318

Daily Working Std and Digested CAL Std's Prepared Per SOP# IN-1-040-rev.10
 and SOP# S-IN-VAP-1-019 rev.03

Analyst	sample ID	calc avg	client	absorbance	date/time	QC batch	(g or mL)	initial wf/vol	final vol	project #	QC/Comments
RAK	499762		In-house QC Account		10/27/2010	2905	30	30	30		
RAK	5042596001		Arcadis U.S._Inc.		10/27/2010	2904	30	30	30	5042596	
RAK	5042596002		Arcadis U.S._Inc.		10/27/2010	2904	30	30	30	5042596	
RAK	5042596003		Arcadis U.S._Inc.		10/27/2010	2904	30	30	30	5042596	
RAK	5042596004		Arcadis U.S._Inc.		10/27/2010	2904	30	30	30	5042596	
RAK	5042596005		Arcadis U.S._Inc.		10/27/2010	2904	30	30	30	5042596	
RAK	5042596006		Arcadis U.S._Inc.		10/27/2010	2904	30	30	30	5042596	
RAK	499696		In-house QC Account		10/27/2010	2904	30	30	30	5042596	
RAK	5042637003		Heartland Environmen		10/27/2010	2905	30	30	30	5042637	
RAK	499761		In-house QC Account		10/27/2010	2905	30	30	30	5042637	
RAK	499695		In-house QC Account		10/27/2010	2904	30	30	30		
RAK	5042569007		Environmental Resour		10/27/2010	2905	30	30	30	5042569	
RAK	499763		In-house QC Account		10/27/2010	2905	30	30	30		
RAK	499764		In-house QC Account		10/27/2010	2905	30	30	30		
RAK	5042580001		Patriot Engineering		10/27/2010	2905	30	30	30	5042580	
RAK	499765		In-house QC Account		10/27/2010	2905	30	30	30		
RAK	499766		In-house QC Account		10/27/2010	2905	30	30	30		
RAK	5042637001		Heartland Environmen		10/27/2010	2905	30	30	30	5042637	
RAK	5042637002		Heartland Environmen		10/27/2010	2905	30	30	30	5042637	
RAK	499697		In-house QC Account		10/27/2010	2904	30	30	30		
RAK	499770		In-house QC Account		10/27/2010	2905	30	30	30		
RAK	5042637005		Heartland Environmen		10/27/2010	2905	30	30	30	5042637	
RAK	5042637006		Heartland Environmen		10/27/2010	2905	30	30	30	5042637	
RAK	5042637007		Heartland Environmen		10/27/2010	2905	30	30	30	5042637	
RAK	499767		In-house QC Account		10/27/2010	2905	30	30	30	5042637	
RAK	499768		In-house QC Account		10/27/2010	2905	30	30	30		
RAK	5042637008		Heartland Environmen		10/27/2010	2905	30	30	30	5042637	
RAK	5042645001		Vecetra Utility Holding		10/27/2010	2905	30	30	30	5042645	
RAK	5042475036		Arcadis U.S._Inc.		10/27/2010	2904	30	30	30	5042475	
RAK	499769		In-house QC Account		10/27/2010	2905	30	30	30		
RAK	5042475034		Arcadis U.S._Inc.		10/27/2010	2904	30	30	30	5042475	
RAK	5042719001		Patriot Engineering		10/27/2010	2905	30	30	30	5042719	
RAK	5042719002		Patriot Engineering		10/27/2010	2905	30	30	30	5042719	
RAK	499771		In-house QC Account		10/27/2010	2905	30	30	30		
RAK	499772		In-house QC Account		10/27/2010	2905	30	30	30		

Reviewed By: RAK

Review Date: Wednesday, October 27, 2010

Mercury Log

PASI INDY EPA 7470A/7471A

Call/ Spike Sol: # 22491

ICV Sol #: 22492

Time In 1:16 PM Bath Temp(C): 95/3

Time Out: 3:16 PM

Page Number: 2119

Wednesday, October 27, 2010

Aqua Regia: 0
 Hydroxylamine Hydrochloride: 0
 Potassium Permanganate: 3150
 Stannous Chloride: 0

Stannous Chloride 0
 Hg Carrier solution:
 Potassium Persulfate: 9318

Daily Working Std and Digested CAL Std's Prepared Per SOP# IN-1-040-rev.10 and SOP# S-IN-VAP-I-019 rev.03

Analyst	sample ID	calc avg	client	absorbance	date/time	QC batch	(g or mL)		project #	QC/Comments
							initial	final vol		
RAK	5042719003		Patriot Engineering		10/27/2010	2905	30	30	5042719	
RAK	499894		In-house QC Account		10/27/2010	2904	30	30		
RAK	5042637004		Heartland Environmen		10/27/2010	2905	30	30	5042637	
RAK	5042670001		Patriot Engineering		10/27/2010	2905	30	30	5042670	

Mercury Log

PASI INDY EPA 7470A7471A

Call/ Spike Sol. #: 22491

ICV Sol. #: 22492

Time In:

Time Out:

Bath Temp(C): 95/3

Page Number: 2121

Thursday, October 28, 2010

Aqua Regia: 0
 Hydroxylamine Hydrochloride: 9343
 Potassium Permanganate: 3150
 Stannous Chloride: 9354

Stannous Chloride 9354
 Hg Carrier solution: 9353
 Potassium Persulfate: 9318

Daily Working Std and Digested CAL Std's Prepared Per SOP# IN-1-040-rev.10 and SOP# S-IN-VAP-1-019 rev.03

Analyst	sample ID	calc avg	client	absorbance	datetime	QC batch	initial wt/vol (g or mL)	final vol (mL)	project #	QC/Comments
RAK	Calib Blank			0.01089536	10/28/2010 8:08:13 AM					
RAK	0.2			0.01978854	10/28/2010 8:09:35 AM					
RAK	1			0.08994096	10/28/2010 8:11:00 AM					
RAK	2			0.17421934	10/28/2010 8:12:25 AM					
RAK	5			0.44186499	10/28/2010 8:13:51 AM					
RAK	7.5			0.6457619	10/28/2010 8:15:16 AM					
RAK	10			0.86221725	10/28/2010 8:16:45 AM					
RAK	ICV	5.09660787		0.4418258	10/28/2010 8:18:17 AM					
RAK	ICB	-0.0091368		0.00220476	10/28/2010 8:19:43 AM					
RAK	RLVS	2/01-186118		0.17621919	10/28/2010 8:21:06 AM					
RAK	499680	0.03289421	In-house QC Account	0.00582377	10/28/2010 8:22:30 AM					
RAK	499681	5.15151894	In-house QC Account	0.44655382	10/28/2010 8:23:53 AM					
RAK	499682	5.15732965	In-house QC Account	0.44705415	10/28/2010 8:25:15 AM					
RAK	5041828019	0.03047399	AMEC (Louisville)	0.00561538	10/28/2010 8:26:39 AM				5041828	
RAK	499683	5.22988089	In-house QC Account	0.45330104	10/28/2010 8:28:04 AM					
RAK	5042743001	-0.0091799	Sanitary Management	0.00220105	10/28/2010 8:29:30 AM				5042743	
RAK	499684	5.04004545	In-house QC Account	0.4369556	10/28/2010 8:30:57 AM					
RAK	499685	0.03969869	In-house QC Account	0.030640966	10/28/2010 8:32:23 AM					
RAK	499686	5.11624171	In-house QC Account	0.44351634	10/28/2010 8:33:48 AM					
RAK	499687	5.12607057	In-house QC Account	0.44436264	10/28/2010 8:35:08 AM					
RAK	CCV	5.0836421		0.44070941	10/28/2010 8:36:31 AM					
RAK	CCB	-0.0087147		0.0022411	10/28/2010 8:37:53 AM					
RAK	5041828020	0.02721284	AMEC (Louisville)	0.00533459	10/28/2010 8:39:15 AM				5041828	
RAK	499688	5.12671678	In-house QC Account	0.44441828	10/28/2010 8:40:37 AM					
RAK	5042776001	0.06121443	Vectren Utility Holding	0.00826223	10/28/2010 8:42:01 AM				5042776	
RAK	499689	5.13912876	In-house QC Account	0.44548699	10/28/2010 8:43:23 AM					
RAK	499585	0.0281552	In-house QC Account	0.00541573	10/28/2010 8:44:46 AM					
RAK	499586	5.06004411	In-house QC Account	0.43867755	10/28/2010 8:46:10 AM					
RAK	5042475002	-0.0281423	Arcadis U.S., Inc.	0.00056833	10/28/2010 8:47:34 AM				5042475	
RAK	5042475003	-0.0454383	Arcadis U.S., Inc.	-0.0009209	10/28/2010 8:49:00 AM				5042475	
RAK	5042475004	0.01842017	Arcadis U.S., Inc.	0.00457751	10/28/2010 8:50:24 AM				5042475	
RAK	499587	4.89393611	In-house QC Account	0.424237511	10/28/2010 8:51:50 AM					
RAK	CCV	5.05578229		0.43831059	10/28/2010 8:53:16 AM					
RAK	CCB	-0.0075063		0.00234515	10/28/2010 8:54:41 AM					
RAK	499588	4.85503602	In-house QC Account	0.42102569	10/28/2010 8:56:04 AM					

Reviewed By: RAK

Review Date: Thursday, October 28, 2010

Mercury Log

PASI INDY EPA 7470A/7471A

Call Spike Sol. #: 22491

ICV Sol. #: 22492

Time In:

Time Out:

Bath Temp(C): 95/3

Page Number: 2121

Thursday, October 28, 2010

Aqua Regia: 0
 Hydroxylamine Hydrochloride: 9343
 Potassium Permanganate: 3150
 Stannous Chloride: 9354

Stannous Chloride 9354
 Hg Carrier solution: 9353
 Potassium Persulfate: 9318

Daily Working Std and Digested CAL Std's Prepared Per SOP# IN-1-040-rev. 10 and SOP# S-IN-VAP-1-019 rev.03

Analyst	sample ID	calc avg	client	absorbance	date/time	QC batch	initial w/vol	final vol	project #	QC/Comments
							(g or mL)	(mL)		
RAK	5042475005	0.01243976	Arcadis U.S. Inc.	0.00406258	10/28/2010 8:57:31 AM				5042475	
RAK	5042475007	-0.083682	Arcadis U.S. Inc.	-0.0042138	10/28/2010 8:58:57 AM				5042475	
RAK	5042475009	-0.0409937	Arcadis U.S. Inc.	-0.0005382	10/28/2010 9:00:21 AM				5042475	
RAK	5042475013	0.01820825	Arcadis U.S. Inc.	0.00455926	10/28/2010 9:01:42 AM				5042475	
RAK	5042475014	0.03534414	Arcadis U.S. Inc.	0.00603472	10/28/2010 9:03:03 AM				5042475	
RAK	5042475016	0.00968828	Arcadis U.S. Inc.	0.00382567	10/28/2010 9:04:22 AM				5042475	
RAK	5042475017	0.00794472	Arcadis U.S. Inc.	0.00367554	10/28/2010 9:05:45 AM				5042475	
RAK	5042475019	0.00546611	Arcadis U.S. Inc.	0.00346212	10/28/2010 9:07:08 AM				5042475	
RAK	5042475020	0.01590431	Arcadis U.S. Inc.	0.00436089	10/28/2010 9:08:31 AM				5042475	
RAK	CCV	5.01563754		0.434854	10/28/2010 9:09:54 AM				5042475	
RAK	CCB	0.00308294		0.00325693	10/28/2010 9:11:18 AM				5042475	
RAK	5042475021	0.02770719	Arcadis U.S. Inc.	0.00537715	10/28/2010 9:12:40 AM				5042475	
RAK	5042475025	0.0034576537	Arcadis U.S. Inc.	0.00693202	10/28/2010 9:14:03 AM				5042475	
RAK	5042475026	0.030648217	Arcadis U.S. Inc.	0.00354961	10/28/2010 9:15:27 AM				5042475	
RAK	5042475027	0.02787248	Arcadis U.S. Inc.	0.00539139	10/28/2010 9:16:53 AM				5042475	
RAK	5042475029	0.03037454	Arcadis U.S. Inc.	0.003560682	10/28/2010 9:18:17 AM				5042475	
RAK	5042475030	0.04273408	Arcadis U.S. Inc.	0.00667102	10/28/2010 9:19:42 AM				5042475	
RAK	5042475031	0.007185	Arcadis U.S. Inc.	0.00361013	10/28/2010 9:21:07 AM				5042475	
RAK	5042475032	0.02241903	Arcadis U.S. Inc.	0.00492183	10/28/2010 9:22:34 AM				5042475	
RAK	499694	0.0220758	In-house QC Account	0.00109067	10/28/2010 9:24:03 AM				5042475	
RAK	499695	4.99657619	In-house QC Account	0.43321275	10/28/2010 9:25:27 AM				5042475	
RAK	CCV	5.01272145		0.43460291	10/28/2010 9:26:48 AM				5042475	
RAK	CCB	-0.0426417		-0.0006801	10/28/2010 9:28:12 AM				5042475	
RAK	5042475034	-0.0084739	Arcadis U.S. Inc.	-0.00226184	10/28/2010 9:29:33 AM				5042475	
RAK	5042475036	-0.0294564	Arcadis U.S. Inc.	0.00045518	10/28/2010 9:30:54 AM				5042475	
RAK	5042596001	0.00839621	Arcadis U.S. Inc.	0.00371441	10/28/2010 9:32:14 AM				5042596	
RAK	5042596002	-0.0124346	Arcadis U.S. Inc.	0.00192081	10/28/2010 9:33:36 AM				5042596	
RAK	5042596003	0.01742757	Arcadis U.S. Inc.	0.00449204	10/28/2010 9:35:00 AM				5042596	
RAK	5042596004	0.00083589	Arcadis U.S. Inc.	0.00306345	10/28/2010 9:36:22 AM				5042596	
RAK	5042596005	0.00288259	Arcadis U.S. Inc.	0.00323968	10/28/2010 9:37:44 AM				5042596	
RAK	5042596006	-0.1454035	Arcadis U.S. Inc.	-0.0095282	10/28/2010 9:39:07 AM				5042596	
RAK	499696	5.12137195	In-house QC Account	0.44395807	10/28/2010 9:40:31 AM				5042596	
RAK	499697	4.93368663	In-house QC Account	0.42779776	10/28/2010 9:41:55 AM				5042596	
RAK	CCV	4.99925726		0.4334436	10/28/2010 9:43:20 AM				5042596	
RAK	CCB	0.01671187		0.00443042	10/28/2010 9:44:44 AM				5042596	
RAK	499761	0.00624395	In-house QC Account	0.0035291	10/28/2010 9:46:07 AM				5042596	
RAK	499762	5.11023544	In-house QC Account	0.44299918	10/28/2010 9:47:31 AM				5042596	

Reviewed By: RAK

Review Date: Thursday, October 28, 2010

Mercury Log

PASI INDY EPA 7470A/7471A

Call/ Spike Sol. #: 22491

ICV Sol. #: 22492

Time In:

Time Out:

Bath Temp(C): 95/3

Page Number: 2121
Thursday, October 28, 2010

Aqua Regia: 0
Stannous Chloride: 9354
Hydroxylamine Hydrochloride: 9343
Hg Carrier solution: 9353
Potassium Permanganate: 3150
Potassium Persulfate: 9318
Stannous Chloride: 9354

Daily Working Std and Digested CAL Std's Prepared Per SOP# IN-1-040-rev.10 and SOP# S-IN-VAP-1-019 rev.03

Analyst	sample ID	calc avg	client	absorbance	date/time	QC batch	(g or mL)		project #	QC/Comments
							initial wt/vol	final vol (mL)		
RAK	5042569007	0.01973107	Environmental Resour	0.00469038	10/28/2010 9:48:57 AM				5042569	
RAK	499763	4.9407427	In-house QC Account	0.42840531	10/28/2010 9:50:22 AM					
RAK	499764	5.00507455	In-house QC Account	0.43394449	10/28/2010 9:51:46 AM					
RAK	5042580001	1.56573327	Patriot Engineering	0.13780615	10/28/2010 9:53:05 AM				5042580	
RAK	499765	5.46655821	In-house QC Account	0.47367972	10/28/2010 9:54:25 AM					
RAK	499766	5.58509434	In-house QC Account	0.48388606	10/28/2010 9:55:46 AM					
RAK	5042637001	0.19234208	Hearland Environment	0.01955275	10/28/2010 9:57:08 AM				5042637	
RAK	5042637002	0.10853667	Hearland Environment	0.01233683	10/28/2010 9:58:30 AM				5042637	
RAK	CCV	5.12298454		0.44409692	10/28/2010 9:59:54 AM					
RAK	CCB	0.00800244		0.00368051	10/28/2010 10:01:17 AM					
RAK	5042637003	0.020133079	Hearland Environment	0.0203267	10/28/2010 10:02:39 AM				5042637	
RAK	5042637004	0.038835995	Hearland Environment	0.03384742	10/28/2010 10:04:02 AM				5042637	
RAK	5042637005	0.37934774	Hearland Environment	0.03565454	10/28/2010 10:05:24 AM				5042637	
RAK	5042637006	0.024468292	Hearland Environment	0.02405946	10/28/2010 10:06:48 AM				5042637	
RAK	5042637007	0.08789704	Hearland Environment	0.01055969	10/28/2010 10:08:12 AM				5042637	
RAK	499767	5.26542913	In-house QC Account	0.45636186	10/28/2010 10:09:37 AM					
RAK	499768	5.27133641	In-house QC Account	0.45687049	10/28/2010 10:11:12 AM					
RAK	5042637008	0.34650986	Hearland Environment	0.03282709	10/28/2010 10:12:36 AM				5042637	
RAK	5042645001	0.03284824	Veetren Utility Holding	0.030581981	10/28/2010 10:14:01 AM				5042645	
RAK	5042670001	1.33729662	Patriot Engineering	0.11813701	10/28/2010 10:15:26 AM				5042670	
RAK	CCV	5.00504063		0.43394157	10/28/2010 10:16:49 AM					
RAK	CCB	-0.0051334		0.00254946	10/28/2010 10:18:13 AM					
RAK	499769	6.33260835	In-house QC Account	0.54824942	10/28/2010 10:19:34 AM					
RAK	499770	6.25741931	In-house QC Account	0.5417754	10/28/2010 10:20:54 AM					
RAK	5042719001	0.30036073	Patriot Engineering	0.0288535	10/28/2010 10:22:15 AM				5042719	
RAK	5042719002	0.10127657	Patriot Engineering	0.011771171	10/28/2010 10:23:36 AM				5042719	
RAK	499771	5.19583967	In-house QC Account	0.45036998	10/28/2010 10:24:58 AM					
RAK	499772	5.0859857	In-house QC Account	0.4409112	10/28/2010 10:26:20 AM					
RAK	5042719003	7.98050168	Patriot Engineering	0.69013834	10/28/2010 10:27:43 AM				5042719	
RAK	CCV	5.05616649		0.43834367	10/28/2010 10:29:07 AM					
RAK	CCB	0.0425262		0.00665303	10/28/2010 10:30:32 AM					
RAK	RLVS	1.95498604		0.17132206	10/28/2010 10:31:54 AM					

Reviewed By: RAK

Review Date: Thursday, October 28, 2010

Sample Information File C:\AAUSER\SAMPINFO\102810HG.SIF

Description : EPA SW 846 METHOD 7470A
 Batch ID :
 Volume Units :
 Weight Units :
 Analyst : RAK
 Sample Volume : 0.00

AS Sample ID Loc	Sample Sample Weight Units	User Dilution	Remarks
9	499680_B2866Dx1	1.0000	In-house QC Account
10	499681_B2866Dx1	1.0000	In-house QC Account
11	499682_B2866Dx1	1.0000	In-house QC Account
12	5041828019_B2866Dx1	1.0000	AMEC (Louisville)
13	499683_B2866Dx1	1.0000	In-house QC Account
14	5042743001_B2866Dx1	1.0000	Sanitary Management & Engineering Co. Inc.
15	499684_B2866Dx1	1.0000	In-house QC Account
16	499685_B2867Dx1	1.0000	In-house QC Account
17	499686_B2867Dx1	1.0000	In-house QC Account
18	499687_B2867Dx1	1.0000	In-house QC Account
19	5041828020_B2867Dx1	1.0000	AMEC (Louisville)
20	499688_B2867Dx1	1.0000	In-house QC Account
21	5042776001_B2867Dx1	1.0000	Vectren Utility Holdings Inc.
22	499689_B2867Dx1	1.0000	In-house QC Account
23	499585_B2865Dx1	1.0000	In-house QC Account
24	499586_B2865Dx1	1.0000	In-house QC Account
25	5042475002_B2865Dx1	1.0000	Arcadis U.S. Inc.
26	5042475003_B2865Dx1	1.0000	Arcadis U.S. Inc.
27	5042475004_B2865Dx1	1.0000	Arcadis U.S. Inc.
28	499587_B2865Dx1	1.0000	In-house QC Account
29	499588_B2865Dx1	1.0000	In-house QC Account
30	5042475005_B2865Dx1	1.0000	Arcadis U.S. Inc.
31	5042475007_B2865Dx1	1.0000	Arcadis U.S. Inc.
32	5042475009_B2865Dx1	1.0000	Arcadis U.S. Inc.
33	5042475013_B2865Dx1	1.0000	Arcadis U.S. Inc.
34	5042475014_B2865Dx1	1.0000	Arcadis U.S. Inc.
35	5042475016_B2865Dx1	1.0000	Arcadis U.S. Inc.
36	5042475017_B2865Dx1	1.0000	Arcadis U.S. Inc.
37	5042475019_B2865Dx1	1.0000	Arcadis U.S. Inc.
38	5042475020_B2865Dx1	1.0000	Arcadis U.S. Inc.
39	5042475021_B2865Dx1	1.0000	Arcadis U.S. Inc.
40	5042475025_B2865Dx1	1.0000	Arcadis U.S. Inc.
41	5042475026_B2865Dx1	1.0000	Arcadis U.S. Inc.
42	5042475027_B2865Dx1	1.0000	Arcadis U.S. Inc.
43	5042475029_B2865Dx1	1.0000	Arcadis U.S. Inc.
44	5042475030_B2865Dx1	1.0000	Arcadis U.S. Inc.
45	5042475031_B2865Dx1	1.0000	Arcadis U.S. Inc.
46	5042475032_B2865Dx1	1.0000	Arcadis U.S. Inc.
47	499694_B2868Dx1	1.0000	In-house QC Account
48	499695_B2868Dx1	1.0000	In-house QC Account
49	5042475034_B2868Dx1	1.0000	Arcadis U.S. Inc.
50	5042475036_B2868Dx1	1.0000	Arcadis U.S. Inc.
51	5042596001_B2868Dx1	1.0000	Arcadis U.S. Inc.
52	5042596002_B2868Dx1	1.0000	Arcadis U.S. Inc.
53	5042596003_B2868Dx1	1.0000	Arcadis U.S. Inc.
54	5042596004_B2868Dx1	1.0000	Arcadis U.S. Inc.
55	5042596005_B2868Dx1	1.0000	Arcadis U.S. Inc.
56	5042596006_B2868Dx1	1.0000	Arcadis U.S. Inc.
57	499696_B2868Dx1	1.0000	In-house QC Account
58	499697_B2868Dx1	1.0000	In-house QC Account
59	499761_B2869Dx1	1.0000	In-house QC Account

60	499762_B2869Dx1	1.0000	In-house QC Account
61	5042569007_B2869Dx1	1.0000	Environmental Resource Management
62	499763_B2869Dx1	1.0000	In-house QC Account
63	499764_B2869Dx1	1.0000	In-house QC Account
64	5042580001_B2869Dx1	1.0000	Patriot Engineering
65	499765_B2869Dx1	1.0000	In-house QC Account
66	499766_B2869Dx1	1.0000	In-house QC Account
67	5042637001_B2869Dx1	1.0000	Heartland Environmental
68	5042637002_B2869Dx1	1.0000	Heartland Environmental
69	5042637003_B2869Dx1	1.0000	Heartland Environmental
70	5042637004_B2869Dx1	1.0000	Heartland Environmental
71	5042637005_B2869Dx1	1.0000	Heartland Environmental
72	5042637006_B2869Dx1	1.0000	Heartland Environmental
73	5042637007_B2869Dx1	1.0000	Heartland Environmental
74	499767_B2869Dx1	1.0000	In-house QC Account
75	499768_B2869Dx1	1.0000	In-house QC Account
76	5042637008_B2869Dx1	1.0000	Heartland Environmental
77	5042645001_B2869Dx1	1.0000	Vectren Utility Holdings_ Inc.
78	5042670001_B2869Dx1	1.0000	Patriot Engineering
79	499769_B2869Dx1	1.0000	In-house QC Account
80	499770_B2869Dx1	1.0000	In-house QC Account
81	5042719001_B2869Dx1	1.0000	Patriot Engineering
82	5042719002_B2869Dx1	1.0000	Patriot Engineering
83	499771_B2869Dx1	1.0000	In-house QC Account
84	499772_B2869Dx1	1.0000	In-house QC Account
85	5042719003_B2869Dx1	1.0000	Patriot Engineering

Method Name: Pace Hg
 Method Description: SW-846 7470A/7471A
 Element: Hg

Date: 10/28/2010
 Technique: FI-MHS
 Calibration Type:
 Hg, Calc. Intercept : Linear
 Wavelength: 253.7 nm
 Sample Info Name: 102810HG.SIF Results Data Set Name: 102810hg

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 10/28/2010
 Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1			0.0109	0.0109	08:08:13	No

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 10/28/2010
 Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1			0.0198	0.0307	08:09:35	No

[Hg] Standard number 1 applied. [0.200]

Correlation Coefficient: 1.00000

Slope: 0.09894

Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 10/28/2010
 Sample ID: S1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1			0.0899	0.1008	08:11:00	No

[Hg] Standard number 2 applied. [1.000]

Correlation Coefficient: 0.99978

Slope: 0.08930

Intercept : 0.00086

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 10/28/2010
 Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1			0.1742	0.1851	08:12:25	No

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99982

Slope: 0.08677

Intercept : 0.00157

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 10/28/2010
 Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1			0.4419	0.4528	08:13:51	No

[Hg] Standard number 4 applied. [5.000]

Correlation Coefficient: 0.99996

Slope: 0.08807

Intercept : 0.00072

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 10/28/2010
 Sample ID: S7.5

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1			0.6458	0.6567	08:15:16	No

[Hg] Standard number 5 applied. [7.500]
 Correlation Coefficient: 0.99987 Slope: 0.08640
 Intercept : 0.00252

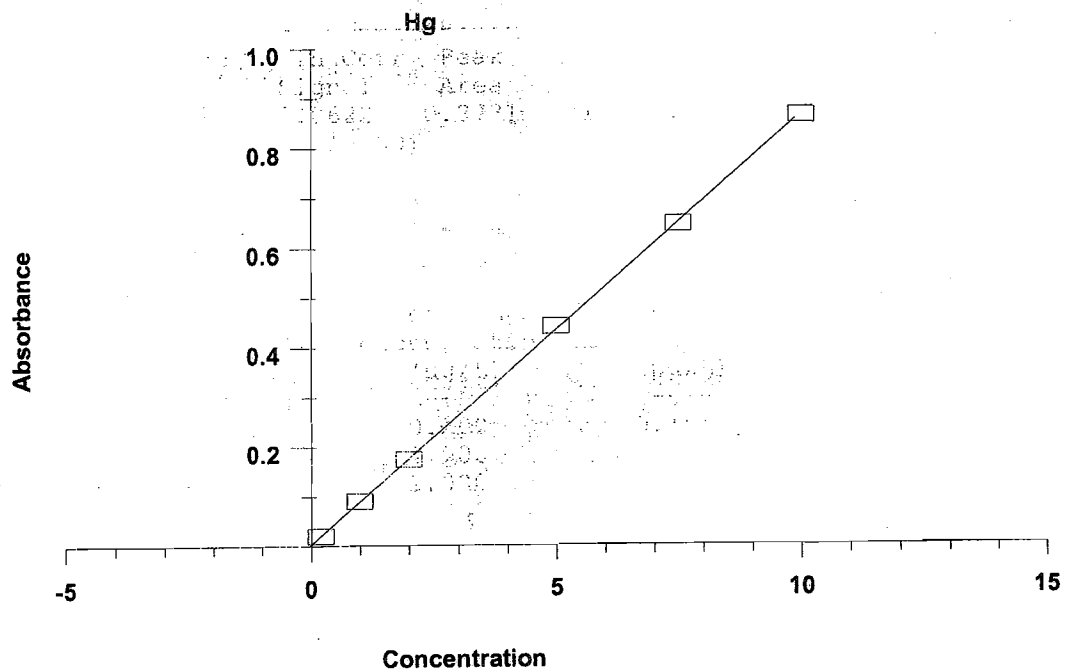
Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 10/28/2010
 Sample ID: S10.0

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1			0.8622	0.8731	08:16:45	No

[Hg] Standard number 6 applied. [10.00]
 Correlation Coefficient: 0.99993 Slope: 0.08610
 Intercept : 0.00299

Calibration data for Hg

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0109	---	---	---	---
S0.2	0.0198	0.200	0.195	---	---
S1.0	0.0899	1.000	1.010	---	---
S2.0	0.1742	2.000	1.989	---	---
S5.0	0.4419	5.000	5.097	---	---
S7.5	0.6458	7.500	7.465	---	---
S10.0	0.8622	10.000	9.979	---	---
Calib Blank	0.0109	---	---	---	---
Correlation Coefficient: 0.99993		Slope:	0.08610	Intercept:	0.0030



Element: Hg Seq. No.: 8 AS Loc.: 8 Date: 10/28/2010
 Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.097	5.097	0.4418	0.4527	1 08:18:17	No

QC value within specified limits.

Element: Hg Seq. No.: 9 AS Loc.: 1 Date: 10/28/2010
 Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.009	-0.009	0.0022	0.0131	1 08:19:43	No

QC value within specified limits.

Element: Hg Seq. No.: 10 AS Loc.: 4 Date: 10/28/2010
 Sample ID: RLVS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	2.012	2.012	0.1762	0.1871	1 08:21:06	No

QC value within specified limits.

Element: Hg Seq. No.: 11 AS Loc.: 9 Date: 10/28/2010
 Sample ID: 499680_B2866Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.033	0.033	0.0058	0.0167	1 08:22:30	No

Element: Hg Seq. No.: 12 AS Loc.: 10 Date: 10/28/2010
 Sample ID: 499681_B2866Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.152	5.152	0.4466	0.4574	1 08:23:53	No

Element: Hg Seq. No.: 13 AS Loc.: 11 Date: 10/28/2010
 Sample ID: 499682_B2866Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.157	5.157	0.4471	0.4579	1 08:25:15	No

Element: Hg Seq. No.: 14 AS Loc.: 12 Date: 10/28/2010
 Sample ID: 5041828019_B2866Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.030	0.030	0.0056	0.0165	1 08:26:39	No

Element: Hg Seq. No.: 15 AS Loc.: 13 Date: 10/28/2010
 Sample ID: 499683_B2866Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.230	5.230	0.4533	0.4642	1 08:28:04	No

=====
 Element: Hg Seq. No.: 16 AS Loc.: 14 Date: 10/28/2010
 Sample ID: 5042743001_B2866Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.009	-0.009	0.0022	0.0131	1 08:29:30	No

=====
 Element: Hg Seq. No.: 17 AS Loc.: 15 Date: 10/28/2010
 Sample ID: 499684_B2866Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.040	5.040	0.4370	0.4479	1 08:30:57	No

=====
 Element: Hg Seq. No.: 18 AS Loc.: 16 Date: 10/28/2010
 Sample ID: 499685_B2867Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.040	0.040	0.0064	0.0173	1 08:32:23	No

=====
 Element: Hg Seq. No.: 19 AS Loc.: 17 Date: 10/28/2010
 Sample ID: 499686_B2867Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.116	5.116	0.4435	0.4544	1 08:33:48	No

=====
 Element: Hg Seq. No.: 20 AS Loc.: 18 Date: 10/28/2010
 Sample ID: 499687_B2867Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.126	5.126	0.4444	0.4553	1 08:35:08	No

=====
 Element: Hg Seq. No.: 21 AS Loc.: 5 Date: 10/28/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.084	5.084	0.4407	0.4516	1 08:36:31	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 22 AS Loc.: 1 Date: 10/28/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.009	-0.009	0.0022	0.0131	1 08:37:53	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 23 AS Loc.: 19 Date: 10/28/2010
 Sample ID: 5041828020_B2867Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.027	0.027	0.0053	0.0162	1 08:39:15	No

=====
 Element: Hg Seq. No.: 24 AS Loc.: 20 Date: 10/28/2010
 Sample ID: 499688_B2867Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.127	5.127	0.4444	0.4553	1 08:40:37	No

=====
 Element: Hg Seq. No.: 25 AS Loc.: 21 Date: 10/28/2010
 Sample ID: 5042776001_B2867Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.061	0.061	0.0083	0.0192	1 08:42:01	No

=====
 Element: Hg Seq. No.: 26 AS Loc.: 22 Date: 10/28/2010
 Sample ID: 499689_B2867Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.139	5.139	0.4455	0.4564	1 08:43:23	No

=====
 Element: Hg Seq. No.: 27 AS Loc.: 23 Date: 10/28/2010
 Sample ID: 499585_B2865Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.028	0.028	0.0054	0.0163	1 08:44:46	No

=====
 Element: Hg Seq. No.: 28 AS Loc.: 24 Date: 10/28/2010
 Sample ID: 499586_B2865Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.060	5.060	0.4387	0.4496	1 08:46:10	No

=====
 Element: Hg Seq. No.: 29 AS Loc.: 25 Date: 10/28/2010
 Sample ID: 5042475002_B2865Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.028	-0.028	0.0006	0.0115	1 08:47:34	No

=====
 Element: Hg Seq. No.: 30 AS Loc.: 26 Date: 10/28/2010
 Sample ID: 5042475003_B2865Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.045	-0.045	-0.0009	0.0100	1 08:49:00	No

=====
 Element: Hg Seq. No.: 31 AS Loc.: 27 Date: 10/28/2010
 Sample ID: 5042475004_B2865Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.018	0.018	0.0046	0.0155	1 08:50:24	No

=====
 Element: Hg Seq. No.: 32 AS Loc.: 28 Date: 10/28/2010
 =====

Sample ID: 499587_B2865Dx1

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	4.894	4.894	0.4244	0.4353	1 08:51:50	No

=====
 Element: Hg Seq. No.: 33 AS Loc.: 5 Date: 10/28/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.056	5.056	0.4383	0.4492	1 08:53:16	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 34 AS Loc.: 1 Date: 10/28/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.008	-0.008	0.0023	0.0132	1 08:54:41	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 35 AS Loc.: 29 Date: 10/28/2010
 Sample ID: 499588_B2865Dx1

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	4.855	4.855	0.4210	0.4319	1 08:56:04	No

=====
 Element: Hg Seq. No.: 36 AS Loc.: 30 Date: 10/28/2010
 Sample ID: 5042475005_B2865Dx1

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.012	0.012	0.0041	0.0150	1 08:57:31	No

=====
 Element: Hg Seq. No.: 37 AS Loc.: 31 Date: 10/28/2010
 Sample ID: 5042475007_B2865Dx1

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.084	-0.084	-0.0042	0.0067	1 08:58:57	No

=====
 Element: Hg Seq. No.: 38 AS Loc.: 32 Date: 10/28/2010
 Sample ID: 5042475009_B2865Dx1

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.041	-0.041	-0.0005	0.0104	1 09:00:21	No

=====
 Element: Hg Seq. No.: 39 AS Loc.: 33 Date: 10/28/2010
 Sample ID: 5042475013_B2865Dx1

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.018	0.018	0.0046	0.0155	1 09:01:42	No

=====
 Element: Hg Seq. No.: 40 AS Loc.: 34 Date: 10/28/2010

Sample ID: 5042475014_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Time	Peak Stored
1	0.035	0.035	0.0060	0.0169	1 09:03:03	No

Element: Hg Seq. No.: 41 AS Loc.: 35 Date: 10/28/2010
Sample ID: 5042475016_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Time	Peak Stored
1	0.010	0.010	0.0038	0.0147	1 09:04:22	No

Element: Hg Seq. No.: 42 AS Loc.: 36 Date: 10/28/2010
Sample ID: 5042475017_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Time	Peak Stored
1	0.008	0.008	0.0037	0.0146	1 09:05:45	No

Element: Hg Seq. No.: 43 AS Loc.: 37 Date: 10/28/2010
Sample ID: 5042475019_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Time	Peak Stored
1	0.005	0.005	0.0035	0.0144	1 09:07:08	No

Element: Hg Seq. No.: 44 AS Loc.: 38 Date: 10/28/2010
Sample ID: 5042475020_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Time	Peak Stored
1	0.016	0.016	0.0044	0.0153	1 09:08:31	No

Element: Hg Seq. No.: 45 AS Loc.: 5 Date: 10/28/2010
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Time	Peak Stored
1	5.016	5.016	0.4349	0.4457	1 09:09:54	No

QC value within specified limits.

Element: Hg Seq. No.: 46 AS Loc.: 1 Date: 10/28/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Time	Peak Stored
1	0.003	0.003	0.0033	0.0142	1 09:11:18	No

QC value within specified limits.

Element: Hg Seq. No.: 47 AS Loc.: 39 Date: 10/28/2010
Sample ID: 5042475021_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Time	Peak Stored
1	0.028	0.028	0.0054	0.0163	1 09:12:40	No

Element: Hg Seq. No.: 48 AS Loc.: 40 Date: 10/28/2010

Sample ID: 5042475025_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.046	0.046	0.0069	0.0178	1 09:14:03	No

Element: Hg Seq. No.: 49 AS Loc.: 41 Date: 10/28/2010
Sample ID: 5042475026_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.006	0.006	0.0035	0.0144	1 09:15:27	No

Element: Hg Seq. No.: 50 AS Loc.: 42 Date: 10/28/2010
Sample ID: 5042475027_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.028	0.028	0.0054	0.0163	1 09:16:53	No

Element: Hg Seq. No.: 51 AS Loc.: 43 Date: 10/28/2010
Sample ID: 5042475029_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.030	0.030	0.0056	0.0165	1 09:18:17	No

Element: Hg Seq. No.: 52 AS Loc.: 44 Date: 10/28/2010
Sample ID: 5042475030_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.043	0.043	0.0067	0.0176	1 09:19:42	No

Element: Hg Seq. No.: 53 AS Loc.: 45 Date: 10/28/2010
Sample ID: 5042475031_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.007	0.007	0.0036	0.0145	1 09:21:07	No

Element: Hg Seq. No.: 54 AS Loc.: 46 Date: 10/28/2010
Sample ID: 5042475032_B2865Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.022	0.022	0.0049	0.0158	1 09:22:34	No

Element: Hg Seq. No.: 55 AS Loc.: 47 Date: 10/28/2010
Sample ID: 499694_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.022	-0.022	0.0011	0.0120	1 09:24:03	No

Element: Hg Seq. No.: 56 AS Loc.: 48 Date: 10/28/2010
Sample ID: 499695_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	4.997	4.997	0.4332	0.4441	1 09:25:27	No

=====
 Element: Hg Seq. No.: 57 AS Loc.: 5 Date: 10/28/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.013	5.013	0.4346	0.4455	1 09:26:48	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 58 AS Loc.: 1 Date: 10/28/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.043	-0.043	-0.0007	0.0102	1 09:28:12	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 59 AS Loc.: 49 Date: 10/28/2010
 Sample ID: 5042475034_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.008	-0.008	0.0023	0.0132	1 09:29:33	No

=====
 Element: Hg Seq. No.: 60 AS Loc.: 50 Date: 10/28/2010
 Sample ID: 5042475036_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.029	-0.029	0.0005	0.0114	1 09:30:54	No

=====
 Element: Hg Seq. No.: 61 AS Loc.: 51 Date: 10/28/2010
 Sample ID: 5042596001_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.008	0.008	0.0037	0.0146	1 09:32:14	No

=====
 Element: Hg Seq. No.: 62 AS Loc.: 52 Date: 10/28/2010
 Sample ID: 5042596002_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.012	-0.012	0.0019	0.0128	1 09:33:36	No

=====
 Element: Hg Seq. No.: 63 AS Loc.: 53 Date: 10/28/2010
 Sample ID: 5042596003_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.017	0.017	0.0045	0.0154	1 09:35:00	No

=====
 Element: Hg Seq. No.: 64 AS Loc.: 54 Date: 10/28/2010
 Sample ID: 5042596004_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.001	0.001	0.0031	0.0140	1 09:36:22	No

=====
 Element: Hg Seq. No.: 65 AS Loc.: 55 Date: 10/28/2010
 Sample ID: 5042596005_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.003	0.003	0.0032	0.0141	1 09:37:44	No

=====
 Element: Hg Seq. No.: 66 AS Loc.: 56 Date: 10/28/2010
 Sample ID: 5042596006_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.145	-0.145	-0.0095	0.0014	1 09:39:07	No

=====
 Element: Hg Seq. No.: 67 AS Loc.: 57 Date: 10/28/2010
 Sample ID: 499696_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.121	5.121	0.4440	0.4549	1 09:40:31	No

=====
 Element: Hg Seq. No.: 68 AS Loc.: 58 Date: 10/28/2010
 Sample ID: 499697_B2868Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	4.934	4.934	0.4278	0.4387	1 09:41:55	No

=====
 Element: Hg Seq. No.: 69 AS Loc.: 5 Date: 10/28/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	4.999	4.999	0.4334	0.4443	1 09:43:20	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 70 AS Loc.: 1 Date: 10/28/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.017	0.017	0.0044	0.0153	1 09:44:44	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 71 AS Loc.: 59 Date: 10/28/2010
 Sample ID: 499761_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.006	0.006	0.0035	0.0144	1 09:46:07	No

=====
 Element: Hg Seq. No.: 72 AS Loc.: 60 Date: 10/28/2010
 Sample ID: 499762_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.110	5.110	0.4430	0.4539	1 09:47:31	No

=====
 Element: Hg Seq. No.: 73 AS Loc.: 61 Date: 10/28/2010
 Sample ID: 5042569007_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.020	0.020	0.0047	0.0156	1 09:48:57	No

=====
 Element: Hg Seq. No.: 74 AS Loc.: 62 Date: 10/28/2010
 Sample ID: 499763_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	4.941	4.941	0.4284	0.4393	1 09:50:22	No

=====
 Element: Hg Seq. No.: 75 AS Loc.: 63 Date: 10/28/2010
 Sample ID: 499764_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.005	5.005	0.4339	0.4448	1 09:51:46	No

=====
 Element: Hg Seq. No.: 76 AS Loc.: 64 Date: 10/28/2010
 Sample ID: 5042580001_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	1.566	1.566	0.1378	0.1487	1 09:53:05	No

=====
 Element: Hg Seq. No.: 77 AS Loc.: 65 Date: 10/28/2010
 Sample ID: 499765_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.467	5.467	0.4737	0.4846	1 09:54:25	No

=====
 Element: Hg Seq. No.: 78 AS Loc.: 66 Date: 10/28/2010
 Sample ID: 499766_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.585	5.585	0.4839	0.4948	1 09:55:46	No

=====
 Element: Hg Seq. No.: 79 AS Loc.: 67 Date: 10/28/2010
 Sample ID: 5042637001_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.192	0.192	0.0196	0.0304	1 09:57:08	No

=====
 Element: Hg Seq. No.: 80 AS Loc.: 68 Date: 10/28/2010
 Sample ID: 5042637002_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored

1 0.109 0.109 0.0123 0.0232 1 09:58:30 No

=====
Element: Hg Seq. No.: 81 AS Loc.: 5 Date: 10/28/2010
Sample ID: CCV

Repl SampleConc StndConc BlnkCorr Peak Time Peak
µg/L µg/L Signal Area Stored
1 5.123 5.123 0.4441 0.4550 1 09:59:54 No

QC value within specified limits.

=====
Element: Hg Seq. No.: 82 AS Loc.: 1 Date: 10/28/2010
Sample ID: CCB

Repl SampleConc StndConc BlnkCorr Peak Time Peak
µg/L µg/L Signal Area Stored
1 0.008 0.008 0.0037 0.0146 1 10:01:17 No

QC value within specified limits.

=====
Element: Hg Seq. No.: 83 AS Loc.: 69 Date: 10/28/2010
Sample ID: 5042637003_B2869Dx1

Repl SampleConc StndConc BlnkCorr Peak Time Peak
µg/L µg/L Signal Area Stored
1 0.201 0.201 0.0203 0.0312 1 10:02:39 No

=====
Element: Hg Seq. No.: 84 AS Loc.: 70 Date: 10/28/2010
Sample ID: 5042637004_B2869Dx1

Repl SampleConc StndConc BlnkCorr Peak Time Peak
µg/L µg/L Signal Area Stored
1 0.358 0.358 0.0338 0.0447 1 10:04:02 No

=====
Element: Hg Seq. No.: 85 AS Loc.: 71 Date: 10/28/2010
Sample ID: 5042637005_B2869Dx1

Repl SampleConc StndConc BlnkCorr Peak Time Peak
µg/L µg/L Signal Area Stored
1 0.379 0.379 0.0357 0.0465 1 10:05:24 No

=====
Element: Hg Seq. No.: 86 AS Loc.: 72 Date: 10/28/2010
Sample ID: 5042637006_B2869Dx1

Repl SampleConc StndConc BlnkCorr Peak Time Peak
µg/L µg/L Signal Area Stored
1 0.245 0.245 0.0241 0.0350 1 10:06:48 No

=====
Element: Hg Seq. No.: 87 AS Loc.: 73 Date: 10/28/2010
Sample ID: 5042637007_B2869Dx1

Repl SampleConc StndConc BlnkCorr Peak Time Peak
µg/L µg/L Signal Area Stored
1 0.088 0.088 0.0106 0.0215 1 10:08:12 No

=====
Element: Hg Seq. No.: 88 AS Loc.: 74 Date: 10/28/2010
Sample ID: 499767_B2869Dx1

Repl SampleConc StndConc BlnkCorr Peak Time Peak
µg/L µg/L Signal Area Stored

1 5.265 5.265 0.4564 0.4673 1 10:09:37 No

=====
 Element: Hg Seq. No.: 89 AS Loc.: 75 Date: 10/28/2010
 Sample ID: 499768_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.271	5.271	0.4569	0.4678	1 10:11:12	No

=====
 Element: Hg Seq. No.: 90 AS Loc.: 76 Date: 10/28/2010
 Sample ID: 5042637008_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.347	0.347	0.0328	0.0437	1 10:12:36	No

=====
 Element: Hg Seq. No.: 91 AS Loc.: 77 Date: 10/28/2010
 Sample ID: 5042645001_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.033	0.033	0.0058	0.0167	1 10:14:01	No

=====
 Element: Hg Seq. No.: 92 AS Loc.: 78 Date: 10/28/2010
 Sample ID: 5042670001_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	1.337	1.337	0.1181	0.1290	1 10:15:26	No

=====
 Element: Hg Seq. No.: 93 AS Loc.: 5 Date: 10/28/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.005	5.005	0.4339	0.4448	1 10:16:49	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 94 AS Loc.: 1 Date: 10/28/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	-0.005	-0.005	0.0025	0.0134	1 10:18:13	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 95 AS Loc.: 79 Date: 10/28/2010
 Sample ID: 499769_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	6.333	6.333	0.5482	0.5591	1 10:19:34	No

=====
 Element: Hg Seq. No.: 96 AS Loc.: 80 Date: 10/28/2010
 Sample ID: 499770_B2869Dx1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored

1 6.257 6.257 0.5418 0.5527 1 10:20:54 No

=====
 Element: Hg Seq. No.: 97 AS Loc.: 81 Date: 10/28/2010
 Sample ID: 5042719001_B2869Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.300	0.300	0.0289	0.0397	1 10:22:15	No

=====
 Element: Hg Seq. No.: 98 AS Loc.: 82 Date: 10/28/2010
 Sample ID: 5042719002_B2869Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.101	0.101	0.0117	0.0226	1 10:23:36	No

=====
 Element: Hg Seq. No.: 99 AS Loc.: 83 Date: 10/28/2010
 Sample ID: 499771_B2869Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.196	5.196	0.4504	0.4613	1 10:24:58	No

=====
 Element: Hg Seq. No.: 100 AS Loc.: 84 Date: 10/28/2010
 Sample ID: 499772_B2869Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.086	5.086	0.4409	0.4518	1 10:26:20	No

=====
 Element: Hg Seq. No.: 101 AS Loc.: 85 Date: 10/28/2010
 Sample ID: 5042719003_B2869Dx1
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	7.981	7.981	0.6901	0.7010	1 10:27:43	No

=====
 Element: Hg Seq. No.: 102 AS Loc.: 5 Date: 10/28/2010
 Sample ID: CCV
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	5.056	5.056	0.4383	0.4492	1 10:29:07	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 103 AS Loc.: 1 Date: 10/28/2010
 Sample ID: CCB
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored
1	0.043	0.043	0.0067	0.0175	1 10:30:32	No

QC value within specified limits.

=====
 Element: Hg Seq. No.: 104 AS Loc.: 4 Date: 10/28/2010
 Sample ID: RLVS
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Time	Peak Stored

1 1.955 1.955 0.1713 0.1822 1 10:31:54 No
QC value within specified limits.



Wet Chemistry Methods

Project Number 5042596

Initials/ Date Compiled JJ 11-24-10

***Check all methods included in this package:**

- % Moisture (ASTM D 2974-87)
- pH (SM4500H+B/EPA 150.1/EPA 9045)
- Total Dissolved Solids (TDS) (SM2540C/EPA 160.1)
- Total Suspended Solids (TSS) (SM2540D/EPA 160.2)
- Total Solids (SM2540B/EPA 160.3)
- Alkalinity (SM2320B/EPA 310.1)
- Chloride (SM4500-Cl-E/EPA 325.2)
- Cyanide (SM4500-CN-E/EPA 335.4)
- Fluoride (SM4500-F-C/EPA 340.2)
- Ammonia (EPA 350.1, rev.2)
- Hexavalent Chromium (EPA 7196A)
- Total Kjeldahl Nitrogen (TKN) (EPA 351.2, rev.2)
- Nitrate/Nitrite (EPA 353.2, rev.2)
- Phosphorus (SM4500-P-E/EPA 365.2)
- Turbidimetric Sulfate (ASTM D516-02/EPA 375.4)
- Sulfide (SM4500-S2-D/EPA 376.2)
- Biochemical Oxygen Demand (SM5210B/EPA 405.1)
- Chemical Oxygen Demand (COD) (410.4/ Hach 8000)
- Phenolics (EPA 420.4, rev.1)
- TCLP prep (EPA SW-846 1311)
- Other _____

Pace Analytical Services
 7726 Moller Road
 Indianapolis, IN 46268

Laboratory Data Sheet
Cyanide Distillation Logbook
 For Methods: EPA 9012A, SM4500CN-E, and EPA 335.4

CN Std. # 22530 Vol. used: 0.2224

Ascorbic Acid # _____

MgCl₂ # 9234
 H₂SO₄ # 3152
 Sulfamic Acid # 4323
 0.25 N NaOH # 9337
 Sodium Arsenite # 2471
 Lead Carbonate # _____

Date/Analyst	Sample #	Batch	Matrix	Sample Volume or Weight		Block #	Presence Cl ₂	Y/N S ²⁻	Comments
				Initial	Final				
AP 10-28-10	6500257 / 394	5188	AO	50ml	50ml	2	N	N	
	1500258 / 35								
	5042569007								
	5042596001								
	6002								
	6003								
	6004								
	6005								
	5042596006								
	MS 506954								
	MSO 500260								
	5042874002		Soi	1g	50ml	3			
	MS 500394								
	5042874003								
	5042428004	5185	AO	50ml	50ml				Ascorbic treated sample for Cl ₂

Lachat Analysis Log
PASI / INDY Laboratory

Call/CCV Sol. #: 22531
 ICV/Spike Sol. #: 22532

5042596

Page Number: 3288
 Friday, October 29, 2010

Analyte	Analyst	Sample ID	Result	Client	Sample Type	Date/Time	QC Batch/Procedure	Comments	%rec	rp/d
Cyanide	ILP	std #1 0.5mg/l	13848205			10/28/2010 17:34:24				
Cyanide	ILP	std #2 0.2mg/l	6339245			10/28/2010 17:35:21				
Cyanide	ILP	std #3 0.1mg/l	3295322			10/28/2010 17:36:19				
Cyanide	ILP	std #4 0.05mg/l	1553530			10/28/2010 17:37:17				
Cyanide	ILP	std #5 0.02mg/l	676621			10/28/2010 17:38:16				
Cyanide	ILP	std #6 0.1mg/l	359770			10/28/2010 17:39:15				
Cyanide	ILP	std #7 0.005mg/l	191590			10/28/2010 17:40:14				
Cyanide	ILP	std #8 0.00mg/l	0			10/28/2010 17:41:14				
Cyanide	ILP	ICV	0.05325			10/28/2010 17:43:27				
Cyanide	ILP	ICB	-0.006847			10/28/2010 17:44:26				
Cyanide	ILP	499502	-0.006847	In-house QC Account	BLANK	10/28/2010 17:45:25	5676	3354 W		
Cyanide	ILP	499503	0.176763	In-house QC Account	LCS	10/28/2010 17:46:23	5676	3354 W	RR	
Cyanide	ILP	5042529001	-0.006016	ATC Associates	PS	10/28/2010 17:47:22	5676	3354 W		
Cyanide	ILP	5042529002	-0.00648	ATC Associates	PS	10/28/2010 17:48:20	5676	3354 W		
Cyanide	ILP	5042529003	-0.006847	ATC Associates	PS	10/28/2010 17:49:18	5676	3354 W		
Cyanide	ILP	5042659001	-0.006261	Vectren Utility Holdings	PS	10/28/2010 17:50:17	5676	3354 W		
Cyanide	ILP	5042659002	-0.006847	Vectren Utility Holdings	QOS	10/28/2010 17:51:14	5676	3354 W		
Cyanide	ILP	499504	0.187775	In-house QC Account	MS	10/28/2010 17:52:12	5676	3354 W		
Cyanide	ILP	499505	0.190928	In-house QC Account	MSD	10/28/2010 17:53:09	5676	3354 W		
Cyanide	ILP	5042659003	-0.002189	Vectren Utility Holdings	PS	10/28/2010 17:54:06	5676	3354 W		
Cyanide	ILP	CCV	0.049291			10/28/2010 17:55:05				
Cyanide	ILP	CCB	-0.006847			10/28/2010 17:56:05				
Cyanide	ILP	5042659004	-0.006293	Vectren Utility Holdings	PS	10/28/2010 17:58:16	5676	3354 W		
Cyanide	ILP	5042659005	-0.006847	Vectren Utility Holdings	PS	10/28/2010 17:59:13	5676	3354 W		
Cyanide	ILP	5042659006	0.026677	Vectren Utility Holdings	PS	10/28/2010 18:00:10	5676	3354 W		
Cyanide	ILP	5042659007	0.034177	Vectren Utility Holdings	PS	10/28/2010 18:01:07	5676	3354 W		
Cyanide	ILP	5042659008	0.050507	Vectren Utility Holdings	PS	10/28/2010 18:02:03	5676	3354 W		

Chloride Reagents
 Chloride Color Reagent:
 Buffered Potassium Ferricyanide:

Phenol Reagents
 4-AminoAntipyrine:

Ammonia Reagents
 Sodium Nitroprusside:
 Sodium Phenolate:
 Hypochlorite Solution:
 NH3 buffer:

Cyanide Reagents
 ChloramineT: 9316
 Pyridine: 9342
 Phosphate Buffer: 9317
 0.25 N NaOH: 9337

TKN Reagents
 08N NaOH:
 TKN Buffer:
 Salicylate nitroprusside sol'n:
 TKN hypochlorite sol'n:
 Mercuric sulfate sol'n:
 TKN carrier:
 TKN digestion solution:

Reviewed By: ILP
 Review Date: Friday, October 29, 2010

Lachat Analysis Log
PASI INDY Laboratory

Call/CCV Sol. #: 22531
 ICV/Spike Sol. #: 22532

Page Number: 3288
 Friday, October 29, 2010

Analyte	Analyst	Sample ID	Result	Client	Sample Type	Date/Time	QC Batch	Procedure	Comments	%rec	fpd
Cyanide	ILP	5042758002	-0.006847	Insite Environmental E	PS	10/28/2010 18:03:02	5676	3354 W			
Cyanide	ILP	5042758003	-0.006847	Insite Environmental E	PS	10/28/2010 18:04:00	5676	3354 W			
Cyanide	ILP	5042758004	-0.006847	Insite Environmental E	PS	10/28/2010 18:04:59	5676	3354 W			
Cyanide	ILP	5042758005	-0.006847	Insite Environmental E	PS	10/28/2010 18:05:57	5676	3354 W			
Cyanide	ILP	499506	0.177826	In-house QC Account	MS	10/28/2010 18:06:55	5676	3354 W			
Cyanide	ILP	CCV	0.048304			10/28/2010 18:07:55					
Cyanide	ILP	CCB	-0.006847			10/28/2010 18:08:54					
Cyanide	ILP	500257	-0.006847	In-house QC Account	BLANK	10/28/2010 18:11:06	5688	9012W MI			
Cyanide	ILP	500258	0.184494	In-house QC Account	LCS	10/28/2010 18:12:04	5688	9012W MI			
Cyanide	ILP	5042569007	-0.006847	Environmental Resourc	PS	10/28/2010 18:13:01	5688	9012W MI			
Cyanide	ILP	5042596001	-0.006847	Arcadis U.S., Inc.	PS	10/28/2010 18:13:59	5688	9012W MI			
Cyanide	ILP	5042596002	-0.006847	Arcadis U.S., Inc.	PS	10/28/2010 18:14:56	5688	9012W MI			
Cyanide	ILP	5042596003	-0.006847	Arcadis U.S., Inc.	PS	10/28/2010 18:15:54	5688	9012W MI			
Cyanide	ILP	5042596004	-0.006847	Arcadis U.S., Inc.	PS	10/28/2010 18:16:51	5688	9012W MI			
Cyanide	ILP	5042596005	-0.006847	Arcadis U.S., Inc.	PS	10/28/2010 18:17:48	5688	9012W MI			
Cyanide	ILP	5042596006	-0.005842	Arcadis U.S., Inc.	QCS	10/28/2010 18:18:46	5688	9012W MI			
Cyanide	ILP	500259	0.179861	In-house QC Account	MS	10/28/2010 18:19:43	5688	9012W MI			
Cyanide	ILP	CCV	0.048294			10/28/2010 18:20:43					
Cyanide	ILP	CCB	-0.006847			10/28/2010 18:21:43					
Cyanide	ILP	500260	0.203101	In-house QC Account	MSD	10/28/2010 18:23:55	5688	9012W MI			
Cyanide	ILP	500394	-0.006847	In-house QC Account	BLANK	10/28/2010 18:24:53	5689	9012 SMI	NR		
	ILP	500395	0.183596	In-house QC Account	LCS	10/28/2010 18:25:51	5689	9012 SMI	NR		
	ILP	5042874002	1.950562	Environmental Manage	PS	10/28/2010 18:26:50	5689	9012 SMI	NR		
	ILP	500396	2.051836	In-house QC Account	MS	10/28/2010 18:27:48	5689	9012 SMI	NR		
	ILP	5042874003	2.885495	Environmental Manage	PS	10/28/2010 18:28:47	5689	9012 SMI	NR		
	ILP	5042482004	0.047828		PS	10/28/2010 18:29:45	5685				
	ILP	499503	0.183532	In-house QC Account	LCS	10/28/2010 18:30:44	5676	3354 W	REPORT		

Chloride Reagents

Phenol Reagents

Ammonia Reagents

TKN Reagents

Chloride Color Reagent:

Buffered Potassium Ferricyanide:

Sodium Nitropusside:

08N NaOH:

Cyanide Reagents

4-AminoAntipyrine:

Sodium Phenolate:

TKN Buffer:

ChloramineT: 9316

Hypochlorite Solution:

Salicylate nitropusside sol'n:

Pyridine: 9342

NH3 buffer:

TKN hypochlorite sol'n:

Phosphate Buffer: 9317

Mercuric sulfate sol'n:

0.25 N NaOH: 9337

TKN carrier:

TKN digestion solution:

Reviewed By: ILP

Review Date: Friday, October 29, 2010

Lachat Analysis Log
PASI INDY Laboratory

Call/CCV Sol. #: 22531
 ICV/Spike Sol. #: 22532

Page Number: 3288
 Friday, October 29, 2010

Analyte	Analyst	Sample ID	Result	Client	Sample Type	Date/Time	QC Batch/Procedure	Comments	%rec	rp/d
Cyanide	ILP	CCV	0.049431			10/28/2010 18:31:43				
Cyanide	ILP	CCB	-0.006847			10/28/2010 18:32:43				
Cyanide	ILP	ICV	0.049246			10/28/2010 18:43:53				
Cyanide	ILP	ICB	-0.006847			10/28/2010 18:44:53				
	ILP	5042874002	0.037046	Environmental Manage	PS	10/28/2010 18:45:51	5689	9012 SMI		
	ILP	500396	0.919331	In-house QC Account	MS	10/28/2010 18:46:49	5689	9012 SMI		
Cyanide	ILP	CCV	0.048149			10/28/2010 18:47:48				
Cyanide	ILP	CCB	-0.006847			10/28/2010 18:48:48				

Chloride Reagents

Chloride Color Reagent:

Cyanide Reagents

ChloramineT: 9316

Pyridine: 9342

Phosphate Buffer: 9317

0.25 N NaOH: 9337

Phenol Reagents

Buffered Potassium Ferricyanide:

4-AminoAntipyrine:

Ammonia Reagents

Sodium Nitroprusside:

Sodium Phenolate:

Hypochlorite Solution:

NH3 buffer:

TKN Reagents

08N NaOH:

TKN Buffer:

Salicylate nitroprusside sol'n:

TKN hypochlorite sol'n:

Mercuric sulfate sol'n:

TKN carrier:

TKN digestion solution:

Reviewed By: ILP

Review Date: Friday, October 29, 2010

Creator: ilp
Creation Date: Oct 26, 2010 9:26:19
Last Modified: Oct 28, 2010 17:00:06
Description: cyanide

Cup #	Sample ID	Manual Dilution	Sample Type
1	std #1 0.5mg/l	1.0000	CalStd
2	sdt #2 0.2mg/l	1.0000	CalStd
3	std #3 0.1mg/l	1.0000	CalStd
4	std #4 0.05mg/l	1.0000	CalStd
5	std #5 0.02mg/l	1.0000	CalStd
6	std #6 0.01mg/l	1.0000	CalStd
7	std #7 0.005mg/l	1.0000	CalStd
8	std #8 0.00mg/l	1.0000	CalStd
1	499502	1.0000	Unknown
2	499503	1.0000	Unknown
3	5042529001	1.0000	Unknown
4	5042529002	1.0000	Unknown
5	5042529003	1.0000	Unknown
6	5042659001	1.0000	Unknown
7	5042659002	1.0000	Unknown
8	499504	1.0000	Unknown
9	499505	1.0000	Unknown
10	5042659003	1.0000	Unknown
11	5042659004	1.0000	Unknown
12	5042659005	1.0000	Unknown
13	5042659006	1.0000	Unknown
14	5042659007	1.0000	Unknown
15	5042659008	1.0000	Unknown
16	5042758002	1.0000	Unknown
17	5042758003	1.0000	Unknown
18	5042758004	1.0000	Unknown
19	5042758005	1.0000	Unknown
20	499506	1.0000	Unknown
21	500257	1.0000	Unknown
22	500258	1.0000	Unknown
23	5042569007	1.0000	Unknown
24	5042596001	1.0000	Unknown
25	5042596002	1.0000	Unknown
26	5042596003	1.0000	Unknown
27	5042596004	1.0000	Unknown
28	5042596005	1.0000	Unknown
29	5042596006	1.0000	Unknown
30	500259	1.0000	Unknown
31	500260	1.0000	Unknown
32	500394	1.0000	Unknown
33	500395	1.0000	Unknown
34	5042874002	1.0000	Unknown

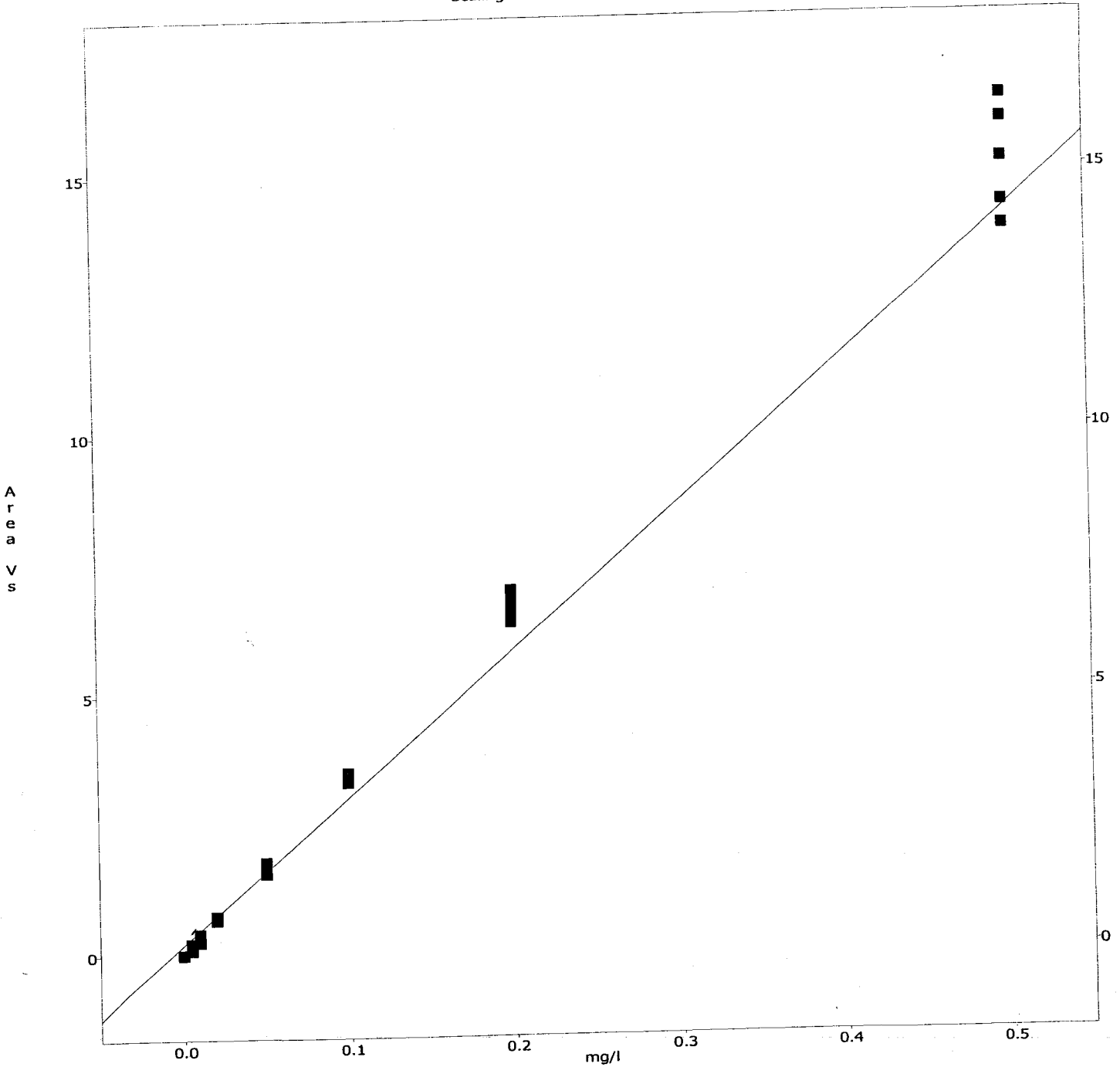
Cup #	Sample ID	Manual Dilution	Sample Type	
35	500396	1.0000	Unknown	
36	5042874003	1.0000	Unknown	
37	5042482004	1.0000	Unknown	

Cyanide

Lvl	Area	mg/l	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	13848205	0.500	13848205	14304922	15894592	15133786	16350957	1048372.6	6.9	2.3
2	6339245	0.200	6339245	6556519	6738119	6598906	6952884	227263.1	3.4	-10.0
3	3295322	0.100	3295322	3360954	3302634	3357056	3472583	70944.3	2.1	-11.1
4	1553530	0.050	1553530	1567738	1728982	1765421	1731853	100537.8	6.0	2.5
5	676621	0.020	676621	677392	672810	732045	668563	26262.7	3.8	13.2
6	359770	0.010	359770	381645	400973	386963	250013	61004.8	17.1	39.7
7	191590	0.005	191590	178320	213456	195680	90733	48187.8	27.7	99.8
8	0	0.000	0	0	0	0	0	0.0	0.0	

1st Order Poly
 Conc = 3.578e-008 Area - 6.847e-003
 r = 0.9982

Scaling: None - Weighting: None



CYANIDE: EPA 335.4

CYANIDE BUFFER 9317CHLORAMINE T 9314CAL PREP STD 22531

CALIBRATION STD'S PREPARED PER SOP# S-IN-I-015-rev.9

BY: AP DATE 10-29-10

OPERATOR: frw
 ACQ. TIME: Oct 28, 2010 17:34:23
 DATA FILENAME: C:\OMNION\DATA\102810CI.FDT
 METHOD FILENAME:
 TRAY FILENAME: C:\OMNION\TRAYS\CYANIDE.TRA

CYANIDE CARRIER 9337PYRIDINE 9342ICV PREP STD 22532

Multi-Channel Table
 Type: Unknowns
 Channel Range: 1 to 8 -- Cup Range: 1 to 20

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	Cyanide (mg/l)	Man Dil Factor
1	499502	28 Oct 2010	17:45:25	1	-0.0068	1.0
2	499503	28 Oct 2010	17:46:23	1	0.1768	1.0
2	499503	28 Oct 2010	18:30:44	1	0.1835	1.0
3	5042529001	28 Oct 2010	17:47:22	1	-0.0060	1.0
4	5042529002	28 Oct 2010	17:48:20	1	-0.0065	1.0
5	5042529003	28 Oct 2010	17:49:18	1	-0.0068	1.0
6	5042659001	28 Oct 2010	17:50:17	1	-0.0063	1.0
7	5042659002	28 Oct 2010	17:51:14	1	-0.0068	1.0
8	499504	28 Oct 2010	17:52:12	1	0.1878	1.0
9	499505	28 Oct 2010	17:53:09	1	0.1909	1.0
10	5042659003	28 Oct 2010	17:54:06	1	-0.0022	1.0
11	5042659004	28 Oct 2010	17:58:16	1	-0.0063	1.0
12	5042659005	28 Oct 2010	17:59:13	1	-0.0068	1.0
13	5042659006	28 Oct 2010	18:00:10	1	0.0267	1.0
14	5042659007	28 Oct 2010	18:01:07	1	0.0342	1.0
15	5042659008	28 Oct 2010	18:02:03	1	0.0505	1.0
16	5042758002	28 Oct 2010	18:03:02	1	-0.0068	1.0
17	5042758003	28 Oct 2010	18:04:00	1	-0.0068	1.0
18	5042758004	28 Oct 2010	18:04:59	1	-0.0068	1.0
19	5042758005	28 Oct 2010	18:05:57	1	-0.0068	1.0
20	499506	28 Oct 2010	18:06:55	1	0.1778	1.0

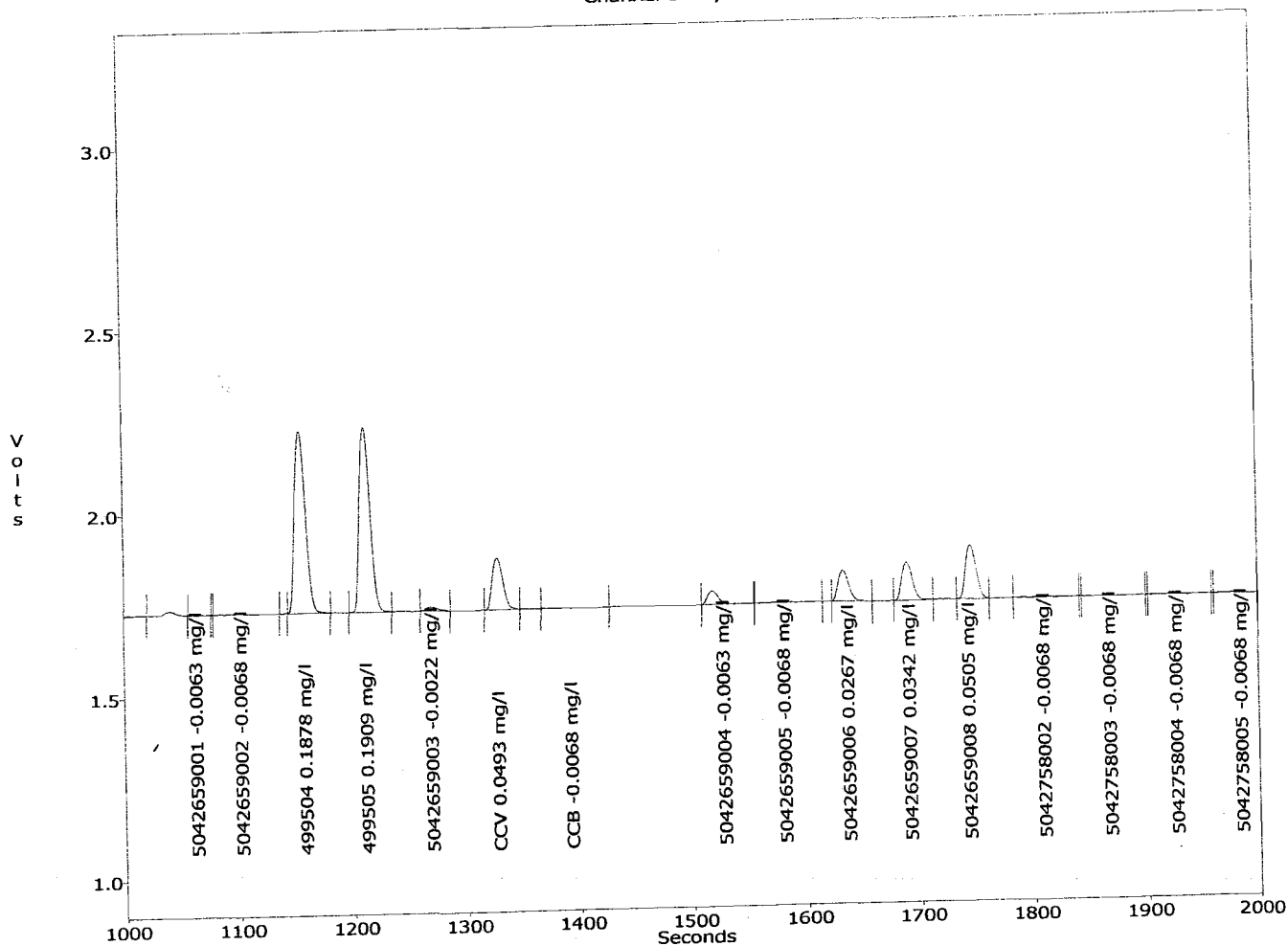
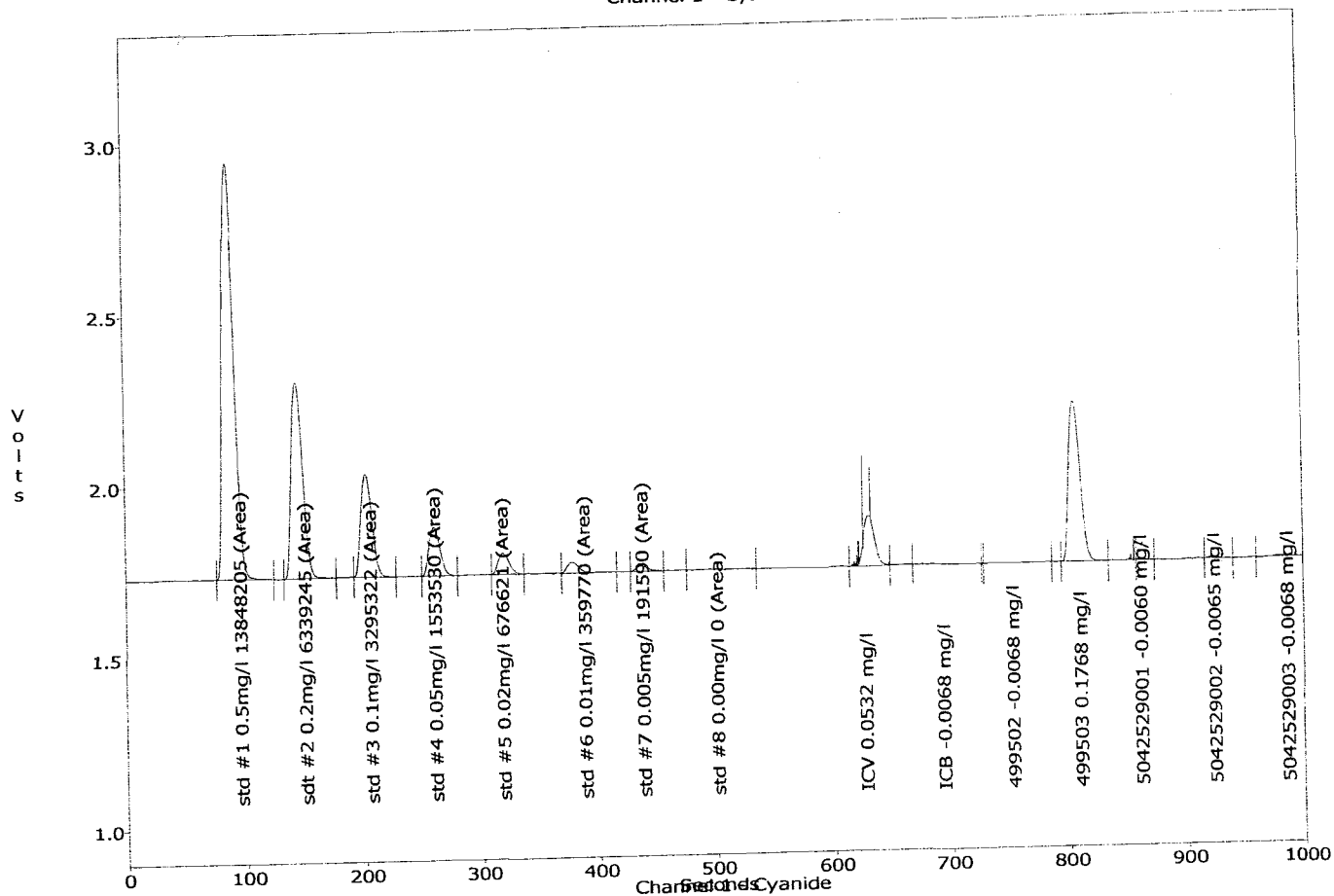
Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 21 to 64

Cup	Sample ID	Sampling Date	Sampling Time	Rep #	Cyanide (mg/l)	Man Dil Factor
21	500257	28 Oct 2010	18:11:06	1	-0.0068	1.0
22	500258	28 Oct 2010	18:12:04	1	0.1845	1.0
23	5042569007	28 Oct 2010	18:13:01	1	-0.0068	1.0
24	5042596001	28 Oct 2010	18:13:59	1	-0.0068	1.0
25	5042596002	28 Oct 2010	18:14:56	1	-0.0068	1.0
26	5042596003	28 Oct 2010	18:15:54	1	-0.0068	1.0
27	5042596004	28 Oct 2010	18:16:51	1	-0.0068	1.0
28	5042596005	28 Oct 2010	18:17:48	1	-0.0068	1.0
29	5042596006	28 Oct 2010	18:18:46	1	-0.0058	1.0
30	500259	28 Oct 2010	18:19:43	1	0.1799	1.0
31	500260	28 Oct 2010	18:23:55	1	0.2031	1.0
32	500394	28 Oct 2010	18:24:53	1	-0.0068	1.0
33	500395	28 Oct 2010	18:25:51	1	0.1836	1.0
34	5042874002	28 Oct 2010	18:26:50	1	1.9506	1.0
35	500396	28 Oct 2010	18:27:48	1	2.0518	1.0
36	5042874003	28 Oct 2010	18:28:47	1	2.8855	1.0
37	5042482004	28 Oct 2010	18:29:45	1	0.0478	1.0

Multi-Channel Table
 Type: DQM
 Channel Range: 1 to 8 -- Cup Range: 1 to 50

Cup	Sample ID	Sample Type	Sampling Date	Sampling Time	# of Reps	Cyanide (mg/l)	Man Dil Factor
14	CCV	RelChkStd	28 Oct 2010	17:55:05	1	0.0493 0.0500 Known Concentration: % Difference: -1.4181	1.0
14	CCV	RelChkStd	28 Oct 2010	18:07:55	1	0.0483 0.0500 Known Concentration: % Difference: -3.3919	1.0
14	CCV	RelChkStd	28 Oct 2010	18:20:43	1	0.0483 0.0500 Known Concentration: % Difference: -3.4118	1.0
14	CCV	RelChkStd	28 Oct 2010	18:31:43	1	0.0494 0.0500 Known Concentration: % Difference: -1.1387	1.0
15	ICB	AbsChkStd	28 Oct 2010	17:44:26	1	-0.0068 0.0000 Known Concentration: Difference: -0.0068	1.0
15	CCB	AbsChkStd	28 Oct 2010	17:56:05	1	-0.0068 0.0000 Known Concentration: Difference: -0.0068	1.0
15	CCB	AbsChkStd	28 Oct 2010	18:08:54	1	-0.0068 0.0000 Known Concentration: Difference: -0.0068	1.0
15	CCB	AbsChkStd	28 Oct 2010	18:21:43	1	-0.0068 0.0000 Known Concentration: Difference: -0.0068	1.0
15	CCB	AbsChkStd	28 Oct 2010	18:32:43	1	-0.0068 0.0000 Known Concentration: Difference: -0.0068	1.0
16	ICV	RelChkStd	28 Oct 2010	17:43:27	1	0.0532 0.0500 Known Concentration: % Difference: 6.4998	1.0

Channel 1 - Cyanide



Motors Liquidation Company - Surface Impoundment

Data Review

INDIANAPOLIS, INDIANA

Total and Dissolved Metals Analyses

SDG #5042596

Analyses Performed By:
Pace Analytical Services, Inc.
Indianapolis, Indiana

Report #13110R
Review Level: Tier II
Project: IN000297.2010.00100

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #5042596 for samples collected in association with the MLC – Surface Impoundment site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-201B(102010)	5042596001	Water	10/20/2010					X	X
MW-202B(102010)	5042596002	Water	10/20/2010					X	X
MW-203B(102010)	5042596003	Water	10/20/2010					X	X
FD-1(102010)-WK	5042596004	Water	10/20/2010	MW-203B(102010)				X	X
EB-1(102010)-WK	5042596005	Water	10/20/2010					X	X
MW-206B(102010)	5042596006	Water	10/20/2010					X	X

Notes:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location MW-206B(102010).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method SW-846 Methods 6000/7000 and 9012. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).
- Quantitation (Q) Qualifiers
 - E The reported value is estimated due to the presence of interference.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cool to 4°C±2°C.
SW-846 7470	Water	28 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

The MS/MSD analysis performed on sample location MW-206B(102010) exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate

sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-203B(102010)/FD-1(102010)-WK	All analytes	ND	ND	AC

ND = Not detected

AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Only dissolved metals were performed associated with methods SW-846 6000/7000; therefore, evaluation of total versus dissolved was not evaluated within this SDG.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METAL

METALS: SW-846 6000/7000	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)					
Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
B. Method Blanks		X		X	
C. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Reporting Limit Verification		X		X	
Raw Data		X		X	

%R Percent recovery

RPD Relative percent difference

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Cyanide by SW-846 9012	Water	14 days from collection to analysis	Cool to 4°C+2°C; preserved to a pH of greater than 12.
	Soil		Cool to 4°C+2°C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

The MS/MSD analysis performed on sample location MW-206B(102010) exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times

the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-203B(102010)/FD-1(102010)-WK	Total cyanide	ND(0.010)	ND(0.010)	AC

ND = Not detected

AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries results within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: SW-846 9012	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate(MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R - percent recovery, RPD - relative percent difference,
 %D – difference

VALIDATION PERFORMED

BY: Todd Church

SIGNATURE:



DATE: November 9, 2010

PEER REVIEW: Joseph C. Houser

DATE: November 9, 2010

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

JANUS

Section A
 Required Client Information:
 Company: **ARCADES**
 Address: **251 E. Ohio St. Ste. 806**
 Indianapolis, IN
 Email To: **Sarah.Fisher@arcadis-us.com**
 Phone: **(317) 271-6500** Fax: **(317) 271-6514**
 Requested Due Date/TAT: **STD**

Section B
 Required Project Information:
 Report To: **Sarah Fisher**
 Copy To:
 Purchase Order No.:
 Project Name: **M/C Surface Improvement**
 Project Number: **FW000297.2010.00010**

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Page Quote Reference:
 Pace Project Manager:
 Pace Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
 Site Location STATE: **IN**

Page: **1** of **1**
1314231

ITEM #	Section D Required Client Information	Section E Matrix Codes MATRIX / CODE	Section F SAMPLE TYPE (G=GRAB C=COMP)	Section G COLLECTED		Section H SAMPLE TEMP AT COLLECTION	Section I # OF CONTAINERS	Section J Preservatives	Section K Analysis Test	Section L Requested Analysis Filtered (Y/N)	Section M Residual Chlorine (Y/N)	Section N Pace Project No./ Lab I.D.					
				COMPOSITE START	COMPOSITE END/GRAB												
	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	DW Drinking Water WT Water WW Waste Water P Product SL/Solid Oil WP Wipe AR Air TS Tissue OT Other	DATE	TIME	DATE	TIME	H ₂ O ₂	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol	Other	Y/N	Y/N	Y/N	Y/N
1	MW-2010B (102010)		WT G	10/20/10	1005	10/20/10	1005	X				021					
2	MW-2020B (102010)				1125		1125	X				022					
3	MW-2030B (102010)				1245		1245	X				023					
4	FD-1 (102010) - WK							X				004					
5	EB-1 (102010) - WK				1300		1300	X				005					
6	MW-2060B (102010)				1410		1410	X				006					
7																	
8																	
9																	
10																	
11																	
12																	

ADDITIONAL COMMENTS
 Lab To Fisher Dissolved Metals
 Level III DATA Pack

RELINQUISHED BY / AFFILIATION
 Wesley Kuhn / ARCADES

DATE
 10/20/10

TIME
 1534

ACCEPTED BY / AFFILIATION
 [Signature]

DATE
 10/20/10

TIME
 3:34p

SAMPLE CONDITIONS
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **Wesley Kuhn**
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): **10/20/10**

ORIGINAL
 WF Client Del.

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

ANALYTICAL RESULTS

Project: MLC Surface Impoundment
Pace Project No.: 5042596

Sample: MW-201B(102010)		Lab ID: 5042596001	Collected: 10/20/10 10:05	Received: 10/20/10 15:34	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic, Dissolved	6.3 ug/L		5.0	1	10/26/10 00:00	10/27/10 21:49	7440-38-2	
Barium, Dissolved	ND ug/L		100	1	10/26/10 00:00	10/27/10 21:49	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 21:49	7440-43-9	
Chromium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 21:49	7440-47-3	
Lead, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 21:49	7439-92-1	
Selenium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 21:49	7782-49-2	
Silver, Dissolved	ND ug/L		50.0	1	10/26/10 00:00	10/27/10 21:49	7440-22-4	
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND ug/L		2.0	1	10/27/10 00:00	10/28/10 09:32	7439-97-6	
9012 Cyanide, Total		Analytical Method: EPA 9012						
Cyanide	ND mg/L		0.010	1		10/28/10 18:13	57-12-5	

ANALYTICAL RESULTS

Project: MLC Surface Impoundment
Pace Project No.: 5042596

Sample: MW-202B(102010)	Lab ID: 5042596002	Collected: 10/20/10 11:25	Received: 10/20/10 15:34	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 21:55	7440-38-2	
Barium, Dissolved	110 ug/L		100	1	10/26/10 00:00	10/27/10 21:55	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 21:55	7440-43-9	
Chromium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 21:55	7440-47-3	
Lead, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 21:55	7439-92-1	
Selenium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 21:55	7782-49-2	
Silver, Dissolved	ND ug/L		50.0	1	10/26/10 00:00	10/27/10 21:55	7440-22-4	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND ug/L		2.0	1	10/27/10 00:00	10/28/10 09:33	7439-97-6	
9012 Cyanide, Total	Analytical Method: EPA 9012							
Cyanide	ND mg/L		0.010	1		10/28/10 18:14	57-12-5	

ANALYTICAL RESULTS

Project: MLC Surface Impoundment
Pace Project No.: 5042596

Sample: MW-203B(102010)		Lab ID: 5042596003	Collected: 10/20/10 12:45	Received: 10/20/10 15:34	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic, Dissolved	ND	ug/L	5.0	1	10/26/10 00:00	10/27/10 22:01	7440-38-2	
Barium, Dissolved	ND	ug/L	100	1	10/26/10 00:00	10/27/10 22:01	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	1	10/26/10 00:00	10/27/10 22:01	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	10/26/10 00:00	10/27/10 22:01	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	10/26/10 00:00	10/27/10 22:01	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	1	10/26/10 00:00	10/27/10 22:01	7782-49-2	
Silver, Dissolved	ND	ug/L	50.0	1	10/26/10 00:00	10/27/10 22:01	7440-22-4	
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND	ug/L	2.0	1	10/27/10 00:00	10/28/10 09:35	7439-97-6	
9012 Cyanide, Total		Analytical Method: EPA 9012						
Cyanide	ND	mg/L	0.010	1		10/28/10 18:15	57-12-5	

ANALYTICAL RESULTS

Project: MLC Surface Impoundment
Pace Project No.: 5042596

Sample: FD-1(102010)-WK		Lab ID: 5042596004	Collected: 10/20/10 08:00	Received: 10/20/10 15:34	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:06	7440-38-2	
Barium, Dissolved	ND ug/L		100	1	10/26/10 00:00	10/27/10 22:06	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:06	7440-43-9	
Chromium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:06	7440-47-3	
Lead, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:06	7439-92-1	
Selenium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:06	7782-49-2	
Silver, Dissolved	ND ug/L		50.0	1	10/26/10 00:00	10/27/10 22:06	7440-22-4	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND ug/L		2.0	1	10/27/10 00:00	10/28/10 09:36	7439-97-6	
9012 Cyanide, Total	Analytical Method: EPA 9012							
Cyanide	ND mg/L		0.010	1		10/28/10 18:16	57-12-5	

ANALYTICAL RESULTS

Project: MLC Surface Impoundment
Pace Project No.: 5042596

Sample: EB-1(102010)-WK	Lab ID: 5042596005	Collected: 10/20/10 13:00	Received: 10/20/10 15:34	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:12	7440-38-2	
Barium, Dissolved	ND ug/L		100	1	10/26/10 00:00	10/27/10 22:12	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:12	7440-43-9	
Chromium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:12	7440-47-3	
Lead, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:12	7439-92-1	
Selenium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:12	7782-49-2	
Silver, Dissolved	ND ug/L		50.0	1	10/26/10 00:00	10/27/10 22:12	7440-22-4	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND ug/L		2.0	1	10/27/10 00:00	10/28/10 09:37	7439-97-6	
9012 Cyanide, Total	Analytical Method: EPA 9012							
Cyanide	ND mg/L		0.010	1		10/28/10 18:17	57-12-5	

ANALYTICAL RESULTS

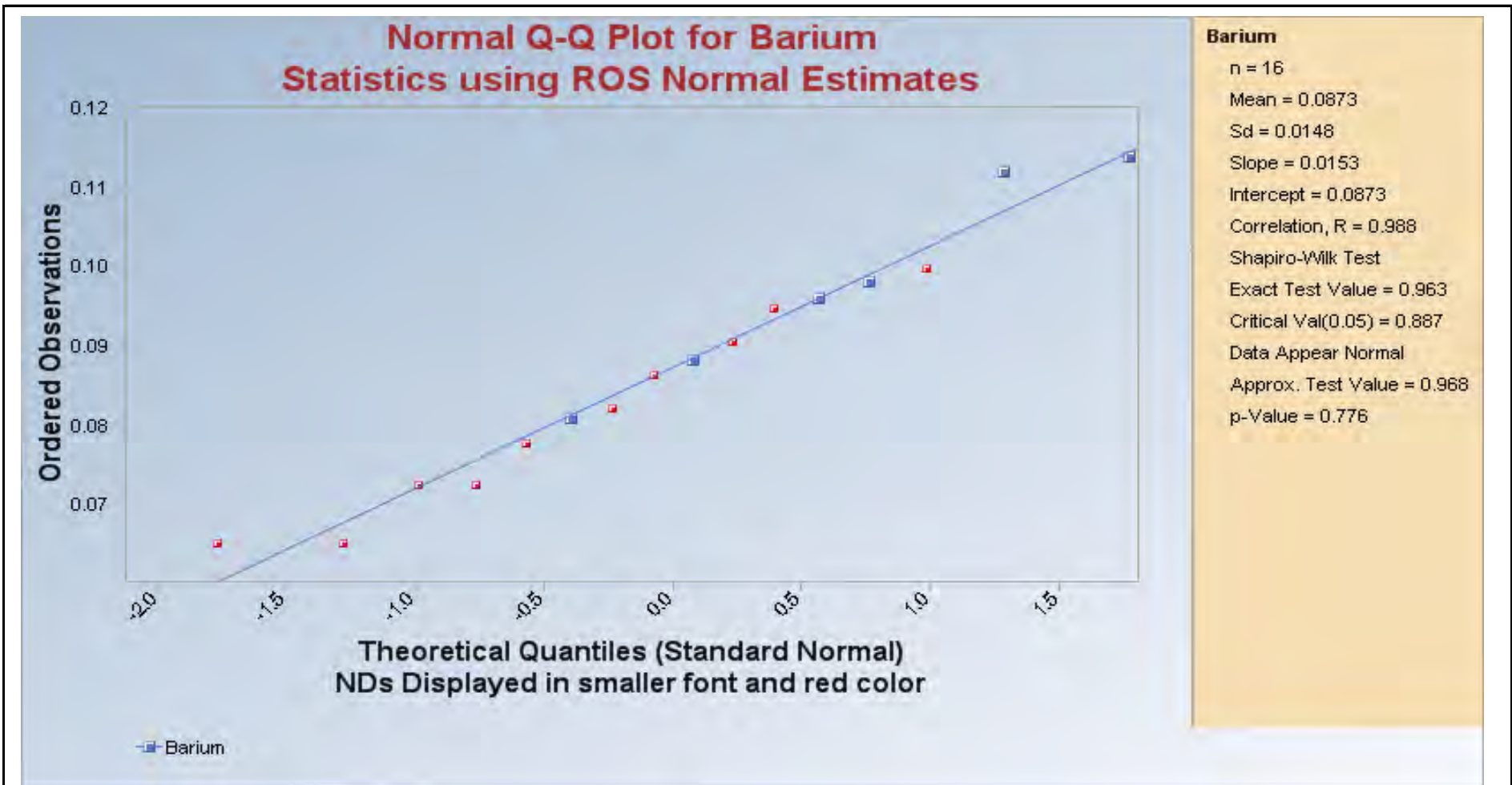
Project: MLC Surface Impoundment
Pace Project No.: 5042596

Sample: MW-206B(102010)	Lab ID: 5042596006	Collected: 10/20/10 14:10	Received: 10/20/10 15:34	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:18	7440-38-2	
Barium, Dissolved	ND ug/L		100	1	10/26/10 00:00	10/27/10 22:18	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:18	7440-43-9	
Chromium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:18	7440-47-3	
Lead, Dissolved	ND ug/L		5.0	1	10/26/10 00:00	10/27/10 22:18	7439-92-1	
Selenium, Dissolved	ND ug/L		10.0	1	10/26/10 00:00	10/27/10 22:18	7782-49-2	
Silver, Dissolved	ND ug/L		50.0	1	10/26/10 00:00	10/27/10 22:18	7440-22-4	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND ug/L		2.0	1	10/27/10 00:00	10/28/10 09:39	7439-97-6	
9012 Cyanide, Total	Analytical Method: EPA 9012							
Cyanide	ND mg/L		0.010	1		10/28/10 18:18	57-12-5	

ARCADIS

Attachment 3

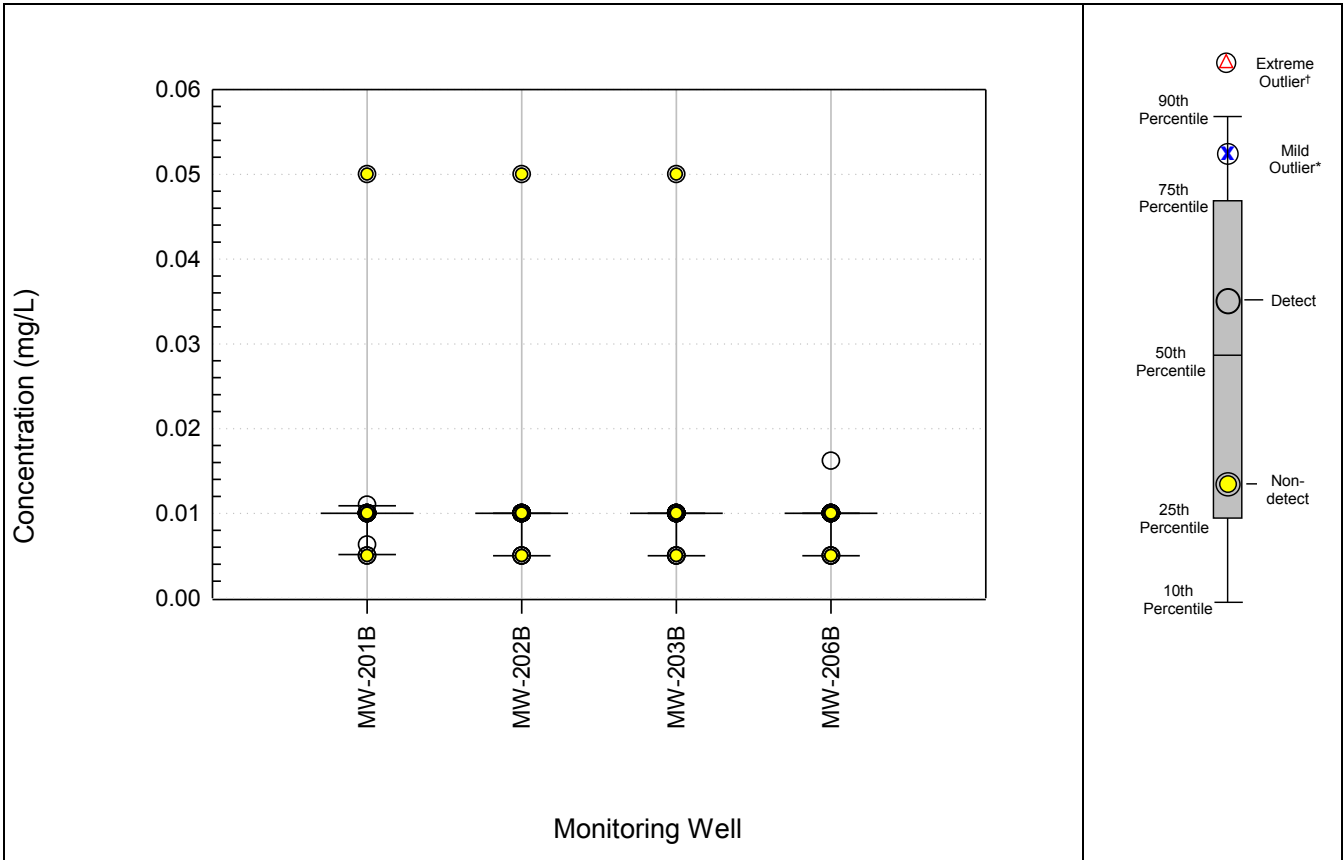
Statistical Evaluation of
Background Groundwater Quality



Normal Q-Q Plot – Barium in Monitoring Well 206B

Closed Hazardous Waste Surface Impoundment
Former Allison Gas Turbine Division - Plant 5
Indianapolis, Indiana

Figure C1



**Box and Whisker Plot
Arsenic**

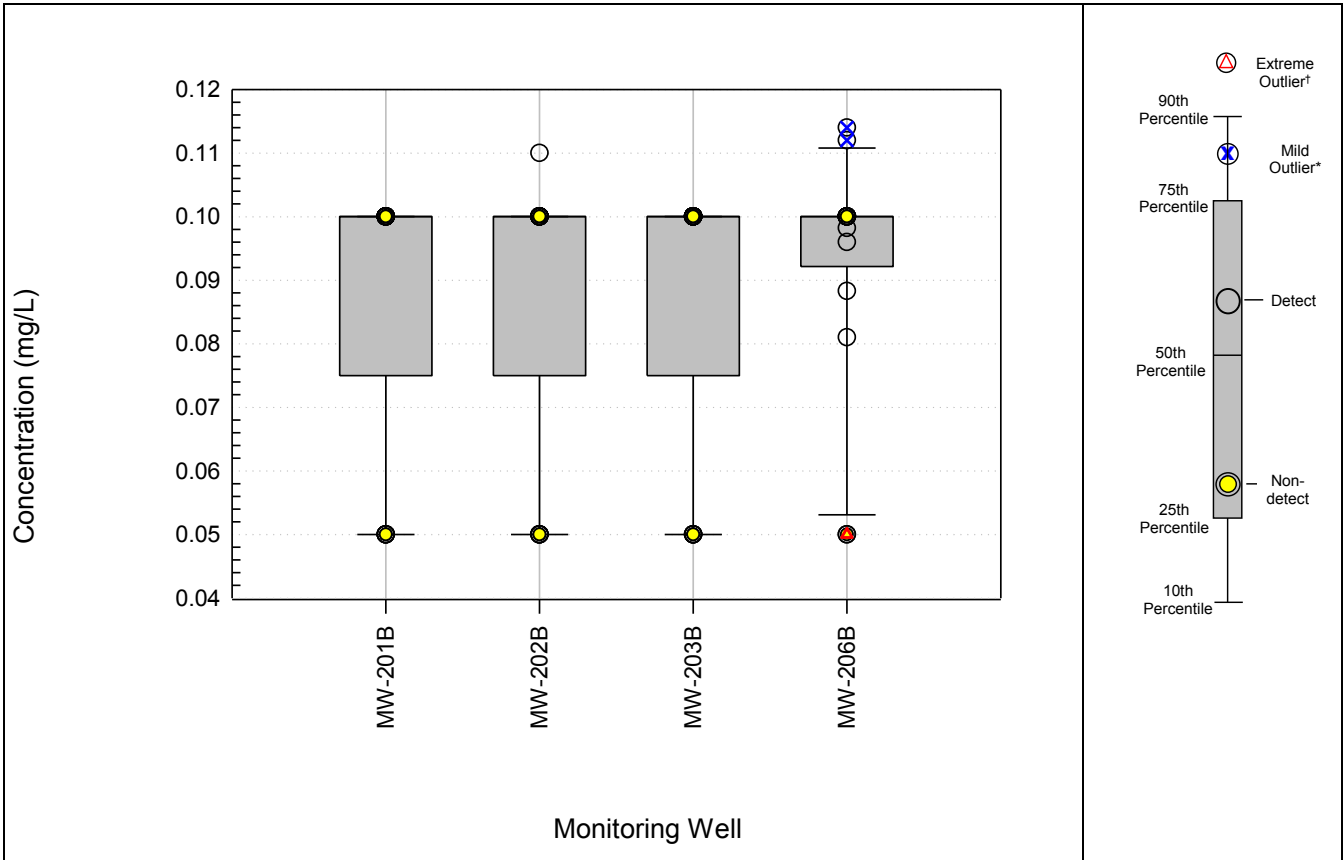
Closed Hazardous Waste Surface Impoundment, Former Allison Gas Turbine Division - Plant 5
Indianapolis, Indiana

**Figure
C2-1**

Monitoring Well	Units	Sample Size			ND Range		Detects				Percentiles (All Data)			
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
MW-201B	mg/L	14	2	16	0.0050	0.050	0.0063	0.011	0.0087	0.0087	0.0033	0.010	0.010	0.010
MW-202B	mg/L	16	0	16	0.0050	0.050	ND	ND	NA	NA	NA	0.010	0.010	0.010
MW-203B	mg/L	16	0	16	0.0050	0.050	ND	ND	NA	NA	NA	0.010	0.010	0.010
MW-206B	mg/L	15	1	16	0.0050	0.010	0.0162	0.0162	0.0162	0.0162	NA	0.010	0.010	0.010

Notes:

- † Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR
 - * Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR
 - NA = value not applicable due to frequency of detection
 - ND = non-detect
 - IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
- Reporting limit is used for non-detects unless otherwise noted.



**Box and Whisker Plot
Barium**

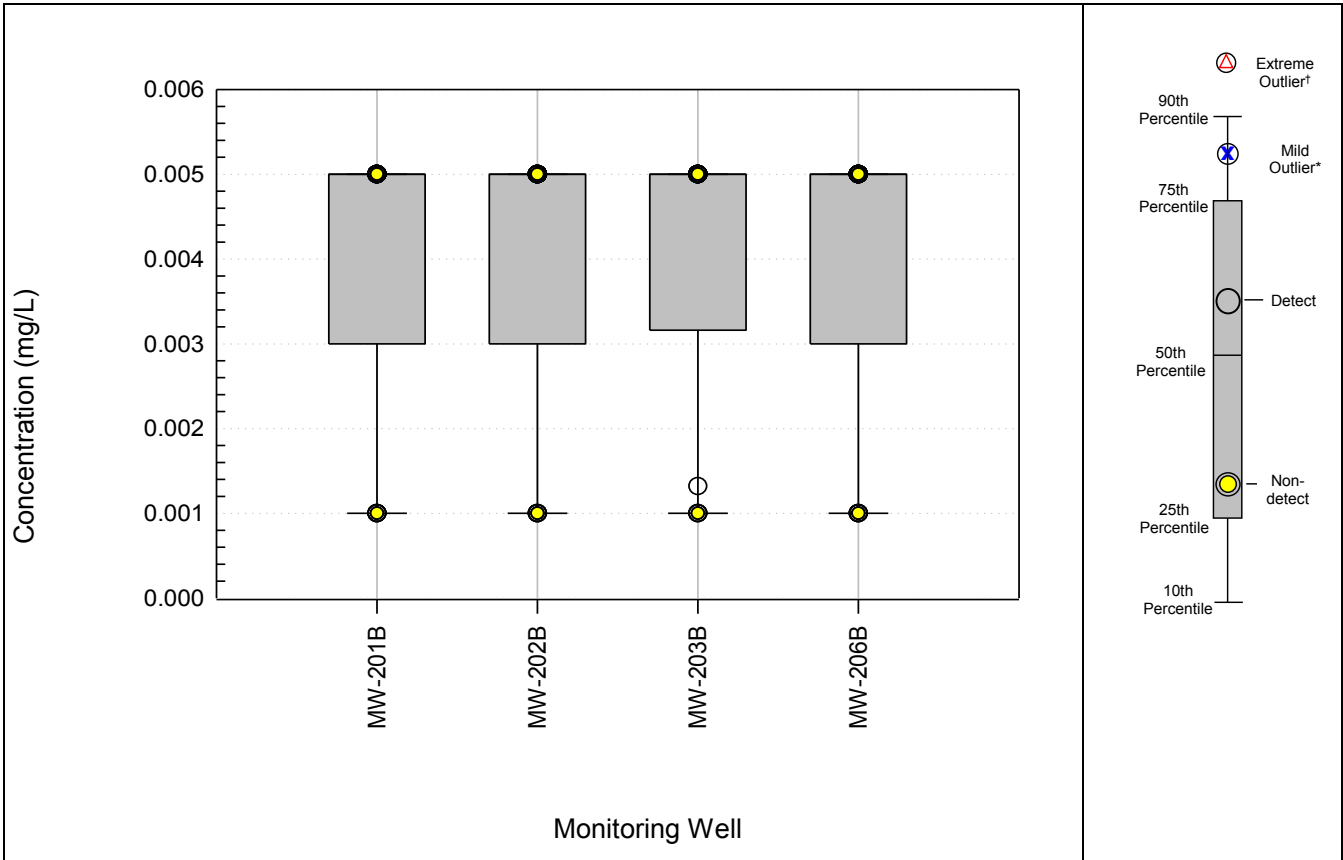
Closed Hazardous Waste Surface Impoundment, Former Allison Gas Turbine Division - Plant 5
Indianapolis, Indiana

**Figure
C2-2**

Monitoring Well	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
MW-201B	mg/L	16	0	16	0.050	0.10	ND	ND	NA	NA	NA	0.075	0.10	0.10
MW-202B	mg/L	15	1	16	0.050	0.10	0.11	0.11	0.11	0.11	NA	0.075	0.10	0.10
MW-203B	mg/L	16	0	16	0.050	0.10	ND	ND	NA	NA	NA	0.075	0.10	0.10
MW-206B	mg/L	10	6	16	0.050	0.10	0.081	0.114	0.098	0.097	0.013	0.092	0.10	0.10

Notes:

- † Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR
 - * Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR
 - NA = value not applicable due to frequency of detection
 - ND = non-detect
 - IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
- Reporting limit is used for non-detects unless otherwise noted.



**Box and Whisker Plot
Cadmium**

Closed Hazardous Waste Surface Impoundment, Former Allison Gas Turbine Division - Plant 5
Indianapolis, Indiana

**Figure
C2-3**

Monitoring Well	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
MW-201B	mg/L	16	0	16	0.0010	0.0050	ND	ND	NA	NA	NA	0.0030	0.0050	0.0050
MW-202B	mg/L	16	0	16	0.0010	0.0050	ND	ND	NA	NA	NA	0.0030	0.0050	0.0050
MW-203B	mg/L	15	1	16	0.0010	0.0050	0.00132	0.00132	0.00132	0.00132	NA	0.0032	0.0050	0.0050
MW-206B	mg/L	16	0	16	0.0010	0.0050	ND	ND	NA	NA	NA	0.0030	0.0050	0.0050

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

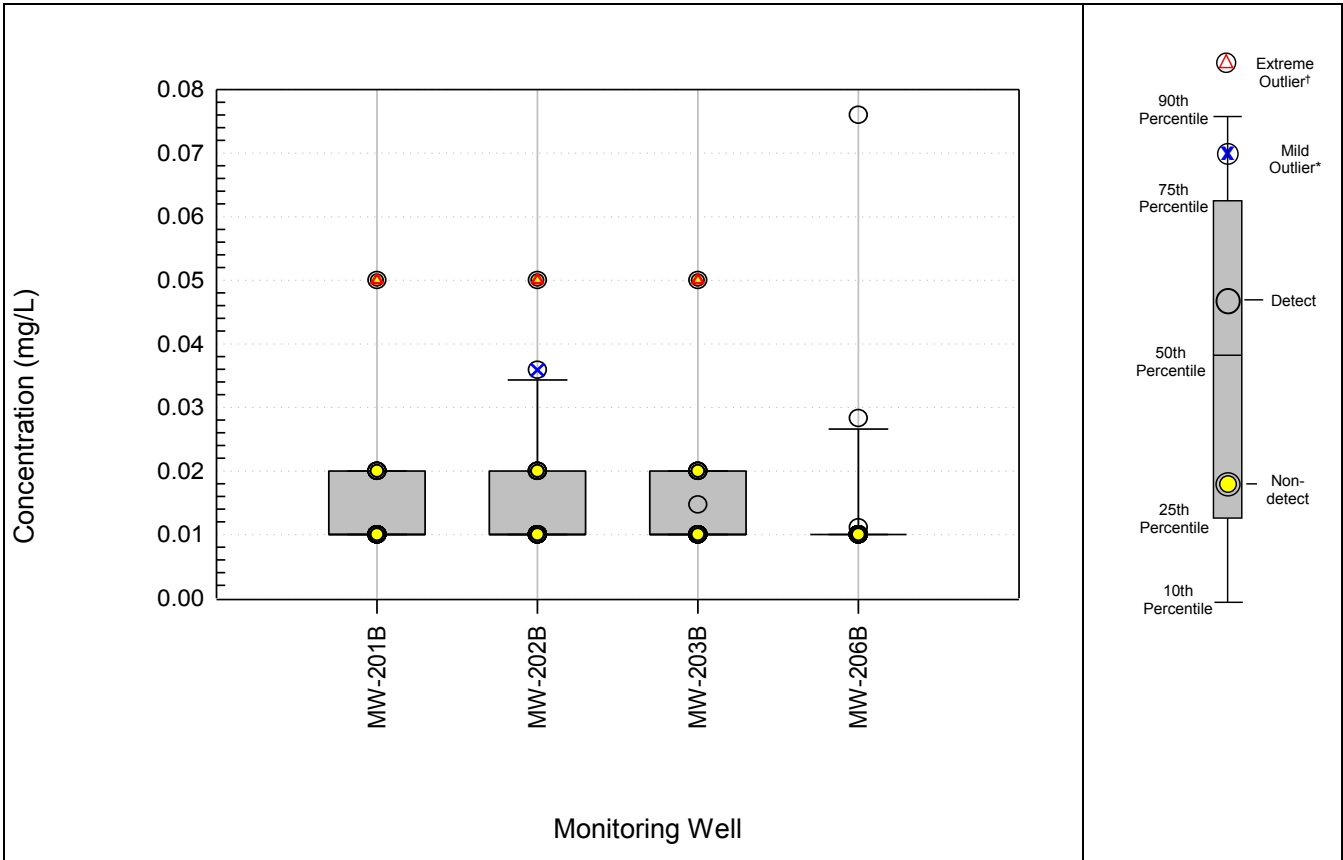
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

NA = value not applicable due to frequency of detection

ND = non-detect

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

Reporting limit is used for non-detects unless otherwise noted.



**Box and Whisker Plot
Chromium**

Closed Hazardous Waste Surface Impoundment, Former Allison Gas Turbine Division - Plant 5
Indianapolis, Indiana

**Figure
C2-4**

Monitoring Well	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
MW-201B	mg/L	16	0	16	0.010	0.050	ND	ND	NA	NA	NA	0.010	0.010	0.020
MW-202B	mg/L	15	1	16	0.010	0.050	0.0359	0.0359	0.0359	0.0359	NA	0.010	0.010	0.020
MW-203B	mg/L	15	1	16	0.010	0.050	0.0147	0.0147	0.0147	0.0147	NA	0.010	0.010	0.020
MW-206B	mg/L	13	3	16	0.010	0.010	0.0111	0.076	0.038	0.028	0.034	0.010	0.010	0.010

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

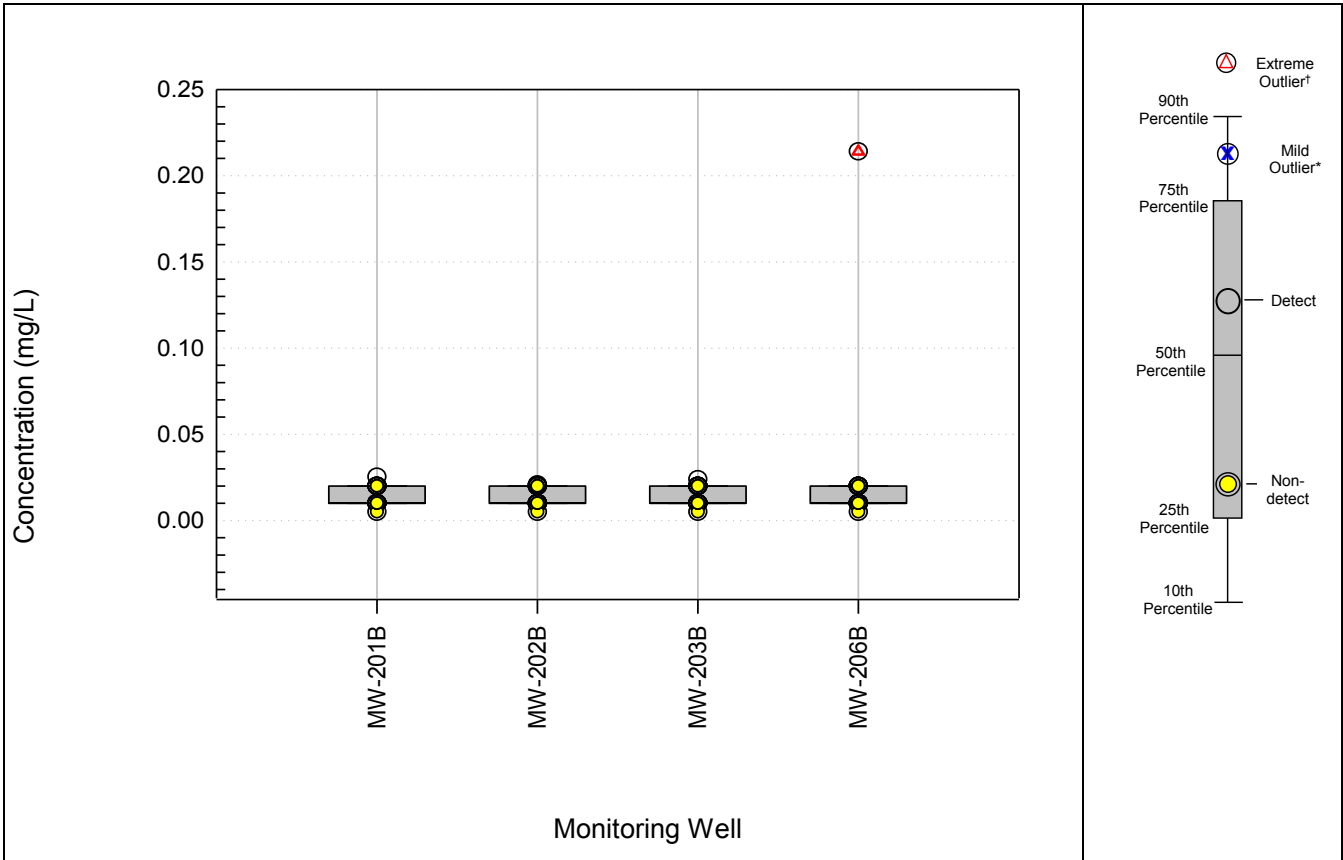
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

NA = value not applicable due to frequency of detection

ND = non-detect

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

Reporting limit is used for non-detects unless otherwise noted.



**Box and Whisker Plot
Cyanide**

Closed Hazardous Waste Surface Impoundment, Former Allison Gas Turbine Division - Plant 5
Indianapolis, Indiana

**Figure
C2-5**

Monitoring Well	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
MW-201B	mg/L	15	1	16	0.0050	0.020	0.0253	0.0253	0.025	0.025	NA	0.010	0.010	0.020
MW-202B	mg/L	15	1	16	0.0050	0.020	0.0209	0.0209	0.021	0.021	NA	0.010	0.010	0.020
MW-203B	mg/L	15	1	16	0.0050	0.020	0.0239	0.0239	0.024	0.024	NA	0.010	0.010	0.020
MW-206B	mg/L	15	1	16	0.0050	0.020	0.214	0.214	0.21	0.21	NA	0.010	0.010	0.020

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

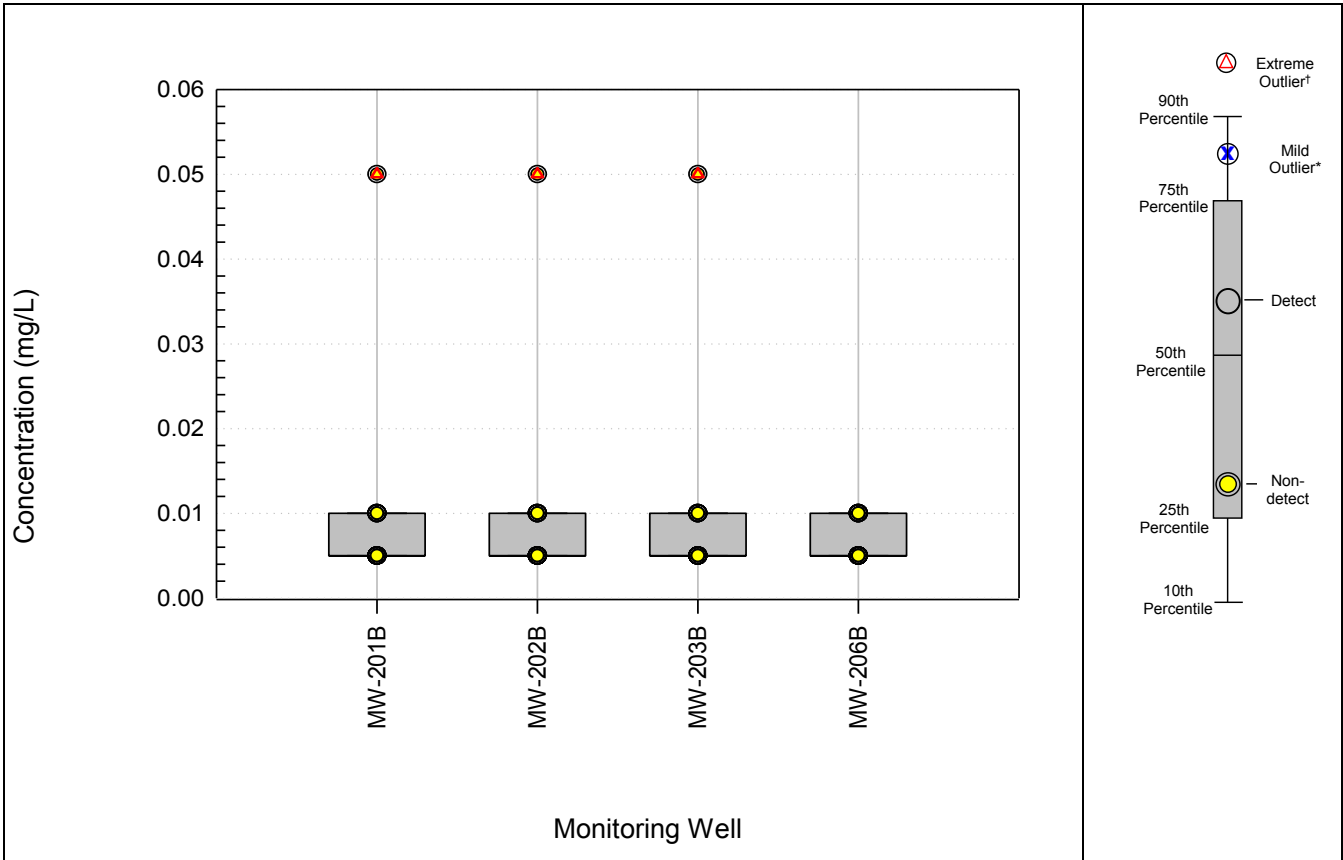
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

NA = value not applicable due to frequency of detection

ND = non-detect

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

Reporting limit is used for non-detects unless otherwise noted.



**Box and Whisker Plot
Lead**

Closed Hazardous Waste Surface Impoundment, Former Allison Gas Turbine Division - Plant 5
Indianapolis, Indiana

**Figure
C2-6**

Monitoring Well	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
MW-201B	mg/L	16	0	16	0.0050	0.050	ND	ND	NA	NA	NA	0.0050	0.0050	0.010
MW-202B	mg/L	16	0	16	0.0050	0.050	ND	ND	NA	NA	NA	0.0050	0.0050	0.010
MW-203B	mg/L	16	0	16	0.0050	0.050	ND	ND	NA	NA	NA	0.0050	0.0050	0.010
MW-206B	mg/L	16	0	16	0.0050	0.010	ND	ND	NA	NA	NA	0.0050	0.0050	0.010

Notes:

† Result value is $< 25\text{th percentile} - 3 \cdot \text{IQR}$ or $> 75\text{th percentile} + 3 \cdot \text{IQR}$

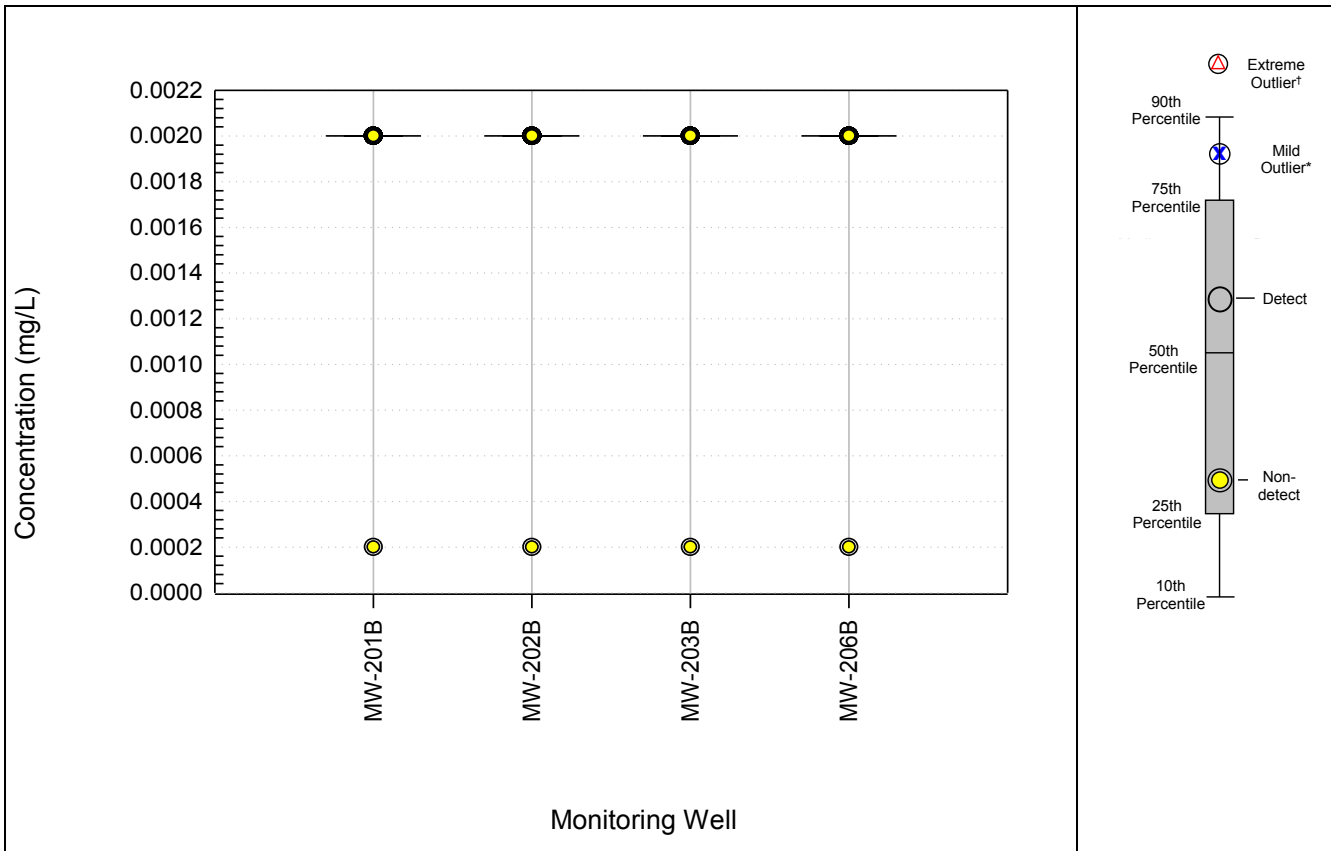
* Result value is $< 25\text{th percentile} - 1.5 \cdot \text{IQR}$ or $> 75\text{th percentile} + 1.5 \cdot \text{IQR}$

NA = value not applicable due to frequency of detection

ND = non-detect

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

Reporting limit is used for non-detects unless otherwise noted.



**Box and Whisker Plot
Mercury**

Closed Hazardous Waste Surface Impoundment, Former Allison Gas Turbine Division - Plant 5
Indianapolis, Indiana

**Figure
C2-7**

Monitoring Well	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
MW-201B	mg/L	16	0	16	0.00020	0.0020	ND	ND	NA	NA	NA	0.0020	0.0020	0.0020
MW-202B	mg/L	16	0	16	0.00020	0.0020	ND	ND	NA	NA	NA	0.0020	0.0020	0.0020
MW-203B	mg/L	16	0	16	0.00020	0.0020	ND	ND	NA	NA	NA	0.0020	0.0020	0.0020
MW-206B	mg/L	16	0	16	0.00020	0.0020	ND	ND	NA	NA	NA	0.0020	0.0020	0.0020

Notes:

† Result value is $< 25\text{th percentile} - 3 \times \text{IQR}$ or $> 75\text{th percentile} + 3 \times \text{IQR}$

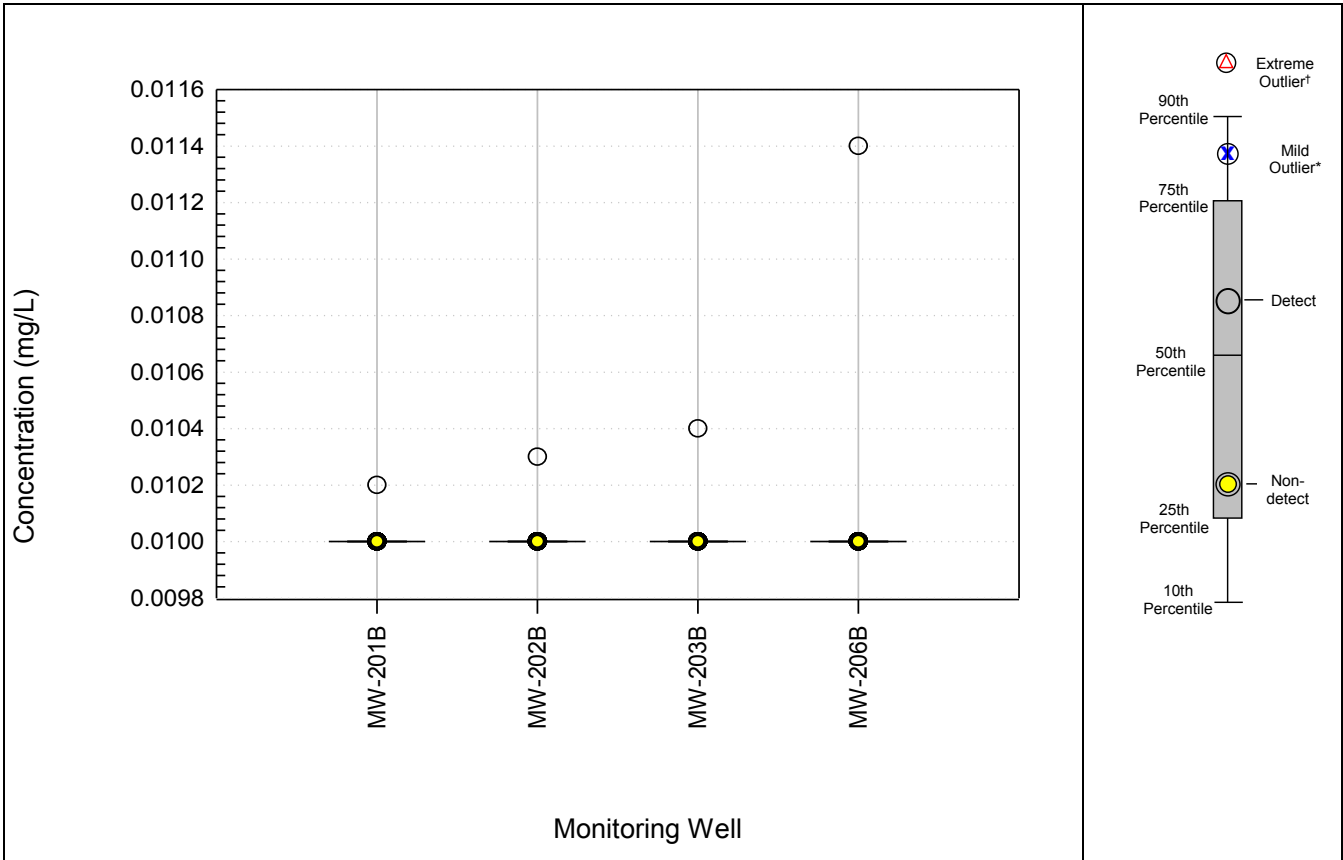
* Result value is $< 25\text{th percentile} - 1.5 \times \text{IQR}$ or $> 75\text{th percentile} + 1.5 \times \text{IQR}$

NA = value not applicable due to frequency of detection

ND = non-detect

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

Reporting limit is used for non-detects unless otherwise noted.



**Box and Whisker Plot
Selenium**

Closed Hazardous Waste Surface Impoundment, Former Allison Gas Turbine Division - Plant 5
Indianapolis, Indiana

**Figure
C2-8**

Monitoring Well	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
MW-201B	mg/L	15	1	16	0.010	0.010	0.0102	0.0102	0.010	0.010	NA	0.010	0.010	0.010
MW-202B	mg/L	15	1	16	0.010	0.010	0.0103	0.0103	0.010	0.010	NA	0.010	0.010	0.010
MW-203B	mg/L	15	1	16	0.010	0.010	0.0104	0.0104	0.010	0.010	NA	0.010	0.010	0.010
MW-206B	mg/L	15	1	16	0.010	0.010	0.0114	0.0114	0.011	0.011	NA	0.010	0.010	0.010

Notes:

† Result value is $< 25\text{th percentile} - 3 \cdot \text{IQR}$ or $> 75\text{th percentile} + 3 \cdot \text{IQR}$

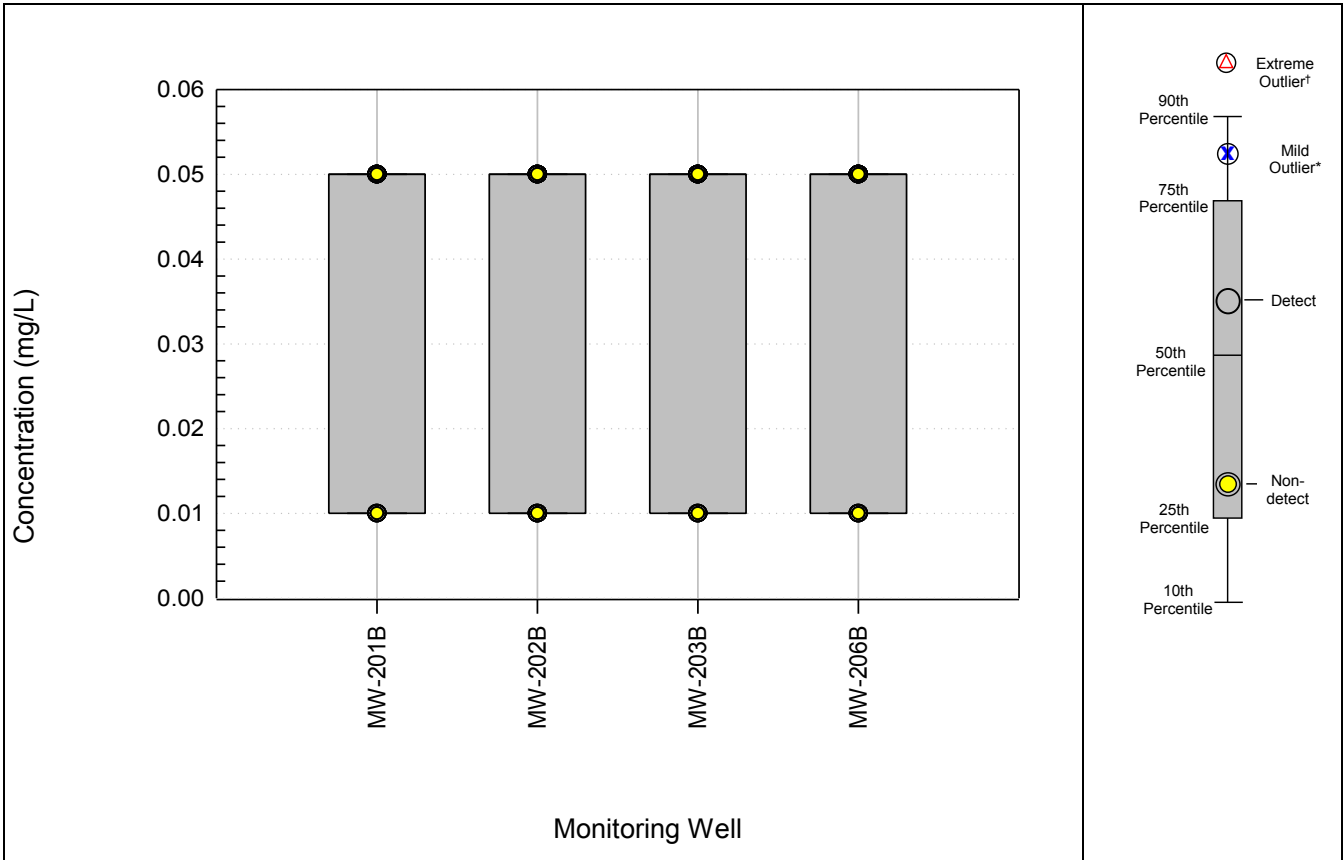
* Result value is $< 25\text{th percentile} - 1.5 \cdot \text{IQR}$ or $> 75\text{th percentile} + 1.5 \cdot \text{IQR}$

NA = value not applicable due to frequency of detection

ND = non-detect

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

Reporting limit is used for non-detects unless otherwise noted.



**Box and Whisker Plot
Silver**

Closed Hazardous Waste Surface Impoundment, Former Allison Gas Turbine Division - Plant 5
Indianapolis, Indiana

**Figure
C2-9**

Monitoring Well	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
MW-201B	mg/L	16	0	16	0.010	0.050	ND	ND	NA	NA	NA	0.010	0.050	0.050
MW-202B	mg/L	16	0	16	0.010	0.050	ND	ND	NA	NA	NA	0.010	0.050	0.050
MW-203B	mg/L	16	0	16	0.010	0.050	ND	ND	NA	NA	NA	0.010	0.050	0.050
MW-206B	mg/L	16	0	16	0.010	0.050	ND	ND	NA	NA	NA	0.010	0.050	0.050

Notes:

† Result value is $< 25\text{th percentile} - 3 \times \text{IQR}$ or $> 75\text{th percentile} + 3 \times \text{IQR}$

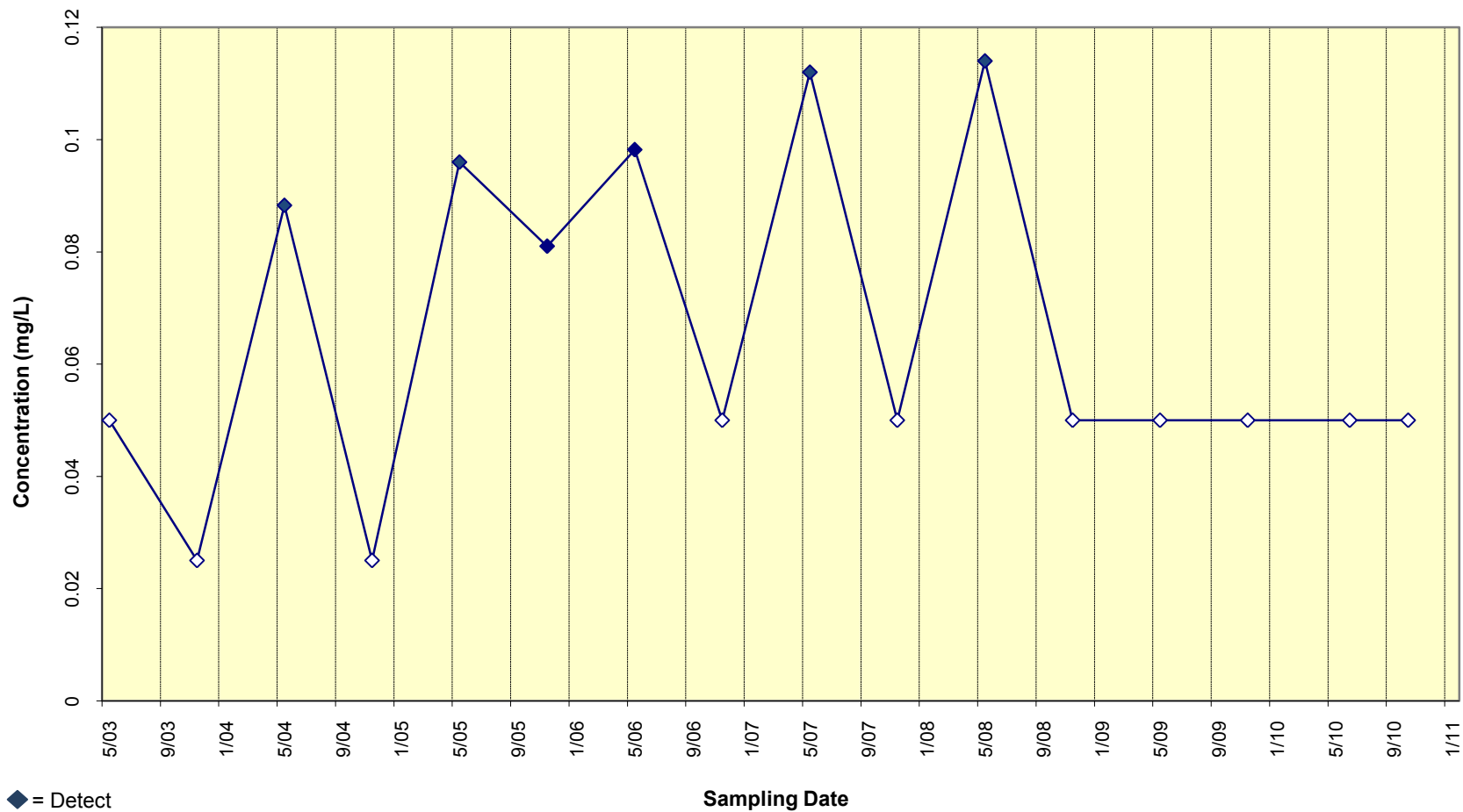
* Result value is $< 25\text{th percentile} - 1.5 \times \text{IQR}$ or $> 75\text{th percentile} + 1.5 \times \text{IQR}$

NA = value not applicable due to frequency of detection

ND = non-detect

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

Reporting limit is used for non-detects unless otherwise noted.



◆ = Detect
◇ = Non-detect

Results of Mann-Kendall Test for Trend:

No Significant Trend

p value = Note: p value < 0.05 indicates a statistically significant trend (95% confidence level).

Results of Sen's Estimator of Slope:

No Significant Trend

Median Slope Estimate = mg/L/day
 95% Confidence Interval = to mg/L/day

mg/L - milligrams per liter

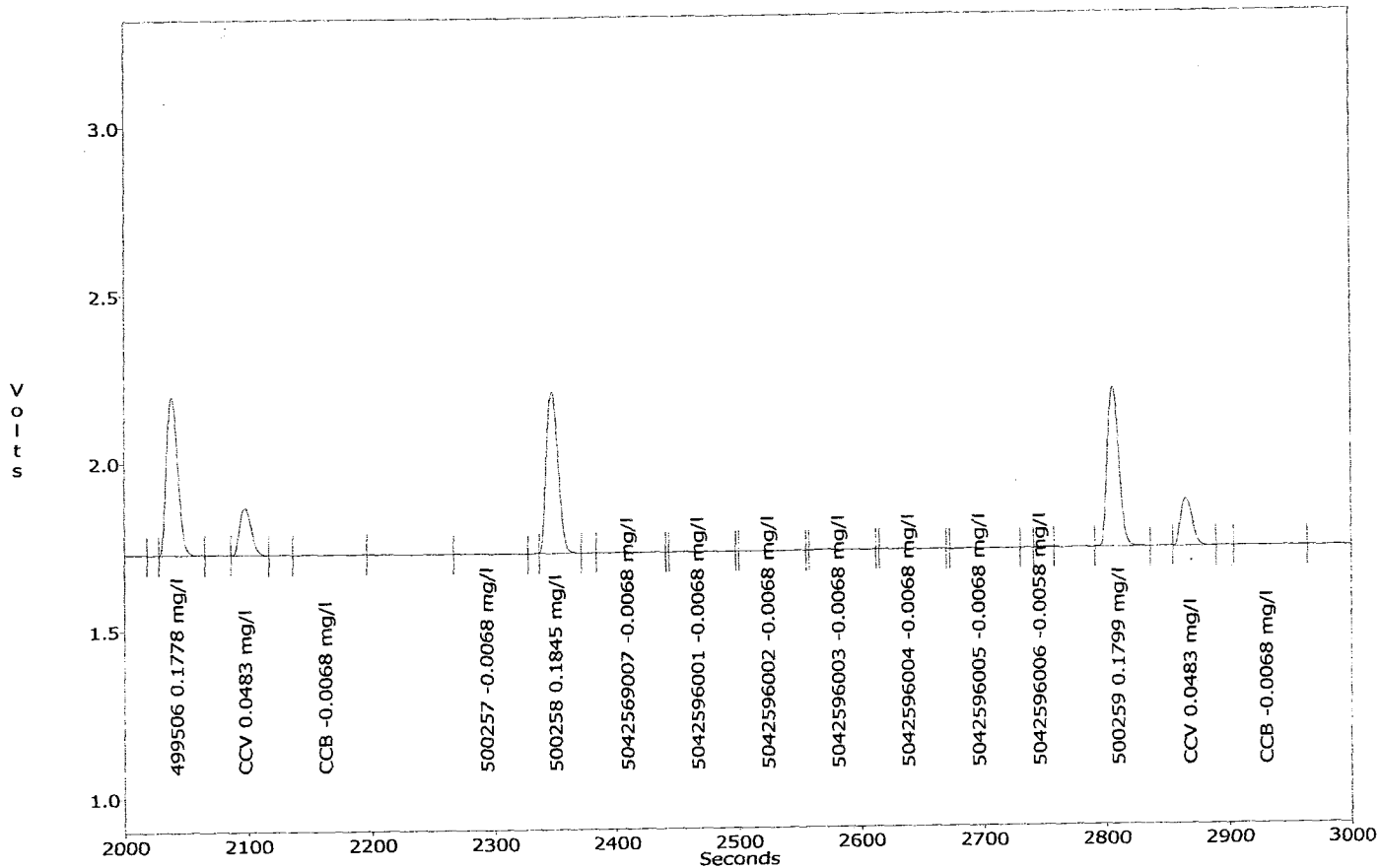


Concentration vs. Time Plot – Barium in Monitoring Well 206B

Closed Hazardous Waste Surface Impoundment
 Former Allison Gas Turbine Division - Plant 5
 Indianapolis, Indiana

Figure C3

Channel 1 - Cyanide



Channel 1 - Cyanide

