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Friday, May 9, 2008

Kimley-Horn and Associates - VA[KI009]
Attn: Mike Iwashchenko
505 Independence Pkway, Suite 200
Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Fly Ash
ENCO Workorder: C803870

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 24, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 74.

PROJECT NARRATIVE

Client: Kimley-Horn and Associates - VA[KI009]
Project: Fly Ash
ENCO Project ID: C803870

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling and processing will be discussed in the Remarks section below.

Remarks

Analysis: EPA 353.2 NOX
Affected Samples: 8E04004-BLK1, SW-4[C803870-01], SW-5[C803870-02], SW-O[C803870-03], SW-8[C803870-04], OFE[C803870-05], SW-3[C803870-06], OFB[C803870-07], SW-6[C803870-08], SW-7[C803870-09], SW-9[C803870-10], SW-2[C803870-11], OFS[C803870-12],8E04004-BLK1, SW-1[C803870-13]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result are within a factor of 10 of the associated blank, the result should be considered to be an estimate.

Analysis: SM4500-Cl/E Chloride
Affected Samples: 8E05013-BLK1, 8E05013-BS1, 8E05013-MS1, 8E05013-MSD1, SW-4[C803870-01], SW-4[C803870-01RE1], SW-5[C803870-02], SW-O[C803870-03], SW-O[C803870-03RE1], SW-8[C803870-04], OFE[C803870-05], SW-3[C803870-06], SW-3[C803870-06RE1], OFB[C803870-07], SW-6[C803870-08], SW-7[C803870-09], SW-9[C803870-10], SW-2[C803870-11], OFS[C803870-12], OFS[C803870-12RE1], SW-1[C803870-13]
Narrative:
Explanation: Matrix spike recoveries could not be calculated due to high concentrations of analyte in source sample.

Analysis: EPA 310.2 Alkalinity
Affected Samples: 8E07029-BLK1, 8E07029-BS1, 8E07029-MS1, 8E07029-MSD1, HA-1[C803870-14], HA-2[C803870-15]
Narrative: The laboratory control sample (LCS) exhibited high bias for this analyte(s); the associated sample(s) results had positive results and thus the impact of this nonconfomance may affect data quality.

Analysis: EPA 300.0 Sulfate
Affected Samples: 8E06016-MS1, 8E06016-MSD1, SW-5[C803870-02], SW-5[C803870-02RE1], SW-O[C803870-03], SW-O[C803870-03RE1], SW-8[C803870-04], OFE[C803870-05], SW-3[C803870-06], SW-3[C803870-06RE1], OFB[C803870-07], SW-6[C803870-08], SW-7[C803870-09], SW-9[C803870-10], SW-2[C803870-11], SW-2[C803870-11RE1], OFS[C803870-12], SW-1[C803870-13],8E06026-MS1, 8E06026-MSD1, SW-4[C803870-01], SW-4[C803870-01RE1]

Narrative: The MS/MSD recoveries were out of control. Analysis of the laboratory control sample indicated the laboratory was in control of the analytical process. Therefore, the MS/MSD indicates that matrix effects are most likely to have affected the analytical results.

Analysis: EPA 9056 Chloride & Sulfate
Affected Samples: HA-1[C803870-14], HA-1[C803870-14RE1], HA-2[C803870-15], HA-2[C803870-15RE1]
Narrative: The sample(s) could not be analyzed within holding times for method TEST_ID because the request for the test was made after the holding time for the sample expired.

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SW-4 Lab ID: C803870-01 Sampled: 04/22/08 14:45 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/29/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/29/08	04/25/08 09:03	4/28/2008 14:10
EPA 300.0	05/20/08	05/06/08 15:25	5/7/2008 07:55
EPA 310.2	05/06/08	05/05/08 08:51	5/5/2008 14:25
EPA 353.2	05/20/08	05/04/08 08:38	5/4/2008 15:20
EPA 365.4	05/20/08	05/06/08 12:00	5/7/2008 12:40
EPA 6010B	10/19/08	04/28/08 07:09	4/29/2008 12:50
EPA 7470A	05/20/08	05/05/08 07:10	5/6/2008 16:05

Client ID: SW-4 Lab ID: C803870-01RE1 Sampled: 04/22/08 14:45 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/20/08	05/06/08 15:25	5/8/2008 03:47
SM4500-Cl/E	05/20/08	05/05/08 08:54	5/5/2008 15:05

Client ID: SW-5 Lab ID: C803870-02 Sampled: 04/22/08 15:20 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/29/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/29/08	04/25/08 09:03	4/28/2008 14:10
EPA 300.0	05/20/08	05/06/08 11:59	5/6/2008 18:34
EPA 310.2	05/06/08	05/05/08 08:51	5/5/2008 14:27
EPA 353.2	05/20/08	05/04/08 08:38	5/4/2008 15:23
EPA 365.4	05/20/08	05/06/08 12:00	5/7/2008 12:45
EPA 6010B	10/19/08	04/28/08 07:09	4/29/2008 12:57
EPA 7470A	05/20/08	05/05/08 07:10	5/6/2008 16:08
SM4500-Cl/E	05/20/08	05/05/08 08:54	5/5/2008 14:06

Client ID: SW-5 Lab ID: C803870-02RE1 Sampled: 04/22/08 15:20 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/20/08	05/06/08 11:59	5/8/2008 02:18

Client ID: SW-O Lab ID: C803870-03 Sampled: 04/22/08 14:45 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/29/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/29/08	04/25/08 09:03	4/28/2008 14:10
EPA 300.0	05/20/08	05/06/08 11:59	5/6/2008 20:03
EPA 310.2	05/06/08	05/05/08 08:51	5/5/2008 14:28
EPA 353.2	05/20/08	05/04/08 08:38	5/4/2008 15:25
EPA 365.4	05/20/08	05/06/08 12:00	5/7/2008 12:47
EPA 6010B	10/19/08	04/28/08 07:09	4/29/2008 13:04
EPA 7470A	05/20/08	05/05/08 07:10	5/6/2008 16:12

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Client ID: SW-O Lab ID: C803870-03RE1 Sampled: 04/22/08 14:45 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/20/08	05/06/08 11:59	5/8/2008 00:19
SM4500-Cl/E	05/20/08	05/05/08 08:54	5/5/2008 15:06

Client ID: SW-8 Lab ID: C803870-04 Sampled: 04/23/08 13:00 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/30/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/30/08	04/28/08 10:35	4/29/2008 14:15
EPA 300.0	05/21/08	04/29/08 08:55	4/30/2008 07:07
EPA 300.0	05/21/08	05/06/08 11:59	5/6/2008 20:33
EPA 310.2	05/07/08	05/05/08 08:51	5/5/2008 14:29
EPA 353.2	05/21/08	05/04/08 08:38	5/4/2008 15:27
EPA 365.4	05/21/08	05/06/08 12:00	5/7/2008 12:49
EPA 6010B	10/20/08	04/28/08 07:09	4/29/2008 13:11
EPA 7470A	05/21/08	04/28/08 10:33	4/29/2008 11:52
SM4500-Cl/E	05/21/08	05/05/08 08:54	5/5/2008 14:08

Client ID: OFF Lab ID: C803870-05 Sampled: 04/23/08 12:20 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/30/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/30/08	04/28/08 10:35	4/29/2008 14:15
EPA 300.0	05/21/08	04/29/08 08:55	4/30/2008 07:42
EPA 300.0	05/21/08	05/06/08 11:59	5/6/2008 21:02
EPA 310.2	05/07/08	05/05/08 08:51	5/5/2008 14:30
EPA 353.2	05/21/08	05/04/08 08:38	5/4/2008 15:29
EPA 365.4	05/21/08	05/06/08 12:00	5/7/2008 12:51
EPA 6010B	10/20/08	04/28/08 07:09	4/29/2008 13:18
EPA 7470A	05/21/08	04/28/08 10:33	4/29/2008 11:55
SM4500-Cl/E	05/21/08	05/05/08 08:54	5/5/2008 14:08

Client ID: SW-3 Lab ID: C803870-06 Sampled: 04/22/08 14:00 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/29/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/29/08	04/25/08 09:03	4/28/2008 14:10
EPA 300.0	05/20/08	05/06/08 11:59	5/6/2008 21:32
EPA 310.2	05/06/08	05/05/08 08:51	5/5/2008 14:31
EPA 353.2	05/20/08	05/04/08 08:38	5/4/2008 15:31
EPA 365.4	05/20/08	05/06/08 12:00	5/7/2008 12:52
EPA 6010B	10/19/08	04/28/08 07:09	4/29/2008 13:39
EPA 7470A	05/20/08	05/05/08 07:10	5/6/2008 16:16

Client ID: SW-3 Lab ID: C803870-06RE1 Sampled: 04/22/08 14:00 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/20/08	05/06/08 11:59	5/8/2008 01:48
SM4500-Cl/E	05/20/08	05/05/08 08:54	5/5/2008 15:07

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Client ID: OEB	Lab ID: C803870-07	Sampled: 04/22/08 14:10	Received: 04/24/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 160.1	04/29/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/29/08	04/25/08 09:03	4/28/2008 14:10
EPA 300.0	05/20/08	05/06/08 11:59	5/6/2008 22:02
EPA 310.2	05/06/08	05/05/08 08:51	5/5/2008 14:32
EPA 353.2	05/20/08	05/04/08 08:38	5/4/2008 15:33
EPA 365.4	05/20/08	05/06/08 12:00	5/7/2008 12:56
EPA 6010B	10/19/08	04/28/08 07:09	4/29/2008 13:46
EPA 7470A	05/20/08	05/05/08 07:10	5/6/2008 16:19
SM4500-Cl/E	05/20/08	05/05/08 08:54	5/5/2008 14:10

Client ID: SW-6	Lab ID: C803870-08	Sampled: 04/23/08 11:37	Received: 04/24/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 160.1	04/30/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/30/08	04/28/08 10:35	4/29/2008 14:15
EPA 300.0	05/21/08	05/06/08 11:59	5/6/2008 22:31
EPA 310.2	05/07/08	05/05/08 08:51	5/5/2008 14:33
EPA 353.2	05/21/08	05/04/08 08:38	5/4/2008 15:35
EPA 365.4	05/21/08	05/06/08 12:00	5/7/2008 12:57
EPA 6010B	10/20/08	04/28/08 07:09	4/29/2008 13:53
EPA 7470A	05/21/08	05/05/08 07:10	5/6/2008 16:22
SM4500-Cl/E	05/21/08	05/05/08 08:54	5/5/2008 14:10

Client ID: SW-7	Lab ID: C803870-09	Sampled: 04/23/08 12:00	Received: 04/24/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 160.1	04/30/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/30/08	04/28/08 10:35	4/29/2008 14:15
EPA 300.0	05/21/08	04/29/08 08:55	4/30/2008 08:17
EPA 300.0	05/21/08	05/06/08 11:59	5/7/2008 00:00
EPA 310.2	05/07/08	05/05/08 08:51	5/5/2008 14:34
EPA 353.2	05/21/08	05/04/08 08:38	5/4/2008 15:37
EPA 365.4	05/21/08	05/06/08 12:00	5/7/2008 12:59
EPA 6010B	10/20/08	04/28/08 07:09	4/29/2008 13:25
EPA 7470A	05/21/08	04/28/08 10:33	4/29/2008 11:58
SM4500-Cl/E	05/21/08	05/05/08 08:54	5/5/2008 14:11

Client ID: SW-9	Lab ID: C803870-10	Sampled: 04/23/08 13:30	Received: 04/24/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 160.1	04/30/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/30/08	04/28/08 10:35	4/29/2008 14:15
EPA 300.0	05/21/08	05/06/08 11:59	5/7/2008 00:30
EPA 310.2	05/07/08	05/05/08 08:51	5/5/2008 14:35
EPA 353.2	05/21/08	05/04/08 08:38	5/4/2008 15:40
EPA 6010B	10/20/08	04/28/08 07:09	4/29/2008 14:16
EPA 7470A	05/21/08	05/05/08 07:10	5/6/2008 16:25
SM4500-Cl/E	05/21/08	05/05/08 08:54	5/5/2008 14:11

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Client ID: SW-9 Lab ID: C803870-10RE1 Sampled: 04/23/08 13:30 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 365.4	05/21/08	05/06/08 12:00	5/7/2008 17:25

Client ID: SW-2 Lab ID: C803870-11 Sampled: 04/22/08 12:40 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/29/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/29/08	04/25/08 09:03	4/28/2008 14:10
EPA 300.0	05/20/08	05/06/08 11:59	5/7/2008 01:00
EPA 310.2	05/06/08	05/05/08 08:51	5/5/2008 14:36
EPA 353.2	05/20/08	05/04/08 08:38	5/4/2008 15:44
EPA 365.4	05/20/08	05/06/08 12:00	5/7/2008 13:02
EPA 6010B	10/19/08	04/28/08 07:09	4/29/2008 14:23
EPA 7470A	05/20/08	05/05/08 07:10	5/6/2008 16:28
SM4500-Cl/E	05/20/08	05/05/08 08:54	5/5/2008 14:12

Client ID: OFS Lab ID: C803870-12 Sampled: 04/22/08 13:40 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/29/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/29/08	04/25/08 09:03	4/28/2008 14:10
EPA 300.0	05/20/08	05/06/08 11:59	5/7/2008 01:29
EPA 310.2	05/06/08	05/05/08 08:51	5/5/2008 14:37
EPA 353.2	05/20/08	05/04/08 08:38	5/4/2008 15:45
EPA 365.4	05/20/08	05/06/08 12:00	5/7/2008 13:04
EPA 6010B	10/19/08	04/28/08 07:09	4/29/2008 13:32
EPA 7470A	05/20/08	04/28/08 10:33	4/29/2008 12:01

Client ID: OFS Lab ID: C803870-12RE1 Sampled: 04/22/08 13:40 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	05/20/08	04/29/08 08:55	4/30/2008 15:51
SM4500-Cl/E	05/20/08	05/05/08 08:54	5/5/2008 15:08

Client ID: SW-1 Lab ID: C803870-13 Sampled: 04/22/08 11:53 Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/29/08	04/25/08 11:40	4/28/2008 12:55
EPA 160.2	04/29/08	04/25/08 09:03	4/28/2008 14:10
EPA 300.0	05/20/08	05/06/08 11:59	5/7/2008 01:59
EPA 310.2	05/06/08	05/05/08 08:51	5/5/2008 14:38
EPA 353.2	05/20/08	05/04/08 08:38	5/4/2008 15:46
EPA 365.4	05/20/08	05/06/08 12:00	5/7/2008 13:06
EPA 6010B	10/19/08	04/28/08 07:09	4/29/2008 14:30
EPA 7470A	05/20/08	05/05/08 07:10	5/6/2008 16:32
SM4500-Cl/E	05/20/08	05/05/08 08:54	5/5/2008 14:13

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Client ID: HA-1	Lab ID: C803870-14	Sampled: 04/23/08 14:10	Received: 04/24/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 310.2	05/07/08	05/07/08 12:25	5/7/2008 18:10
EPA 353.2	05/21/08	05/08/08 07:54	5/8/2008 12:37
EPA 6010B	10/20/08	04/29/08 12:40	5/2/2008 17:01
EPA 6010B	10/20/08	04/29/08 12:40	5/2/2008 17:06
EPA 6010B	10/20/08 10/26/08	04/29/08 12:40	5/2/2008 17:06
EPA 6010B	10/20/08	05/02/08 07:08	5/5/2008 15:50
EPA 6010B	10/20/08	04/29/08 12:40	5/2/2008 17:01
EPA 6010B	10/20/08	05/02/08 07:08	5/5/2008 15:50
EPA 7470A	05/21/08	04/29/08 12:28	4/30/2008 11:07
EPA 7470A	05/21/08	04/29/08 12:28	4/30/2008 11:09
EPA 7471A	05/21/08	05/02/08 07:13	5/6/2008 08:48
EPA 9056	04/26/08 06/04/08	05/07/08 12:36	5/8/2008 06:15

Client ID: HA-1	Lab ID: C803870-14RE1	Sampled: 04/23/08 14:10	Received: 04/24/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	10/20/08	04/29/08 12:40	5/5/2008 21:06
EPA 6010B	10/20/08	04/29/08 12:40	5/5/2008 21:12
EPA 9056	04/26/08 06/04/08	05/07/08 12:36	5/8/2008 09:13

Client ID: HA-1	Lab ID: C803870-14RE2	Sampled: 04/23/08 14:10	Received: 04/24/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	10/20/08	04/29/08 12:40	5/7/2008 17:30
EPA 6010B	10/20/08 10/26/08	04/29/08 12:40	5/7/2008 17:36

Client ID: HA-2	Lab ID: C803870-15	Sampled: 04/23/08 14:30	Received: 04/24/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 310.2	05/07/08	05/07/08 12:25	5/7/2008 18:11
EPA 353.2	05/21/08	05/08/08 07:54	5/8/2008 12:43
EPA 6010B	10/20/08	04/29/08 12:40	5/2/2008 17:26
EPA 6010B	10/20/08	04/29/08 12:40	5/2/2008 17:31
EPA 6010B	10/20/08 10/26/08	04/29/08 12:40	5/2/2008 17:31
EPA 6010B	10/20/08	05/02/08 07:08	5/5/2008 16:14
EPA 6010B	10/20/08	04/29/08 12:40	5/2/2008 17:26
EPA 6010B	10/20/08	05/02/08 07:08	5/5/2008 16:14
EPA 7470A	05/21/08	04/29/08 12:28	4/30/2008 11:10
EPA 7470A	05/21/08	04/29/08 12:28	4/30/2008 11:15
EPA 7471A	05/21/08	05/02/08 07:13	5/6/2008 09:01
EPA 9056	04/26/08 06/04/08	05/07/08 12:36	5/8/2008 07:44

Client ID: HA-2	Lab ID: C803870-15RE1	Sampled: 04/23/08 14:30	Received: 04/24/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	10/20/08	04/29/08 12:40	5/5/2008 21:18
EPA 6010B	10/20/08	04/29/08 12:40	5/5/2008 21:24
EPA 9056	04/26/08 06/04/08	05/07/08 12:36	5/8/2008 09:43

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Client ID: HA-2	Lab ID: C803870-15RE2	Sampled: 04/23/08 14:30	Received: 04/24/08 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/20/08		04/29/08 12:40	5/7/2008 17:59
EPA 6010B	10/20/08		04/29/08 12:40	5/7/2008 18:04
EPA 6010B	10/20/08	10/26/08	04/29/08 12:40	5/7/2008 18:04

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SAMPLE DETECTION SUMMARY

Client ID: SW-4 — **Lab ID: C803870-01**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	4810		100	ug/L	EPA 6010B	
Antimony	3.4	J	10.0	ug/L	EPA 6010B	
Barium	89.5		10.0	ug/L	EPA 6010B	
Boron	40.7	J	50.0	ug/L	EPA 6010B	
Calcium	38600	B	100	ug/L	EPA 6010B	
Cobalt	37.1		10.0	ug/L	EPA 6010B	
Copper	2.20	J	10.0	ug/L	EPA 6010B	
Fluoride	0.24		0.20	mg/L	EPA 300.0	
Iron	2970		50	ug/L	EPA 6010B	
Magnesium	7660		100	ug/L	EPA 6010B	
Manganese	285		10.0	ug/L	EPA 6010B	
Nickel	27.7		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.064	JB	0.10	mg/L	EPA 353.2	J-01a
Potassium	24400	B	500	ug/L	EPA 6010B	
Silver	2.9	J	10.0	ug/L	EPA 6010B	
Sodium	128000		500	ug/L	EPA 6010B	
Thallium	6.2	J	10.0	ug/L	EPA 6010B	
Total Dissolved Solids	530		10	mg/L	EPA 160.1	
Total Suspended Solids	20		1.0	mg/L	EPA 160.2	
Zinc	48.6		10.0	ug/L	EPA 6010B	

Client ID: SW-4 — **Lab ID: C803870-01RE1**

Analyte	Results	Flag	MRL	Units	Method	Notes
Chloride	250	D	10	mg/L	SM4500-Cl/E	
Sulfate as SO4	90	D	20	mg/L	EPA 300.0	

Client ID: SW-5 — **Lab ID: C803870-02**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	244		100	ug/L	EPA 6010B	
Barium	62.5		10.0	ug/L	EPA 6010B	
Boron	39.6	J	50.0	ug/L	EPA 6010B	
Calcium	55100	B	100	ug/L	EPA 6010B	
Chloride	34		5.0	mg/L	SM4500-Cl/E	
Fluoride	0.45		0.20	mg/L	EPA 300.0	
Iron	209		50	ug/L	EPA 6010B	
Magnesium	20000		100	ug/L	EPA 6010B	
Manganese	136		10.0	ug/L	EPA 6010B	
Nickel	8.4	J	10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.036	JB	0.10	mg/L	EPA 353.2	J-01a
Potassium	4780	B	500	ug/L	EPA 6010B	
Sodium	17000		500	ug/L	EPA 6010B	
Total Alkalinity	51		15	mg/L	EPA 310.2	
Total Dissolved Solids	340		10	mg/L	EPA 160.1	
Total Suspended Solids	7.0		1.0	mg/L	EPA 160.2	
Zinc	4.1	J	10.0	ug/L	EPA 6010B	

Client ID: SW-5 — **Lab ID: C803870-02RE1**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	140	D	20	mg/L	EPA 300.0	

Client ID: SW-0	Lab ID: C803870-03					
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Aluminum	3860		100	ug/L	EPA 6010B	
Barium	86.0		10.0	ug/L	EPA 6010B	
Boron	38.1	J	50.0	ug/L	EPA 6010B	
Calcium	37800	B	100	ug/L	EPA 6010B	
Cobalt	32.5		10.0	ug/L	EPA 6010B	
Fluoride	0.18	J	0.20	mg/L	EPA 300.0	
Iron	2300		50	ug/L	EPA 6010B	
Lead	2.1	J	10.0	ug/L	EPA 6010B	
Magnesium	7460		100	ug/L	EPA 6010B	
Manganese	279		10.0	ug/L	EPA 6010B	
Nickel	27.4		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.062	JB	0.10	mg/L	EPA 353.2	J-01a
Potassium	23100	B	500	ug/L	EPA 6010B	
Sodium	123000		500	ug/L	EPA 6010B	
Total Dissolved Solids	550		10	mg/L	EPA 160.1	
Total Suspended Solids	22		1.0	mg/L	EPA 160.2	
Zinc	47.1		10.0	ug/L	EPA 6010B	

Client ID: SW-0	Lab ID: C803870-03RE1					
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Chloride	260	D	10	mg/L	SM4500-Cl/E	
Sulfate as SO4	98	D	10	mg/L	EPA 300.0	

Client ID: SW-8	Lab ID: C803870-04					
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Aluminum	25100		100	ug/L	EPA 6010B	
Arsenic	2.6	J	10.0	ug/L	EPA 6010B	
Barium	130		10.0	ug/L	EPA 6010B	
Boron	34.2	J	50.0	ug/L	EPA 6010B	
Calcium	7730	B	100	ug/L	EPA 6010B	
Chloride	4.6	J	5.0	mg/L	SM4500-Cl/E	
Chromium	37.1		10.0	ug/L	EPA 6010B	
Cobalt	3.3	J	10.0	ug/L	EPA 6010B	
Fluoride	0.29		0.20	mg/L	EPA 300.0	
Iron	18200		50	ug/L	EPA 6010B	
Lead	7.0	J	10.0	ug/L	EPA 6010B	
Magnesium	3780		100	ug/L	EPA 6010B	
Manganese	33.2		10.0	ug/L	EPA 6010B	
Nickel	16.0		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.17	B	0.10	mg/L	EPA 353.2	J-01a
Phosphorus	0.29		0.10	mg/L	EPA 365.4	
Potassium	2820	B	500	ug/L	EPA 6010B	
Sodium	2860		500	ug/L	EPA 6010B	
Sulfate as SO4	4.7	J	5.0	mg/L	EPA 300.0	
Total Alkalinity	11	J	15	mg/L	EPA 310.2	
Total Dissolved Solids	350		10	mg/L	EPA 160.1	
Total Suspended Solids	23		1.0	mg/L	EPA 160.2	
Vanadium	36.9		10.0	ug/L	EPA 6010B	
Zinc	28.5		10.0	ug/L	EPA 6010B	

Client ID: OFE Lab ID: C803870-05

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	9900		100	ug/L	EPA 6010B	
Arsenic	2.1	J	10.0	ug/L	EPA 6010B	
Barium	79.8		10.0	ug/L	EPA 6010B	
Boron	50.7		50.0	ug/L	EPA 6010B	
Calcium	19600	B	100	ug/L	EPA 6010B	
Chloride	18		5.0	mg/L	SM4500-Cl/E	
Chromium	12.4		10.0	ug/L	EPA 6010B	
Copper	1.40	J	10.0	ug/L	EPA 6010B	
Fluoride	0.38		0.20	mg/L	EPA 300.0	
Iron	6670		50	ug/L	EPA 6010B	
Lead	3.1	J	10.0	ug/L	EPA 6010B	
Magnesium	6650		100	ug/L	EPA 6010B	
Manganese	24.7		10.0	ug/L	EPA 6010B	
Nickel	6.5	J	10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.30	B	0.10	mg/L	EPA 353.2	J-01a
Phosphorus	0.14		0.10	mg/L	EPA 365.4	
Potassium	3960	B	500	ug/L	EPA 6010B	
Sodium	9840		500	ug/L	EPA 6010B	
Sulfate as SO4	31		5.0	mg/L	EPA 300.0	
Total Alkalinity	25		15	mg/L	EPA 310.2	
Total Dissolved Solids	240		10	mg/L	EPA 160.1	
Total Suspended Solids	57		1.0	mg/L	EPA 160.2	
Vanadium	15.0		10.0	ug/L	EPA 6010B	
Zinc	46.4		10.0	ug/L	EPA 6010B	

Client ID: SW-3 Lab ID: C803870-06

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	7380		100	ug/L	EPA 6010B	
Barium	97.7		10.0	ug/L	EPA 6010B	
Boron	32.5	J	50.0	ug/L	EPA 6010B	
Calcium	49000	B	100	ug/L	EPA 6010B	
Cobalt	54.8		10.0	ug/L	EPA 6010B	
Fluoride	0.32		0.20	mg/L	EPA 300.0	
Iron	2320		50	ug/L	EPA 6010B	
Magnesium	10100		100	ug/L	EPA 6010B	
Manganese	412		10.0	ug/L	EPA 6010B	
Nickel	46.5		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.083	JB	0.10	mg/L	EPA 353.2	J-01a
Potassium	25200	B	500	ug/L	EPA 6010B	
Sodium	143000		500	ug/L	EPA 6010B	
Total Dissolved Solids	690		10	mg/L	EPA 160.1	
Total Suspended Solids	7.2		1.0	mg/L	EPA 160.2	
Zinc	88.7		10.0	ug/L	EPA 6010B	

Client ID: SW-3 Lab ID: C803870-06RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Chloride	290	D	10	mg/L	SM4500-Cl/E	
Sulfate as SO4	160	D	10	mg/L	EPA 300.0	

Client ID: OFB Lab ID: C803870-07

Analyte	Results	Flag	MRL	Units	Method	Notes

Client ID: OFB			Lab ID: C803870-07			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Barium	0.30	J	10.0	ug/L	EPA 6010B	
Calcium	64.9	JB	100	ug/L	EPA 6010B	
Chloride	0.79	J	5.0	mg/L	SM4500-Cl/E	
Copper	4.20	J	10.0	ug/L	EPA 6010B	
Iron	60		50	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.16	B	0.10	mg/L	EPA 353.2	J-01a
Sulfate as SO4	1.4	J	5.0	mg/L	EPA 300.0	
Total Dissolved Solids	76		10	mg/L	EPA 160.1	
Total Suspended Solids	1.4		1.0	mg/L	EPA 160.2	
Zinc	13.8		10.0	ug/L	EPA 6010B	

Client ID: SW-6			Lab ID: C803870-08			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Aluminum	15800		100	ug/L	EPA 6010B	
Arsenic	6.0	J	10.0	ug/L	EPA 6010B	
Barium	107		10.0	ug/L	EPA 6010B	
Boron	59.6		50.0	ug/L	EPA 6010B	
Calcium	18500	B	100	ug/L	EPA 6010B	
Chloride	17		5.0	mg/L	SM4500-Cl/E	
Chromium	18.8		10.0	ug/L	EPA 6010B	
Fluoride	0.30		0.20	mg/L	EPA 300.0	
Iron	11600		50	ug/L	EPA 6010B	
ead	5.6	J	10.0	ug/L	EPA 6010B	
Magnesium	4300		100	ug/L	EPA 6010B	
Manganese	13.3		10.0	ug/L	EPA 6010B	
Nickel	8.4	J	10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.33	B	0.10	mg/L	EPA 353.2	J-01a
Phosphorus	0.19		0.10	mg/L	EPA 365.4	
Potassium	4990	B	500	ug/L	EPA 6010B	
Sodium	8550		500	ug/L	EPA 6010B	
Sulfate as SO4	18		5.0	mg/L	EPA 300.0	
Total Alkalinity	26		15	mg/L	EPA 310.2	
Total Dissolved Solids	280		10	mg/L	EPA 160.1	
Total Suspended Solids	20		1.0	mg/L	EPA 160.2	
Vanadium	24.6		10.0	ug/L	EPA 6010B	
Zinc	17.8		10.0	ug/L	EPA 6010B	

Client ID: SW-7			Lab ID: C803870-09			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Aluminum	9870		100	ug/L	EPA 6010B	
Barium	79.1		10.0	ug/L	EPA 6010B	
Boron	50.6		50.0	ug/L	EPA 6010B	
Calcium	19500	B	100	ug/L	EPA 6010B	
Chloride	18		5.0	mg/L	SM4500-Cl/E	
Chromium	11.6		10.0	ug/L	EPA 6010B	
Copper	0.70	J	10.0	ug/L	EPA 6010B	
Fluoride	0.36		0.20	mg/L	EPA 300.0	
Iron	6240		50	ug/L	EPA 6010B	
ead	2.8	J	10.0	ug/L	EPA 6010B	
Magnesium	6630		100	ug/L	EPA 6010B	
Manganese	12.6		10.0	ug/L	EPA 6010B	

Client ID: SW-7 — **Lab ID: C803870-09**

Analyte	Results	Flag	MRL	Units	Method	Notes
Nickel	6.4	J	10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.33	B	0.10	mg/L	EPA 353.2	J-01a
Phosphorus	0.098	J	0.10	mg/L	EPA 365.4	
Potassium	4060	B	500	ug/L	EPA 6010B	
Sodium	9520		500	ug/L	EPA 6010B	
Sulfate as SO4	32		5.0	mg/L	EPA 300.0	
Total Alkalinity	25		15	mg/L	EPA 310.2	
Total Dissolved Solids	220		10	mg/L	EPA 160.1	
Total Suspended Solids	37		1.0	mg/L	EPA 160.2	
Vanadium	14.1		10.0	ug/L	EPA 6010B	
Zinc	15.8		10.0	ug/L	EPA 6010B	

Client ID: SW-9 — **Lab ID: C803870-10**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	11000		100	ug/L	EPA 6010B	
Arsenic	4.5	J	10.0	ug/L	EPA 6010B	
Barium	74.1		10.0	ug/L	EPA 6010B	
Boron	34.5	J	50.0	ug/L	EPA 6010B	
Calcium	7240	B	100	ug/L	EPA 6010B	
Chloride	5.6		5.0	mg/L	SM4500-Cl/E	
Chromium	14.1		10.0	ug/L	EPA 6010B	
Copper	1.30	J	10.0	ug/L	EPA 6010B	
Fluoride	0.19	J	0.20	mg/L	EPA 300.0	
Iron	7750		50	ug/L	EPA 6010B	
Lead	3.9	J	10.0	ug/L	EPA 6010B	
Magnesium	2330		100	ug/L	EPA 6010B	
Manganese	21.6		10.0	ug/L	EPA 6010B	
Nickel	6.1	J	10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.085	JB	0.10	mg/L	EPA 353.2	J-01a
Potassium	2050	B	500	ug/L	EPA 6010B	
Sodium	2700		500	ug/L	EPA 6010B	
Sulfate as SO4	5.5		5.0	mg/L	EPA 300.0	
Total Alkalinity	20		15	mg/L	EPA 310.2	
Total Dissolved Solids	130		10	mg/L	EPA 160.1	
Total Suspended Solids	83		1.0	mg/L	EPA 160.2	
Vanadium	18.0		10.0	ug/L	EPA 6010B	
Zinc	18.5		10.0	ug/L	EPA 6010B	

Client ID: SW-9 — **Lab ID: C803870-10RE1**

Analyte	Results	Flag	MRL	Units	Method	Notes
Phosphorus	0.18		0.10	mg/L	EPA 365.4	

Client ID: SW-2 — **Lab ID: C803870-11**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	2290		100	ug/L	EPA 6010B	
Barium	68.0		10.0	ug/L	EPA 6010B	
Boron	46.2	J	50.0	ug/L	EPA 6010B	
Calcium	32400	B	100	ug/L	EPA 6010B	
Chloride	54		5.0	mg/L	SM4500-Cl/E	
Fluoride	0.31		0.20	mg/L	EPA 300.0	
Iron	1440		50	ug/L	EPA 6010B	

Client ID: SW-2			Lab ID: C803870-11			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Magnesium	8350		100	ug/L	EPA 6010B	
Manganese	15.6		10.0	ug/L	EPA 6010B	
Nickel	3.4	J	10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.10	B	0.10	mg/L	EPA 353.2	J-01a
Potassium	5550	B	500	ug/L	EPA 6010B	
Sodium	23600		500	ug/L	EPA 6010B	
Sulfate as SO4	61		5.0	mg/L	EPA 300.0	
Total Alkalinity	30		15	mg/L	EPA 310.2	
Total Dissolved Solids	250		10	mg/L	EPA 160.1	
Total Suspended Solids	19		1.0	mg/L	EPA 160.2	
Vanadium	2.4	J	10.0	ug/L	EPA 6010B	
Zinc	6.8	J	10.0	ug/L	EPA 6010B	

Client ID: OFS			Lab ID: C803870-12			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Aluminum	7540		100	ug/L	EPA 6010B	
Barium	100		10.0	ug/L	EPA 6010B	
Boron	33.4	J	50.0	ug/L	EPA 6010B	
Calcium	50400	B	100	ug/L	EPA 6010B	
Cobalt	56.6		10.0	ug/L	EPA 6010B	
Fluoride	0.29		0.20	mg/L	EPA 300.0	
Iron	2350		50	ug/L	EPA 6010B	
Magnesium	10400		100	ug/L	EPA 6010B	
Manganese	422		10.0	ug/L	EPA 6010B	
Nickel	46.9		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.079	JB	0.10	mg/L	EPA 353.2	J-01a
Potassium	25500	B	500	ug/L	EPA 6010B	
Sodium	146000		500	ug/L	EPA 6010B	
Total Dissolved Solids	670		10	mg/L	EPA 160.1	
Total Suspended Solids	8.6		1.0	mg/L	EPA 160.2	
Zinc	89.7		10.0	ug/L	EPA 6010B	

Client ID: OFS			Lab ID: C803870-12RE1			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Chloride	320	D	10	mg/L	SM4500-Cl/E	
Sulfate as SO4	150	D	10	mg/L	EPA 300.0	

Client ID: SW-1			Lab ID: C803870-13			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Aluminum	899		100	ug/L	EPA 6010B	
Barium	62.7		10.0	ug/L	EPA 6010B	
Boron	53.4		50.0	ug/L	EPA 6010B	
Calcium	23800	B	100	ug/L	EPA 6010B	
Chloride	52		5.0	mg/L	SM4500-Cl/E	
Copper	0.90	J	10.0	ug/L	EPA 6010B	
Fluoride	0.16	J	0.20	mg/L	EPA 300.0	
Iron	789		50	ug/L	EPA 6010B	
Magnesium	4560		100	ug/L	EPA 6010B	
Manganese	11.8		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.38	B	0.10	mg/L	EPA 353.2	QB-01
Potassium	6350	B	500	ug/L	EPA 6010B	

Client ID: SW-1			Lab ID: C803870-13			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Sodium	21500		500	ug/L	EPA 6010B	
Sulfate as SO4	34		5.0	mg/L	EPA 300.0	
Total Alkalinity	19		15	mg/L	EPA 310.2	
Total Dissolved Solids	210		10	mg/L	EPA 160.1	
Total Suspended Solids	11		1.0	mg/L	EPA 160.2	
Vanadium	1.1	J	10.0	ug/L	EPA 6010B	
Zinc	8.9	J	10.0	ug/L	EPA 6010B	

Client ID: HA-1			Lab ID: C803870-14			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Aluminum	11200		6.5	mg/kg dry	EPA 6010B	
Aluminum	14.2		0.200	mg/L	EPA 6010B	
Aluminum	1.95		1.00	mg/L	EPA 6010B	
Antimony	0.95		0.65	mg/kg dry	EPA 6010B	
Arsenic	0.0613		0.0100	mg/L	EPA 6010B	
Arsenic	54.9		0.65	mg/kg dry	EPA 6010B	
Arsenic	0.0667	B	0.0500	mg/L	EPA 6010B	J-01
Barium	478		0.650	mg/kg dry	EPA 6010B	
Barium	0.808	B	0.0500	mg/L	EPA 6010B	QB-01
Barium	0.0613		0.0100	mg/L	EPA 6010B	
Beryllium	0.0002	J	0.0010	mg/L	EPA 6010B	
Beryllium	3.19		0.065	mg/kg dry	EPA 6010B	
Beryllium	0.0037	J	0.0050	mg/L	EPA 6010B	
Boron	0.214	B	0.0500	mg/L	EPA 6010B	QB-01
Boron	1.23	B	0.250	mg/L	EPA 6010B	QB-01
Boron	36.8		3.25	mg/kg dry	EPA 6010B	
Cadmium	0.0004	J	0.0010	mg/L	EPA 6010B	
Cadmium	0.0015	J	0.0050	mg/L	EPA 6010B	
Calcium	12200		32.5	mg/kg dry	EPA 6010B	
Calcium	446	B	2.50	mg/L	EPA 6010B	QB-01
Calcium	47.4	B	0.100	mg/L	EPA 6010B	QB-01
Chromium	18.7		0.65	mg/kg dry	EPA 6010B	
Chromium	0.0316	J	0.0500	mg/L	EPA 6010B	
Chromium	0.0223		0.0100	mg/L	EPA 6010B	
Cobalt	0.0269	J	0.0500	mg/L	EPA 6010B	
Cobalt	10.1		0.65	mg/kg dry	EPA 6010B	
Copper	35.3		0.650	mg/kg dry	EPA 6010B	
Iron	10500	B	3.3	mg/kg dry	EPA 6010B	
Iron	0.0648	J	0.250	mg/L	EPA 6010B	
Lead	14.1	B	0.65	mg/kg dry	EPA 6010B	
Lead	0.0209	J	0.0500	mg/L	EPA 6010B	
Magnesium	1200		6.5	mg/kg dry	EPA 6010B	
Magnesium	11.9	B	2.50	mg/L	EPA 6010B	QB-01
Magnesium	0.119	JB	0.500	mg/L	EPA 6010B	J-01
Manganese	63.9	B	0.650	mg/kg dry	EPA 6010B	
Manganese	0.248		0.0500	mg/L	EPA 6010B	
Mercury	0.27		0.01	mg/kg dry	EPA 7471A	
Molybdenum	0.66		0.65	mg/kg dry	EPA 6010B	
Molybdenum	0.156		0.0500	mg/L	EPA 6010B	
Molybdenum	0.129		0.0100	mg/L	EPA 6010B	
Nickel	0.0560	JB	0.250	mg/L	EPA 6010B	QB-01
Nickel	19.0		0.65	mg/kg dry	EPA 6010B	

Client ID: HA-1	Lab ID: C803870-14					
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Nitrate/Nitrite as N	0.91	J	1.3	mg/kg dry	EPA 353.2	
Potassium	2080		32.5	mg/kg dry	EPA 6010B	
Selenium	0.0739		0.0100	mg/L	EPA 6010B	
Selenium	0.152	B	0.0500	mg/L	EPA 6010B	J-01
Selenium	8.86		0.65	mg/kg dry	EPA 6010B	
Sodium	1330		33	mg/kg dry	EPA 6010B	
Sulfate as SO4	410		65	mg/kg dry wt. dry	EPA 9056	Q
Total Alkalinity	2000	B	200	mg/kg dry	EPA 310.2	QB-01
Vanadium	55.1		0.650	mg/kg dry	EPA 6010B	
Vanadium	0.0526		0.0500	mg/L	EPA 6010B	
Vanadium	0.0862		0.0100	mg/L	EPA 6010B	
Zinc	0.0489	JB	0.100	mg/L	EPA 6010B	J-01
Zinc	24.1	B	0.650	mg/kg dry	EPA 6010B	

Client ID: HA-1	Lab ID: C803870-14RE1					
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Chloride	1700	D	130	mg/kg dry wt. dry	EPA 9056	Q
Potassium	17.4	B	2.50	mg/L	EPA 6010B	QB-01
Potassium	7.37		0.500	mg/L	EPA 6010B	
Sodium	1360	B	2.50	mg/L	EPA 6010B	J-01
Sodium	36.0	B	0.500	mg/L	EPA 6010B	J-01

Client ID: HA-1	Lab ID: C803870-14RE2					
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Antimony	0.0143	J	0.0200	mg/L	EPA 6010B	
Antimony	0.0343	J	0.100	mg/L	EPA 6010B	

Client ID: HA-2	Lab ID: C803870-15					
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Aluminum	0.381	J	1.00	mg/L	EPA 6010B	
Aluminum	12900		7.0	mg/kg dry	EPA 6010B	
Aluminum	19.7		0.200	mg/L	EPA 6010B	
Antimony	1.06		0.70	mg/kg dry	EPA 6010B	
Arsenic	0.0305	JB	0.0500	mg/L	EPA 6010B	J-01
Arsenic	0.0178		0.0100	mg/L	EPA 6010B	
Arsenic	39.8		0.70	mg/kg dry	EPA 6010B	
Barium	346		0.699	mg/kg dry	EPA 6010B	
Barium	0.0821		0.0100	mg/L	EPA 6010B	
Barium	0.918	B	0.0500	mg/L	EPA 6010B	QB-01
Beryllium	2.67		0.070	mg/kg dry	EPA 6010B	
Beryllium	0.0010	J	0.0050	mg/L	EPA 6010B	
Boron	0.310	B	0.0500	mg/L	EPA 6010B	QB-01
Boron	2.02	B	0.250	mg/L	EPA 6010B	QB-01
Boron	55.7		3.50	mg/kg dry	EPA 6010B	
Cadmium	0.0012	J	0.0050	mg/L	EPA 6010B	
Calcium	65.0	B	0.100	mg/L	EPA 6010B	QB-01
Calcium	578	B	2.50	mg/L	EPA 6010B	QB-01
Calcium	17100		35.0	mg/kg dry	EPA 6010B	
Chromium	0.0186		0.0100	mg/L	EPA 6010B	
Chromium	21.2		0.70	mg/kg dry	EPA 6010B	

Client ID: HA-2			Lab ID: C803870-15			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Chromium	0.0300	J	0.0500	mg/L	EPA 6010B	
Cobalt	0.0226	J	0.0500	mg/L	EPA 6010B	
Cobalt	10.3		0.70	mg/kg dry	EPA 6010B	
Copper	36.7		0.699	mg/kg dry	EPA 6010B	
Iron	10100	B	3.5	mg/kg dry	EPA 6010B	
Lead	15.3	B	0.70	mg/kg dry	EPA 6010B	
Lead	0.0170	J	0.0500	mg/L	EPA 6010B	
Magnesium	1680		7.0	mg/kg dry	EPA 6010B	
Manganese	80.9	B	0.699	mg/kg dry	EPA 6010B	
Manganese	0.299		0.0500	mg/L	EPA 6010B	
Mercury	0.34		0.01	mg/kg dry	EPA 7471A	
Molybdenum	2.49		0.70	mg/kg dry	EPA 6010B	
Molybdenum	0.135		0.0100	mg/L	EPA 6010B	
Molybdenum	0.258		0.0500	mg/L	EPA 6010B	
Nickel	20.7		0.70	mg/kg dry	EPA 6010B	
Nickel	0.0503	JB	0.250	mg/L	EPA 6010B	QB-01
Nitrate/Nitrite as N	0.78	J	1.4	mg/kg dry	EPA 353.2	
Potassium	2120		35.0	mg/kg dry	EPA 6010B	
Selenium	0.179	B	0.0500	mg/L	EPA 6010B	J-01
Selenium	0.0550		0.0100	mg/L	EPA 6010B	
Selenium	9.49		0.70	mg/kg dry	EPA 6010B	
Sodium	2310		35	mg/kg dry	EPA 6010B	
Sulfate as SO4	540		70	mg/kg dry wt. dry	EPA 9056	Q
Thallium	0.0036	J	0.0100	mg/L	EPA 6010B	
Total Alkalinity	2300	B	210	mg/kg dry	EPA 310.2	QB-01
Vanadium	61.9		0.699	mg/kg dry	EPA 6010B	
Vanadium	0.0716		0.0500	mg/L	EPA 6010B	
Vanadium	0.0495		0.0100	mg/L	EPA 6010B	
Zinc	29.6	B	0.699	mg/kg dry	EPA 6010B	
Zinc	0.0336	JB	0.100	mg/L	EPA 6010B	J-01

Client ID: HA-2			Lab ID: C803870-15RE1			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Chloride	3600	D	280	mg/kg dry wt. dry	EPA 9056	Q
Potassium	16.1		0.500	mg/L	EPA 6010B	
Potassium	24.4	B	2.50	mg/L	EPA 6010B	QB-01
Sodium	81.9	B	0.500	mg/L	EPA 6010B	J-01
Sodium	1400	B	2.50	mg/L	EPA 6010B	J-01

Client ID: HA-2			Lab ID: C803870-15RE2			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Antimony	0.0324	J	0.100	mg/L	EPA 6010B	
Antimony	0.0131	J	0.0200	mg/L	EPA 6010B	
Magnesium	0.119	JB	0.500	mg/L	EPA 6010B	J-01
Magnesium	21.2	B	2.50	mg/L	EPA 6010B	QB-01

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ANALYTICAL RESULTS

Description: SW-4
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-01
Sampled: 04/22/08 14:45
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**4810**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Antimony [7440-36-0] ^	**3.4**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Barium [7440-39-3] ^	**89.5**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Boron [7440-42-8] ^	**40.7**	J	ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Calcium [7440-70-2] ^	**38600**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Cobalt [7440-48-4] ^	**37.1**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Copper [7440-50-8] ^	**2.20**	J	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Iron [7439-89-6] ^	**2970**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Magnesium [7439-95-4] ^	**7660**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Manganese [7439-96-5] ^	**285**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
ercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E05001	EPA 7470A	05/06/08 16:05	MPL	
olybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Nickel [7440-02-0] ^	**27.7**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Potassium [7440-09-7] ^	**24400**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Silver [7440-22-4] ^	**2.9**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Sodium [7440-23-5] ^	**128000**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Thallium [7440-28-0] ^	**6.2**	J	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	
Zinc [7440-66-6] ^	**48.6**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 12:50	VLO	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**250**	D	mg/L	2	0.96	10	8E05013	SM4500-Cl/E	05/05/08 15:05	PEV	
Fluoride [16984-48-8]	**0.24**		mg/L	1	0.04	0.20	8E06026	EPA 300.0	05/07/08 07:55	AJ	
Nitrate/Nitrite as N [NA]	**0.064**	JB	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:20	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 12:40	PEV	
Sulfate as SO4 [14808-79-8]	**90**	D	mg/L	4	1.0	20	8E06026	EPA 300.0	05/08/08 03:47	AJ	
Total Alkalinity [NA]	4.7	U	mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:25	PEV	
Total Dissolved Solids [NA]	**530**		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	**20**		mg/L	1	1.0	1.0	8D25003	EPA 160.2	04/28/08 14:10	FLT	

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Description: SW-5
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-02
Sampled: 04/22/08 15:20
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**244**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Barium [7440-39-3] ^	**62.5**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Boron [7440-42-8] ^	**39.6**	J	ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Calcium [7440-70-2] ^	**55100**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Iron [7439-89-6] ^	**209**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Magnesium [7439-95-4] ^	**20000**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Manganese [7439-96-5] ^	**136**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E05001	EPA 7470A	05/06/08 16:08	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Nickel [7440-02-0] ^	**8.4**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Potassium [7440-09-7] ^	**4780**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Sodium [7440-23-5] ^	**17000**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	
Zinc [7440-66-6] ^	**4.1**	J	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 12:57	VLO	

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Description: SW-5
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-02
Sampled: 04/22/08 15:20
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**34**		mg/L	1	0.48	5.0	8E05013	SM4500-Cl/E	05/05/08 14:06	PEV	
Fluoride [16984-48-8]	**0.45**		mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/06/08 18:34	AJ	
Nitrate/Nitrite as N [NA]	**0.036**	JB	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:23	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 12:45	PEV	
Sulfate as SO4 [14808-79-8]	**140**	D	mg/L	4	1.0	20	8E06016	EPA 300.0	05/08/08 02:18	AJ	
Total Alkalinity [NA]	**51**		mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:27	PEV	
Total Dissolved Solids [NA]	**340**		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	**7.0**		mg/L	1	1.0	1.0	8D25003	EPA 160.2	04/28/08 14:10	FLT	

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Description: SW-O
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-03
Sampled: 04/22/08 14:45
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**3860**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Barium [7440-39-3] ^	**86.0**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Boron [7440-42-8] ^	**38.1**	J	ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Calcium [7440-70-2] ^	**37800**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Cobalt [7440-48-4] ^	**32.5**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Iron [7439-89-6] ^	**2300**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Lead [7439-92-1] ^	**2.1**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Magnesium [7439-95-4] ^	**7460**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Manganese [7439-96-5] ^	**279**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E05001	EPA 7470A	05/06/08 16:12	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Nickel [7440-02-0] ^	**27.4**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
tassium [7440-09-7] ^	**23100**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Sodium [7440-23-5] ^	**123000**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	
Zinc [7440-66-6] ^	**47.1**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:04	VLO	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**260**	D	mg/L	2	0.96	10	8E05013	SM4500-Cl/E	05/05/08 15:06	PEV	
Fluoride [16984-48-8]	**0.18**	J	mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/06/08 20:03	AJ	
Nitrate/Nitrite as N [NA]	**0.062**	JB	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:25	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 12:47	PEV	
Sulfate as SO4 [14808-79-8]	**98**	D	mg/L	2	0.50	10	8E06016	EPA 300.0	05/08/08 00:19	AJ	
Total Alkalinity [NA]	4.7	U	mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:28	PEV	
Total Dissolved Solids [NA]	**550**		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	**22**		mg/L	1	1.0	1.0	8D25003	EPA 160.2	04/28/08 14:10	FLT	

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Description: SW-8
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-04
Sampled: 04/23/08 13:00
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**25100**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Arsenic [7440-38-2] ^	**2.6**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Barium [7440-39-3] ^	**130**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Boron [7440-42-8] ^	**34.2**	J	ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Calcium [7440-70-2] ^	**7730**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Chromium [7440-47-3] ^	**37.1**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Cobalt [7440-48-4] ^	**3.3**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Iron [7439-89-6] ^	**18200**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Lead [7439-92-1] ^	**7.0**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Magnesium [7439-95-4] ^	**3780**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Manganese [7439-96-5] ^	**33.2**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8D28012	EPA 7470A	04/29/08 11:52	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Nickel [7440-02-0] ^	**16.0**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
otassium [7440-09-7] ^	**2820**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Sodium [7440-23-5] ^	**2860**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Vanadium [7440-62-2] ^	**36.9**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	
Zinc [7440-66-6] ^	**28.5**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:11	VLO	

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Description: SW-8
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-04
Sampled: 04/23/08 13:00
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	4.6	J	mg/L	1	0.48	5.0	8E05013	SM4500-Cl/E	05/05/08 14:08	PEV	
Fluoride [16984-48-8]	0.29		mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/06/08 20:33	AJ	
Nitrate/Nitrite as N [NA]	0.17	B	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:27	PEV	J-01a
Phosphorus [7723-14-0]	0.29		mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 12:49	PEV	
Sulfate as SO4 [14808-79-8]	4.7	J	mg/L	1	0.25	5.0	8D29006	EPA 300.0	04/30/08 07:07	AJ	
Total Alkalinity [NA]	11	J	mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:29	PEV	
Total Dissolved Solids [NA]	350		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	23		mg/L	1	1.0	1.0	8D28008	EPA 160.2	04/29/08 14:15	FLT	

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Description: OFE
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-05
Sampled: 04/23/08 12:20
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**9900**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Arsenic [7440-38-2] ^	**2.1**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Barium [7440-39-3] ^	**79.8**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Boron [7440-42-8] ^	**50.7**		ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Calcium [7440-70-2] ^	**19600**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Chromium [7440-47-3] ^	**12.4**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Copper [7440-50-8] ^	**1.40**	J	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Iron [7439-89-6] ^	**6670**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Lead [7439-92-1] ^	**3.1**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Magnesium [7439-95-4] ^	**6650**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Manganese [7439-96-5] ^	**24.7**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8D28012	EPA 7470A	04/29/08 11:55	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Nickel [7440-02-0] ^	**6.5**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
otassium [7440-09-7] ^	**3960**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 13:18	VLO	
elenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Sodium [7440-23-5] ^	**9840**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Vanadium [7440-62-2] ^	**15.0**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	
Zinc [7440-66-6] ^	**46.4**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:18	VLO	

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Description: OFE
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-05
Sampled: 04/23/08 12:20
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	18		mg/L	1	0.48	5.0	8E05013	SM4500-Cl/E	05/05/08 14:08	PEV	
Fluoride [16984-48-8]	0.38		mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/06/08 21:02	AJ	
Nitrate/Nitrite as N [NA]	0.30	B	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:29	PEV	J-01a
Phosphorus [7723-14-0]	0.14		mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 12:51	PEV	
Sulfate as SO4 [14808-79-8]	31		mg/L	1	0.25	5.0	8D29006	EPA 300.0	04/30/08 07:42	AJ	
Total Alkalinity [NA]	25		mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:30	PEV	
Total Dissolved Solids [NA]	240		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	57		mg/L	1	1.0	1.0	8D28008	EPA 160.2	04/29/08 14:15	FLT	

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Description: SW-3
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-06
Sampled: 04/22/08 14:00
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**7380**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Barium [7440-39-3] ^	**97.7**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Boron [7440-42-8] ^	**32.5**	J	ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Calcium [7440-70-2] ^	**49000**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Cobalt [7440-48-4] ^	**54.8**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Iron [7439-89-6] ^	**2320**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Magnesium [7439-95-4] ^	**10100**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Manganese [7439-96-5] ^	**412**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E05001	EPA 7470A	05/06/08 16:16	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Nickel [7440-02-0] ^	**46.5**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Potassium [7440-09-7] ^	**25200**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Sodium [7440-23-5] ^	**143000**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	
Zinc [7440-66-6] ^	**88.7**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:39	VLO	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**290**	D	mg/L	2	0.96	10	8E05013	SM4500-Cl/E	05/05/08 15:07	PEV	
Fluoride [16984-48-8]	**0.32**		mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/06/08 21:32	AJ	
Nitrate/Nitrite as N [NA]	**0.083**	JB	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:31	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 12:52	PEV	
Sulfate as SO4 [14808-79-8]	**160**	D	mg/L	2	0.50	10	8E06016	EPA 300.0	05/08/08 01:48	AJ	
Total Alkalinity [NA]	4.7	U	mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:31	PEV	
Total Dissolved Solids [NA]	**690**		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	**7.2**		mg/L	1	1.0	1.0	8D25003	EPA 160.2	04/28/08 14:10	FLT	

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Description: OFB
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-07
Sampled: 04/22/08 14:10
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	50	U	ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Barium [7440-39-3] ^	**0.30**	J	ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Boron [7440-42-8] ^	4.0	U	ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Calcium [7440-70-2] ^	**64.9**	JB	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Copper [7440-50-8] ^	**4.20**	J	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Iron [7439-89-6] ^	**60**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Magnesium [7439-95-4] ^	20	U	ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Manganese [7439-96-5] ^	1.4	U	ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E05001	EPA 7470A	05/06/08 16:19	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Nickel [7440-02-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
tassium [7440-09-7] ^	50	U	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Sodium [7440-23-5] ^	200	U	ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	
Zinc [7440-66-6] ^	**13.8**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:46	VLO	

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Description: OFB
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-07
Sampled: 04/22/08 14:10
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**0.79**	J	mg/L	1	0.48	5.0	8E05013	SM4500-Cl/E	05/05/08 14:10	PEV	
Fluoride [16984-48-8]	0.04	U	mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/06/08 22:02	AJ	
Nitrate/Nitrite as N [NA]	**0.16**	B	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:33	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 12:56	PEV	
Sulfate as SO4 [14808-79-8]	**1.4**	J	mg/L	1	0.25	5.0	8E06016	EPA 300.0	05/06/08 22:02	AJ	
Total Alkalinity [NA]	4.7	U	mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:32	PEV	
Total Dissolved Solids [NA]	**76**		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	**1.4**		mg/L	1	1.0	1.0	8D25003	EPA 160.2	04/28/08 14:10	FLT	

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Description: SW-6
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-08
Sampled: 04/23/08 11:37
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**15800**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Arsenic [7440-38-2] ^	**6.0**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Barium [7440-39-3] ^	**107**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Boron [7440-42-8] ^	**59.6**		ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Calcium [7440-70-2] ^	**18500**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Chromium [7440-47-3] ^	**18.8**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Iron [7439-89-6] ^	**11600**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Lead [7439-92-1] ^	**5.6**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Magnesium [7439-95-4] ^	**4300**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Manganese [7439-96-5] ^	**13.3**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E05001	EPA 7470A	05/06/08 16:22	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Nickel [7440-02-0] ^	**8.4**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Potassium [7440-09-7] ^	**4990**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Sodium [7440-23-5] ^	**8550**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Vanadium [7440-62-2] ^	**24.6**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	
Zinc [7440-66-6] ^	**17.8**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:53	VLO	

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Description: SW-6
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-08
Sampled: 04/23/08 11:37
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	17		mg/L	1	0.48	5.0	8E05013	SM4500-Cl/E	05/05/08 14:10	PEV	
Fluoride [16984-48-8]	0.30		mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/06/08 22:31	AJ	
Nitrate/Nitrite as N [NA]	0.33	B	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:35	PEV	J-01a
Phosphorus [7723-14-0]	0.19		mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 12:57	PEV	
Sulfate as SO4 [14808-79-8]	18		mg/L	1	0.25	5.0	8E06016	EPA 300.0	05/06/08 22:31	AJ	
Total Alkalinity [NA]	26		mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:33	PEV	
Total Dissolved Solids [NA]	280		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	20		mg/L	1	1.0	1.0	8D28008	EPA 160.2	04/29/08 14:15	FLT	

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Description: SW-7
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-09
Sampled: 04/23/08 12:00
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**9870**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Barium [7440-39-3] ^	**79.1**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Boron [7440-42-8] ^	**50.6**		ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Calcium [7440-70-2] ^	**19500**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Chromium [7440-47-3] ^	**11.6**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Copper [7440-50-8] ^	**0.70**	J	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Iron [7439-89-6] ^	**6240**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Lead [7439-92-1] ^	**2.8**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Magnesium [7439-95-4] ^	**6630**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Manganese [7439-96-5] ^	**12.6**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8D28012	EPA 7470A	04/29/08 11:58	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Nickel [7440-02-0] ^	**6.4**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
ıtassium [7440-09-7] ^	**4060**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 13:25	VLO	
selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Sodium [7440-23-5] ^	**9520**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Vanadium [7440-62-2] ^	**14.1**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	
Zinc [7440-66-6] ^	**15.8**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:25	VLO	

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Description: SW-7
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-09
Sampled: 04/23/08 12:00
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	18		mg/L	1	0.48	5.0	8E05013	SM4500-Cl/E	05/05/08 14:11	PEV	
Fluoride [16984-48-8]	0.36		mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/07/08 00:00	AJ	
Nitrate/Nitrite as N [NA]	0.33	B	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:37	PEV	J-01a
Phosphorus [7723-14-0]	0.098	J	mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 12:59	PEV	
Sulfate as SO4 [14808-79-8]	32		mg/L	1	0.25	5.0	8D29006	EPA 300.0	04/30/08 08:17	AJ	
Total Alkalinity [NA]	25		mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:34	PEV	
Total Dissolved Solids [NA]	220		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	37		mg/L	1	1.0	1.0	8D28008	EPA 160.2	04/29/08 14:15	FLT	

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Description: SW-9
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-10
Sampled: 04/23/08 13:30
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**11000**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Arsenic [7440-38-2] ^	**4.5**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Barium [7440-39-3] ^	**74.1**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Boron [7440-42-8] ^	**34.5**	J	ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Calcium [7440-70-2] ^	**7240**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Chromium [7440-47-3] ^	**14.1**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Copper [7440-50-8] ^	**1.30**	J	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Iron [7439-89-6] ^	**7750**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Lead [7439-92-1] ^	**3.9**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Magnesium [7439-95-4] ^	**2330**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Manganese [7439-96-5] ^	**21.6**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E05001	EPA 7470A	05/06/08 16:25	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Nickel [7440-02-0] ^	**6.1**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
[illegible]tassium [7440-09-7] ^	**2050**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 14:16	VLO	
[illegible]enium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Sodium [7440-23-5] ^	**2700**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Vanadium [7440-62-2] ^	**18.0**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	
Zinc [7440-66-6] ^	**18.5**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 14:16	VLO	

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Description: SW-9
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-10
Sampled: 04/23/08 13:30
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	5.6		mg/L	1	0.48	5.0	8E05013	SM4500-Cl/E	05/05/08 14:11	PEV	
Fluoride [16984-48-8]	0.19	J	mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/07/08 00:30	AJ	
Nitrate/Nitrite as N [NA]	0.085	JB	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:40	PEV	J-01a
Phosphorus [7723-14-0]	0.18		mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 17:25	PEV	
Sulfate as SO4 [14808-79-8]	5.5		mg/L	1	0.25	5.0	8E06016	EPA 300.0	05/07/08 00:30	AJ	
Total Alkalinity [NA]	20		mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:35	PEV	
Total Dissolved Solids [NA]	130		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	83		mg/L	1	1.0	1.0	8D28008	EPA 160.2	04/29/08 14:15	FLT	

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Description: SW-2
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-11
Sampled: 04/22/08 12:40
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**2290**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Barium [7440-39-3] ^	**68.0**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Boron [7440-42-8] ^	**46.2**	J	ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Calcium [7440-70-2] ^	**32400**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Iron [7439-89-6] ^	**1440**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Magnesium [7439-95-4] ^	**8350**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Manganese [7439-96-5] ^	**15.6**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E05001	EPA 7470A	05/06/08 16:28	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Nickel [7440-02-0] ^	**3.4**	J	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Potassium [7440-09-7] ^	**5550**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Sodium [7440-23-5] ^	**23600**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Vanadium [7440-62-2] ^	**2.4**	J	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	
Zinc [7440-66-6] ^	**6.8**	J	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 14:23	VLO	

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Description: SW-2
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-11
Sampled: 04/22/08 12:40
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**54**		mg/L	1	0.48	5.0	8E05013	SM4500-Cl/E	05/05/08 14:12	PEV	
Fluoride [16984-48-8]	**0.31**		mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/07/08 01:00	AJ	
Nitrate/Nitrite as N [NA]	**0.10**	B	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:44	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 13:02	PEV	
Sulfate as SO4 [14808-79-8]	**61**		mg/L	1	0.25	5.0	8E06016	EPA 300.0	05/07/08 01:00	AJ	
Total Alkalinity [NA]	**30**		mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:36	PEV	
Total Dissolved Solids [NA]	**250**		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	**19**		mg/L	1	1.0	1.0	8D25003	EPA 160.2	04/28/08 14:10	FLT	

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Description: OFS
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-12
Sampled: 04/22/08 13:40
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**7540**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Barium [7440-39-3] ^	**100**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Boron [7440-42-8] ^	**33.4**	J	ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Calcium [7440-70-2] ^	**50400**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Cobalt [7440-48-4] ^	**56.6**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Iron [7439-89-6] ^	**2350**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Magnesium [7439-95-4] ^	**10400**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Manganese [7439-96-5] ^	**422**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8D28012	EPA 7470A	04/29/08 12:01	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Nickel [7440-02-0] ^	**46.9**		ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Potassium [7440-09-7] ^	**25500**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Sodium [7440-23-5] ^	**146000**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	
Zinc [7440-66-6] ^	**89.7**		ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 13:32	VLO	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**320**	D	mg/L	2	0.96	10	8E05013	SM4500-Cl/E	05/05/08 15:08	PEV	
Fluoride [16984-48-8]	**0.29**		mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/07/08 01:29	AJ	
Nitrate/Nitrite as N [NA]	**0.079**	JB	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:45	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 13:04	PEV	
Sulfate as SO4 [14808-79-8]	**150**	D	mg/L	2	0.50	10	8D29006	EPA 300.0	04/30/08 15:51	AJ	
Total Alkalinity [NA]	4.7	U	mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:37	PEV	
Total Dissolved Solids [NA]	**670**		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	**8.6**		mg/L	1	1.0	1.0	8D25003	EPA 160.2	04/28/08 14:10	FLT	

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Description: SW-1
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-13
Sampled: 04/22/08 11:53
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**899**		ug/L	1	50	100	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Barium [7440-39-3] ^	**62.7**		ug/L	1	0.20	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Boron [7440-42-8] ^	**53.4**		ug/L	1	4.0	50.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Calcium [7440-70-2] ^	**23800**	B	ug/L	1	7.0	100	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Copper [7440-50-8] ^	**0.90**	J	ug/L	1	0.60	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Iron [7439-89-6] ^	**789**		ug/L	1	20	50	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Magnesium [7439-95-4] ^	**4560**		ug/L	1	20	100	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Manganese [7439-96-5] ^	**11.8**		ug/L	1	1.4	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E05001	EPA 7470A	05/06/08 16:32	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Nickel [7440-02-0] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
tassium [7440-09-7] ^	**6350**	B	ug/L	1	50	500	8D28001	EPA 6010B	04/29/08 14:30	VLO	
elenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Sodium [7440-23-5] ^	**21500**		ug/L	1	200	500	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Vanadium [7440-62-2] ^	**1.1**	J	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	
Zinc [7440-66-6] ^	**8.9**	J	ug/L	1	1.0	10.0	8D28001	EPA 6010B	04/29/08 14:30	VLO	

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Description: SW-1
Matrix: Water
Project: Fly Ash

Lab Sample ID: C803870-13
Sampled: 04/22/08 11:53
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**52**		mg/L	1	0.48	5.0	8E05013	SM4500-Cl/E	05/05/08 14:13	PEV	
Fluoride [16984-48-8]	**0.16**	J	mg/L	1	0.04	0.20	8E06016	EPA 300.0	05/07/08 01:59	AJ	
Nitrate/Nitrite as N [NA]	**0.38**	B	mg/L	1	0.022	0.10	8E04004	EPA 353.2	05/04/08 15:46	PEV	QB-01
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8E05015	EPA 365.4	05/07/08 13:06	PEV	
Sulfate as SO4 [14808-79-8]	**34**		mg/L	1	0.25	5.0	8E06016	EPA 300.0	05/07/08 01:59	AJ	
Total Alkalinity [NA]	**19**		mg/L	1	4.7	15	8E05011	EPA 310.2	05/05/08 14:38	PEV	
Total Dissolved Solids [NA]	**210**		mg/L	1	10	10	8D25009	EPA 160.1	04/28/08 12:55	JOC	
Total Suspended Solids [NA]	**11**		mg/L	1	1.0	1.0	8D25003	EPA 160.2	04/28/08 14:10	FLT	

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Description: HA-1
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C803870-14
Sampled: 04/23/08 14:10
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870
% Solids: 76.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	11200		mg/kg dry	1	2.7	6.5	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Antimony [7440-36-0] ^	0.95		mg/kg dry	1	0.14	0.65	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Arsenic [7440-38-2] ^	54.9		mg/kg dry	1	0.08	0.65	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Barium [7440-39-3] ^	478		mg/kg dry	1	0.065	0.650	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Beryllium [7440-41-7] ^	3.19		mg/kg dry	1	0.016	0.065	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Boron [7440-42-8] ^	36.8		mg/kg dry	1	0.33	3.25	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Cadmium [7440-43-9] ^	0.012	U	mg/kg dry	1	0.012	0.065	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Calcium [7440-70-2] ^	12200		mg/kg dry	1	7.28	32.5	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Chromium [7440-47-3] ^	18.7		mg/kg dry	1	0.07	0.65	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Cobalt [7440-48-4] ^	10.1		mg/kg dry	1	0.07	0.65	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Copper [7440-50-8] ^	35.3		mg/kg dry	1	0.247	0.650	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Iron [7439-89-6] ^	10500	B	mg/kg dry	1	0.6	3.3	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Lead [7439-92-1] ^	14.1	B	mg/kg dry	1	0.16	0.65	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Magnesium [7439-95-4] ^	1200		mg/kg dry	1	0.8	6.5	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Manganese [7439-96-5] ^	63.9	B	mg/kg dry	1	0.064	0.650	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Mercury [7439-97-6] ^	0.27		mg/kg dry	1	0.007	0.01	8E02002	EPA 7471A	05/06/08 08:48	MPL	
Molybdenum [7439-98-7] ^	0.66		mg/kg dry	1	0.08	0.65	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Nickel [7440-02-0] ^	19.0		mg/kg dry	1	0.47	0.65	8E02001	EPA 6010B	05/05/08 15:50	VLO	
otassium [7440-09-7] ^	2080		mg/kg dry	1	5.2	32.5	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Selenium [7782-49-2] ^	8.86		mg/kg dry	1	0.13	0.65	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Silver [7440-22-4] ^	0.07	U	mg/kg dry	1	0.07	0.65	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Sodium [7440-23-5] ^	1330		mg/kg dry	1	8	33	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Thallium [7440-28-0] ^	0.26	U	mg/kg dry	1	0.26	0.65	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Vanadium [7440-62-2] ^	55.1		mg/kg dry	1	0.065	0.650	8E02001	EPA 6010B	05/05/08 15:50	VLO	
Zinc [7440-66-6] ^	24.1	B	mg/kg dry	1	0.065	0.650	8E02001	EPA 6010B	05/05/08 15:50	VLO	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	1700	D	mg/kg dry wt. dry	2	13	130	8E07032	EPA 9056	05/08/08 09:13	AJ	Q
Nitrate/Nitrite as N [NA]	0.91	J	mg/kg dry	1	0.22	1.3	8E08006	EPA 353.2	05/08/08 12:37	PEV	
Sulfate as SO4 [14808-79-8]	410		mg/kg dry wt. dry	1	6.5	65	8E07032	EPA 9056	05/08/08 06:15	AJ	Q
Total Alkalinity [NA]	2000	B	mg/kg dry	1	61	200	8E07029	EPA 310.2	05/07/08 18:10	PEV	QB-01

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Description: HA-1
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C803870-14
Sampled: 04/23/08 14:10
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870
% Solids: 76.9

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**1.95**		mg/L	1	0.220	1.00	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Antimony [7440-36-0] ^	**0.0343**	J	mg/L	1	0.0180	0.100	8D29019	EPA 6010B	05/07/08 17:30	ACV	
Arsenic [7440-38-2] ^	**0.0667**	B	mg/L	1	0.0180	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	J-01
Barium [7440-39-3] ^	**0.808**	B	mg/L	1	0.0014	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	QB-01
Beryllium [7440-41-7] ^	**0.0037**	J	mg/L	1	0.0009	0.0050	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Boron [7440-42-8] ^	**1.23**	B	mg/L	1	0.0500	0.250	8D29019	EPA 6010B	05/02/08 17:01	ACV	QB-01
Cadmium [7440-43-9] ^	**0.0015**	J	mg/L	1	0.0010	0.0050	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Calcium [7440-70-2] ^	**446**	B	mg/L	1	0.130	2.50	8D29019	EPA 6010B	05/02/08 17:01	ACV	QB-01
Chromium [7440-47-3] ^	**0.0316**	J	mg/L	1	0.0060	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Cobalt [7440-48-4] ^	**0.0269**	J	mg/L	1	0.0028	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Copper [7440-50-8] ^	0.0145	U	mg/L	1	0.0145	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Iron [7439-89-6] ^	**0.0648**	J	mg/L	1	0.0320	0.250	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Lead [7439-92-1] ^	**0.0209**	J	mg/L	1	0.0110	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Magnesium [7439-95-4] ^	**11.9**	B	mg/L	1	0.310	2.50	8D29019	EPA 6010B	05/02/08 17:01	ACV	QB-01
Manganese [7439-96-5] ^	**0.248**		mg/L	1	0.0009	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Mercury [7439-97-6] ^	0.00063	U	mg/L	1	0.00063	0.00200	8D29016	EPA 7470A	04/30/08 11:07	RBN	
Molybdenum [7439-98-7] ^	**0.156**		mg/L	1	0.0040	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Nickel [7440-02-0] ^	**0.0560**	JB	mg/L	1	0.0019	0.250	8D29019	EPA 6010B	05/02/08 17:01	ACV	QB-01
tassium [7440-09-7] ^	**17.4**	B	mg/L	1	0.155	2.50	8D29019	EPA 6010B	05/05/08 21:06	ACV	QB-01
elenium [7782-49-2] ^	**0.152**	B	mg/L	1	0.0175	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	J-01
Silver [7440-22-4] ^	0.0020	U	mg/L	1	0.0020	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Sodium [7440-23-5] ^	**1360**	B	mg/L	1	0.0490	2.50	8D29019	EPA 6010B	05/05/08 21:06	ACV	J-01
Thallium [7440-28-0] ^	0.0170	U	mg/L	1	0.0170	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Vanadium [7440-62-2] ^	**0.0526**		mg/L	1	0.0022	0.0500	8D29019	EPA 6010B	05/02/08 17:01	ACV	
Zinc [7440-66-6] ^	**0.0489**	JB	mg/L	1	0.0080	0.100	8D29019	EPA 6010B	05/02/08 17:01	ACV	J-01

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Description: HA-1
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C803870-14
Sampled: 04/23/08 14:10
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870
% Solids: 76.9

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**14.2**		mg/L	1	0.0440	0.200	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Antimony [7440-36-0] ^	**0.0143**	J	mg/L	1	0.0036	0.0200	8D29019	EPA 6010B	05/07/08 17:36	ACV	
Arsenic [7440-38-2] ^	**0.0613**		mg/L	1	0.0036	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Barium [7440-39-3] ^	**0.0613**		mg/L	1	0.0003	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Beryllium [7440-41-7] ^	**0.0002**	J	mg/L	1	0.0002	0.0010	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Boron [7440-42-8] ^	**0.214**	B	mg/L	1	0.0100	0.0500	8D29019	EPA 6010B	05/02/08 17:06	ACV	QB-01
Cadmium [7440-43-9] ^	**0.0004**	J	mg/L	1	0.0002	0.0010	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Calcium [7440-70-2] ^	**47.4**	B	mg/L	1	0.0070	0.100	8D29019	EPA 6010B	05/02/08 17:06	ACV	QB-01
Chromium [7440-47-3] ^	**0.0223**		mg/L	1	0.0012	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Cobalt [7440-48-4] ^	0.0020	U	mg/L	1	0.0020	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Copper [7440-50-8] ^	0.0029	U	mg/L	1	0.0029	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Iron [7439-89-6] ^	0.0064	U	mg/L	1	0.0064	0.0500	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Lead [7439-92-1] ^	0.0022	U	mg/L	1	0.0022	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Magnesium [7439-95-4] ^	**0.119**	JB	mg/L	1	0.0620	0.500	8D29019	EPA 6010B	05/02/08 17:06	ACV	J-01
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Mercury [7439-97-6] ^	0.000063	U	mg/L	1	0.000063	0.00020	8D29016	EPA 7470A	04/30/08 11:09	RBN	
Molybdenum [7439-98-7] ^	**0.129**		mg/L	1	0.0008	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Nickel [7440-02-0] ^	0.0004	U	mg/L	1	0.0004	0.0500	8D29019	EPA 6010B	05/02/08 17:06	ACV	
tassium [7440-09-7] ^	**7.37**		mg/L	1	0.031	0.500	8D29019	EPA 6010B	05/05/08 21:12	ACV	
elenium [7782-49-2] ^	**0.0739**		mg/L	1	0.0035	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Sodium [7440-23-5] ^	**36.0**	B	mg/L	1	0.0098	0.500	8D29019	EPA 6010B	05/05/08 21:12	ACV	J-01
Thallium [7440-28-0] ^	0.0034	U	mg/L	1	0.0034	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Vanadium [7440-62-2] ^	**0.0862**		mg/L	1	0.0004	0.0100	8D29019	EPA 6010B	05/02/08 17:06	ACV	
Zinc [7440-66-6] ^	0.0016	U	mg/L	1	0.0016	0.0200	8D29019	EPA 6010B	05/02/08 17:06	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: HA-2
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C803870-15
Sampled: 04/23/08 14:30
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870
% Solids: 71.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	12900		mg/kg dry	1	2.9	7.0	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Antimony [7440-36-0] ^	1.06		mg/kg dry	1	0.15	0.70	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Arsenic [7440-38-2] ^	39.8		mg/kg dry	1	0.09	0.70	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Barium [7440-39-3] ^	346		mg/kg dry	1	0.070	0.699	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Beryllium [7440-41-7] ^	2.67		mg/kg dry	1	0.017	0.070	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Boron [7440-42-8] ^	55.7		mg/kg dry	1	0.35	3.50	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Cadmium [7440-43-9] ^	0.013	U	mg/kg dry	1	0.013	0.070	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Calcium [7440-70-2] ^	17100		mg/kg dry	1	7.83	35.0	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Chromium [7440-47-3] ^	21.2		mg/kg dry	1	0.08	0.70	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Cobalt [7440-48-4] ^	10.3		mg/kg dry	1	0.07	0.70	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Copper [7440-50-8] ^	36.7		mg/kg dry	1	0.266	0.699	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Iron [7439-89-6] ^	10100	B	mg/kg dry	1	0.7	3.5	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Lead [7439-92-1] ^	15.3	B	mg/kg dry	1	0.17	0.70	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Magnesium [7439-95-4] ^	1680		mg/kg dry	1	0.9	7.0	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Manganese [7439-96-5] ^	80.9	B	mg/kg dry	1	0.069	0.699	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Mercury [7439-97-6] ^	0.34		mg/kg dry	1	0.007	0.01	8E02002	EPA 7471A	05/06/08 09:01	MPL	
Molybdenum [7439-98-7] ^	2.49		mg/kg dry	1	0.09	0.70	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Nickel [7440-02-0] ^	20.7		mg/kg dry	1	0.50	0.70	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Potassium [7440-09-7] ^	2120		mg/kg dry	1	5.6	35.0	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Selenium [7782-49-2] ^	9.49		mg/kg dry	1	0.14	0.70	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Silver [7440-22-4] ^	0.07	U	mg/kg dry	1	0.07	0.70	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Sodium [7440-23-5] ^	2310		mg/kg dry	1	8	35	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Thallium [7440-28-0] ^	0.28	U	mg/kg dry	1	0.28	0.70	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Vanadium [7440-62-2] ^	61.9		mg/kg dry	1	0.070	0.699	8E02001	EPA 6010B	05/05/08 16:14	VLO	
Zinc [7440-66-6] ^	29.6	B	mg/kg dry	1	0.070	0.699	8E02001	EPA 6010B	05/05/08 16:14	VLO	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	3600	D	mg/kg dry wt. dry	4	28	280	8E07032	EPA 9056	05/08/08 09:43	AJ	Q
Nitrate/Nitrite as N [NA]	0.78	J	mg/kg dry	1	0.24	1.4	8E08006	EPA 353.2	05/08/08 12:43	PEV	
Sulfate as SO4 [14808-79-8]	540		mg/kg dry wt. dry	1	7.0	70	8E07032	EPA 9056	05/08/08 07:44	AJ	Q
Total Alkalinity [NA]	2300	B	mg/kg dry	1	66	210	8E07029	EPA 310.2	05/07/08 18:11	PEV	QB-01

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Description: HA-2
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C803870-15
Sampled: 04/23/08 14:30
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870
% Solids: 71.5

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**0.381**	J	mg/L	1	0.220	1.00	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Antimony [7440-36-0] ^	**0.0324**	J	mg/L	1	0.0180	0.100	8D29019	EPA 6010B	05/07/08 17:59	ACV	
Arsenic [7440-38-2] ^	**0.0305**	JB	mg/L	1	0.0180	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	J-01
Barium [7440-39-3] ^	**0.918**	B	mg/L	1	0.0014	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	QB-01
Beryllium [7440-41-7] ^	**0.0010**	J	mg/L	1	0.0009	0.0050	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Boron [7440-42-8] ^	**2.02**	B	mg/L	1	0.0500	0.250	8D29019	EPA 6010B	05/02/08 17:26	ACV	QB-01
Cadmium [7440-43-9] ^	**0.0012**	J	mg/L	1	0.0010	0.0050	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Calcium [7440-70-2] ^	**578**	B	mg/L	1	0.130	2.50	8D29019	EPA 6010B	05/02/08 17:26	ACV	QB-01
Chromium [7440-47-3] ^	**0.0300**	J	mg/L	1	0.0060	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Cobalt [7440-48-4] ^	**0.0226**	J	mg/L	1	0.0028	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Copper [7440-50-8] ^	0.0145	U	mg/L	1	0.0145	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Iron [7439-89-6] ^	0.0320	U	mg/L	1	0.0320	0.250	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Lead [7439-92-1] ^	**0.0170**	J	mg/L	1	0.0110	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Magnesium [7439-95-4] ^	**21.2**	B	mg/L	1	0.310	2.50	8D29019	EPA 6010B	05/07/08 17:59	ACV	QB-01
Manganese [7439-96-5] ^	**0.299**		mg/L	1	0.0009	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Mercury [7439-97-6] ^	0.00063	U	mg/L	1	0.00063	0.00200	8D29016	EPA 7470A	04/30/08 11:10	RBN	
Molybdenum [7439-98-7] ^	**0.258**		mg/L	1	0.0040	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Nickel [7440-02-0] ^	**0.0503**	JB	mg/L	1	0.0019	0.250	8D29019	EPA 6010B	05/02/08 17:26	ACV	QB-01
tassium [7440-09-7] ^	**24.4**	B	mg/L	1	0.155	2.50	8D29019	EPA 6010B	05/05/08 21:18	ACV	QB-01
selenium [7782-49-2] ^	**0.179**	B	mg/L	1	0.0175	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	J-01
Silver [7440-22-4] ^	0.0020	U	mg/L	1	0.0020	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Sodium [7440-23-5] ^	**1400**	B	mg/L	1	0.0490	2.50	8D29019	EPA 6010B	05/05/08 21:18	ACV	J-01
Thallium [7440-28-0] ^	0.0170	U	mg/L	1	0.0170	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Vanadium [7440-62-2] ^	**0.0716**		mg/L	1	0.0022	0.0500	8D29019	EPA 6010B	05/02/08 17:26	ACV	
Zinc [7440-66-6] ^	**0.0336**	JB	mg/L	1	0.0080	0.100	8D29019	EPA 6010B	05/02/08 17:26	ACV	J-01

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Description: HA-2
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C803870-15
Sampled: 04/23/08 14:30
Sampled By: Mike Iwashchenko

Received: 04/24/08 10:30
Work Order: C803870
% Solids: 71.5

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**19.7**		mg/L	1	0.0440	0.200	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Antimony [7440-36-0] ^	**0.0131**	J	mg/L	1	0.0036	0.0200	8D29019	EPA 6010B	05/07/08 18:04	ACV	
Arsenic [7440-38-2] ^	**0.0178**		mg/L	1	0.0036	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Barium [7440-39-3] ^	**0.0821**		mg/L	1	0.0003	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Boron [7440-42-8] ^	**0.310**	B	mg/L	1	0.0100	0.0500	8D29019	EPA 6010B	05/02/08 17:31	ACV	QB-01
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Calcium [7440-70-2] ^	**65.0**	B	mg/L	1	0.0070	0.100	8D29019	EPA 6010B	05/02/08 17:31	ACV	QB-01
Chromium [7440-47-3] ^	**0.0186**		mg/L	1	0.0012	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Cobalt [7440-48-4] ^	0.0020	U	mg/L	1	0.0020	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Copper [7440-50-8] ^	0.0029	U	mg/L	1	0.0029	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Iron [7439-89-6] ^	0.0064	U	mg/L	1	0.0064	0.0500	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Lead [7439-92-1] ^	0.0022	U	mg/L	1	0.0022	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Magnesium [7439-95-4] ^	**0.119**	JB	mg/L	1	0.0620	0.500	8D29019	EPA 6010B	05/07/08 18:04	ACV	J-01
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Mercury [7439-97-6] ^	0.000063	U	mg/L	1	0.000063	0.00020	8D29016	EPA 7470A	04/30/08 11:15	RBN	
Molybdenum [7439-98-7] ^	**0.135**		mg/L	1	0.0008	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Nickel [7440-02-0] ^	0.0004	U	mg/L	1	0.0004	0.0500	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Potassium [7440-09-7] ^	**16.1**		mg/L	1	0.031	0.500	8D29019	EPA 6010B	05/05/08 21:24	ACV	
Selenium [7782-49-2] ^	**0.0550**		mg/L	1	0.0035	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Sodium [7440-23-5] ^	**81.9**	B	mg/L	1	0.0098	0.500	8D29019	EPA 6010B	05/05/08 21:24	ACV	J-01
Thallium [7440-28-0] ^	**0.0036**	J	mg/L	1	0.0034	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Vanadium [7440-62-2] ^	**0.0495**		mg/L	1	0.0004	0.0100	8D29019	EPA 6010B	05/02/08 17:31	ACV	
Zinc [7440-66-6] ^	0.0016	U	mg/L	1	0.0016	0.0200	8D29019	EPA 6010B	05/02/08 17:31	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8D28001 - EPA 3005A

Blank (8D28001-BLK1) Prepared: 04/28/2008 07:09 Analyzed: 04/29/2008 11:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	50	U	100	ug/L							
Antimony	2.0	U	10.0	ug/L							
Arsenic	2.0	U	10.0	ug/L							
Barium	0.20	U	10.0	ug/L							
Beryllium	0.70	U	1.00	ug/L							
Boron	4.0	U	50.0	ug/L							
Cadmium	0.50	U	1.00	ug/L							
Calcium	**9.6**	**J**	100	ug/L							
Chromium	2.0	U	10.0	ug/L							
Cobalt	2.0	U	10.0	ug/L							
Copper	0.60	U	10.0	ug/L							
Iron	20	U	50	ug/L							
Lead	2.0	U	10.0	ug/L							
Magnesium	20	U	100	ug/L							
Manganese	1.4	U	10.0	ug/L							
Molybdenum	2.0	U	10.0	ug/L							
Nickel	2.0	U	10.0	ug/L							
Potassium	**119**	**J**	500	ug/L							
Selenium	2.0	U	10.0	ug/L							
Silver	2.0	U	10.0	ug/L							
Sodium	200	U	500	ug/L							
Thallium	4.0	U	10.0	ug/L							
Vanadium	1.0	U	10.0	ug/L							
Zinc	1.0	U	10.0	ug/L							

LCS (8D28001-BS1) Prepared: 04/28/2008 07:09 Analyzed: 04/29/2008 11:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5040		100	ug/L	5000		101	77-130			
Antimony	249		10.0	ug/L	250		100	82-119			
Arsenic	513		10.0	ug/L	500		103	82-117			
Barium	523		10.0	ug/L	500		105	72-125			
Beryllium	262		1.00	ug/L	250		105	75-121			
Boron	522		50.0	ug/L	500		104	75-122			
Cadmium	261		1.00	ug/L	250		104	72-120			
Calcium	5080	B	100	ug/L	5000		102	81-111			
Chromium	509		10.0	ug/L	500		102	78-119			
Cobalt	508		10.0	ug/L	500		102	76-117			
Copper	259		10.0	ug/L	250		104	80-117			
Iron	5090		50	ug/L	5000		102	84-133			
Lead	513		10.0	ug/L	500		103	72-121			
Magnesium	5410		100	ug/L	5000		108	81-117			
Manganese	255		10.0	ug/L	250		102	76-123			
Molybdenum	239		10.0	ug/L	250		96	83-112			
Nickel	513		10.0	ug/L	500		103	78-116			
Potassium	24000	B	500	ug/L	25000		96	84-112			
Selenium	522		10.0	ug/L	500		104	82-127			
Silver	49.5		10.0	ug/L	50.0		99	80-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8D28001 - EPA 3005A

LCS (8D28001-BS1) Continued Prepared: 04/28/2008 07:09 Analyzed: 04/29/2008 11:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	23400		500	ug/L	25000		94	81-120			
Thallium	261		10.0	ug/L	250		104	79-118			
Vanadium	246		10.0	ug/L	250		99	78-117			
Zinc	510		10.0	ug/L	500		102	80-120			

Matrix Spike (8D28001-MS1) Prepared: 04/28/2008 07:09 Analyzed: 04/29/2008 11:44

Source: C802215-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5130		100	ug/L	5000	108	100	78-125			
Antimony	253		10.0	ug/L	250	2.0 U	101	38-138			
Arsenic	509		10.0	ug/L	500	2.0 U	102	64-126			
Barium	538		10.0	ug/L	500	16.6	104	74-119			
Beryllium	260		1.00	ug/L	250	0.70 U	104	70-131			
Boron	520		50.0	ug/L	500	5.1	103	77-114			
Cadmium	260		1.00	ug/L	250	0.50 U	104	68-121			
Calcium	5130	B	100	ug/L	5000	96.4	101	63-131			
Chromium	505		10.0	ug/L	500	2.0 U	101	73-120			
Cobalt	514		10.0	ug/L	500	7.9	101	76-120			
Copper	261		10.0	ug/L	250	3.50	103	75-123			
Iron	5300		50	ug/L	5000	252	101	48-144			
Lead	509		10.0	ug/L	500	2.0 U	102	68-126			
Magnesium	5700		100	ug/L	5000	331	107	59-129			
Manganese	588		10.0	ug/L	250	304	113	55-146			
Molybdenum	240		10.0	ug/L	250	2.0 U	96	72-118			
Nickel	512		10.0	ug/L	500	3.2	102	64-126			
Potassium	25100	B	500	ug/L	25000	406	99	53-121			
Selenium	517		10.0	ug/L	500	2.0 U	103	65-129			
Silver	49.9		10.0	ug/L	50.0	2.0 U	100	69-121			
Sodium	30800		500	ug/L	25000	6290	98	29-171			
Thallium	257		10.0	ug/L	250	4.0 U	103	67-135			
Vanadium	242		10.0	ug/L	250	1.0 U	97	71-130			
Zinc	508		10.0	ug/L	500	3.1	101	63-131			

Matrix Spike Dup (8D28001-MSD1) Prepared: 04/28/2008 07:09 Analyzed: 04/29/2008 11:51

Source: C802215-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5180		100	ug/L	5000	108	101	78-125	1	22	
Antimony	254		10.0	ug/L	250	2.0 U	102	38-138	0.4	30	
Arsenic	510		10.0	ug/L	500	2.0 U	102	64-126	0.1	12	
Barium	538		10.0	ug/L	500	16.6	104	74-119	0.04	11	
Beryllium	260		1.00	ug/L	250	0.70 U	104	70-131	0.08	21	
Boron	518		50.0	ug/L	500	5.1	102	77-114	0.6	11	
Cadmium	260		1.00	ug/L	250	0.50 U	104	68-121	0.08	12	
Calcium	5160	B	100	ug/L	5000	96.4	101	63-131	0.5	22	
Chromium	507		10.0	ug/L	500	2.0 U	101	73-120	0.3	10	
Cobalt	518		10.0	ug/L	500	7.9	102	76-120	0.8	17	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8D28001 - EPA 3005A

Matrix Spike Dup (8D28001-MSD1) Continued Prepared: 04/28/2008 07:09 Analyzed: 04/29/2008 11:51

Source: C802215-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	258		10.0	ug/L	250	3.50	102	75-123	1	16	
Iron	5310		50	ug/L	5000	252	101	48-144	0.3	23	
Lead	510		10.0	ug/L	500	2.0 U	102	68-126	0.06	19	
Magnesium	5720		100	ug/L	5000	331	108	59-129	0.5	22	
Manganese	546		10.0	ug/L	250	304	97	55-146	7	19	
Molybdenum	242		10.0	ug/L	250	2.0 U	97	72-118	0.7	12	
Nickel	512		10.0	ug/L	500	3.2	102	64-126	0.06	12	
Potassium	25900	B	500	ug/L	25000	406	102	53-121	3	20	
Selenium	520		10.0	ug/L	500	2.0 U	104	65-129	0.5	10	
Silver	50.0		10.0	ug/L	50.0	2.0 U	100	69-121	0.2	12	
Sodium	31700		500	ug/L	25000	6290	102	29-171	3	21	
Thallium	260		10.0	ug/L	250	4.0 U	104	67-135	1	13	
Vanadium	243		10.0	ug/L	250	1.0 U	97	71-130	0.3	16	
Zinc	511		10.0	ug/L	500	3.1	102	63-131	0.5	24	

Batch 8D28012 - EPA 7470A

Blank (8D28012-BLK1) Prepared: 04/28/2008 10:33 Analyzed: 04/29/2008 11:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8D28012-BS1) Prepared: 04/28/2008 10:33 Analyzed: 04/29/2008 11:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.84		0.20	ug/L	5.00		97	87-123			

Matrix Spike (8D28012-MS1) Prepared: 04/28/2008 10:33 Analyzed: 04/29/2008 11:11

Source: C802215-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.57		0.20	ug/L	5.00	0.20	87	63-132			

Matrix Spike Dup (8D28012-MSD1) Prepared: 04/28/2008 10:33 Analyzed: 04/29/2008 11:14

Source: C802215-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.53		0.20	ug/L	5.00	0.20	87	63-132	0.8	10	

Post Spike (8D28012-PS1) Prepared: 04/28/2008 10:33 Analyzed: 04/29/2008 11:18

Source: C802215-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.50		0.20	ug/L	5.00	0.20	86	0-200			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E02001 - EPA 3050B

Blank (8E02001-BLK1) Prepared: 05/02/2008 07:08 Analyzed: 05/05/2008 15:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	2.1	U	5.0	mg/kg wet							
Manganese	**0.120**	**J**	0.500	mg/kg wet							
Antimony	0.11	U	0.50	mg/kg wet							
Arsenic	0.06	U	0.50	mg/kg wet							
Barium	0.050	U	0.500	mg/kg wet							
Beryllium	0.012	U	0.050	mg/kg wet							
Boron	0.25	U	2.50	mg/kg wet							
Cadmium	0.010	U	0.050	mg/kg wet							
Calcium	5.60	U	25.0	mg/kg wet							
Chromium	0.05	U	0.50	mg/kg wet							
Cobalt	0.05	U	0.50	mg/kg wet							
Copper	0.190	U	0.500	mg/kg wet							
Iron	**1.0**	**J**	2.5	mg/kg wet							
Lead	**0.12**	**J**	0.50	mg/kg wet							
Magnesium	0.6	U	5.0	mg/kg wet							
Molybdenum	0.06	U	0.50	mg/kg wet							
Nickel	0.36	U	0.50	mg/kg wet							
Potassium	4.0	U	25.0	mg/kg wet							
elenium	0.10	U	0.50	mg/kg wet							
Silver	0.05	U	0.50	mg/kg wet							
Sodium	6	U	25	mg/kg wet							
Thallium	0.20	U	0.50	mg/kg wet							
Vanadium	0.050	U	0.500	mg/kg wet							
Zinc	**0.195**	**J**	0.500	mg/kg wet							

LCS (8E02001-BS1) Prepared: 05/02/2008 07:08 Analyzed: 05/05/2008 15:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	257		5.0	mg/kg wet	250		103	80-120			
Manganese	13.2	B	0.500	mg/kg wet	12.5		106	85-115			
Antimony	12.9		0.50	mg/kg wet	12.5		104	85-116			
Arsenic	25.7		0.50	mg/kg wet	25.0		103	77-125			
Barium	27.1		0.500	mg/kg wet	25.0		108	76-124			
Beryllium	13.2		0.050	mg/kg wet	12.5		106	83-121			
Boron	25.3		2.50	mg/kg wet	25.0		101	85-115			
Cadmium	13.4		0.050	mg/kg wet	12.5		107	76-123			
Calcium	268		25.0	mg/kg wet	250		107	89-115			
Chromium	26.5		0.50	mg/kg wet	25.0		106	81-121			
Cobalt	26.2		0.50	mg/kg wet	25.0		105	86-115			
Copper	13.3		0.500	mg/kg wet	12.5		107	81-119			
Iron	265	B	2.5	mg/kg wet	250		106	79-111			
Lead	26.2	B	0.50	mg/kg wet	25.0		105	79-127			
Magnesium	260		5.0	mg/kg wet	250		104	86-115			
Molybdenum	12.9		0.50	mg/kg wet	12.5		103	79-121			
Nickel	26.5		0.50	mg/kg wet	25.0		106	80-118			
otassium	1220		25.0	mg/kg wet	1250		98	80-120			
Selenium	25.5		0.50	mg/kg wet	25.0		102	71-118			
Silver	2.44		0.50	mg/kg wet	2.50		98	78-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E02001 - EPA 3050B

LCS (8E02001-BS1) Continued Prepared: 05/02/2008 07:08 Analyzed: 05/05/2008 15:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	1230		25	mg/kg wet	1250		99	86-108			
Thallium	13.0		0.50	mg/kg wet	12.5		104	86-111			
Vanadium	12.8		0.500	mg/kg wet	12.5		102	89-112			
Zinc	26.5	B	0.500	mg/kg wet	25.0		106	76-128			

Matrix Spike (8E02001-MS1) Prepared: 05/02/2008 07:08 Analyzed: 05/05/2008 15:57

Source: C803870-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	12400		6.5	mg/kg dry	325	11200	370	35-172			QM-07
Manganese	77.3	B	0.650	mg/kg dry	16.3	63.9	82	75-125			
Antimony	5.23		0.65	mg/kg dry	16.3	0.95	26	52-147			QM-07
Arsenic	79.3		0.65	mg/kg dry	32.5	54.9	75	53-153			
Barium	491		0.650	mg/kg dry	32.5	478	40	46-120			QM-07
Beryllium	16.0		0.065	mg/kg dry	16.3	3.19	79	41-133			
Boron	60.1		3.25	mg/kg dry	32.5	36.8	72	97-103			QM-07
Cadmium	10.3		0.065	mg/kg dry	16.3	0.012 U	64	49-115			
Calcium	12000		32.5	mg/kg dry	325	12200	NR	71-121			QM-07
Chromium	43.1		0.65	mg/kg dry	32.5	18.7	75	19-142			
Cobalt	34.6		0.65	mg/kg dry	32.5	10.1	75	30-143			
Copper	49.4		0.650	mg/kg dry	16.3	35.3	87	35-137			
Iron	11100	B	3.3	mg/kg dry	325	10500	174	48-139			QM-07
Lead	38.5	B	0.65	mg/kg dry	32.5	14.1	75	48-121			
Magnesium	1480		6.5	mg/kg dry	325	1200	86	36-149			
Molybdenum	12.2		0.65	mg/kg dry	16.3	0.66	71	59-126			
Nickel	44.0		0.65	mg/kg dry	32.5	19.0	77	43-121			
Potassium	3620		32.5	mg/kg dry	1630	2080	95	70-135			
Selenium	32.4		0.65	mg/kg dry	32.5	8.86	73	43-126			
Silver	0.17	J	0.65	mg/kg dry	3.25	0.07 U	5	36-133			QM-07
Sodium	2650		33	mg/kg dry	1630	1330	81	45-159			
Thallium	8.97		0.65	mg/kg dry	16.3	0.26 U	55	58-118			QM-07
Vanadium	68.4		0.650	mg/kg dry	16.3	55.1	82	31-142			
Zinc	48.9	B	0.650	mg/kg dry	32.5	24.1	76	37-138			

Matrix Spike Dup (8E02001-MSD1) Prepared: 05/02/2008 07:08 Analyzed: 05/05/2008 16:05

Source: C803870-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	12600		6.5	mg/kg dry	325	11200	422	35-172	1	32	QM-07
Manganese	78.9	B	0.650	mg/kg dry	16.3	63.9	92	75-125	2	20	
Antimony	4.84		0.65	mg/kg dry	16.3	0.95	24	52-147	8	28	QM-07
Arsenic	78.2		0.65	mg/kg dry	32.5	54.9	72	53-153	1	22	
Barium	490		0.650	mg/kg dry	32.5	478	39	46-120	0.07	16	QM-07
Beryllium	15.8		0.065	mg/kg dry	16.3	3.19	78	41-133	0.7	26	
Boron	59.6		3.25	mg/kg dry	32.5	36.8	70	97-103	0.8	23	QM-07
Cadmium	10.3		0.065	mg/kg dry	16.3	0.012 U	63	49-115	0.7	24	
Calcium	12000		32.5	mg/kg dry	325	12200	NR	71-121	0.4	19	QM-07
Chromium	43.1		0.65	mg/kg dry	32.5	18.7	75	19-142	0	24	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E02001 - EPA 3050B

Matrix Spike Dup (8E02001-MSD1) Continued Prepared: 05/02/2008 07:08 Analyzed: 05/05/2008 16:05

Source: C803870-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	34.6		0.65	mg/kg dry	32.5	10.1	75	30-143	0.04	17	
Copper	49.2		0.650	mg/kg dry	16.3	35.3	86	35-137	0.4	12	
Iron	11100	B	3.3	mg/kg dry	325	10500	164	48-139	0.3	38	QM-07
Lead	38.6	B	0.65	mg/kg dry	32.5	14.1	75	48-121	0.3	26	
Magnesium	1480		6.5	mg/kg dry	325	1200	88	36-149	0.5	23	
Molybdenum	11.9		0.65	mg/kg dry	16.3	0.66	69	59-126	2	21	
Nickel	44.3		0.65	mg/kg dry	32.5	19.0	78	43-121	0.8	14	
Potassium	3710		32.5	mg/kg dry	1630	2080	100	70-135	2	22	
Selenium	31.6		0.65	mg/kg dry	32.5	8.86	70	43-126	2	14	
Silver	0.19	J	0.65	mg/kg dry	3.25	0.07 U	6	36-133	11	20	QM-07
Sodium	2650		33	mg/kg dry	1630	1330	81	45-159	0.2	21	
Thallium	8.93		0.65	mg/kg dry	16.3	0.26 U	55	58-118	0.5	14	QM-07
Vanadium	69.1		0.650	mg/kg dry	16.3	55.1	86	31-142	1	16	
Zinc	50.0	B	0.650	mg/kg dry	32.5	24.1	79	37-138	2	19	

Batch 8E02002 - EPA 7470A

Blank (8E02002-BLK1) Prepared: 05/02/2008 07:13 Analyzed: 05/06/2008 08:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.005	U	0.01	mg/kg wet							

LCS (8E02002-BS1) Prepared: 05/02/2008 07:13 Analyzed: 05/06/2008 08:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.24		0.01	mg/kg wet	0.250		95	81-117			

Matrix Spike (8E02002-MS1) Prepared: 05/02/2008 07:13 Analyzed: 05/06/2008 08:50

Source: C803870-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.55		0.01	mg/kg dry	0.325	0.27	86	75-125			

Matrix Spike Dup (8E02002-MSD1) Prepared: 05/02/2008 07:13 Analyzed: 05/06/2008 08:53

Source: C803870-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.55		0.01	mg/kg dry	0.325	0.27	84	75-125	0.9	9	

Post Spike (8E02002-PS1) Prepared: 05/02/2008 07:13 Analyzed: 05/06/2008 08:56

Source: C803870-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.007		0.0002	mg/L	0.00500	0.004	61	0-200			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E05001 - EPA 7470A

Blank (8E05001-BLK1) Prepared: 05/05/2008 07:10 Analyzed: 05/06/2008 15:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8E05001-BS1) Prepared: 05/05/2008 07:10 Analyzed: 05/06/2008 15:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.82		0.20	ug/L	5.00		96	87-123			

Matrix Spike (8E05001-MS1) Prepared: 05/05/2008 07:10 Analyzed: 05/06/2008 15:33
Source: C803366-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.75		0.20	ug/L	5.00	0.11 U	95	63-132			

Matrix Spike Dup (8E05001-MSD1) Prepared: 05/05/2008 07:10 Analyzed: 05/06/2008 15:36
Source: C803366-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
ercury	4.91		0.20	ug/L	5.00	0.11 U	98	63-132	3	10	

Post Spike (8E05001-PS1) Prepared: 05/05/2008 07:10 Analyzed: 05/06/2008 15:39
Source: C803366-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.36		0.20	ug/L	5.00	-0.03	88	0-200			

Classical Chemistry Parameters - Quality Control

Batch 8D25003 - NO PREP

Blank (8D25003-BLK1) Prepared: 04/25/2008 09:03 Analyzed: 04/28/2008 14:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8D25003-BS1) Prepared: 04/25/2008 09:03 Analyzed: 04/28/2008 14:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	87		1.0	mg/L	80.0		109	82-119			

Duplicate (8D25003-DUP1) Prepared: 04/25/2008 09:03 Analyzed: 04/28/2008 14:10
Source: C803529-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
otal Suspended Solids	5800		1.0	mg/L		5600			2	10	

Batch 8D25009 - NO PREP

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8D25009 - NO PREP

Blank (8D25009-BLK1) Prepared: 04/25/2008 11:40 Analyzed: 04/28/2008 12:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (8D25009-BS1) Prepared: 04/25/2008 11:40 Analyzed: 04/28/2008 12:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	310		10	mg/L	300		102	90-110			

Duplicate (8D25009-DUP1) Prepared: 04/25/2008 11:40 Analyzed: 04/28/2008 12:55

Source: C803870-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	530		10	mg/L		530			0.4	10	

Batch 8D28008 - NO PREP

Blank (8D28008-BLK1) Prepared: 04/28/2008 10:35 Analyzed: 04/29/2008 14:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8D28008-BS1) Prepared: 04/28/2008 10:35 Analyzed: 04/29/2008 14:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	84		1.0	mg/L	80.0		105	82-119			

Duplicate (8D28008-DUP1) Prepared: 04/28/2008 10:35 Analyzed: 04/29/2008 14:15

Source: C804303-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	18		1.0	mg/L		20			5	10	

Batch 8D29006 - NO PREP

Blank (8D29006-BLK1) Prepared: 04/29/2008 08:55 Analyzed: 04/29/2008 23:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.25	U	5.0	mg/L							

LCS (8D29006-BS1) Prepared: 04/29/2008 08:55 Analyzed: 04/29/2008 23:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	47		5.0	mg/L	50.0		93	90-110			

Matrix Spike (8D29006-MS1) Prepared: 04/29/2008 08:55 Analyzed: 04/30/2008 00:46

Source: C804235-02

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8D29006 - NO PREP

Matrix Spike (8D29006-MS1) Continued Prepared: 04/29/2008 08:55 Analyzed: 04/30/2008 00:46

Source: C804235-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	51		5.0	mg/L	50.0	3.8	95	90-110			

Matrix Spike Dup (8D29006-MSD1) Prepared: 04/29/2008 08:55 Analyzed: 04/30/2008 01:21

Source: C804235-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	52		5.0	mg/L	50.0	3.8	96	90-110	1	10	

Batch 8E04004 - NA

Blank (8E04004-BLK1) Prepared: 05/04/2008 08:38 Analyzed: 05/04/2008 15:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	**0.037**	**J**	0.10	mg/L							

LCS (8E04004-BS1) Prepared: 05/04/2008 08:38 Analyzed: 05/04/2008 15:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2	B	0.10	mg/L	1.25		99	80-120			

Matrix Spike (8E04004-MS1) Prepared: 05/04/2008 08:38 Analyzed: 05/04/2008 15:14

Source: C804191-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4	B	0.10	mg/L	1.28	0.084	103	80-120			

Matrix Spike Dup (8E04004-MSD1) Prepared: 05/04/2008 08:38 Analyzed: 05/04/2008 15:16

Source: C804191-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4	B	0.10	mg/L	1.28	0.084	99	80-120	4	25	

Batch 8E05011 - NO PREP

Blank (8E05011-BLK1) Prepared: 05/05/2008 08:51 Analyzed: 05/05/2008 14:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	4.7	U	15	mg/L							

LCS (8E05011-BS1) Prepared: 05/05/2008 08:51 Analyzed: 05/05/2008 14:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
ital Alkalinity	100		15	mg/L	100		101	80-120			

Matrix Spike (8E05011-MS1) Prepared: 05/05/2008 08:51 Analyzed: 05/05/2008 14:26

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E05011 - NO PREP

Matrix Spike (8E05011-MS1) Continued Prepared: 05/05/2008 08:51 Analyzed: 05/05/2008 14:26

Source: C803870-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	91		15	mg/L	100	-7.2	98	80-120			

Matrix Spike Dup (8E05011-MSD1) Prepared: 05/05/2008 08:51 Analyzed: 05/05/2008 14:26

Source: C803870-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	90		15	mg/L	100	-7.2	97	80-120	1	25	

Batch 8E05013 - NO PREP

Blank (8E05013-BLK1) Prepared: 05/05/2008 08:54 Analyzed: 05/05/2008 14:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	0.48	U	5.0	mg/L							

LCS (8E05013-BS1) Prepared: 05/05/2008 08:54 Analyzed: 05/05/2008 14:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	98		5.0	mg/L	100		98	80-120			

Matrix Spike (8E05013-MS1) Prepared: 05/05/2008 08:54 Analyzed: 05/05/2008 15:05

Source: C803870-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	230	E	5.0	mg/L	100	210	21	80-120			QM-16

Matrix Spike Dup (8E05013-MSD1) Prepared: 05/05/2008 08:54 Analyzed: 05/05/2008 15:06

Source: C803870-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	230	E	5.0	mg/L	100	210	16	80-120	2	25	QM-16

Batch 8E05015 - Same

Blank (8E05015-BLK1) Prepared: 05/06/2008 12:00 Analyzed: 05/07/2008 12:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8E05015-BS1) Prepared: 05/06/2008 12:00 Analyzed: 05/07/2008 12:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
hosphorus	1.5		0.10	mg/L	1.60		92	80-120			

Matrix Spike (8E05015-MS1) Prepared: 05/06/2008 12:00 Analyzed: 05/07/2008 12:42

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E05015 - Same

Matrix Spike (8E05015-MS1) Continued Prepared: 05/06/2008 12:00 Analyzed: 05/07/2008 12:42

Source: C803870-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60	0.050 U	99	80-120			

Matrix Spike Dup (8E05015-MSD1) Prepared: 05/06/2008 12:00 Analyzed: 05/07/2008 12:44

Source: C803870-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60	0.050 U	103	80-120	4	25	

Batch 8E06016 - NO PREP

Blank (8E06016-BLK1) Prepared: 05/06/2008 11:59 Analyzed: 05/06/2008 17:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.04	U	0.20	mg/L							
Sulfate as SO4	0.25	U	5.0	mg/L							

LCS (8E06016-BS1) Prepared: 05/06/2008 11:59 Analyzed: 05/06/2008 18:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.0		0.20	mg/L	1.00		103	90-110			
Sulfate as SO4	47		5.0	mg/L	50.0		93	90-110			

LCS (8E06016-BS2) Prepared: 05/06/2008 11:59 Analyzed: 05/07/2008 22:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.0		0.20	mg/L	1.00		102	90-110			
Sulfate as SO4	46		5.0	mg/L	50.0		92	90-110			

Matrix Spike (8E06016-MS1) Prepared: 05/06/2008 11:59 Analyzed: 05/07/2008 23:20

Source: C803870-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	4.4	D	0.80	mg/L	4.00	0.45	99	90-110			
Sulfate as SO4	330	D	20	mg/L	200	160	82	90-110			QM-13

Matrix Spike Dup (8E06016-MSD1) Prepared: 05/06/2008 11:59 Analyzed: 05/07/2008 23:50

Source: C803870-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	4.5	D	0.80	mg/L	4.00	0.45	100	90-110	0.9	10	
Sulfate as SO4	320	D	20	mg/L	200	160	81	90-110	0.4	10	QM-13

Batch 8E06026 - NO PREP

Blank (8E06026-BLK1) Prepared: 05/06/2008 15:25 Analyzed: 05/06/2008 17:35

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E06026 - NO PREP

Blank (8E06026-BLK1) Continued Prepared: 05/06/2008 15:25 Analyzed: 05/06/2008 17:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.04	U	0.20	mg/L							
Sulfate as SO4	0.25	U	5.0	mg/L							

LCS (8E06026-BS1) Prepared: 05/06/2008 15:25 Analyzed: 05/06/2008 18:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.0		0.20	mg/L	1.00		103	90-110			
Sulfate as SO4	47		5.0	mg/L	50.0		93	90-110			

LCS (8E06026-BS2) Prepared: 05/06/2008 15:25 Analyzed: 05/07/2008 22:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.0		0.20	mg/L	1.00		102	90-110			
Sulfate as SO4	46		5.0	mg/L	50.0		92	90-110			

Matrix Spike (8E06026-MS1) Prepared: 05/06/2008 15:25 Analyzed: 05/08/2008 04:17
Source: C803870-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	4.2	D	0.80	mg/L	4.00	0.24	100	90-110			
Sulfate as SO4	280	D	20	mg/L	200	100	89	90-110			QM-13

Matrix Spike Dup (8E06026-MSD1) Prepared: 05/06/2008 15:25 Analyzed: 05/08/2008 04:46
Source: C803870-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	4.3	D	0.80	mg/L	4.00	0.24	102	90-110	2	10	
Sulfate as SO4	280	D	20	mg/L	200	100	89	90-110	0.06	10	QM-13

Batch 8E07029 - CE-81-1

Blank (8E07029-BLK1) Prepared: 05/07/2008 12:25 Analyzed: 05/07/2008 18:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	**130**	**J**	150	mg/kg wet							

LCS (8E07029-BS1) Prepared: 05/07/2008 12:25 Analyzed: 05/07/2008 18:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	120	B	15	mg/L	100		121	80-120			

Matrix Spike (8E07029-MS1) Prepared: 05/07/2008 12:25 Analyzed: 05/07/2008 18:12
Source: C803870-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	210	B	15	mg/L	100	170	41	80-120			QM-16

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E07029 - CE-81-1

Matrix Spike Dup (8E07029-MSD1) Prepared: 05/07/2008 12:25 Analyzed: 05/07/2008 18:13

Source: C803870-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	210	B	15	mg/L	100	170	42	80-120	0.5	25	QM-16

Batch 8E07032 - CE-81-1

Blank (8E07032-BLK1) Prepared: 05/07/2008 12:36 Analyzed: 05/08/2008 05:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	5.0	U	50	mg/kg dry wt. wet							
Sulfate as SO4	5.0	U	50	mg/kg dry wt. wet							

LCS (8E07032-BS1) Prepared: 05/07/2008 12:36 Analyzed: 05/08/2008 05:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	530		50	mg/kg dry wt. wet	500		107	90-110			
ılfate as SO4	460		50	mg/kg dry wt. wet	500		93	90-110			

Matrix Spike (8E07032-MS1) Prepared: 05/07/2008 12:36 Analyzed: 05/08/2008 08:14

Source: C803870-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	4500	E	70	mg/kg dry wt. dry	559	4000	90	90-110			QM-02
Sulfate as SO4	1300		70	mg/kg dry wt. dry	559	540	131	90-110			QM-02

Matrix Spike Dup (8E07032-MSD1) Prepared: 05/07/2008 12:36 Analyzed: 05/08/2008 08:44

Source: C803870-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	4500	E	70	mg/kg dry wt. dry	559	4000	86	90-110	0.4	10	QM-02
Sulfate as SO4	1300		70	mg/kg dry wt. dry	559	540	131	90-110	0.3	10	QM-02

Batch 8E08006 - NO PREP

Blank (8E08006-BLK1) Prepared: 05/08/2008 07:54 Analyzed: 05/08/2008 12:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.17	U	1.0	mg/kg wet							

LCS (8E08006-BS1) Prepared: 05/08/2008 07:54 Analyzed: 05/08/2008 12:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.28		102	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E08006 - NO PREP

Matrix Spike (8E08006-MS1) Prepared: 05/08/2008 07:54 Analyzed: 05/08/2008 12:39

Source: C803870-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4		0.10	mg/L	1.32	0.07	103	80-120			

Matrix Spike Dup (8E08006-MSD1) Prepared: 05/08/2008 07:54 Analyzed: 05/08/2008 12:41

Source: C803870-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.5		0.10	mg/L	1.32	0.07	109	80-120	5	25	

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8D29016 - EPA 245.1

Blank (8D29016-BLK1) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
ercury	0.000063	U	0.00020	mg/L							

Blank (8D29016-BLK2) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00063	U	0.00200	mg/L							

Blank (8D29016-BLK3) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000063	U	0.00020	mg/L							

LCS (8D29016-BS1) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00499		0.00020	mg/L	0.00500		100	85-115			

Matrix Spike (8D29016-MS1) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:36

Source: B802758-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0505		0.00200	mg/L	0.0500	0.00063 U	101	79-123			

Matrix Spike Dup (8D29016-MSD1) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:38

Source: B802758-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0496		0.00200	mg/L	0.0500	0.00063 U	99	79-123	2	10	

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QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8D29019 - EPA 3010A

Blank (8D29019-BLK1) Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 15:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0440	U	0.200	mg/L							
Antimony	0.0036	U	0.0200	mg/L							
Arsenic	**0.0079**	**J**	0.0100	mg/L							
Barium	**0.0004**	**J**	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0100	U	0.0500	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	0.0260	U	0.500	mg/L							
Chromium	0.0012	U	0.0100	mg/L							
Cobalt	0.0006	U	0.0100	mg/L							
Copper	0.0029	U	0.0100	mg/L							
Iron	0.0064	U	0.0500	mg/L							
Lead	0.0022	U	0.0100	mg/L							
Magnesium	0.0620	U	0.500	mg/L							
Manganese	0.0002	U	0.0100	mg/L							
Molybdenum	0.0008	U	0.0100	mg/L							
Nickel	0.0004	U	0.0500	mg/L							
Potassium	0.0310	U	0.500	mg/L							
Selenium	0.0035	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	0.0098	U	0.500	mg/L							
Thallium	0.0034	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0016	U	0.0200	mg/L							

Blank (8D29019-BLK2) Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 15:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.220	U	1.00	mg/L							
Antimony	0.0180	U	0.100	mg/L							
Arsenic	0.0180	U	0.0500	mg/L							
Barium	**0.0232**	**J**	0.0500	mg/L							
Beryllium	0.0009	U	0.0050	mg/L							
Boron	**0.113**	**J**	0.250	mg/L							
Cadmium	0.0010	U	0.0050	mg/L							
Calcium	**4.65**		2.50	mg/L							
Chromium	0.0060	U	0.0500	mg/L							
Cobalt	0.0028	U	0.0500	mg/L							
Copper	0.0145	U	0.0500	mg/L							
Iron	0.0320	U	0.250	mg/L							
Lead	0.0110	U	0.0500	mg/L							
Magnesium	**0.735**	**J**	2.50	mg/L							
Manganese	0.0009	U	0.0500	mg/L							
Molybdenum	0.0040	U	0.0500	mg/L							
Nickel	**0.0041**	**J**	0.250	mg/L							
Potassium	**0.336**	**J**	2.50	mg/L							
Selenium	**0.0768**		0.0500	mg/L							
Silver	0.0020	U	0.0500	mg/L							

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TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8D29019 - EPA 3010A

Blank (8D29019-BLK2) Continued Prepared: 04/29/2008 12:40 Analyzed: 05/05/2008 20:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	**1340**		2.50	mg/L							
Thallium	0.0170	U	0.0500	mg/L							
Vanadium	0.0022	U	0.0500	mg/L							
Zinc	**0.0153**	**J**	0.100	mg/L							

LCS (8D29019-BS1) Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 16:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10.2		0.200	mg/L	10.0		102	90-112			
Antimony	0.527		0.0200	mg/L	0.500		105	86-110			
Arsenic	0.987	B	0.0100	mg/L	1.00		99	90-115			
Barium	1.01	B	0.0100	mg/L	1.00		101	90-112			
Beryllium	0.498		0.0010	mg/L	0.500		100	84-118			
Boron	1.05	B	0.0500	mg/L	1.00		105	90-112			
Cadmium	0.499		0.0010	mg/L	0.500		100	87-115			
Calcium	10.0	B	0.500	mg/L	10.0		100	90-113			
Chromium	1.01		0.0100	mg/L	1.00		101	90-113			
Cobalt	1.04		0.0100	mg/L	1.00		104	81-120			
Copper	0.511		0.0100	mg/L	0.500		102	90-116			
Iron	10.2		0.0500	mg/L	10.0		102	84-115			
Lead	1.01		0.0100	mg/L	1.00		101	89-114			
Magnesium	10.3	B	0.500	mg/L	10.0		103	90-112			
Manganese	0.516		0.0100	mg/L	0.500		103	90-113			
Molybdenum	0.490		0.0100	mg/L	0.500		98	86-111			
Nickel	1.02	B	0.0500	mg/L	1.00		102	90-112			
Potassium	50.6	B	0.500	mg/L	50.0		101	90-114			
Selenium	1.03	B	0.0100	mg/L	1.00		103	90-117			
Silver	0.0954		0.0100	mg/L	0.100		95	90-110			
Sodium	49.1	B	0.500	mg/L	50.0		98	86-116			
Thallium	0.493		0.0100	mg/L	0.500		99	83-119			
Vanadium	0.497		0.0100	mg/L	0.500		99	90-113			
Zinc	1.04	B	0.0200	mg/L	1.00		104	85-118			

Matrix Spike (8D29019-MS1) Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 16:20

Source: B802758-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	51.1		1.00	mg/L	50.0	0.265	102	90-112			
Antimony	2.60		0.100	mg/L	2.50	0.0770	101	86-110			
Arsenic	4.91	B	0.0500	mg/L	5.00	0.0556	97	90-115			
Barium	5.25	B	0.0500	mg/L	5.00	0.348	98	90-112			
Beryllium	2.46		0.0050	mg/L	2.50	0.00158	98	84-118			
Boron	5.40	B	0.250	mg/L	5.00	0.253	103	90-112			
Cadmium	2.51		0.0050	mg/L	2.50	0.0109	100	87-115			
Calcium	93.2	B	2.50	mg/L	50.0	43.0	100	90-113			
Chromium	4.99		0.0500	mg/L	5.00	0.0060 U	100	90-113			
Cobalt	5.02		0.0500	mg/L	5.00	0.0028 U	100	81-120			
Copper	2.65		0.0500	mg/L	2.50	0.0145 U	106	90-116			

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8D29019 - EPA 3010A

Matrix Spike (8D29019-MS1) Continued Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 16:20

Source: B802758-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron	49.1		0.250	mg/L	50.0	0.0729	98	84-115			
Lead	5.09		0.0500	mg/L	5.00	0.0557	101	89-114			
Magnesium	52.8	B	2.50	mg/L	50.0	2.41	101	90-112			
Manganese	3.69		0.0500	mg/L	2.50	1.21	99	90-113			
Molybdenum	2.44		0.0500	mg/L	2.50	0.0040 U	98	86-111			
Nickel	5.01	B	0.250	mg/L	5.00	0.00389	100	90-112			
Potassium	265	B	2.50	mg/L	250	6.36	104	90-114			
Selenium	5.24	B	0.0500	mg/L	5.00	0.0279	104	90-117			
Silver	0.486		0.0500	mg/L	0.500	0.0020 U	97	90-110			
Sodium	1610	B	2.50	mg/L	250	1390	91	86-116			
Thallium	2.44		0.0500	mg/L	2.50	0.0394	96	83-119			
Vanadium	2.49		0.0500	mg/L	2.50	0.0022 U	99	90-113			
Zinc	5.34	B	0.100	mg/L	5.00	0.0744	105	85-118			

Matrix Spike Dup (8D29019-MSD1) Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 16:26

Source: B802758-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	51.1		1.00	mg/L	50.0	0.265	102	90-112	0.01	11	
Antimony	2.60		0.100	mg/L	2.50	0.0770	101	86-110	0.04	10	
Arsenic	4.93	B	0.0500	mg/L	5.00	0.0556	98	90-115	0.5	10	
Barium	5.23	B	0.0500	mg/L	5.00	0.348	98	90-112	0.4	10	
Beryllium	2.45		0.0050	mg/L	2.50	0.00158	98	84-118	0.4	11	
Boron	5.40	B	0.250	mg/L	5.00	0.253	103	90-112	0.008	10	
Cadmium	2.50		0.0050	mg/L	2.50	0.0109	100	87-115	0.4	10	
Calcium	92.9	B	2.50	mg/L	50.0	43.0	100	90-113	0.3	15	
Chromium	4.98		0.0500	mg/L	5.00	0.0060 U	100	90-113	0.3	10	
Cobalt	5.00		0.0500	mg/L	5.00	0.0028 U	100	81-120	0.3	11	
Copper	2.64		0.0500	mg/L	2.50	0.0145 U	106	90-116	0.6	10	
Iron	48.9		0.250	mg/L	50.0	0.0729	98	84-115	0.4	10	
Lead	5.10		0.0500	mg/L	5.00	0.0557	101	89-114	0.1	10	
Magnesium	52.8	B	2.50	mg/L	50.0	2.41	101	90-112	0.0009	12	
Manganese	3.67		0.0500	mg/L	2.50	1.21	98	90-113	0.5	10	
Molybdenum	2.44		0.0500	mg/L	2.50	0.0040 U	98	86-111	0.05	10	
Nickel	4.98	B	0.250	mg/L	5.00	0.00389	99	90-112	0.7	10	
Potassium	255	B	2.50	mg/L	250	6.36	100	90-114	4	10	
Selenium	5.28	B	0.0500	mg/L	5.00	0.0279	105	90-117	0.9	10	
Silver	0.480		0.0500	mg/L	0.500	0.0020 U	96	90-110	1	10	
Sodium	1550	B	2.50	mg/L	250	1390	65	86-116	4	10	QM-14
Thallium	2.41		0.0500	mg/L	2.50	0.0394	95	83-119	1	11	
Vanadium	2.47		0.0500	mg/L	2.50	0.0022 U	99	90-113	0.5	13	
Zinc	5.35	B	0.100	mg/L	5.00	0.0744	106	85-118	0.2	10	

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8D29016 - EPA 245.1

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8D29016 - EPA 245.1

Blank (8D29016-BLK1) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000063	U	0.00020	mg/L							

Blank (8D29016-BLK2) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00063	U	0.00200	mg/L							

Blank (8D29016-BLK3) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000063	U	0.00020	mg/L							

LCS (8D29016-BS1) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00499		0.00020	mg/L	0.00500		100	85-115			

Matrix Spike (8D29016-MS1) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:36

Source: B802758-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0505		0.00200	mg/L	0.0500	0.00063 U	101	79-123			

Matrix Spike Dup (8D29016-MSD1) Prepared: 04/29/2008 12:28 Analyzed: 04/30/2008 10:38

Source: B802758-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0496		0.00200	mg/L	0.0500	0.00063 U	99	79-123	2	10	

Batch 8D29019 - EPA 3010A

Blank (8D29019-BLK1) Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 15:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0440	U	0.200	mg/L							
Antimony	0.0036	U	0.0200	mg/L							
Arsenic	0.0036	U	0.0100	mg/L							
Barium	0.0003	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0100	U	0.0500	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	0.0070	U	0.100	mg/L							
Chromium	0.0012	U	0.0100	mg/L							
Cobalt	0.0020	U	0.0100	mg/L							
Copper	0.0029	U	0.0100	mg/L							
Iron	0.0064	U	0.0500	mg/L							
Lead	0.0022	U	0.0100	mg/L							

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8D29019 - EPA 3010A

Blank (8D29019-BLK1) Continued Prepared: 04/29/2008 12:40 Analyzed: 05/07/2008 16:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Magnesium	0.0620	U	0.500	mg/L							
Manganese	0.0002	U	0.0100	mg/L							
Molybdenum	0.0008	U	0.0100	mg/L							
Nickel	0.0004	U	0.0500	mg/L							
Potassium	0.031	U	0.500	mg/L							
Selenium	0.0035	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	0.0098	U	0.500	mg/L							
Thallium	0.0034	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0016	U	0.0200	mg/L							

Blank (8D29019-BLK3) Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 15:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0440	U	0.200	mg/L							
Antimony	0.0036	U	0.0200	mg/L							
Arsenic	0.0036	U	0.0100	mg/L							
Barium	0.0003	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	**0.0408**	J	0.0500	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.980**		0.100	mg/L							
Chromium	0.0012	U	0.0100	mg/L							
Cobalt	0.0020	U	0.0100	mg/L							
Copper	0.0029	U	0.0100	mg/L							
Iron	0.0064	U	0.0500	mg/L							
Lead	0.0022	U	0.0100	mg/L							
Magnesium	**0.108**	J	0.500	mg/L							
Manganese	**0.0130**		0.0100	mg/L							
Molybdenum	0.0008	U	0.0100	mg/L							
Nickel	**0.0011**	J	0.0500	mg/L							
Potassium	0.031	U	0.500	mg/L							
Selenium	0.0035	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	**14.9**		0.500	mg/L							
Thallium	0.0034	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	**0.0028**	J	0.0200	mg/L							

LCS (8D29019-BS1) Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 16:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10.2		0.200	mg/L	10.0		102	90-112			
Antimony	0.527		0.0200	mg/L	0.500		105	86-110			
Arsenic	0.987		0.0100	mg/L	1.00		99	90-115			
Barium	1.01		0.0100	mg/L	1.00		101	90-112			
Beryllium	0.498		0.0010	mg/L	0.500		100	84-118			

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8D29019 - EPA 3010A

LCS (8D29019-BS1) Continued Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 16:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Boron	1.05	B	0.0500	mg/L	1.00		105	90-112			
Cadmium	0.499		0.0010	mg/L	0.500		100	87-115			
Calcium	10.0	B	0.100	mg/L	10.0		100	81-111			
Chromium	1.01		0.0100	mg/L	1.00		101	90-113			
Cobalt	1.04		0.0100	mg/L	1.00		104	76-117			
Copper	0.511		0.0100	mg/L	0.500		102	90-116			
Iron	10.2		0.0500	mg/L	10.0		102	84-115			
Lead	1.01		0.0100	mg/L	1.00		101	89-114			
Magnesium	10.3	B	0.500	mg/L	10.0		103	90-112			
Manganese	0.516	B	0.0100	mg/L	0.500		103	90-113			
Molybdenum	0.490		0.0100	mg/L	0.500		98	86-111			
Nickel	1.02	B	0.0500	mg/L	1.00		102	90-112			
Potassium	50.6		0.500	mg/L	50.0		101	84-112			
Selenium	1.03		0.0100	mg/L	1.00		103	90-117			
Silver	0.0954		0.0100	mg/L	0.100		95	90-110			
Sodium	49.1	B	0.500	mg/L	50.0		98	86-116			
Thallium	0.493		0.0100	mg/L	0.500		99	83-119			
Vanadium	0.497		0.0100	mg/L	0.500		99	90-113			
Zinc	1.04	B	0.0200	mg/L	1.00		104	85-118			

Matrix Spike (8D29019-MS1) Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 16:20

Source: B802758-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	51.1		1.00	mg/L	50.0	0.265	102	90-112			
Antimony	2.60		0.100	mg/L	2.50	0.0770	101	86-110			
Arsenic	4.91		0.0500	mg/L	5.00	0.0556	97	90-115			
Barium	5.25		0.0500	mg/L	5.00	0.348	98	90-112			
Beryllium	2.46		0.0050	mg/L	2.50	0.00158	98	84-118			
Boron	5.40	B	0.250	mg/L	5.00	0.253	103	90-112			
Cadmium	2.51		0.0050	mg/L	2.50	0.0109	100	87-115			
Calcium	93.2	B	0.500	mg/L	50.0	43.0	100	63-131			
Chromium	4.99		0.0500	mg/L	5.00	0.0060 U	100	90-113			
Cobalt	5.02		0.0500	mg/L	5.00	0.0100 U	100	76-120			
Copper	2.65		0.0500	mg/L	2.50	0.0145 U	106	90-116			
Iron	49.1		0.250	mg/L	50.0	0.0729	98	84-115			
Lead	5.09		0.0500	mg/L	5.00	0.0557	101	89-114			
Magnesium	52.8	B	2.50	mg/L	50.0	2.41	101	90-112			
Manganese	3.69	B	0.0500	mg/L	2.50	1.21	99	90-113			
Molybdenum	2.44		0.0500	mg/L	2.50	0.0040 U	98	86-111			
Nickel	5.01	B	0.250	mg/L	5.00	0.00389	100	90-112			
Potassium	265		2.50	mg/L	250	6.36	104	53-121			
Selenium	5.24		0.0500	mg/L	5.00	0.0279	104	90-117			
Silver	0.486		0.0500	mg/L	0.500	0.0020 U	97	90-110			
Sodium	1610	B	2.50	mg/L	250	1390	91	86-116			
Thallium	2.44		0.0500	mg/L	2.50	0.0394	96	83-119			
Vanadium	2.49		0.0500	mg/L	2.50	0.0022 U	99	90-113			
Zinc	5.34	B	0.100	mg/L	5.00	0.0744	105	85-118			

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8D29019 - EPA 3010A

Matrix Spike Dup (8D29019-MSD1) Prepared: 04/29/2008 12:40 Analyzed: 05/02/2008 16:26

Source: B802758-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	51.1		1.00	mg/L	50.0	0.265	102	90-112	0.01	11	
Antimony	2.60		0.100	mg/L	2.50	0.0770	101	86-110	0.04	10	
Arsenic	4.93		0.0500	mg/L	5.00	0.0556	98	90-115	0.5	10	
Barium	5.23		0.0500	mg/L	5.00	0.348	98	90-112	0.4	10	
Beryllium	2.45		0.0050	mg/L	2.50	0.00158	98	84-118	0.4	11	
Boron	5.40	B	0.250	mg/L	5.00	0.253	103	90-112	0.008	10	
Cadmium	2.50		0.0050	mg/L	2.50	0.0109	100	87-115	0.4	10	
Calcium	92.9	B	0.500	mg/L	50.0	43.0	100	63-131	0.3	22	
Chromium	4.98		0.0500	mg/L	5.00	0.0060 U	100	90-113	0.3	10	
Cobalt	5.00		0.0500	mg/L	5.00	0.0100 U	100	76-120	0.3	17	
Copper	2.64		0.0500	mg/L	2.50	0.0145 U	106	90-116	0.6	10	
Iron	48.9		0.250	mg/L	50.0	0.0729	98	84-115	0.4	10	
Lead	5.10		0.0500	mg/L	5.00	0.0557	101	89-114	0.1	10	
Magnesium	52.8	B	2.50	mg/L	50.0	2.41	101	90-112	0.0009	12	
Manganese	3.67	B	0.0500	mg/L	2.50	1.21	98	90-113	0.5	10	
Molybdenum	2.44		0.0500	mg/L	2.50	0.0040 U	98	86-111	0.05	10	
ckel	4.98	B	0.250	mg/L	5.00	0.00389	99	90-112	0.7	10	
Potassium	255		2.50	mg/L	250	6.36	100	53-121	4	20	
Selenium	5.28		0.0500	mg/L	5.00	0.0279	105	90-117	0.9	10	
Silver	0.480		0.0500	mg/L	0.500	0.0020 U	96	90-110	1	10	
Sodium	1550	B	2.50	mg/L	250	1390	65	86-116	4	10	QM-14
Thallium	2.41		0.0500	mg/L	2.50	0.0394	95	83-119	1	11	
Vanadium	2.47		0.0500	mg/L	2.50	0.0022 U	99	90-113	0.5	13	
Zinc	5.35	B	0.100	mg/L	5.00	0.0744	106	85-118	0.2	10	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the assocatiated method blank.
J-01a	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-13	Suspected matrix effects
QM-14	Confirmed matrix effects
QM-16	Matrix spike recovery could not be calculated due to high concentrations of analyte in source sample.

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Page 1 of 1

Client Name: Kinley-Horn + Assoc.	Project Number: 116436000
Address: 501 Independence Pkwy #300	Project Name/Desc: Battlefield Fly-Ash
City/ST/Zip: Chesapeake, VA 23320	PO # / Billing Info:
Tel: 757-548-7300 Fax: 757-548-7301	Reporting Contact:
Sampler(s) Name, Affiliation (Print): M. Iwashchenko	Billing Contact: M. Iwashchenko
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (See codes)	Total # of Containers	SPLP	TSS, TDS, T-phos	Flouride	Chloride	Sulfate-NOx	Alkalinity	Se, Ni, Ca, Mg, As, Cu, B, Mo, Ti, Zn	Cd, Cr, Mn, Bi, Fe, Co, Rb, Sb, Be, Th, Vi, Al	Mg, K, Na	~~X~~	~~X~~	Sample Comments
	SW-4	4/22/08	1445	G	SW	10	X	X	X	X	X	X	X	X	X	X	X	Epedate Boron + Sulfate
	SW-5	↓	1520	G	↓	10	X	X	X	X	X	X	X	X	X	X	X	↓
	SW-0	↓	1445	G	↓	10	X	X	X	X	X	X	X	X	X	X	X	↓

← Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	4/23/08	Briana Gregory	4/24/08 10:30
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-485 3.4°C		Condition Upon Receipt: Acceptable / Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions stated on the reverse of this form, unless prior written agreements exist.

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Page 1 of 1

Client Name: Gamley - Horn Park	Project Number: 116-4316-000
Address: 501 Independence Pkwy	Project Name/Desc: Bottle field Fly Ash
City/ST/Zip: Chesapeake VA #300 23320	PO # / Billing Info
Tel: 757-548-2331 Fax: 757-548-2331	Reporting Contact
Sampler(s) Name, Affiliation (Firm): M Franchuck - KHF	Billing Contact: M. Washington
Sampler(s) Signature:	Facility # (if required)

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

✓ Expedited

Due __/__/__

Lab Workorder: 5038708

Requested Analyses / Preservation (See Codes) (Continue as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	TSS, TDS, TPO4	Fluoride	Chloride	Sulfate, NO3	Alkalinity	Se, Cu, Cd, Hg	Al, Cu, Fe, Ni, Zn	Cr, Mg, Ba, Fe	Co, Sb, Mn, Fe	V, Ca, Mg, Na
	SW-8	4/23/08	1300	G	SW	10	X	X	X	X	X	X	X	X	X	X
	OFE	↓	1320	G	SW	10	X	X	X	X	X	X	X	X	X	X

Sample Comments: Expedite Bacon Sulfate + boron SW-8 + OFE

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: M Franchuck	Date/Time: 4/23/08 4:45	Received By: Briana Gregory	Date/Time: 4/24/08 10:30
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-490 3.1°C

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Preservation: 1 Ice 2 HCl 3 HNO3 4 H2SO4 5 NaOH 6 Other (detail in comments)

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

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Page 1 of 1

Client Name: Kimley-Horn + Assoc	Project Number: 116436000
Address: 501 Independence Pkwy #300	Project Name/Desc: Battlefield Fly-Ash
City/ST/Zip: Chesapeake, VA 23320	PO # / Billing Info:
Tel: 757-548-7300 Fax: 757-548-7301	Reporting Contact:
Sampler(s) Name, Affiliation (Print): M. Iwashchenko	Billing Contact: M. Iwashchenko
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	SPLP	TSS, TDS, T-Phos	Flounde	Chloride	Sulfate, NOx	Alkalinity	Sc, Ni, Ca, Hg, As, Cu, Pb, Tl, Zn	Cd, Cr, Mn, Ba, Fe, Co, B, Mo, Sb, Be	Ag, V, Al, Mg, K, Na		Sample Comments
	SW-3	4/22/08	1400	G	SW	10	X	X	X	X	X	X	X	X	X		Expedite Boron + Sulfate
	DFB	4/22/08	1410	G	SW	10	X	X	X	X	X	X	X	X	X		↓

<-- Total # of Containers

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

✓ Expedited

Due __/__/__

Lab Workorder: C803870C

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	4/23/08 11:00	Briana Gregory	4/24/08 10:30
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-489 3.5°C

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Matrix: GW Groundwater SD Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: Use H-HCl N-HNO3 S-H2SO4 NO NaOH O-Other (detail in comments)

Note: All samples submitted in ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreement is in place.

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Page 1 of 1

Client Name: KHA	Project Number: 116436000
Address: 501 Independence PKWY	Project Name/Desc: FIY-ASH
City/ST/Zip: Chesapeake VA 23320	PO # / Billing Info: 116436000
Tel: 548-7300 Fax: 609-3369	Reporting Contact: Mike I
Sampler(s) Name, Affiliation (Print): M. Iwashchenko / KHA	Billing Contact: Mike I
Sampler(s) Signature: M. Iwashchenko	Facility # (if required): Battlefield

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	RCRA-8	TCLP	SPLP	Se, Ni, Ca, Hg, Al, Sc, Pb, Tl, Zn, Cd, Cr, Mn, Ba	Fe, Co, B, Mo, Sb, Be, Ag, Al, Mg, K, Na, V	Alkalinity					Sample Comments
	HA-1		2:10	G	So	2	/	/	/	/	/	/					All Metals
	HA-2		2:30	G	So	2	/	/	/	/	/	/					All Metals

4 <-- Total # of Containers

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C803870D

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		M. Iwashchenko	4/23/08 4:39	Briana Gregory	4/24/08 10:30
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-490 3.1°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW Groundwater SO-Soil SE-Sediment SW Surface Water WW-Wastewater Air-Air O-Other (detail in comments)

Preservation: Hor H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreement is reached.

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Page 1 of 1

Client Name: Cimley-Horn & Assoc	Project Number: 116 436 000
Address: 501 Independence Pkwy	Project Name/Desc: Battlefield Fly-Ash
City/ST/Zip: Chesapeake, VA 23320 #300	PO # / Billing Info
Tel: 757-548-7300 Fax: 757-548-7301	Reporting Contact
Sampler(s) Name, Affiliation (Print): M. Iwashchenko KHA	Billing Contact: M. Iwashchenko
Sampler(s) Signature: [signature]	Facility # of Inquiries

Requested Analyses

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	TSS TDS T-Phos	Chloride	Chloride	Sulfate, NOx	Alkalinity	Se, Ni, Ca, Hg	As, Cu, Pb, Tl, Zn	Cd, Cr, Mn, Ba	Fe, Co, B, Mo, Sb, Be	Ag, V, Al, Mg, K, Na	Sample Comments
	SW-6	4/23/08	1137	G	SW	10	X	X	X	X	X	X	X	X	X	X	Epedink Boron-Sulfate
	SW-7	↓	1200	↓	↓	↓	X	X	X	X	X	X	X	X	X	X	
	SW-9		1330				X	X	X	X	X	X	X	X	X	X	

Preservation (See Codes) (Combine as necessary)

← Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	4/23/08 4:45	Brianna Gregory	4/24/08 10:30
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temperature Receipt: C-488 2.6°C		Condition Upon Receipt: Acceptable / Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: Hor-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

✓ Expedited

Due __/__/__

Lab Workorder: C803870E

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Page 1 of ___

Client Name: Kimley-Horn & Assoc.	Project Number: 116436000
Address: 501 Independence Pkwy #300	Project Name/Desc: Rattlefield Fly-Ash
City/ST/Zip: Chesapeake, VA 23320	PO # / Billing Info:
Tel: 757-548-7300 Fax: 757-548-7301	Reporting Contact:
Sampler(s) Name, Affiliation (Print): M. Iwashchenko	Billing Contact: M. Iwashchenko
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note: This requests subject to acceptance by the facility

✓ Standard

✓ Expedited

Due __/__/__

Lab Workorder: C803870F

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	SPLP	TSS, TDS, T-Phos	Flouride	Chloride	Sulfate, NOx	Alkalinity	Se, N, Pb, Fe, Hg, As, Cu, Cr, Mn, Ba, Fe, Co, B, Mo	Sb, Be, Ag, V	Al, Mg, K, Na	Sample Comments
	SW-2	4/22/08	1240	G	SW	10	X	X	X	X	X	X	X	X	X	X	Expedite Boron+S, Na
	OFS	↓	1340	↓	↓	↓	X	X	X	X	X	X	X	X	X	X	↓
	SW-1	↓	1153	↓	↓	↓	X	X	X	X	X	X	X	X	X	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	4/23/08 10:00	Briana Gregory	4/24/08 10:30
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-483 2.9°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice II-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless other written agreements exist.

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102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
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Thursday, June 5, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Fly Ash
ENCO Workorder: C805327

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, May 21, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 21.

PROJECT NARRATIVE

Client: Kimley-Horn and Associates - VA[KI009]
Project: Fly Ash
ENCO Project ID: C805327

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling and processing will be discussed in the Remarks section below.

Remarks

Analysis: Chloride SM4500-Cl/E
Affected Samples: 8E21015-BLK1, MW-1[C805327-01], MW-2[C805327-02], MW-3[C805327-03]
Description: MB results above MDL but below MRL; associated samples flagged with QB-01
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result is greater than ten times the concentration of the associated blank, the impact of this nonconformance is considered to be minimal.

Analysis: Sulfate EPA 300.0
Affected Samples: 8E22024-MS1, 8E22024-MSD1, MW-1[C805327-01]
Explanation: The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Analysis: Fluoride EPA 340.2
Affected Samples: MW-1[C805327-01]
Description: MB results above MDL but below MRL; associated samples flagged with J-01
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result are within a factor of 10 of the associated blank, the result should be considered to be an estimate.

Analysis: Fluoride EPA 340.2
Affected Samples: MW-2[C805327-02], MW-3[C805327-03]
Description: MB results above MDL but below MRL; associated samples flagged with QB-01
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result is greater than ten times the concentration of the associated blank, the impact of this nonconformance is considered to be minimal.

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1 Lab ID: C805327-01 Sampled: 05/20/08 12:41 Received: 05/21/08 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/27/08	05/22/08 13:00	5/23/2008 12:42
EPA 160.2	05/27/08	05/27/08 13:10	5/28/2008 14:47
EPA 300.0	06/17/08	05/22/08 15:39	5/23/2008 05:01
EPA 310.2	06/03/08	05/21/08 12:09	5/21/2008 18:58
EPA 340.2	06/17/08	05/29/08 16:25	5/29/2008 16:25
EPA 353.2	06/17/08	05/25/08 09:07	5/25/2008 14:56
EPA 365.4	06/17/08	05/27/08 10:30	5/28/2008 10:46
EPA 6010B	11/16/08	05/22/08 07:40	6/3/2008 11:26
EPA 7470A	06/17/08	05/29/08 07:30	5/30/2008 13:12
SM4500-Cl/E	06/17/08	05/21/08 12:14	5/21/2008 15:47

Client ID: MW-2 Lab ID: C805327-02 Sampled: 05/20/08 12:50 Received: 05/21/08 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/27/08	05/22/08 13:00	5/23/2008 12:42
EPA 160.2	05/27/08	05/27/08 13:10	5/28/2008 14:47
EPA 310.2	06/03/08	05/21/08 12:09	5/21/2008 18:59
EPA 340.2	06/17/08	05/29/08 16:25	5/29/2008 16:25
EPA 353.2	06/17/08	05/25/08 09:07	5/25/2008 14:58
EPA 365.4	06/17/08	05/27/08 10:30	5/28/2008 10:49
EPA 6010B	11/16/08	05/22/08 07:40	6/3/2008 11:57
EPA 7470A	06/17/08	05/29/08 07:30	5/30/2008 13:21
SM4500-Cl/E	06/17/08	05/21/08 12:14	5/21/2008 15:47

Client ID: MW-2 Lab ID: C805327-02RE1 Sampled: 05/20/08 12:50 Received: 05/21/08 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	06/17/08	05/27/08 13:05	5/28/2008 02:22

Client ID: MW-3 Lab ID: C805327-03 Sampled: 05/20/08 13:05 Received: 05/21/08 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	05/27/08	05/22/08 13:00	5/23/2008 12:42
EPA 160.2	05/27/08	05/27/08 13:10	5/28/2008 14:47
EPA 310.2	06/03/08	05/21/08 12:09	5/21/2008 18:59
EPA 340.2	06/17/08	05/29/08 16:25	5/29/2008 16:25
EPA 353.2	06/17/08	05/25/08 09:07	5/25/2008 15:00
EPA 365.4	06/17/08	05/27/08 10:30	5/28/2008 10:51
EPA 6010B	11/16/08	05/22/08 07:40	6/3/2008 12:04
EPA 7470A	06/17/08	05/29/08 07:30	5/30/2008 13:24
SM4500-Cl/E	06/17/08	05/21/08 12:14	5/21/2008 15:48

Client ID: MW-3 Lab ID: C805327-03RE1 Sampled: 05/20/08 13:05 Received: 05/21/08 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	06/17/08	05/27/08 13:05	5/28/2008 02:52

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SAMPLE DETECTION SUMMARY

Client ID: MW-1 **Lab ID: C805327-01**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	86700		100	ug/L	EPA 6010B	
Arsenic	64.6		10.0	ug/L	EPA 6010B	
Barium	284		10.0	ug/L	EPA 6010B	
Beryllium	3.80		1.00	ug/L	EPA 6010B	
Boron	113		50.0	ug/L	EPA 6010B	
Calcium	47800		100	ug/L	EPA 6010B	
Chloride	49	B	5.0	mg/L	SM4500-Cl/E	QB-01
Chromium	187	B	10.0	ug/L	EPA 6010B	
Cobalt	76.0		10.0	ug/L	EPA 6010B	
Copper	9.60	JB	10.0	ug/L	EPA 6010B	
Fluoride	0.15	B	0.10	mg/L	EPA 340.2	J-01
Iron	157000		50	ug/L	EPA 6010B	
Lead	67.9		10.0	ug/L	EPA 6010B	
Magnesium	31000		100	ug/L	EPA 6010B	
Manganese	1330		10.0	ug/L	EPA 6010B	
Mercury	0.23		0.20	ug/L	EPA 7470A	
Nickel	166		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.14		0.10	mg/L	EPA 353.2	
Phosphorus	1.6		0.10	mg/L	EPA 365.4	
Potassium	9140		500	ug/L	EPA 6010B	
Sodium	15100	B	500	ug/L	EPA 6010B	
Sulfate as SO4	76		5.0	mg/L	EPA 300.0	
Total Alkalinity	26		15	mg/L	EPA 310.2	
Total Dissolved Solids	290		10	mg/L	EPA 160.1	
Total Suspended Solids	4800		1.0	mg/L	EPA 160.2	
Vanadium	232	B	10.0	ug/L	EPA 6010B	
Zinc	510		10.0	ug/L	EPA 6010B	

Client ID: MW-2 **Lab ID: C805327-02**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	99200		100	ug/L	EPA 6010B	
Arsenic	79.8		10.0	ug/L	EPA 6010B	
Barium	444		10.0	ug/L	EPA 6010B	
Beryllium	3.40		1.00	ug/L	EPA 6010B	
Boron	75.2		50.0	ug/L	EPA 6010B	
Calcium	69500		100	ug/L	EPA 6010B	
Chloride	50	B	5.0	mg/L	SM4500-Cl/E	QB-01
Chromium	231	B	10.0	ug/L	EPA 6010B	
Cobalt	90.3		10.0	ug/L	EPA 6010B	
Copper	33.0	B	10.0	ug/L	EPA 6010B	
Fluoride	0.28	B	0.10	mg/L	EPA 340.2	QB-01
Iron	175000		50	ug/L	EPA 6010B	
Lead	78.7		10.0	ug/L	EPA 6010B	
Magnesium	41500		100	ug/L	EPA 6010B	
Manganese	1300		10.0	ug/L	EPA 6010B	
Mercury	0.24		0.20	ug/L	EPA 7470A	
Nickel	204		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	1.1		0.10	mg/L	EPA 353.2	
Phosphorus	2.1		0.10	mg/L	EPA 365.4	

Client ID: MW-2 **Lab ID: C805327-02**

Analyte	Results	Flag	MRL	Units	Method	Notes
Potassium	12600		500	ug/L	EPA 6010B	
Sodium	28500	B	500	ug/L	EPA 6010B	
Total Alkalinity	28		15	mg/L	EPA 310.2	
Total Dissolved Solids	370		10	mg/L	EPA 160.1	
Total Suspended Solids	2100		1.0	mg/L	EPA 160.2	
Vanadium	297	B	10.0	ug/L	EPA 6010B	
Zinc	491		10.0	ug/L	EPA 6010B	

Client ID: MW-2 **Lab ID: C805327-02RE1**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	120	D	10	mg/L	EPA 300.0	

Client ID: MW-3 **Lab ID: C805327-03**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	130000		100	ug/L	EPA 6010B	
Arsenic	103		10.0	ug/L	EPA 6010B	
Barium	463		10.0	ug/L	EPA 6010B	
Beryllium	5.20		1.00	ug/L	EPA 6010B	
Boron	75.5		50.0	ug/L	EPA 6010B	
Calcium	57700		100	ug/L	EPA 6010B	
Chloride	18	B	5.0	mg/L	SM4500-Cl/E	QB-01
Chromium	302	B	10.0	ug/L	EPA 6010B	
Cobalt	148		10.0	ug/L	EPA 6010B	
Copper	44.8	B	10.0	ug/L	EPA 6010B	
Fluoride	0.32	B	0.10	mg/L	EPA 340.2	QB-01
Iron	229000		50	ug/L	EPA 6010B	
Lead	106		10.0	ug/L	EPA 6010B	
Magnesium	47700		100	ug/L	EPA 6010B	
Manganese	1540		10.0	ug/L	EPA 6010B	
Mercury	0.31		0.20	ug/L	EPA 7470A	
Nickel	299		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.15		0.10	mg/L	EPA 353.2	
Phosphorus	2.8		0.10	mg/L	EPA 365.4	
Potassium	14200		500	ug/L	EPA 6010B	
Sodium	22900	B	500	ug/L	EPA 6010B	
Total Alkalinity	49		15	mg/L	EPA 310.2	
Total Dissolved Solids	360		10	mg/L	EPA 160.1	
Total Suspended Solids	2100		1.0	mg/L	EPA 160.2	
Vanadium	384	B	10.0	ug/L	EPA 6010B	
Zinc	805		10.0	ug/L	EPA 6010B	

Client ID: MW-3 **Lab ID: C805327-03RE1**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	140	D	10	mg/L	EPA 300.0	

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ANALYTICAL RESULTS

Description: MW-1
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C805327-01
Sampled: 05/20/08 12:41
Sampled By: Mike Iwashchenko

Received: 05/21/08 09:45
Work Order: C805327

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**86700**		ug/L	1	50	100	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Arsenic [7440-38-2] ^	**64.6**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Barium [7440-39-3] ^	**284**		ug/L	1	0.20	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Beryllium [7440-41-7] ^	**3.80**		ug/L	1	0.70	1.00	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Boron [7440-42-8] ^	**113**		ug/L	1	4.0	50.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Calcium [7440-70-2] ^	**47800**		ug/L	1	7.0	100	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Chromium [7440-47-3] ^	**187**	B	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Cobalt [7440-48-4] ^	**76.0**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Copper [7440-50-8] ^	**9.60**	JB	ug/L	1	0.60	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Iron [7439-89-6] ^	**157000**		ug/L	1	20	50	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Lead [7439-92-1] ^	**67.9**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Magnesium [7439-95-4] ^	**31000**		ug/L	1	20	100	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Manganese [7439-96-5] ^	**1330**		ug/L	1	1.4	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Mercury [7439-97-6] ^	**0.23**		ug/L	1	0.11	0.20	8E29004	EPA 7470A	05/30/08 13:12	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Nickel [7440-02-0] ^	**166**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Potassium [7440-09-7] ^	**9140**		ug/L	1	50	500	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Sodium [7440-23-5] ^	**15100**	B	ug/L	1	200	500	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Vanadium [7440-62-2] ^	**232**	B	ug/L	1	1.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	
Zinc [7440-66-6] ^	**510**		ug/L	1	1.0	10.0	8E22002	EPA 6010B	06/03/08 11:26	VLO	

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Description: MW-1
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C805327-01
Sampled: 05/20/08 12:41
Sampled By: Mike Iwashchenko

Received: 05/21/08 09:45
Work Order: C805327

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	49	B	mg/L	1	0.48	5.0	8E21015	SM4500-Cl/E	05/21/08 15:47	PEV	QB-01
Fluoride [16984-48-8]	0.15	B	mg/L	1	0.0053	0.10	8E29010	EPA 340.2	05/29/08 16:25	JOC	J-01
Nitrate/Nitrite as N [NA]	0.14		mg/L	1	0.022	0.10	8E25003	EPA 353.2	05/25/08 14:56	PEV	
Phosphorus [7723-14-0]	1.6		mg/L	1	0.050	0.10	8E25007	EPA 365.4	05/28/08 10:46	PEV	
Sulfate as SO4 [14808-79-8]	76		mg/L	1	0.05	5.0	8E22024	EPA 300.0	05/23/08 05:01	AJ	
Total Alkalinity [NA]	26		mg/L	1	4.7	15	8E21014	EPA 310.2	05/21/08 18:58	PEV	
Total Dissolved Solids [NA]	290		mg/L	1	10	10	8E22010	EPA 160.1	05/23/08 12:42	JOC	
Total Suspended Solids [NA]	4800		mg/L	1	1.0	1.0	8E27019	EPA 160.2	05/28/08 14:47	FLT	

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Description: MW-2
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C805327-02
Sampled: 05/20/08 12:50
Sampled By: Mike Iwashchenko

Received: 05/21/08 09:45
Work Order: C805327

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**99200**		ug/L	1	50	100	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Arsenic [7440-38-2] ^	**79.8**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Barium [7440-39-3] ^	**444**		ug/L	1	0.20	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Beryllium [7440-41-7] ^	**3.40**		ug/L	1	0.70	1.00	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Boron [7440-42-8] ^	**75.2**		ug/L	1	4.0	50.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Calcium [7440-70-2] ^	**69500**		ug/L	1	7.0	100	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Chromium [7440-47-3] ^	**231**	B	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Cobalt [7440-48-4] ^	**90.3**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Copper [7440-50-8] ^	**33.0**	B	ug/L	1	0.60	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Iron [7439-89-6] ^	**175000**		ug/L	1	20	50	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Lead [7439-92-1] ^	**78.7**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Magnesium [7439-95-4] ^	**41500**		ug/L	1	20	100	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Manganese [7439-96-5] ^	**1300**		ug/L	1	1.4	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Mercury [7439-97-6] ^	**0.24**		ug/L	1	0.11	0.20	8E29004	EPA 7470A	05/30/08 13:21	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Nickel [7440-02-0] ^	**204**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Potassium [7440-09-7] ^	**12600**		ug/L	1	50	500	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Sodium [7440-23-5] ^	**28500**	B	ug/L	1	200	500	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Vanadium [7440-62-2] ^	**297**	B	ug/L	1	1.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	
Zinc [7440-66-6] ^	**491**		ug/L	1	1.0	10.0	8E22002	EPA 6010B	06/03/08 11:57	VLO	

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Description: MW-2
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C805327-02
Sampled: 05/20/08 12:50
Sampled By: Mike Iwashchenko

Received: 05/21/08 09:45
Work Order: C805327

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**50**	B	mg/L	1	0.48	5.0	8E21015	SM4500-Cl/E	05/21/08 15:47	PEV	QB-01
Fluoride [16984-48-8]	**0.28**	B	mg/L	1	0.0053	0.10	8E29010	EPA 340.2	05/29/08 16:25	JOC	QB-01
Nitrate/Nitrite as N [NA]	**1.1**		mg/L	1	0.022	0.10	8E25003	EPA 353.2	05/25/08 14:58	PEV	
Phosphorus [7723-14-0]	**2.1**		mg/L	1	0.050	0.10	8E25007	EPA 365.4	05/28/08 10:49	PEV	
Sulfate as SO4 [14808-79-8]	**120**	D	mg/L	2	0.10	10	8E27026	EPA 300.0	05/28/08 02:22	AJ	
Total Alkalinity [NA]	**28**		mg/L	1	4.7	15	8E21014	EPA 310.2	05/21/08 18:59	PEV	
Total Dissolved Solids [NA]	**370**		mg/L	1	10	10	8E22010	EPA 160.1	05/23/08 12:42	JOC	
Total Suspended Solids [NA]	**2100**		mg/L	1	1.0	1.0	8E27019	EPA 160.2	05/28/08 14:47	FLT	

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Description: MW-3
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C805327-03
Sampled: 05/20/08 13:05
Sampled By: Mike Iwashchenko

Received: 05/21/08 09:45
Work Order: C805327

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**130000**		ug/L	1	50	100	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Arsenic [7440-38-2] ^	**103**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Barium [7440-39-3] ^	**463**		ug/L	1	0.20	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Beryllium [7440-41-7] ^	**5.20**		ug/L	1	0.70	1.00	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Boron [7440-42-8] ^	**75.5**		ug/L	1	4.0	50.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Calcium [7440-70-2] ^	**57700**		ug/L	1	7.0	100	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Chromium [7440-47-3] ^	**302**	B	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Cobalt [7440-48-4] ^	**148**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Copper [7440-50-8] ^	**44.8**	B	ug/L	1	0.60	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Iron [7439-89-6] ^	**229000**		ug/L	1	20	50	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Lead [7439-92-1] ^	**106**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Magnesium [7439-95-4] ^	**47700**		ug/L	1	20	100	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Manganese [7439-96-5] ^	**1540**		ug/L	1	1.4	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Mercury [7439-97-6] ^	**0.31**		ug/L	1	0.11	0.20	8E29004	EPA 7470A	05/30/08 13:24	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Nickel [7440-02-0] ^	**299**		ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Potassium [7440-09-7] ^	**14200**		ug/L	1	50	500	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Sodium [7440-23-5] ^	**22900**	B	ug/L	1	200	500	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Vanadium [7440-62-2] ^	**384**	B	ug/L	1	1.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	
Zinc [7440-66-6] ^	**805**		ug/L	1	1.0	10.0	8E22002	EPA 6010B	06/03/08 12:04	VLO	

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Description: MW-3
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C805327-03
Sampled: 05/20/08 13:05
Sampled By: Mike Iwashchenko

Received: 05/21/08 09:45
Work Order: C805327

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	18	B	mg/L	1	0.48	5.0	8E21015	SM4500-Cl/E	05/21/08 15:48	PEV	QB-01
Fluoride [16984-48-8]	0.32	B	mg/L	1	0.0053	0.10	8E29010	EPA 340.2	05/29/08 16:25	JOC	QB-01
Nitrate/Nitrite as N [NA]	0.15		mg/L	1	0.022	0.10	8E25003	EPA 353.2	05/25/08 15:00	PEV	
Phosphorus [7723-14-0]	2.8		mg/L	1	0.050	0.10	8E25007	EPA 365.4	05/28/08 10:51	PEV	
Sulfate as SO4 [14808-79-8]	140	D	mg/L	2	0.10	10	8E27026	EPA 300.0	05/28/08 02:52	AJ	
Total Alkalinity [NA]	49		mg/L	1	4.7	15	8E21014	EPA 310.2	05/21/08 18:59	PEV	
Total Dissolved Solids [NA]	360		mg/L	1	10	10	8E22010	EPA 160.1	05/23/08 12:42	JOC	
Total Suspended Solids [NA]	2100		mg/L	1	1.0	1.0	8E27019	EPA 160.2	05/28/08 14:47	FLT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E22002 - EPA 3005A

Blank (8E22002-BLK1) Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	50	U	100	ug/L							
Antimony	2.0	U	10.0	ug/L							
Arsenic	2.0	U	10.0	ug/L							
Barium	0.20	U	10.0	ug/L							
Beryllium	0.70	U	1.00	ug/L							
Boron	4.0	U	50.0	ug/L							
Cadmium	0.50	U	1.00	ug/L							
Calcium	7.0	U	100	ug/L							
Chromium	**4.4**	**J**	10.0	ug/L							
Cobalt	2.0	U	10.0	ug/L							
Copper	**0.90**	**J**	10.0	ug/L							
Iron	20	U	50	ug/L							
Lead	2.0	U	10.0	ug/L							
Magnesium	20	U	100	ug/L							
Manganese	1.4	U	10.0	ug/L							
Molybdenum	2.0	U	10.0	ug/L							
Nickel	2.0	U	10.0	ug/L							
Potassium	50	U	500	ug/L							
Selenium	2.0	U	10.0	ug/L							
Silver	2.0	U	10.0	ug/L							
Sodium	**297**	**J**	500	ug/L							
Thallium	4.0	U	10.0	ug/L							
Vanadium	**1.1**	**J**	10.0	ug/L							
Zinc	1.0	U	10.0	ug/L							

LCS (8E22002-BS1) Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	4880		100	ug/L	5000		98	77-130			
Antimony	253		10.0	ug/L	250		101	82-119			
Arsenic	511		10.0	ug/L	500		102	82-117			
Barium	516		10.0	ug/L	500		103	72-125			
Beryllium	260		1.00	ug/L	250		104	75-121			
Boron	514		50.0	ug/L	500		103	75-122			
Cadmium	261		1.00	ug/L	250		104	72-120			
Calcium	5030		100	ug/L	5000		101	81-111			
Chromium	509	B	10.0	ug/L	500		102	78-119			
Cobalt	508		10.0	ug/L	500		102	76-117			
Copper	251	B	10.0	ug/L	250		100	80-117			
Iron	5090		50	ug/L	5000		102	84-133			
Lead	509		10.0	ug/L	500		102	72-121			
Magnesium	5350		100	ug/L	5000		107	81-117			
Manganese	252		10.0	ug/L	250		101	76-123			
Molybdenum	239		10.0	ug/L	250		95	83-112			
Nickel	517		10.0	ug/L	500		103	78-116			
Potassium	22500		500	ug/L	25000		90	84-112			
Selenium	525		10.0	ug/L	500		105	82-127			
Silver	49.8		10.0	ug/L	50.0		100	80-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E22002 - EPA 3005A

LCS (8E22002-BS1) Continued Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	22900	B	500	ug/L	25000		92	81-120			
Thallium	259		10.0	ug/L	250		104	79-118			
Vanadium	244	B	10.0	ug/L	250		98	78-117			
Zinc	512		10.0	ug/L	500		102	80-120			

Matrix Spike (8E22002-MS1) Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:34

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	104000		100	ug/L	5000	86700	355	78-125			QM-07
Antimony	70.1		10.0	ug/L	250	2.0 U	28	38-138			QM-07
Arsenic	506		10.0	ug/L	500	64.6	88	64-126			
Barium	771		10.0	ug/L	500	284	97	74-119			
Beryllium	240		1.00	ug/L	250	3.80	95	70-131			
Boron	570		50.0	ug/L	500	113	91	77-114			
Cadmium	206		1.00	ug/L	250	0.50 U	82	68-121			
Calcium	51900		100	ug/L	5000	47800	84	63-131			
Chromium	648	B	10.0	ug/L	500	187	92	73-120			
Cobalt	528		10.0	ug/L	500	76.0	90	76-120			
Copper	245	B	10.0	ug/L	250	9.60	94	75-123			
Iron	162000		50	ug/L	5000	157000	112	48-144			
Lead	515		10.0	ug/L	500	67.9	89	68-126			
Magnesium	36100		100	ug/L	5000	31000	102	59-129			
Manganese	1530		10.0	ug/L	250	1330	83	55-146			
Molybdenum	151		10.0	ug/L	250	2.0 U	60	72-118			QM-07
Nickel	631		10.0	ug/L	500	166	93	64-126			
Potassium	35900		500	ug/L	25000	9140	107	53-121			
Selenium	418		10.0	ug/L	500	2.0 U	84	65-129			
Silver	40.8		10.0	ug/L	50.0	2.0 U	82	69-121			
Sodium	40700	B	500	ug/L	25000	15100	103	29-171			
Thallium	189		10.0	ug/L	250	4.0 U	76	67-135			
Vanadium	461	B	10.0	ug/L	250	232	92	71-130			
Zinc	959		10.0	ug/L	500	510	90	63-131			

Matrix Spike Dup (8E22002-MSD1) Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:41

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	106000		100	ug/L	5000	86700	393	78-125	2	22	QM-07
Antimony	63.2		10.0	ug/L	250	2.0 U	25	38-138	10	30	QM-07
Arsenic	520		10.0	ug/L	500	64.6	91	64-126	3	12	
Barium	790		10.0	ug/L	500	284	101	74-119	2	11	
Beryllium	246		1.00	ug/L	250	3.80	97	70-131	2	21	
Boron	584		50.0	ug/L	500	113	94	77-114	2	11	
Cadmium	211		1.00	ug/L	250	0.50 U	85	68-121	3	12	
Calcium	53100		100	ug/L	5000	47800	108	63-131	2	22	
Chromium	660	B	10.0	ug/L	500	187	95	73-120	2	10	
Cobalt	540		10.0	ug/L	500	76.0	93	76-120	2	17	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E22002 - EPA 3005A

Matrix Spike Dup (8E22002-MSD1) Continued Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:41

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	250	B	10.0	ug/L	250	9.60	96	75-123	2	16	
Iron	166000		50	ug/L	5000	157000	190	48-144	2	23	QM-07
Lead	530		10.0	ug/L	500	67.9	92	68-126	3	19	
Magnesium	36800		100	ug/L	5000	31000	115	59-129	2	22	
Manganese	1570		10.0	ug/L	250	1330	96	55-146	2	19	
Molybdenum	154		10.0	ug/L	250	2.0 U	62	72-118	2	12	QM-07
Nickel	646		10.0	ug/L	500	166	96	64-126	2	12	
Potassium	36400		500	ug/L	25000	9140	109	53-121	2	20	
Selenium	430		10.0	ug/L	500	2.0 U	86	65-129	3	10	
Silver	40.8		10.0	ug/L	50.0	2.0 U	82	69-121	0	12	
Sodium	41700	B	500	ug/L	25000	15100	106	29-171	2	21	
Thallium	195		10.0	ug/L	250	4.0 U	78	67-135	3	13	
Vanadium	470	B	10.0	ug/L	250	232	95	71-130	2	16	
Zinc	980		10.0	ug/L	500	510	94	63-131	2	24	

Batch 8E29004 - EPA 7470A

Blank (8E29004-BLK1) Prepared: 05/29/2008 07:30 Analyzed: 05/30/2008 11:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8E29004-BS1) Prepared: 05/29/2008 07:30 Analyzed: 05/30/2008 12:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.20		0.20	ug/L	5.00		104	87-123			

Matrix Spike (8E29004-MS1) Prepared: 05/29/2008 07:30 Analyzed: 05/30/2008 12:08

Source: C805506-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.44		0.20	ug/L	5.00	0.11 U	89	63-132			

Matrix Spike Dup (8E29004-MSD1) Prepared: 05/29/2008 07:30 Analyzed: 05/30/2008 12:11

Source: C805506-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.27		0.20	ug/L	5.00	0.11 U	85	63-132	4	10	

Post Spike (8E29004-PS1) Prepared: 05/29/2008 07:30 Analyzed: 05/30/2008 12:14

Source: C805506-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.47		0.20	ug/L	5.00	-0.01	90	0-200			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E21014 - NO PREP

Blank (8E21014-BLK1) Prepared: 05/21/2008 12:09 Analyzed: 05/21/2008 18:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	4.7	U	15	mg/L							

LCS (8E21014-BS1) Prepared: 05/21/2008 12:09 Analyzed: 05/21/2008 18:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	99		15	mg/L	100		99	80-120			

Matrix Spike (8E21014-MS1) Prepared: 05/21/2008 12:09 Analyzed: 05/21/2008 18:51

Source: C804997-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100	3.6	101	80-120			

Matrix Spike Dup (8E21014-MSD1) Prepared: 05/21/2008 12:09 Analyzed: 05/21/2008 18:52

Source: C804997-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100	3.6	100	80-120	1	25	

Batch 8E21015 - NO PREP

Blank (8E21015-BLK1) Prepared: 05/21/2008 12:14 Analyzed: 05/21/2008 15:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	**1.4**	**J**	5.0	mg/L							

LCS (8E21015-BS1) Prepared: 05/21/2008 12:14 Analyzed: 05/21/2008 15:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100	B	5.0	mg/L	100		101	80-120			

Matrix Spike (8E21015-MS1) Prepared: 05/21/2008 12:14 Analyzed: 05/21/2008 15:43

Source: C804997-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140	B	5.0	mg/L	100	38	100	80-120			

Matrix Spike Dup (8E21015-MSD1) Prepared: 05/21/2008 12:14 Analyzed: 05/21/2008 15:43

Source: C804997-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140	B	5.0	mg/L	100	38	100	80-120	0.3	25	

Batch 8E22010 - NO PREP

Blank (8E22010-BLK1) Prepared: 05/22/2008 13:00 Analyzed: 05/23/2008 12:42

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E22010 - NO PREP

Blank (8E22010-BLK1) Continued — Prepared: 05/22/2008 13:00 Analyzed: 05/23/2008 12:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (8E22010-BS1) — Prepared: 05/22/2008 13:00 Analyzed: 05/23/2008 12:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	290		10	mg/L	300		97	90-110			

Duplicate (8E22010-DUP1) — Prepared: 05/22/2008 13:00 Analyzed: 05/23/2008 12:42

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	270		10	mg/L		290			6	10	

Batch 8E22024 - NO PREP

Blank (8E22024-BLK1) — Prepared: 05/22/2008 15:39 Analyzed: 05/22/2008 18:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.05	U	5.0	mg/L							

LCS (8E22024-BS1) — Prepared: 05/22/2008 15:39 Analyzed: 05/22/2008 19:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	48		5.0	mg/L	50.0		95	90-110			

Matrix Spike (8E22024-MS1) — Prepared: 05/22/2008 15:39 Analyzed: 05/23/2008 08:29

Source: C805328-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	120	E	5.0	mg/L	50.0	64	113	90-110			QM-02

Matrix Spike Dup (8E22024-MSD1) — Prepared: 05/22/2008 15:39 Analyzed: 05/23/2008 08:58

Source: C805328-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	120	E	5.0	mg/L	50.0	64	115	90-110	0.8	10	QM-02

Batch 8E25003 - NO PREP

Blank (8E25003-BLK1) — Prepared: 05/25/2008 09:07 Analyzed: 05/25/2008 14:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.022	U	0.10	mg/L							

LCS (8E25003-BS1) — Prepared: 05/25/2008 09:07 Analyzed: 05/25/2008 14:15

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E25003 - NO PREP

LCS (8E25003-BS1) Continued Prepared: 05/25/2008 09:07 Analyzed: 05/25/2008 14:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		97	80-120			

Matrix Spike (8E25003-MS1) Prepared: 05/25/2008 09:07 Analyzed: 05/25/2008 14:19

Source: C805258-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4		0.10	mg/L	1.28	0.022 U	107	80-120			

Matrix Spike Dup (8E25003-MSD1) Prepared: 05/25/2008 09:07 Analyzed: 05/25/2008 14:21

Source: C805258-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.28	0.022 U	105	80-120	2	25	

Batch 8E25007 - Same

Blank (8E25007-BLK1) Prepared: 05/27/2008 10:30 Analyzed: 05/28/2008 10:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8E25007-BS1) Prepared: 05/27/2008 10:30 Analyzed: 05/28/2008 12:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		98	80-120			

Matrix Spike (8E25007-MS1) Prepared: 05/27/2008 10:30 Analyzed: 05/28/2008 10:47

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	3.0		0.10	mg/L	1.60	1.6	89	80-120			

Matrix Spike Dup (8E25007-MSD1) Prepared: 05/27/2008 10:30 Analyzed: 05/28/2008 10:48

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	3.1		0.10	mg/L	1.60	1.6	90	80-120	0.7	25	

Batch 8E27019 - NO PREP

Blank (8E27019-BLK1) Prepared: 05/27/2008 13:10 Analyzed: 05/28/2008 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8E27019-BS1) Prepared: 05/27/2008 13:10 Analyzed: 05/28/2008 14:47

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E27019 - NO PREP

LCS (8E27019-BS1) Continued Prepared: 05/27/2008 13:10 Analyzed: 05/28/2008 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	88		1.0	mg/L	80.0		110	82-119			

Duplicate (8E27019-DUP1) Prepared: 05/27/2008 13:10 Analyzed: 05/28/2008 14:47

Source: C805349-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	39		1.0	mg/L		40			3	10	

Batch 8E27026 - NO PREP

Blank (8E27026-BLK1) Prepared: 05/27/2008 13:05 Analyzed: 05/27/2008 17:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.05	U	5.0	mg/L							

LCS (8E27026-BS1) Prepared: 05/27/2008 13:05 Analyzed: 05/27/2008 18:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	46		5.0	mg/L	50.0		93	90-110			

Matrix Spike (8E27026-MS1) Prepared: 05/27/2008 13:05 Analyzed: 05/27/2008 19:56

Source: C805259-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	48		5.0	mg/L	50.0	2.0	93	90-110			

Matrix Spike Dup (8E27026-MSD1) Prepared: 05/27/2008 13:05 Analyzed: 05/27/2008 20:26

Source: C805259-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	49		5.0	mg/L	50.0	2.0	94	90-110	1	10	

Batch 8E29010 - NO PREP

Blank (8E29010-BLK1) Prepared & Analyzed: 05/29/2008 16:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	**0.022**	**J**	0.10	mg/L							J-01

LCS (8E29010-BS1) Prepared & Analyzed: 05/29/2008 16:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	4.9	B	0.10	mg/L	5.00		97	80-120			

Matrix Spike (8E29010-MS1) Prepared & Analyzed: 05/29/2008 16:25

Source: C801752-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E29010 - NO PREP

Matrix Spike (8E29010-MS1) Continued Prepared & Analyzed: 05/29/2008 16:25

Source: C801752-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	11	B	0.10	mg/L	5.00	6.5	82	80-120			

Matrix Spike Dup (8E29010-MSD1) Prepared & Analyzed: 05/29/2008 16:25

Source: C801752-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	11	B	0.10	mg/L	5.00	6.5	81	80-120	0.4	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10175 Dettrick Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 826-5845
4810 Enterprise Park Court, Suite 213 Jacksonville, FL 32210-6060 (904) 296-3007 Fax (904) 296-6210
1005 Poplar Ridge Way Cary, NC 27513 (919) 677-1669 Fax (919) 677-9515

Page 1 of 1

Client Name: Cambridge Assoc.	Project Number: 116 4360 000
Address: 501 Independence Pkwy #300	Project Name/Site: BAAG field FLY-ASH
City/State: Chesapeake, VA 23320	PO # / Billing Info:
Tel: 757-548-7300 Fax: 757-548-7300	Reporting Contact:
Sampler(s) Name, Affiliation (Print): M. Tarashchenko	Billing Contact: M. Tarashchenko
Sampler(s) Signature: M. Tarashchenko	Facility # (if required):

Requested Analyses: TSS, TDS, T-Phos, Chloride, Chlorine, Sulfate, NO3, Alkalinity, Sr, Ni, Cr, Hg, Pb, Tl, Cu, Mn, Be, Zn, Co, Ag, Cd, V, Sb, Ba, Fe, Na, Mg, K

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. X Standard ___ Expedited Due __/__/__

Lab Workorder: 0805307

Preservation (See Codes) (Continue as necessary)

Item #	Sample ID (Field Identifiers)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	TSS	TDS	T-Phos	Chloride	Chlorine	Sulfate	NO3	Alkalinity	Sr	Ni	Cr	Hg	Pb	Tl	Cu	Mn	Be	Zn	Co	Ag	Cd	V	Sb	Ba	Fe	Na	Mg	K	Sample Comments
	MW-1	5-20-08	12:41	C	GW	10	X	X	X	X	X	X	X	X	X	X																		
	MW-2	5-20-08	12:50	C	GW	10	X	X	X	X	X	X	X	X	X	X																		
	MW-3	5-20-08	1:05	C	GW	10	X	X	X	X	X	X	X	X	X	X																		

30 <-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		M. Tarashchenko	5/20/08	Biana Gregory	5/21/08 9:45
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler Rec'd Temp on Receipt: On Ice		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SD-Solid SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: Ice H HCl N HNO3 S H2SO4 NO-None O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, June 5, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Fly Ash
ENCO Workorder: C805328

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, May 21, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 17.

PROJECT NARRATIVE

Client: Kimley-Horn and Associates - VA[KI009]
Project: Fly Ash
ENCO Project ID: C805328

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling and processing will be discussed in the Remarks section below.

Remarks

Analysis: Chloride SM4500-Cl/E
Affected Samples: 8E21015-BLK1, WW-1[C805328-01], WW-2[C805328-02]
Description: MB results above MDL but below MRL; associated samples flagged with QB-01
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result is greater than ten times the concentration of the associated blank, the impact of this nonconformance is considered to be minimal.

Analysis: Sulfate EPA 300.0
Affected Samples: 8E22024-MS1, 8E22024-MSD1, WW-1[C805328-01], WW-2[C805328-02]
Explanation: The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Analysis: Fluoride EPA 340.2
Affected Samples: WW-1[C805328-01], WW-2[C805328-02]
Description: MB results above MDL but below MRL; associated samples flagged with QB-01
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result is greater than ten times the concentration of the associated blank, the impact of this nonconformance is considered to be minimal.
Explanation: MB results above MDL but below MRL; associated samples flagged with QB-01

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: WW-1 Lab ID: C805328-01 Sampled: 05/19/08 13:28 Received: 05/21/08 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	05/26/08	05/22/08	13:00	5/23/2008 12:42
EPA 160.2	05/26/08	05/22/08	14:00	5/23/2008 16:50
EPA 300.0	06/16/08	05/22/08	15:39	5/23/2008 07:29
EPA 310.2	06/02/08	05/21/08	12:09	5/21/2008 19:00
EPA 340.2	06/16/08	05/29/08	16:25	5/29/2008 16:25
EPA 353.2	06/16/08	05/25/08	09:07	5/25/2008 15:02
EPA 365.4	06/16/08	05/27/08	10:30	5/28/2008 10:52
EPA 6010B	11/15/08	05/22/08	07:40	6/3/2008 12:11
EPA 7470A	06/16/08	05/29/08	07:30	5/30/2008 13:27
SM4500-Cl/E	06/16/08	05/21/08	12:14	5/21/2008 15:48

Client ID: WW-2 Lab ID: C805328-02 Sampled: 05/19/08 13:30 Received: 05/21/08 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	05/26/08	05/22/08	13:00	5/23/2008 12:42
EPA 160.2	05/26/08	05/22/08	14:00	5/23/2008 16:50
EPA 300.0	06/16/08	05/22/08	15:39	5/23/2008 07:59
EPA 310.2	06/02/08	05/21/08	12:09	5/21/2008 19:00
EPA 340.2	06/16/08	05/29/08	16:25	5/29/2008 16:25
EPA 353.2	06/16/08	05/25/08	09:07	5/25/2008 15:04
EPA 365.4	06/16/08	05/27/08	10:30	5/28/2008 10:53
EPA 6010B	11/15/08	05/22/08	07:40	6/3/2008 12:18
EPA 7470A	06/16/08	05/29/08	07:30	5/30/2008 13:31
SM4500-Cl/E	06/16/08	05/21/08	12:14	5/21/2008 15:49

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SAMPLE DETECTION SUMMARY

Client ID: WW-1 Lab ID: C805328-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	501		100	ug/L	EPA 6010B	
Barium	67.1		10.0	ug/L	EPA 6010B	
Boron	46.9	J	50.0	ug/L	EPA 6010B	
Calcium	33200		100	ug/L	EPA 6010B	
Chloride	40	B	5.0	mg/L	SM4500-Cl/E	QB-01
Copper	2.80	JB	10.0	ug/L	EPA 6010B	
Fluoride	0.28	B	0.10	mg/L	EPA 340.2	QB-01
Iron	539		50	ug/L	EPA 6010B	
Magnesium	8630		100	ug/L	EPA 6010B	
Manganese	14.7		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.37		0.10	mg/L	EPA 353.2	
Potassium	5210		500	ug/L	EPA 6010B	
Sodium	21600	B	500	ug/L	EPA 6010B	
Sulfate as SO4	64		5.0	mg/L	EPA 300.0	
Total Alkalinity	120		15	mg/L	EPA 310.2	
Total Dissolved Solids	230		10	mg/L	EPA 160.1	
Total Suspended Solids	3.6		1.0	mg/L	EPA 160.2	
Zinc	25.1		10.0	ug/L	EPA 6010B	

Client ID: WW-2 Lab ID: C805328-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	431		100	ug/L	EPA 6010B	
Barium	67.6		10.0	ug/L	EPA 6010B	
Boron	48.0	J	50.0	ug/L	EPA 6010B	
Calcium	33600		100	ug/L	EPA 6010B	
Chloride	39	B	5.0	mg/L	SM4500-Cl/E	QB-01
Copper	1.80	JB	10.0	ug/L	EPA 6010B	
Fluoride	0.29	B	0.10	mg/L	EPA 340.2	QB-01
Iron	459		50	ug/L	EPA 6010B	
Magnesium	8700		100	ug/L	EPA 6010B	
Manganese	12.3		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.37		0.10	mg/L	EPA 353.2	
Potassium	5400		500	ug/L	EPA 6010B	
Sodium	21500	B	500	ug/L	EPA 6010B	
Sulfate as SO4	64		5.0	mg/L	EPA 300.0	
Total Alkalinity	45		15	mg/L	EPA 310.2	
Total Dissolved Solids	240		10	mg/L	EPA 160.1	
Total Suspended Solids	3.1		1.0	mg/L	EPA 160.2	
Zinc	35.5		10.0	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: WW-1
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C805328-01
Sampled: 05/19/08 13:28
Sampled By: Mike Iwashchenko

Received: 05/21/08 09:45
Work Order: C805328

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**501**		ug/L	1	50	100	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Barium [7440-39-3] ^	**67.1**		ug/L	1	0.20	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Boron [7440-42-8] ^	**46.9**	J	ug/L	1	4.0	50.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Calcium [7440-70-2] ^	**33200**		ug/L	1	7.0	100	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Copper [7440-50-8] ^	**2.80**	JB	ug/L	1	0.60	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Iron [7439-89-6] ^	**539**		ug/L	1	20	50	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Magnesium [7439-95-4] ^	**8630**		ug/L	1	20	100	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Manganese [7439-96-5] ^	**14.7**		ug/L	1	1.4	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E29004	EPA 7470A	05/30/08 13:27	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Nickel [7440-02-0] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Potassium [7440-09-7] ^	**5210**		ug/L	1	50	500	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Sodium [7440-23-5] ^	**21600**	B	ug/L	1	200	500	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	
Zinc [7440-66-6] ^	**25.1**		ug/L	1	1.0	10.0	8E22002	EPA 6010B	06/03/08 12:11	VLO	

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Description: WW-1
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C805328-01
Sampled: 05/19/08 13:28
Sampled By: Mike Iwashchenko

Received: 05/21/08 09:45
Work Order: C805328

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**40**	B	mg/L	1	0.48	5.0	8E21015	SM4500-Cl/E	05/21/08 15:48	PEV	QB-01
Fluoride [16984-48-8]	**0.28**	B	mg/L	1	0.0053	0.10	8E29010	EPA 340.2	05/29/08 16:25	JOC	QB-01
Nitrate/Nitrite as N [NA]	**0.37**		mg/L	1	0.022	0.10	8E25003	EPA 353.2	05/25/08 15:02	PEV	
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8E25007	EPA 365.4	05/28/08 10:52	PEV	
Sulfate as SO4 [14808-79-8]	**64**		mg/L	1	0.05	5.0	8E22024	EPA 300.0	05/23/08 07:29	AJ	
Total Alkalinity [NA]	**120**		mg/L	1	4.7	15	8E21014	EPA 310.2	05/21/08 19:00	PEV	
Total Dissolved Solids [NA]	**230**		mg/L	1	10	10	8E22010	EPA 160.1	05/23/08 12:42	JOC	
Total Suspended Solids [NA]	**3.6**		mg/L	1	1.0	1.0	8E22018	EPA 160.2	05/23/08 16:50	FLT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: WW-2
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C805328-02
Sampled: 05/19/08 13:30
Sampled By: Mike Iwashchenko

Received: 05/21/08 09:45
Work Order: C805328

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**431**		ug/L	1	50	100	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Antimony [7440-36-0] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Barium [7440-39-3] ^	**67.6**		ug/L	1	0.20	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Boron [7440-42-8] ^	**48.0**	J	ug/L	1	4.0	50.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Calcium [7440-70-2] ^	**33600**		ug/L	1	7.0	100	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Copper [7440-50-8] ^	**1.80**	JB	ug/L	1	0.60	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Iron [7439-89-6] ^	**459**		ug/L	1	20	50	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Magnesium [7439-95-4] ^	**8700**		ug/L	1	20	100	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Manganese [7439-96-5] ^	**12.3**		ug/L	1	1.4	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8E29004	EPA 7470A	05/30/08 13:31	MPL	
Molybdenum [7439-98-7] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Nickel [7440-02-0] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Potassium [7440-09-7] ^	**5400**		ug/L	1	50	500	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Sodium [7440-23-5] ^	**21500**	B	ug/L	1	200	500	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Thallium [7440-28-0] ^	4.0	U	ug/L	1	4.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	
Zinc [7440-66-6] ^	**35.5**		ug/L	1	1.0	10.0	8E22002	EPA 6010B	06/03/08 12:18	VLO	

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Description: WW-2
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C805328-02
Sampled: 05/19/08 13:30
Sampled By: Mike Iwashchenko

Received: 05/21/08 09:45
Work Order: C805328

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**39**	B	mg/L	1	0.48	5.0	8E21015	SM4500-Cl/E	05/21/08 15:49	PEV	QB-01
Fluoride [16984-48-8]	**0.29**	B	mg/L	1	0.0053	0.10	8E29010	EPA 340.2	05/29/08 16:25	JOC	QB-01
Nitrate/Nitrite as N [NA]	**0.37**		mg/L	1	0.022	0.10	8E25003	EPA 353.2	05/25/08 15:04	PEV	
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8E25007	EPA 365.4	05/28/08 10:53	PEV	
Sulfate as SO4 [14808-79-8]	**64**		mg/L	1	0.05	5.0	8E22024	EPA 300.0	05/23/08 07:59	AJ	
Total Alkalinity [NA]	**45**		mg/L	1	4.7	15	8E21014	EPA 310.2	05/21/08 19:00	PEV	
Total Dissolved Solids [NA]	**240**		mg/L	1	10	10	8E22010	EPA 160.1	05/23/08 12:42	JOC	
Total Suspended Solids [NA]	**3.1**		mg/L	1	1.0	1.0	8E22018	EPA 160.2	05/23/08 16:50	FLT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E22002 - EPA 3005A

Blank (8E22002-BLK1) Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	50	U	100	ug/L							
Antimony	2.0	U	10.0	ug/L							
Arsenic	2.0	U	10.0	ug/L							
Barium	0.20	U	10.0	ug/L							
Beryllium	0.70	U	1.00	ug/L							
Boron	4.0	U	50.0	ug/L							
Cadmium	0.50	U	1.00	ug/L							
Calcium	7.0	U	100	ug/L							
Chromium	**4.4**	**J**	10.0	ug/L							
Cobalt	2.0	U	10.0	ug/L							
Copper	**0.90**	**J**	10.0	ug/L							
Iron	20	U	50	ug/L							
Lead	2.0	U	10.0	ug/L							
Magnesium	20	U	100	ug/L							
Manganese	1.4	U	10.0	ug/L							
Molybdenum	2.0	U	10.0	ug/L							
Nickel	2.0	U	10.0	ug/L							
Potassium	50	U	500	ug/L							
Selenium	2.0	U	10.0	ug/L							
Silver	2.0	U	10.0	ug/L							
Sodium	**297**	**J**	500	ug/L							
Thallium	4.0	U	10.0	ug/L							
Vanadium	**1.1**	**J**	10.0	ug/L							
Zinc	1.0	U	10.0	ug/L							

LCS (8E22002-BS1) Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	4880		100	ug/L	5000		98	77-130			
Antimony	253		10.0	ug/L	250		101	82-119			
Arsenic	511		10.0	ug/L	500		102	82-117			
Barium	516		10.0	ug/L	500		103	72-125			
Beryllium	260		1.00	ug/L	250		104	75-121			
Boron	514		50.0	ug/L	500		103	75-122			
Cadmium	261		1.00	ug/L	250		104	72-120			
Calcium	5030		100	ug/L	5000		101	81-111			
Chromium	509	B	10.0	ug/L	500		102	78-119			
Cobalt	508		10.0	ug/L	500		102	76-117			
Copper	251	B	10.0	ug/L	250		100	80-117			
Iron	5090		50	ug/L	5000		102	84-133			
Lead	509		10.0	ug/L	500		102	72-121			
Magnesium	5350		100	ug/L	5000		107	81-117			
Manganese	252		10.0	ug/L	250		101	76-123			
Molybdenum	239		10.0	ug/L	250		95	83-112			
Nickel	517		10.0	ug/L	500		103	78-116			
Potassium	22500		500	ug/L	25000		90	84-112			
Selenium	525		10.0	ug/L	500		105	82-127			
Silver	49.8		10.0	ug/L	50.0		100	80-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E22002 - EPA 3005A

LCS (8E22002-BS1) Continued

Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	22900	B	500	ug/L	25000		92	81-120			
Thallium	259		10.0	ug/L	250		104	79-118			
Vanadium	244	B	10.0	ug/L	250		98	78-117			
Zinc	512		10.0	ug/L	500		102	80-120			

Matrix Spike (8E22002-MS1)

Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:34

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	104000		100	ug/L	5000	86700	355	78-125			QM-07
Antimony	70.1		10.0	ug/L	250	2.0 U	28	38-138			QM-07
Arsenic	506		10.0	ug/L	500	64.6	88	64-126			
Barium	771		10.0	ug/L	500	284	97	74-119			
Beryllium	240		1.00	ug/L	250	3.80	95	70-131			
Boron	570		50.0	ug/L	500	113	91	77-114			
Cadmium	206		1.00	ug/L	250	0.50 U	82	68-121			
Calcium	51900		100	ug/L	5000	47800	84	63-131			
Chromium	648	B	10.0	ug/L	500	187	92	73-120			
Cobalt	528		10.0	ug/L	500	76.0	90	76-120			
Copper	245	B	10.0	ug/L	250	9.60	94	75-123			
Iron	162000		50	ug/L	5000	157000	112	48-144			
Lead	515		10.0	ug/L	500	67.9	89	68-126			
Magnesium	36100		100	ug/L	5000	31000	102	59-129			
Manganese	1530		10.0	ug/L	250	1330	83	55-146			
Molybdenum	151		10.0	ug/L	250	2.0 U	60	72-118			QM-07
Nickel	631		10.0	ug/L	500	166	93	64-126			
Potassium	35900		500	ug/L	25000	9140	107	53-121			
Selenium	418		10.0	ug/L	500	2.0 U	84	65-129			
Silver	40.8		10.0	ug/L	50.0	2.0 U	82	69-121			
Sodium	40700	B	500	ug/L	25000	15100	103	29-171			
Thallium	189		10.0	ug/L	250	4.0 U	76	67-135			
Vanadium	461	B	10.0	ug/L	250	232	92	71-130			
Zinc	959		10.0	ug/L	500	510	90	63-131			

Matrix Spike Dup (8E22002-MSD1)

Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:41

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	106000		100	ug/L	5000	86700	393	78-125	2	22	QM-07
Antimony	63.2		10.0	ug/L	250	2.0 U	25	38-138	10	30	QM-07
Arsenic	520		10.0	ug/L	500	64.6	91	64-126	3	12	
Barium	790		10.0	ug/L	500	284	101	74-119	2	11	
Beryllium	246		1.00	ug/L	250	3.80	97	70-131	2	21	
Boron	584		50.0	ug/L	500	113	94	77-114	2	11	
Cadmium	211		1.00	ug/L	250	0.50 U	85	68-121	3	12	
Calcium	53100		100	ug/L	5000	47800	108	63-131	2	22	
Chromium	660	B	10.0	ug/L	500	187	95	73-120	2	10	
Cobalt	540		10.0	ug/L	500	76.0	93	76-120	2	17	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E22002 - EPA 3005A

Matrix Spike Dup (8E22002-MSD1) Continued Prepared: 05/22/2008 07:40 Analyzed: 06/03/2008 11:41

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	250	B	10.0	ug/L	250	9.60	96	75-123	2	16	
Iron	166000		50	ug/L	5000	157000	190	48-144	2	23	QM-07
Lead	530		10.0	ug/L	500	67.9	92	68-126	3	19	
Magnesium	36800		100	ug/L	5000	31000	115	59-129	2	22	
Manganese	1570		10.0	ug/L	250	1330	96	55-146	2	19	
Molybdenum	154		10.0	ug/L	250	2.0 U	62	72-118	2	12	QM-07
Nickel	646		10.0	ug/L	500	166	96	64-126	2	12	
Potassium	36400		500	ug/L	25000	9140	109	53-121	2	20	
Selenium	430		10.0	ug/L	500	2.0 U	86	65-129	3	10	
Silver	40.8		10.0	ug/L	50.0	2.0 U	82	69-121	0	12	
Sodium	41700	B	500	ug/L	25000	15100	106	29-171	2	21	
Thallium	195		10.0	ug/L	250	4.0 U	78	67-135	3	13	
Vanadium	470	B	10.0	ug/L	250	232	95	71-130	2	16	
Zinc	980		10.0	ug/L	500	510	94	63-131	2	24	

Batch 8E29004 - EPA 7470A

Blank (8E29004-BLK1) Prepared: 05/29/2008 07:30 Analyzed: 05/30/2008 11:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8E29004-BS1) Prepared: 05/29/2008 07:30 Analyzed: 05/30/2008 12:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.20		0.20	ug/L	5.00		104	87-123			

Matrix Spike (8E29004-MS1) Prepared: 05/29/2008 07:30 Analyzed: 05/30/2008 12:08

Source: C805506-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.44		0.20	ug/L	5.00	0.11 U	89	63-132			

Matrix Spike Dup (8E29004-MSD1) Prepared: 05/29/2008 07:30 Analyzed: 05/30/2008 12:11

Source: C805506-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.27		0.20	ug/L	5.00	0.11 U	85	63-132	4	10	

Post Spike (8E29004-PS1) Prepared: 05/29/2008 07:30 Analyzed: 05/30/2008 12:14

Source: C805506-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.47		0.20	ug/L	5.00	-0.01	90	0-200			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E21014 - NO PREP

Blank (8E21014-BLK1) Prepared: 05/21/2008 12:09 Analyzed: 05/21/2008 18:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	4.7	U	15	mg/L							

LCS (8E21014-BS1) Prepared: 05/21/2008 12:09 Analyzed: 05/21/2008 18:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	99		15	mg/L	100		99	80-120			

Matrix Spike (8E21014-MS1) Prepared: 05/21/2008 12:09 Analyzed: 05/21/2008 18:51

Source: C804997-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100	3.6	101	80-120			

Matrix Spike Dup (8E21014-MSD1) Prepared: 05/21/2008 12:09 Analyzed: 05/21/2008 18:52

Source: C804997-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100	3.6	100	80-120	1	25	

Batch 8E21015 - NO PREP

Blank (8E21015-BLK1) Prepared: 05/21/2008 12:14 Analyzed: 05/21/2008 15:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	1.4	J	5.0	mg/L							

LCS (8E21015-BS1) Prepared: 05/21/2008 12:14 Analyzed: 05/21/2008 15:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100	B	5.0	mg/L	100		101	80-120			

Matrix Spike (8E21015-MS1) Prepared: 05/21/2008 12:14 Analyzed: 05/21/2008 15:43

Source: C804997-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140	B	5.0	mg/L	100	38	100	80-120			

Matrix Spike Dup (8E21015-MSD1) Prepared: 05/21/2008 12:14 Analyzed: 05/21/2008 15:43

Source: C804997-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140	B	5.0	mg/L	100	38	100	80-120	0.3	25	

Batch 8E22010 - NO PREP

Blank (8E22010-BLK1) Prepared: 05/22/2008 13:00 Analyzed: 05/23/2008 12:42

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E22010 - NO PREP

Blank (8E22010-BLK1) Continued Prepared: 05/22/2008 13:00 Analyzed: 05/23/2008 12:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (8E22010-BS1) Prepared: 05/22/2008 13:00 Analyzed: 05/23/2008 12:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	290		10	mg/L	300		97	90-110			

Duplicate (8E22010-DUP1) Prepared: 05/22/2008 13:00 Analyzed: 05/23/2008 12:42

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	270		10	mg/L		290			6	10	

Batch 8E22018 - NO PREP

Blank (8E22018-BLK1) Prepared: 05/22/2008 14:00 Analyzed: 05/23/2008 16:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8E22018-BS1) Prepared: 05/22/2008 14:00 Analyzed: 05/23/2008 16:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	85		1.0	mg/L	80.0		106	82-119			

Duplicate (8E22018-DUP1) Prepared: 05/22/2008 14:00 Analyzed: 05/23/2008 16:50

Source: C804219-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	5200		1.0	mg/L		5400			3	10	

Batch 8E22024 - NO PREP

Blank (8E22024-BLK1) Prepared: 05/22/2008 15:39 Analyzed: 05/22/2008 18:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.05	U	5.0	mg/L							

LCS (8E22024-BS1) Prepared: 05/22/2008 15:39 Analyzed: 05/22/2008 19:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	48		5.0	mg/L	50.0		95	90-110			

Matrix Spike (8E22024-MS1) Prepared: 05/22/2008 15:39 Analyzed: 05/23/2008 08:29

Source: C805328-02

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E22024 - NO PREP

Matrix Spike (8E22024-MS1) Continued Prepared: 05/22/2008 15:39 Analyzed: 05/23/2008 08:29

Source: C805328-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	120	E	5.0	mg/L	50.0	64	113	90-110			QM-02

Matrix Spike Dup (8E22024-MSD1) Prepared: 05/22/2008 15:39 Analyzed: 05/23/2008 08:58

Source: C805328-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	120	E	5.0	mg/L	50.0	64	115	90-110	0.8	10	QM-02

Batch 8E25003 - NO PREP

Blank (8E25003-BLK1) Prepared: 05/25/2008 09:07 Analyzed: 05/25/2008 14:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.022	U	0.10	mg/L							

LCS (8E25003-BS1) Prepared: 05/25/2008 09:07 Analyzed: 05/25/2008 14:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		97	80-120			

Matrix Spike (8E25003-MS1) Prepared: 05/25/2008 09:07 Analyzed: 05/25/2008 14:19

Source: C805258-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4		0.10	mg/L	1.28	0.022 U	107	80-120			

Matrix Spike Dup (8E25003-MSD1) Prepared: 05/25/2008 09:07 Analyzed: 05/25/2008 14:21

Source: C805258-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.28	0.022 U	105	80-120	2	25	

Batch 8E25007 - Same

Blank (8E25007-BLK1) Prepared: 05/27/2008 10:30 Analyzed: 05/28/2008 10:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8E25007-BS1) Prepared: 05/27/2008 10:30 Analyzed: 05/28/2008 12:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		98	80-120			

Matrix Spike (8E25007-MS1) Prepared: 05/27/2008 10:30 Analyzed: 05/28/2008 10:47

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E25007 - Same

Matrix Spike (8E25007-MS1) Continued Prepared: 05/27/2008 10:30 Analyzed: 05/28/2008 10:47

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	3.0		0.10	mg/L	1.60	1.6	89	80-120			

Matrix Spike Dup (8E25007-MSD1) Prepared: 05/27/2008 10:30 Analyzed: 05/28/2008 10:48

Source: C805327-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	3.1		0.10	mg/L	1.60	1.6	90	80-120	0.7	25	

Batch 8E29010 - NO PREP

Blank (8E29010-BLK1) Prepared & Analyzed: 05/29/2008 16:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.022	J	0.10	mg/L							J-01

LCS (8E29010-BS1) Prepared & Analyzed: 05/29/2008 16:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	4.9	B	0.10	mg/L	5.00		97	80-120			

Matrix Spike (8E29010-MS1) Prepared & Analyzed: 05/29/2008 16:25

Source: C801752-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	11	B	0.10	mg/L	5.00	6.5	82	80-120			

Matrix Spike Dup (8E29010-MSD1) Prepared & Analyzed: 05/29/2008 16:25

Source: C801752-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	11	B	0.10	mg/L	5.00	6.5	81	80-120	0.4	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 211 Jacksonville, FL 32210-0000 (904) 296-3007 Fax (904) 296-6210
1005 Parsons Way Cary, NC 27543 (919) 677-1609 Fax (919) 677-0346

Page 1 of 1

Client Name: Kimley-Horn & Assoc	Project Number: 116436.000
Address: 501 Independence Pkwy #300	Project Name/Desc: Battlefield Fly-Ash
City/ST/Zip: Chesapeake VA 23320	PO # / Billing Info:
Tel: 757-548-7300 Fax: 757-548-7301	Reporting Contact:
Sampler(s) Name, Affiliation (Print): M. Iwashchenko	Billing Contact: M. Iwashchenko
Sampler(s) Signature: M. Iwashchenko	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

X Standard

__ Expedited

Due __/__/__

Lab Workorder: C805328

Preservation (See Codes) (Continue as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	TSS, TDS, T-Phos	Ftounde	Chloride	Sulfate, NOx	Alkalinity	Se, Ni, C, Pb, Hg, As, Cu, Cr, Mn, Ba, Co, B, Mo	Sn, Br, Ag, V	Al, Mg, K, Na		Sample Comments
	WW-1	5-19-08	1:28	C	GW	10	X	X	X	X	X	X	X	X	X	
	WW-2	5-19-08	1:30	C	GW	10	X	X	X	X	X	X	X	X	X	
						20	<-- Total # of Containers									

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		M. Iwashchenko	5/20/08 4:12	Briana Gregory	5/21/08 9:45
Comments: N- well, no hose let water run full blast for 11 minutes		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Coolers & Temps on Receipt: On Ice		Condition Upon Receipt: __ Acceptable __ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: Hcl: HHO NaHSO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Laboratories are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

www.encolabs.com

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Monday, June 9, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: 116436000, Project Name/Desc: Fly Ash
ENCO Workorder: C805399

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, May 23, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 22.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: HA-7 (TOP) Lab ID: C805399-01 Sampled: 05/19/08 15:00 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 18:04
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 18:04
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:30

Client ID: HA-7 (MID) Lab ID: C805399-02 Sampled: 05/19/08 15:00 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 18:29
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 18:29
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:32

Client ID: HA-7 (BASE) Lab ID: C805399-03 Sampled: 05/19/08 16:00 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 18:36
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 18:36
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:33

Client ID: HA-8 (TOP) Lab ID: C805399-04 Sampled: 05/19/08 16:00 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:40	6/6/2008 15:02
EPA 6010B	11/15/08	11/30/08	06/03/08	13:40	6/6/2008 15:02
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:35

Client ID: HA-8 (MID) Lab ID: C805399-05 Sampled: 05/19/08 16:00 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:40	6/6/2008 15:09
EPA 6010B	11/15/08	11/30/08	06/03/08	13:40	6/6/2008 15:09
EPA 7470A	06/16/08		06/02/08	12:06	6/3/2008 11:02

Client ID: HA-8 (BASE) Lab ID: C805399-06 Sampled: 05/19/08 17:08 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:40	6/6/2008 15:15
EPA 6010B	11/15/08	11/30/08	06/03/08	13:40	6/6/2008 15:15
EPA 7470A	06/16/08		06/02/08	12:06	6/3/2008 11:07

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SAMPLE DETECTION SUMMARY

Client ID: HA-7 (TOP) Lab ID: C805399-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	10.6	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0226		0.0200	mg/L	EPA 6010B	
Arsenic	0.0835		0.0100	mg/L	EPA 6010B	
Barium	0.138		0.0100	mg/L	EPA 6010B	
Boron	0.430		0.0100	mg/L	EPA 6010B	
Calcium	53.5	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0099	JB	0.0100	mg/L	EPA 6010B	J-01, QB-01
Magnesium	0.149	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.123	B	0.0020	mg/L	EPA 6010B	QB-01
Potassium	7.36		0.500	mg/L	EPA 6010B	
Selenium	0.121	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	64.4		0.500	mg/L	EPA 6010B	
Vanadium	0.0810		0.0100	mg/L	EPA 6010B	
Zinc	0.0057	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-7 (MID) Lab ID: C805399-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	8.67	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0301		0.0200	mg/L	EPA 6010B	
Arsenic	0.135		0.0100	mg/L	EPA 6010B	
Barium	0.146		0.0100	mg/L	EPA 6010B	
Boron	0.570		0.0100	mg/L	EPA 6010B	
Calcium	56.0	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0040	JB	0.0100	mg/L	EPA 6010B	J-01
Magnesium	0.151	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.170	B	0.0020	mg/L	EPA 6010B	QB-01
Potassium	10.7		0.500	mg/L	EPA 6010B	
Selenium	0.164	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	72.3		0.500	mg/L	EPA 6010B	
Vanadium	0.0739		0.0100	mg/L	EPA 6010B	

Client ID: HA-7 (BASE) Lab ID: C805399-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	10.1	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0230		0.0200	mg/L	EPA 6010B	
Arsenic	0.114		0.0100	mg/L	EPA 6010B	
Barium	0.178		0.0100	mg/L	EPA 6010B	
Boron	0.416		0.0100	mg/L	EPA 6010B	
Calcium	58.1	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0046	JB	0.0100	mg/L	EPA 6010B	J-01
Magnesium	0.109	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.135	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0009	JB	0.0500	mg/L	EPA 6010B	J-01
Potassium	7.13		0.500	mg/L	EPA 6010B	
Selenium	0.118	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	69.2		0.500	mg/L	EPA 6010B	
Vanadium	0.0631		0.0100	mg/L	EPA 6010B	

Client ID: HA-8 (TOP) Lab ID: C805399-04

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	7.41		0.200	mg/L	EPA 6010B	
Antimony	0.0242		0.0200	mg/L	EPA 6010B	
Arsenic	0.0974		0.0100	mg/L	EPA 6010B	
Barium	0.126		0.0100	mg/L	EPA 6010B	
Boron	0.528	B	0.0100	mg/L	EPA 6010B	QB-01
Calcium	49.9	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0061	JB	0.0100	mg/L	EPA 6010B	J-01
Iron	0.0080	J	0.0500	mg/L	EPA 6010B	
Magnesium	0.133	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.158	B	0.0020	mg/L	EPA 6010B	QB-01
Potassium	7.25		0.500	mg/L	EPA 6010B	
Selenium	0.130		0.0100	mg/L	EPA 6010B	
Sodium	65.9	B	0.500	mg/L	EPA 6010B	QB-01
Vanadium	0.101		0.0100	mg/L	EPA 6010B	

Client ID: HA-8 (MID) Lab ID: C805399-05

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	17.4		0.200	mg/L	EPA 6010B	
Antimony	0.0208		0.0200	mg/L	EPA 6010B	
Arsenic	0.0564		0.0100	mg/L	EPA 6010B	
Barium	0.128		0.0100	mg/L	EPA 6010B	
Boron	0.256	B	0.0100	mg/L	EPA 6010B	QB-01
Calcium	51.3	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0083	JB	0.0100	mg/L	EPA 6010B	J-01
Magnesium	0.120	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.170	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0010	J	0.0500	mg/L	EPA 6010B	
Potassium	17.0		0.500	mg/L	EPA 6010B	
Selenium	0.0590		0.0100	mg/L	EPA 6010B	
Sodium	64.4	B	0.500	mg/L	EPA 6010B	QB-01
Vanadium	0.0849		0.0100	mg/L	EPA 6010B	
Zinc	0.0049	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-8 (BASE) Lab ID: C805399-06

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	2.22		0.200	mg/L	EPA 6010B	
Antimony	0.0174	J	0.0200	mg/L	EPA 6010B	
Arsenic	0.121		0.0100	mg/L	EPA 6010B	
Barium	0.153		0.0100	mg/L	EPA 6010B	
Boron	0.366	B	0.0100	mg/L	EPA 6010B	QB-01
Calcium	21.6	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0055	JB	0.0100	mg/L	EPA 6010B	J-01
Iron	0.554		0.0500	mg/L	EPA 6010B	
Magnesium	1.22		0.500	mg/L	EPA 6010B	
Manganese	0.0014	J	0.0020	mg/L	EPA 6010B	
Molybdenum	0.0540	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0015	J	0.0500	mg/L	EPA 6010B	
Potassium	1.46		0.500	mg/L	EPA 6010B	
Selenium	0.0465		0.0100	mg/L	EPA 6010B	
Sodium	29.3	B	0.500	mg/L	EPA 6010B	QB-01
Vanadium	0.0841		0.0100	mg/L	EPA 6010B	

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Client ID: HA-8 (BASE) LIMS ID: C805399-06

Analyte	Results	Flag	MRL	Units	Method	Notes
Zinc	0.0185	J	0.0200	mg/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: HA-7 (TOP)
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C805399-01
Sampled: 05/19/08 15:00
Sampled By: Mike Iwashchenko

Received: 05/23/08 11:05
Work Order: C805399
% Solids:

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**10.6**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 18:04	ACV	Q8-01
Antimony [7440-36-0] ^	**0.0226**		mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Arsenic [7440-38-2] ^	**0.0835**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Barium [7440-39-3] ^	**0.138**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Boron [7440-42-8] ^	**0.430**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Calcium [7440-70-2] ^	**53.5**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 18:04	ACV	Q8-01
Chromium [7440-47-3] ^	**0.0099**	JB	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	J-01, Q8-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Magnesium [7439-95-4] ^	**0.149**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:30	RBN	
Molybdenum [7439-98-7] ^	**0.123**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 18:04	ACV	Q8-01
Nickel [7440-02-0] ^	0.0008	U	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 18:04	ACV	J-01
Potassium [7440-09-7] ^	**7.36**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Selenium [7782-49-2] ^	**0.121**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	Q8-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Sodium [7440-23-5] ^	**64.4**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Vanadium [7440-62-2] ^	**0.0810**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:04	ACV	
Zinc [7440-66-6] ^	**0.0057**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 18:04	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	HA-7 (MID)	**Lab Sample ID:**	C805399-02	**Received:**	05/23/08 11:05
Matrix:	Soil	**Sampled:**	05/19/08 15:00	**Work Order:**	C805399
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**8.67**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 18:29	ACV	QB-01
Antimony [7440-36-0] ^	**0.0301**		mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Arsenic [7440-38-2] ^	**0.135**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Barium [7440-39-3] ^	**0.146**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Boron [7440-42-8] ^	**0.570**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Calcium [7440-70-2] ^	**56.0**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 18:29	ACV	QB-01
Chromium [7440-47-3] ^	**0.0040**	JB	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	J-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Magnesium [7439-95-4] ^	**0.151**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:32	RBN	
Molybdenum [7439-98-7] ^	**0.170**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 18:29	ACV	QB-01
Nickel [7440-02-0] ^	0.0008	U	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 18:29	ACV	J-01
Potassium [7440-09-7] ^	**10.7**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Selenium [7782-49-2] ^	**0.164**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	QB-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Sodium [7440-23-5] ^	**72.3**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Vanadium [7440-62-2] ^	**0.0739**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:29	ACV	
Zinc [7440-66-6] ^	0.0029	U	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 18:29	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	HA-7 (BASE)	**Lab Sample ID:**	C805399-03	**Received:**	05/23/08 11:05
Matrix:	Soil	**Sampled:**	05/19/08 16:00	**Work Order:**	C805399
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**10.1**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 18:36	ACV	QB-01
Antimony [7440-36-0] ^	**0.0230**		mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Arsenic [7440-38-2] ^	**0.114**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Barium [7440-39-3] ^	**0.178**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Boron [7440-42-8] ^	**0.416**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Calcium [7440-70-2] ^	**58.1**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 18:36	ACV	QB-01
Chromium [7440-47-3] ^	**0.0046**	JB	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	J-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Magnesium [7439-95-4] ^	**0.109**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:33	RBN	
Molybdenum [7439-98-7] ^	**0.135**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 18:36	ACV	QB-01
Nickel [7440-02-0] ^	**0.0009**	JB	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 18:36	ACV	J-01
Potassium [7440-09-7] ^	**7.13**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Selenium [7782-49-2] ^	**0.118**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	QB-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Sodium [7440-23-5] ^	**69.2**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Vanadium [7440-62-2] ^	**0.0631**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 18:36	ACV	
Zinc [7440-66-6] ^	0.0029	U	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 18:36	ACV	

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Description:	HA-8 (TOP)	**Lab Sample ID:**	C805399-04	**Received:**	05/23/08 11:05
Matrix:	Soil	**Sampled:**	05/19/08 16:00	**Work Order:**	C805399
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**7.41**		mg/L	1	0.0220	0.200	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Antimony [7440-36-0] ^	**0.0242**		mg/L	1	0.0031	0.0200	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Arsenic [7440-38-2] ^	**0.0974**		mg/L	1	0.0024	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Barium [7440-39-3] ^	**0.126**		mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Boron [7440-42-8] ^	**0.528**	B	mg/L	1	0.0019	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	QB-01
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Calcium [7440-70-2] ^	**49.9**	B	mg/L	1	0.0130	0.500	8F03019	EPA 6010B	06/06/08 15:02	ACV	QB-01
Chromium [7440-47-3] ^	**0.0061**	JB	mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	J-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Iron [7439-89-6] ^	**0.0080**	J	mg/L	1	0.0048	0.0500	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Magnesium [7439-95-4] ^	**0.133**	J	mg/L	1	0.0150	0.500	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:35	RBN	
Molybdenum [7439-98-7] ^	**0.158**	B	mg/L	1	0.0001	0.0020	8F03019	EPA 6010B	06/06/08 15:02	ACV	QB-01
Nickel [7440-02-0] ^	0.0008	U	mg/L	1	0.0008	0.0500	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Potassium [7440-09-7] ^	**7.25**		mg/L	1	0.054	0.500	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Selenium [7782-49-2] ^	**0.130**		mg/L	1	0.0037	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Sodium [7440-23-5] ^	**65.9**	B	mg/L	1	0.0380	0.500	8F03019	EPA 6010B	06/06/08 15:02	ACV	QB-01
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Vanadium [7440-62-2] ^	**0.101**		mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:02	ACV	
Zinc [7440-66-6] ^	0.0029	U	mg/L	1	0.0029	0.0200	8F03019	EPA 6010B	06/06/08 15:02	ACV	

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Description:	HA-8 (MID)	**Lab Sample ID:**	C805399-05	**Received:**	05/23/08 11:05
Matrix:	Soil	**Sampled:**	05/19/08 16:00	**Work Order:**	C805399
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**17.4**		mg/L	1	0.0220	0.200	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Antimony [7440-36-0] ^	**0.0208**		mg/L	1	0.0031	0.0200	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Arsenic [7440-38-2] ^	**0.0564**		mg/L	1	0.0024	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Barium [7440-39-3] ^	**0.128**		mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Boron [7440-42-8] ^	**0.256**	B	mg/L	1	0.0019	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	Q8-01
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Calcium [7440-70-2] ^	**51.3**	B	mg/L	1	0.0130	0.500	8F03019	EPA 6010B	06/06/08 15:09	ACV	Q8-01
Chromium [7440-47-3] ^	**0.0083**	JB	mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	J-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Magnesium [7439-95-4] ^	**0.120**	J	mg/L	1	0.0150	0.500	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02016	EPA 7470A	06/03/08 11:02	RBN	
Molybdenum [7439-98-7] ^	**0.170**	B	mg/L	1	0.0001	0.0020	8F03019	EPA 6010B	06/06/08 15:09	ACV	Q8-01
Nickel [7440-02-0] ^	**0.0010**	J	mg/L	1	0.0008	0.0500	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Potassium [7440-09-7] ^	**17.0**		mg/L	1	0.054	0.500	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Selenium [7782-49-2] ^	**0.0590**		mg/L	1	0.0037	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Sodium [7440-23-5] ^	**64.4**	B	mg/L	1	0.0380	0.500	8F03019	EPA 6010B	06/06/08 15:09	ACV	Q8-01
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Vanadium [7440-62-2] ^	**0.0849**		mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:09	ACV	
Zinc [7440-66-6] ^	**0.0049**	J	mg/L	1	0.0029	0.0200	8F03019	EPA 6010B	06/06/08 15:09	ACV	

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Description: HA-8 (BASE)
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C805399-06
Sampled: 05/19/08 17:08
Sampled By: Mike Iwashchenko

Received: 05/23/08 11:05
Work Order: C805399
% Solids:

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**2.22**		mg/L	1	0.0220	0.200	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Antimony [7440-36-0] ^	**0.0174**	J	mg/L	1	0.0031	0.0200	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Arsenic [7440-38-2] ^	**0.121**		mg/L	1	0.0024	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Barium [7440-39-3] ^	**0.153**		mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Boron [7440-42-8] ^	**0.366**	B	mg/L	1	0.0019	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	QB-01
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Calcium [7440-70-2] ^	**21.6**	B	mg/L	1	0.0130	0.500	8F03019	EPA 6010B	06/06/08 15:15	ACV	QB-01
Chromium [7440-47-3] ^	**0.0055**	JB	mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	J-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Iron [7439-89-6] ^	**0.554**		mg/L	1	0.0048	0.0500	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Magnesium [7439-95-4] ^	**1.22**		mg/L	1	0.0150	0.500	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Manganese [7439-96-5] ^	**0.0014**	J	mg/L	1	0.0002	0.0020	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02016	EPA 7470A	06/03/08 11:07	RBN	
Molybdenum [7439-98-7] ^	**0.0540**	B	mg/L	1	0.0001	0.0020	8F03019	EPA 6010B	06/06/08 15:15	ACV	QB-01
Nickel [7440-02-0] ^	**0.0015**	J	mg/L	1	0.0008	0.0500	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Potassium [7440-09-7] ^	**1.46**		mg/L	1	0.054	0.500	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Selenium [7782-49-2] ^	**0.0465**		mg/L	1	0.0037	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Sodium [7440-23-5] ^	**29.3**	B	mg/L	1	0.0380	0.500	8F03019	EPA 6010B	06/06/08 15:15	ACV	QB-01
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Vanadium [7440-62-2] ^	**0.0841**		mg/L	1	0.0004	0.0100	8F03019	EPA 6010B	06/06/08 15:15	ACV	
Zinc [7440-66-6] ^	**0.0185**	J	mg/L	1	0.0029	0.0200	8F03019	EPA 6010B	06/06/08 15:15	ACV	

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QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8F02015 - EPA 7470A

Blank (8F02015-BLK1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

Blank (8F02015-BLK2) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

LCS (8F02015-BS1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00529		0.00020	mg/L	0.00500		106	85-115			

Matrix Spike (8F02015-MS1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:47

Source: B803734-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00625		0.00020	mg/L	0.00500	0.000054 U	125	85-115			QM-14

Matrix Spike Dup (8F02015-MSD1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:49

Source: B803734-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00641		0.00020	mg/L	0.00500	0.000054 U	128	85-115	2	25	QM-14

Batch 8F02016 - EPA 7470A

Blank (8F02016-BLK1) Prepared: 06/02/2008 12:06 Analyzed: 06/03/2008 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

Blank (8F02016-BLK2) Prepared: 06/02/2008 12:06 Analyzed: 06/03/2008 10:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00054	U	0.00200	mg/L							

Blank (8F02016-BLK3) Prepared: 06/02/2008 12:06 Analyzed: 06/03/2008 10:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00054	U	0.00200	mg/L							

Blank (8F02016-BLK5) Prepared: 06/02/2008 12:06 Analyzed: 06/03/2008 10:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

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Batch 8F02016 - EPA 7470A

LCS (8F02016-BS1) Prepared: 06/02/2008 12:06 Analyzed: 06/03/2008 10:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00530		0.00020	mg/L	0.00500		106	85-115			

Matrix Spike (8F02016-MS1) Prepared: 06/02/2008 12:06 Analyzed: 06/03/2008 10:40

Source: B803567-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0651		0.00200	mg/L	0.0500	0.00054 U	130	85-115			QM-14

Matrix Spike Dup (8F02016-MSD1) Prepared: 06/02/2008 12:06 Analyzed: 06/03/2008 10:42

Source: B803567-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0633		0.00200	mg/L	0.0500	0.00054 U	127	85-115	3	25	QM-14

Batch 8F03018 - EPA 3010A

Blank (8F03018-BLK1) Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 12:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0220	U	0.200	mg/L							
Antimony	0.0031	U	0.0200	mg/L							
Arsenic	0.0024	U	0.0100	mg/L							
Barium	0.0004	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0019	U	0.0100	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0415**	**J**	0.500	mg/L							
Chromium	**0.0007**	**J**	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0002	U	0.0020	mg/L							
Molybdenum	**0.0007**	**J**	0.0020	mg/L							
Nickel	0.0008	U	0.0500	mg/L							
Potassium	0.054	U	0.500	mg/L							
Selenium	**0.0037**	**J**	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	0.0380	U	0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0029	U	0.0200	mg/L							

Blank (8F03018-BLK2) Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 15:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

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Batch 8F03018 - EPA 3010A

Blank (8F03018-BLK2) Continued Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 15:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**0.0222**	J	0.200	mg/L							
Antimony	0.0031	U	0.0200	mg/L							
Arsenic	0.0024	U	0.0100	mg/L							
Barium	0.0004	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0019	U	0.0100	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0431**	J	0.500	mg/L							
Chromium	**0.0011**	J	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0002	U	0.0020	mg/L							
Molybdenum	0.0001	U	0.0020	mg/L							
Nickel	**0.0012**	J	0.0500	mg/L							
Potassium	0.054	U	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	0.0380	U	0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0029	U	0.0200	mg/L							

Blank (8F03018-BLK3) Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 12:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.0155	U	0.100	mg/L							
Arsenic	0.0120	U	0.0500	mg/L							
Beryllium	0.0008	U	0.0050	mg/L							
Cadmium	0.0009	U	0.0050	mg/L							
Cobalt	0.0012	U	0.0500	mg/L							
Copper	0.0060	U	0.0500	mg/L							
Iron	0.0240	U	0.250	mg/L							
Lead	0.0080	U	0.0500	mg/L							
Molybdenum	0.0007	U	0.0100	mg/L							
Selenium	0.0185	U	0.0500	mg/L							
Silver	0.0020	U	0.0500	mg/L							
Thallium	0.0255	U	0.0500	mg/L							
Vanadium	0.0022	U	0.0500	mg/L							

LCS (8F03018-BS1) Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10.2	B	0.200	mg/L	10.0		102	84-119			
Antimony	0.523		0.0200	mg/L	0.500		105	87-111			
Arsenic	1.01		0.0100	mg/L	1.00		101	89-116			

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Batch 8F03018 - EPA 3010A

LCS (8F03018-BS1) Continued Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Barium	1.01		0.0100	mg/L	1.00		101	89-113			
Beryllium	0.501		0.0010	mg/L	0.500		100	90-111			
Boron	1.00		0.0100	mg/L	1.00		100	89-116			
Cadmium	0.507		0.0010	mg/L	0.500		101	90-112			
Calcium	10.0	B	0.500	mg/L	10.0		100	84-118			
Chromium	1.02	B	0.0100	mg/L	1.00		102	89-114			
Cobalt	1.03		0.0100	mg/L	1.00		103	90-114			
Copper	0.514		0.0100	mg/L	0.500		103	90-112			
Iron	10.0		0.0500	mg/L	10.0		100	90-110			
Lead	1.02		0.0100	mg/L	1.00		102	90-113			
Magnesium	10.1		0.500	mg/L	10.0		101	90-111			
Manganese	0.511		0.0020	mg/L	0.500		102	90-112			
Molybdenum	0.502	B	0.0020	mg/L	0.500		100	89-110			
Nickel	1.02	B	0.0500	mg/L	1.00		102	88-116			
Potassium	51.0		0.500	mg/L	50.0		102	90-110			
Selenium	1.04	B	0.0100	mg/L	1.00		104	90-118			
Silver	0.0968		0.0100	mg/L	0.100		97	87-112			
Sodium	51.7		0.500	mg/L	50.0		103	90-113			
Thallium	0.508		0.0100	mg/L	0.500		102	90-112			
Vanadium	0.504		0.0100	mg/L	0.500		101	88-114			
Zinc	1.03		0.0200	mg/L	1.00		103	88-116			

Matrix Spike (8F03018-MS1) Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:11

Source: B803749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	78.7	B	1.00	mg/L	50.0	26.7	104	84-119			
Antimony	2.60		0.100	mg/L	2.50	0.0204	103	87-111			
Arsenic	5.02		0.0500	mg/L	5.00	0.0120 U	100	89-116			
Barium	5.46		0.0500	mg/L	5.00	0.478	100	89-113			
Beryllium	2.49		0.0050	mg/L	2.50	0.0008 U	99	90-111			
Boron	6.83		0.0500	mg/L	5.00	1.85	100	89-116			
Cadmium	2.51		0.0050	mg/L	2.50	0.0009 U	100	90-112			
Calcium	58.4	B	2.50	mg/L	50.0	8.31	100	84-118			
Chromium	5.03	B	0.0500	mg/L	5.00	0.00820	100	89-114			
Cobalt	5.00		0.0500	mg/L	5.00	0.0012 U	100	90-114			
Copper	2.61		0.0500	mg/L	2.50	0.0060 U	104	90-112			
Iron	48.8		0.250	mg/L	50.0	0.0240 U	98	90-110			
Lead	5.09		0.0500	mg/L	5.00	0.00887	102	90-113			
Magnesium	51.2		2.50	mg/L	50.0	0.967	101	90-111			
Manganese	2.51		0.0100	mg/L	2.50	0.00260	100	90-112			
Molybdenum	2.50	B	0.0100	mg/L	2.50	0.00501	100	89-110			
Nickel	5.02	B	0.250	mg/L	5.00	0.0137	100	88-116			
Potassium	255		2.50	mg/L	250	1.93	101	90-110			
Selenium	5.24	B	0.0500	mg/L	5.00	0.0185 U	105	90-118			
Silver	0.487		0.0500	mg/L	0.500	0.0020 U	97	87-112			
Sodium	1730		2.50	mg/L	250	1460	108	90-113			
Thallium	2.47		0.0500	mg/L	2.50	0.0255 U	99	90-112			

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Batch 8F03018 - EPA 3010A

Matrix Spike (8F03018-MS1) Continued Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:11

Source: B803749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vanadium	2.50		0.0500	mg/L	2.50	0.0022 U	100	88-114			
Zinc	5.42		0.100	mg/L	5.00	0.227	104	88-116			

Matrix Spike Dup (8F03018-MSD1) Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:17

Source: B803749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	78.7	B	1.00	mg/L	50.0	26.7	104	84-119	0.02	25	
Antimony	2.60		0.100	mg/L	2.50	0.0204	103	87-111	0.3	25	
Arsenic	5.03		0.0500	mg/L	5.00	0.0120 U	101	89-116	0.2	25	
Barium	5.46		0.0500	mg/L	5.00	0.478	100	89-113	0.2	25	
Beryllium	2.49		0.0050	mg/L	2.50	0.0008 U	100	90-111	0.2	25	
Boron	6.85		0.0500	mg/L	5.00	1.85	100	89-116	0.2	25	
Cadmium	2.52		0.0050	mg/L	2.50	0.0009 U	101	90-112	0.4	25	
Calcium	58.2	B	2.50	mg/L	50.0	8.31	100	84-118	0.3	25	
Chromium	5.05	B	0.0500	mg/L	5.00	0.00820	101	89-114	0.3	25	
Cobalt	5.01		0.0500	mg/L	5.00	0.0012 U	100	90-114	0.2	25	
Copper	2.61		0.0500	mg/L	2.50	0.0060 U	105	90-112	0.3	25	
Iron	48.9		0.250	mg/L	50.0	0.0240 U	98	90-110	0.3	25	
Lead	5.09		0.0500	mg/L	5.00	0.00887	102	90-113	0.1	25	
Magnesium	51.4		2.50	mg/L	50.0	0.967	101	90-111	0.4	25	
Manganese	2.50		0.0100	mg/L	2.50	0.00260	100	90-112	0.07	25	
Molybdenum	2.49	B	0.0100	mg/L	2.50	0.00501	100	89-110	0.4	25	
Nickel	5.04	B	0.250	mg/L	5.00	0.0137	101	88-116	0.5	25	
Potassium	255		2.50	mg/L	250	1.93	101	90-110	0.09	25	
Selenium	5.23	B	0.0500	mg/L	5.00	0.0185 U	105	90-118	0.05	25	
Silver	0.486		0.0500	mg/L	0.500	0.0020 U	97	87-112	0.2	25	
Sodium	1720		2.50	mg/L	250	1460	100	90-113	1	25	
Thallium	2.48		0.0500	mg/L	2.50	0.0255 U	99	90-112	0.2	25	
Vanadium	2.50		0.0500	mg/L	2.50	0.0022 U	100	88-114	0.3	25	
Zinc	5.43		0.100	mg/L	5.00	0.227	104	88-116	0.3	25	

Batch 8F03019 - EPA 3010A

Blank (8F03019-BLK1) Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 13:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0220	U	0.200	mg/L							
Antimony	0.0031	U	0.0200	mg/L							
Arsenic	0.0024	U	0.0100	mg/L							
Barium	0.0004	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	**0.0048**	**J**	0.0100	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0414**	**J**	0.500	mg/L							
Chromium	**0.0005**	**J**	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							

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Blank (8F03019-BLK1) Continued Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 13:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0002	U	0.0020	mg/L							
Molybdenum	0.0001	U	0.0020	mg/L							
Nickel	0.0008	U	0.0500	mg/L							
Potassium	0.054	U	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	**0.0502**	**J**	0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0029	U	0.0200	mg/L							

Blank (8F03019-BLK2) Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 13:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0220	U	0.200	mg/L							
Antimony	0.0031	U	0.0200	mg/L							
Arsenic	0.0024	U	0.0100	mg/L							
Barium	0.0004	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	**0.0033**	**J**	0.0100	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0431**	**J**	0.500	mg/L							
Chromium	**0.0010**	**J**	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0002	U	0.0020	mg/L							
Molybdenum	**0.0002**	**J**	0.0020	mg/L							
Nickel	0.0008	U	0.0500	mg/L							
Potassium	0.054	U	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	0.0380	U	0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0029	U	0.0200	mg/L							

Blank (8F03019-BLK3) Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 14:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0220	U	0.200	mg/L							
Antimony	0.0031	U	0.0200	mg/L							

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Blank (8F03019-BLK3) Continued Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 14:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.0024	U	0.0100	mg/L							
Barium	0.0004	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0019	U	0.0100	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0451**	J	0.500	mg/L							
Chromium	**0.0006**	J	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0002	U	0.0020	mg/L							
Molybdenum	**0.0002**	J	0.0020	mg/L							
Nickel	0.0008	U	0.0500	mg/L							
Potassium	0.054	U	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	0.0380	U	0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0029	U	0.0200	mg/L							

Blank (8F03019-BLK4) Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 14:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.0120	U	0.0500	mg/L							
Beryllium	0.0008	U	0.0050	mg/L							
Cadmium	0.0009	U	0.0050	mg/L							
Cobalt	0.0012	U	0.0500	mg/L							
Copper	0.0060	U	0.0500	mg/L							
Iron	0.0240	U	0.250	mg/L							
Lead	0.0080	U	0.0500	mg/L							
Selenium	0.0185	U	0.0500	mg/L							
Silver	0.0020	U	0.0500	mg/L							
Thallium	0.0255	U	0.0500	mg/L							
Vanadium	0.0022	U	0.0500	mg/L							

LCS (8F03019-BS1) Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 14:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10.3		0.200	mg/L	10.0		103	84-119			
Antimony	0.509		0.0200	mg/L	0.500		102	87-111			
Arsenic	0.988		0.0100	mg/L	1.00		99	89-116			
Barium	0.999		0.0100	mg/L	1.00		100	89-113			
Beryllium	0.497		0.0010	mg/L	0.500		99	90-111			
Boron	1.01	B	0.0100	mg/L	1.00		101	89-116			
Cadmium	0.502		0.0010	mg/L	0.500		100	90-112			

QUALITY CONTROL

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Batch 8F03019 - EPA 3010A

LCS (8F03019-BS1) Continued Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 14:31

Analyte	Result	Flags	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Calcium	10.2	B	0.500	mg/L	10.0		102	84-118			
Chromium	1.01	B	0.0100	mg/L	1.00		101	89-114			
Cobalt	1.01		0.0100	mg/L	1.00		101	90-114			
Copper	0.512		0.0100	mg/L	0.500		102	90-112			
Iron	9.89		0.0500	mg/L	10.0		99	90-110			
Lead	0.994		0.0100	mg/L	1.00		99	90-113			
Magnesium	10.2		0.500	mg/L	10.0		102	90-111			
Manganese	0.505		0.0020	mg/L	0.500		101	90-112			
Molybdenum	0.495	B	0.0020	mg/L	0.500		99	89-110			
Nickel	1.01		0.0500	mg/L	1.00		101	88-116			
Potassium	50.9		0.500	mg/L	50.0		102	90-110			
Selenium	1.03		0.0100	mg/L	1.00		103	90-118			
Silver	0.0954		0.0100	mg/L	0.100		95	87-112			
Sodium	51.5	B	0.500	mg/L	50.0		103	90-113			
Thallium	0.497		0.0100	mg/L	0.500		99	90-112			
Vanadium	0.501		0.0100	mg/L	0.500		100	88-114			
Zinc	1.02		0.0200	mg/L	1.00		102	88-116			

Matrix Spike (8F03019-MS1) Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 14:37

Source: B803008-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	70.3		1.00	mg/L	50.0	15.6	109	84-119			
Antimony	2.62		0.100	mg/L	2.50	0.0408	103	87-111			
Arsenic	5.10		0.0500	mg/L	5.00	0.0120 U	102	89-116			
Barium	5.71		0.0500	mg/L	5.00	0.563	103	89-113			
Beryllium	2.53		0.0050	mg/L	2.50	0.00133	101	90-111			
Boron	5.50	B	0.0500	mg/L	5.00	0.346	103	89-116			
Cadmium	2.59		0.0050	mg/L	2.50	0.00419	103	90-112			
Calcium	59.0	B	2.50	mg/L	50.0	7.22	104	84-118			
Chromium	5.76	B	0.0500	mg/L	5.00	0.570	104	89-114			
Cobalt	5.23		0.0500	mg/L	5.00	0.0196	104	90-114			
Copper	2.79		0.0500	mg/L	2.50	0.121	107	90-112			
Iron	56.1		0.250	mg/L	50.0	4.98	102	90-110			
Lead	5.16		0.0500	mg/L	5.00	0.0402	102	90-113			
Magnesium	52.6		2.50	mg/L	50.0	0.539	104	90-111			
Manganese	2.78		0.0100	mg/L	2.50	0.175	104	90-112			
Molybdenum	2.55	B	0.0100	mg/L	2.50	0.0130	102	89-110			
Nickel	5.76		0.250	mg/L	5.00	0.558	104	88-116			
Potassium	269		2.50	mg/L	250	9.15	104	90-110			
Selenium	5.29		0.0500	mg/L	5.00	0.0185 U	106	90-118			
Silver	0.497		0.0500	mg/L	0.500	0.0020 U	99	87-112			
Sodium	463	B	2.50	mg/L	250	201	105	90-113			
Thallium	2.56		0.0500	mg/L	2.50	0.0255 U	102	90-112			
Vanadium	2.59		0.0500	mg/L	2.50	0.00724	103	88-114			
Zinc	5.57		0.100	mg/L	5.00	0.280	106	88-116			

Matrix Spike Dup (8F03019-MSD1) Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 14:43

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QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8F03019 - EPA 3010A

Matrix Spike Dup (8F03019-MSD1) Continued Prepared: 06/03/2008 13:40 Analyzed: 06/06/2008 14:43

Source: B803008-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	69.2		1.00	mg/L	50.0	15.6	107	84-119	2	25	
Antimony	2.57		0.100	mg/L	2.50	0.0408	101	87-111	2	25	
Arsenic	5.02		0.0500	mg/L	5.00	0.0120 U	100	89-116	2	25	
Barium	5.53		0.0500	mg/L	5.00	0.563	99	89-113	3	25	
Beryllium	2.48		0.0050	mg/L	2.50	0.00133	99	90-111	2	25	
Boron	5.44	B	0.0500	mg/L	5.00	0.346	102	89-116	1	25	
Cadmium	2.51		0.0050	mg/L	2.50	0.00419	100	90-112	3	25	
Calcium	58.2	B	2.50	mg/L	50.0	7.22	102	84-118	1	25	
Chromium	5.58	B	0.0500	mg/L	5.00	0.570	100	89-114	3	25	
Cobalt	5.08		0.0500	mg/L	5.00	0.0196	101	90-114	3	25	
Copper	2.70		0.0500	mg/L	2.50	0.121	103	90-112	3	25	
Iron	54.1		0.250	mg/L	50.0	4.98	98	90-110	4	25	
Lead	5.09		0.0500	mg/L	5.00	0.0402	101	90-113	1	25	
Magnesium	51.7		2.50	mg/L	50.0	0.539	102	90-111	2	25	
Manganese	2.69		0.0100	mg/L	2.50	0.175	101	90-112	3	25	
Molybdenum	2.51	B	0.0100	mg/L	2.50	0.0130	100	89-110	2	25	
Nickel	5.57		0.250	mg/L	5.00	0.558	100	88-116	3	25	
Potassium	265		2.50	mg/L	250	9.15	102	90-110	1	25	
Selenium	5.24		0.0500	mg/L	5.00	0.0185 U	105	90-118	0.9	25	
Silver	0.480		0.0500	mg/L	0.500	0.0020 U	96	87-112	3	25	
Sodium	455	B	2.50	mg/L	250	201	102	90-113	2	25	
Thallium	2.52		0.0500	mg/L	2.50	0.0255 U	101	90-112	2	25	
Vanadium	2.51		0.0500	mg/L	2.50	0.00724	100	88-114	3	25	
Zinc	5.40		0.100	mg/L	5.00	0.280	102	88-116	3	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the assocatiated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-14	Confirmed matrix effects

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6015
4510 Executive Park Court, Suite 211 Jacksonville, FL 32216-0183 (904) 296-3007 Fax (904) 296-6210
2015 Prospect Way Cary, NC 27513 (919) 677-1669 Fax (919) 677-9848

Page 1 of 1

Client Name: Linkey-Hom & Assoc	Project Number: 1164360000
Address: 501 Independence Pkwy Ste 300	Project Location: Battlefield Fly-Ash
City/ST/Zip: Chesapeake, VA 23320	PO # (Billing Info):
Ph: 757-548-7300 Fax: 757-548-7301	Reporting Contact:
Sampler(s) Name, Affiliation (Print): M. Tumshchenko	Bills Contact: M. Tumshchenko
Sampler(s) Signature: M. Tumshchenko	Facility # (If Required):

Requested Analyses: SPLP

Requested Turnaround Times: Note: Rush requests subject to availability. X Standard ___ Expedited Due __/__/__

Lab Workorder: C805399

Preservation (See Codes) (Continue as necessary)

Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sample Comments
HA-7	5-19-08	2:00	G	SE	2	55" - 71"
HA-7	↓	↓	↓	↓	2	108" - 124"
HA-7		4:00			4	162" - 180"
HA-8		4:00			4	69" - 88"
HA-8		↓			4	154" - 171"
HA-8	↓	5:08	↓	↓	4	214" - 229"
					20	← Total # of Containers

Sample Kit Prepared By:	Date/Time:	Relinquished By:	Date/Time: 5/22/08 1:20	Received By: Briana Hughes	Date/Time: 5/23/08 11:05
Comments:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler Air & Temps on Receipt: On Ice		Conform Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater, SO-Soil, SE-Sediment, SW-Surface Water, WW-Wastewater, A-Air, O-Other (state in comments) Preservation: Use H-HCL, N-HNO3, S-H2SO4, ND-NaOH, O-Other (state in comments)

Note: All samples subject to ENCO terms and conditions of sale (see reverse side of this form, unless prior written agreement exists)

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Monday, June 9, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: 116436000, Project Name/Desc: Fly Ash
ENCO Workorder: C805397

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, May 23, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 19.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: HA-3 (TOP) Lab ID: C805397-01 Sampled: 05/14/08 14:30 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/10/08		06/03/08	13:34	6/6/2008 17:20
EPA 6010B	11/10/08	11/30/08	06/03/08	13:34	6/6/2008 17:20
EPA 7470A	06/11/08		06/02/08	12:02	6/3/2008 10:15

Client ID: HA-3 (MID) Lab ID: C805397-02 Sampled: 05/14/08 14:30 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/10/08		06/03/08	13:34	6/6/2008 17:26
EPA 6010B	11/10/08	11/30/08	06/03/08	13:34	6/6/2008 17:26
EPA 7470A	06/11/08		06/02/08	12:02	6/3/2008 10:17

Client ID: HA-3 (BASE) Lab ID: C805397-03 Sampled: 05/14/08 14:30 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/10/08		06/03/08	13:34	6/6/2008 17:32
EPA 6010B	11/10/08	11/30/08	06/03/08	13:34	6/6/2008 17:32
EPA 7470A	06/11/08		06/02/08	12:02	6/3/2008 10:19

Client ID: HA-3 (SAT) Lab ID: C805397-04 Sampled: 05/14/08 14:30 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/10/08		06/03/08	13:34	6/6/2008 17:39
EPA 6010B	11/10/08	11/30/08	06/03/08	13:34	6/6/2008 17:39
EPA 7470A	06/11/08		06/02/08	12:02	6/3/2008 10:20

Client ID: HA-4 (TOP) Lab ID: C805397-05 Sampled: 05/19/08 10:15 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 17:45
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 17:45
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:22

Client ID: HA-4 (MID) Lab ID: C805397-06 Sampled: 05/19/08 10:15 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 17:51
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 17:51
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:27

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Client ID: HA-4 (BASE)	Lab ID: C8D5397-07	Sampled: 05/19/08 10:45	Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008	17:58
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008	17:58
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008	10:29

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SAMPLE DETECTION SUMMARY

Client ID: HA-3 (CUP) Lab ID: C805397-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	0.890	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0169	J	0.0200	mg/L	EPA 6010B	
Arsenic	0.170		0.0100	mg/L	EPA 6010B	
Barium	0.215		0.0100	mg/L	EPA 6010B	
Boron	0.455		0.0100	mg/L	EPA 6010B	
Calcium	65.7	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0239	B	0.0100	mg/L	EPA 6010B	QB-01
Iron	0.0510		0.0500	mg/L	EPA 6010B	
Magnesium	1.55		0.500	mg/L	EPA 6010B	
Manganese	0.0002	J	0.0020	mg/L	EPA 6010B	
Molybdenum	0.0544	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0009	JB	0.0500	mg/L	EPA 6010B	J-01
Potassium	7.99		0.500	mg/L	EPA 6010B	
Selenium	0.154	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	75.6		0.500	mg/L	EPA 6010B	
Vanadium	0.0322		0.0100	mg/L	EPA 6010B	
Zinc	0.0100	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-3 (HID) Lab ID: C805397-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	6.01	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0294		0.0200	mg/L	EPA 6010B	
Arsenic	0.217		0.0100	mg/L	EPA 6010B	
Barium	0.369		0.0100	mg/L	EPA 6010B	
Boron	0.443		0.0100	mg/L	EPA 6010B	
Calcium	56.3	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0214	B	0.0100	mg/L	EPA 6010B	QB-01
Magnesium	0.319	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.0398	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0010	JB	0.0500	mg/L	EPA 6010B	J-01
Potassium	8.36		0.500	mg/L	EPA 6010B	
Selenium	0.182	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	67.6		0.500	mg/L	EPA 6010B	
Vanadium	0.0563		0.0100	mg/L	EPA 6010B	
Zinc	0.0089	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-3 (BASE) Lab ID: C805397-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	6.34	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0280		0.0200	mg/L	EPA 6010B	
Arsenic	0.132		0.0100	mg/L	EPA 6010B	
Barium	0.375		0.0100	mg/L	EPA 6010B	
Boron	0.479		0.0100	mg/L	EPA 6010B	
Calcium	59.8	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0069	JB	0.0100	mg/L	EPA 6010B	J-01
Magnesium	0.318	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.0953	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0011	JB	0.0500	mg/L	EPA 6010B	J-01
Potassium	12.0		0.500	mg/L	EPA 6010B	

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Client ID: HA-3 (BASE) Lab ID: C805397-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Selenium	0.205	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	82.9		0.500	mg/L	EPA 6010B	
Vanadium	0.0737		0.0100	mg/L	EPA 6010B	
Zinc	0.0231		0.0200	mg/L	EPA 6010B	

Client ID: HA-3 (SAT) Lab ID: C805397-04

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	1.04	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0111	J	0.0200	mg/L	EPA 6010B	
Arsenic	0.0898		0.0100	mg/L	EPA 6010B	
Barium	0.213		0.0100	mg/L	EPA 6010B	
Boron	0.249		0.0100	mg/L	EPA 6010B	
Calcium	38.4	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0031	JB	0.0100	mg/L	EPA 6010B	J-01
Magnesium	1.17		0.500	mg/L	EPA 6010B	
Manganese	0.0010	J	0.0020	mg/L	EPA 6010B	
Molybdenum	0.112	B	0.0020	mg/L	EPA 6010B	QB-01
Potassium	15.8		0.500	mg/L	EPA 6010B	
Selenium	0.0877	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	48.0		0.500	mg/L	EPA 6010B	
Vanadium	0.0490		0.0100	mg/L	EPA 6010B	
Zinc	0.0055	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-4 (TOP) Lab ID: C805397-05

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	6.46	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0262		0.0200	mg/L	EPA 6010B	
Arsenic	0.122		0.0100	mg/L	EPA 6010B	
Barium	0.151		0.0100	mg/L	EPA 6010B	
Boron	0.640		0.0100	mg/L	EPA 6010B	
Calcium	59.2	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0145	B	0.0100	mg/L	EPA 6010B	QB-01
Magnesium	0.486	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.0236	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0010	JB	0.0500	mg/L	EPA 6010B	J-01
Potassium	1.70		0.500	mg/L	EPA 6010B	
Selenium	0.165	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	16.2		0.500	mg/L	EPA 6010B	
Vanadium	0.0839		0.0100	mg/L	EPA 6010B	
Zinc	0.0136	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-4 (MID) Lab ID: C805397-06

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	7.63	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0249		0.0200	mg/L	EPA 6010B	
Arsenic	0.145		0.0100	mg/L	EPA 6010B	
Barium	0.169		0.0100	mg/L	EPA 6010B	
Boron	0.401		0.0100	mg/L	EPA 6010B	
Calcium	44.8	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0169	B	0.0100	mg/L	EPA 6010B	QB-01
Magnesium	0.164	J	0.500	mg/L	EPA 6010B	

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Client ID: HA-4 (MID) Lab ID: C805397-06

Analyte	Results	Flag	MRL	Units	Method	Notes
Molybdenum	0.0446	B	0.0020	mg/L	EPA 6010B	QB-01
Potassium	6.81		0.500	mg/L	EPA 6010B	
Selenium	0.157	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	35.2		0.500	mg/L	EPA 6010B	
Vanadium	0.0780		0.0100	mg/L	EPA 6010B	
Zinc	0.0126	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-4 (BASE) Lab ID: C805397-07

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	8.40	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0265		0.0200	mg/L	EPA 6010B	
Arsenic	0.179		0.0100	mg/L	EPA 6010B	
Barium	0.302		0.0100	mg/L	EPA 6010B	
Boron	0.424		0.0100	mg/L	EPA 6010B	
Calcium	53.9	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0181	B	0.0100	mg/L	EPA 6010B	QB-01
Magnesium	0.179	J	0.500	mg/L	EPA 6010B	
Manganese	0.0007	J	0.0020	mg/L	EPA 6010B	
Molybdenum	0.143	B	0.0020	mg/L	EPA 6010B	QB-01
Potassium	20.3		0.500	mg/L	EPA 6010B	
Selenium	0.170	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	82.7		0.500	mg/L	EPA 6010B	
Vanadium	0.0879		0.0100	mg/L	EPA 6010B	
Zinc	0.0096	J	0.0200	mg/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: HA-3 (TOP)
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C805397-01
Sampled: 05/14/08 14:30
Sampled By: Mike Iwashchenko

Received: 05/23/08 11:05
Work Order: C805397
% Solids:

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**0.890**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 17:20	ACV	QB-01
Antimony [7440-36-0] ^	**0.0169**	J	mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Arsenic [7440-38-2] ^	**0.170**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Barium [7440-39-3] ^	**0.215**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Boron [7440-42-8] ^	**0.455**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Calcium [7440-70-2] ^	**65.7**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 17:20	ACV	QB-01
Chromium [7440-47-3] ^	**0.0239**	B	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	QB-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Iron [7439-89-6] ^	**0.0510**		mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Magnesium [7439-95-4] ^	**1.55**		mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Manganese [7439-96-5] ^	**0.0002**	J	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:15	RBN	
Molybdenum [7439-98-7] ^	**0.0544**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 17:20	ACV	QB-01
Nickel [7440-02-0] ^	**0.0009**	JB	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 17:20	ACV	J-01
Potassium [7440-09-7] ^	**7.99**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Selenium [7782-49-2] ^	**0.154**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	QB-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Sodium [7440-23-5] ^	**75.6**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Vanadium [7440-62-2] ^	**0.0322**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:20	ACV	
Zinc [7440-66-6] ^	**0.0100**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 17:20	ACV	

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Description:	HA-3 (MID)	**Lab Sample ID:**	C805397-02	**Received:**	05/23/08 11:05
Matrix:	Soil	**Sampled:**	05/14/08 14:30	**Work Order:**	C805397
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**6.01**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 17:26	ACV	QB-01
Antimony [7440-36-0] ^	**0.0294**		mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Arsenic [7440-38-2] ^	**0.217**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Barium [7440-39-3] ^	**0.369**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Boron [7440-42-8] ^	**0.443**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Calcium [7440-70-2] ^	**56.3**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 17:26	ACV	QB-01
Chromium [7440-47-3] ^	**0.0214**	B	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	QB-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Magnesium [7439-95-4] ^	**0.319**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:17	RBN	
Molybdenum [7439-98-7] ^	**0.0398**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 17:26	ACV	QB-01
Nickel [7440-02-0] ^	**0.0010**	JB	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 17:26	ACV	J-01
Potassium [7440-09-7] ^	**3.36**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Selenium [7782-49-2] ^	**0.182**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	QB-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Sodium [7440-23-5] ^	**67.6**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Vanadium [7440-62-2] ^	**0.0563**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:26	ACV	
Zinc [7440-66-6] ^	**0.0089**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 17:26	ACV	

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Description:	HA-3 (BASE)	**Lab Sample ID:**	C805397-03	**Received:**	05/23/08 11:05
Matrix:	Soil	**Sampled:**	05/14/08 14:30	**Work Order:**	C805397
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**6.34**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 17:32	ACV	QB-01
Antimony [7440-36-0] ^	**0.0280**		mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Arsenic [7440-38-2] ^	**0.132**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Barium [7440-39-3] ^	**0.375**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Boron [7440-42-8] ^	**0.479**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Calcium [7440-70-2] ^	**59.8**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 17:32	ACV	QB-01
Chromium [7440-47-3] ^	**0.0069**	JB	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	J-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Magnesium [7439-95-4] ^	**0.318**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:19	RBN	
Molybdenum [7439-98-7] ^	**0.0953**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 17:32	ACV	QB-01
Nickel [7440-02-0] ^	**0.0011**	JB	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 17:32	ACV	J-01
Potassium [7440-09-7] ^	**12.0**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Selenium [7782-49-2] ^	**0.205**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	QB-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Sodium [7440-23-5] ^	**82.9**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Vanadium [7440-62-2] ^	**0.0737**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:32	ACV	
Zinc [7440-66-6] ^	**0.0231**		mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 17:32	ACV	

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Description: HA-3 (SAT)
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C805397-04
Sampled: 05/14/08 14:30
Sampled By: Mike Iwashchenko

Received: 05/23/08 11:05
Work Order: C805397
% Solids:

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**1.04**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 17:39	ACV	Q8-01
Antimony [7440-36-0] ^	**0.0111**	J	mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Arsenic [7440-38-2] ^	**0.0898**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Barium [7440-39-3] ^	**0.213**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Boron [7440-42-8] ^	**0.249**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Calcium [7440-70-2] ^	**38.4**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 17:39	ACV	Q8-01
Chromium [7440-47-3] ^	**0.0031**	JB	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	J-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Magnesium [7439-95-4] ^	**1.17**		mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Manganese [7439-96-5] ^	**0.0010**	J	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:20	RBN	
Molybdenum [7439-98-7] ^	**0.112**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 17:39	ACV	Q3-01
Nickel [7440-02-0] ^	0.0008	U	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Potassium [7440-09-7] ^	**15.8**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Selenium [7782-49-2] ^	**0.0877**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	Q3-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Sodium [7440-23-5] ^	**48.0**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Vanadium [7440-62-2] ^	**0.0490**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:39	ACV	
Zinc [7440-66-6] ^	**0.0055**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 17:39	ACV	

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Description:	HA-4 (TOP)	**Lab Sample ID:**	C805397-05	**Received:**	05/23/08 11:05
Matrix:	Soil	**Sampled:**	05/19/08 10:15	**Work Order:**	C805397
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**6.46**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 17:45	ACV	Q8-01
Antimony [7440-36-0] ^	**0.0262**		mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Arsenic [7440-38-2] ^	**0.122**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Barium [7440-39-3] ^	**0.151**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Boron [7440-42-8] ^	**0.640**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Calcium [7440-70-2] ^	**59.2**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 17:45	ACV	Q8-01
Chromium [7440-47-3] ^	**0.0145**	B	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	Q8-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Magnesium [7439-95-4] ^	**0.486**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:22	RBN	
Molybdenum [7439-98-7] ^	**0.0236**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 17:45	ACV	Q8-01
Nickel [7440-02-0] ^	**0.0010**	JB	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 17:45	ACV	J-01
Potassium [7440-09-7] ^	**1.70**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Selenium [7782-49-2] ^	**0.165**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	Q8-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Sodium [7440-23-5] ^	**16.2**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Vanadium [7440-62-2] ^	**0.0839**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:45	ACV	
Zinc [7440-66-6] ^	**0.0136**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 17:45	ACV	

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Description: HA-4 (MID)
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C805397-06
Sampled: 05/19/08 10:15
Sampled By: Mike Iwashchenko

Received: 05/23/08 11:05
Work Order: C805397
% Solids:

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**7.63**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 17:51	ACV	Q8-01
Antimony [7440-36-0] ^	**0.0249**		mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Arsenic [7440-38-2] ^	**0.145**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Barium [7440-39-3] ^	**0.169**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Boron [7440-42-8] ^	**0.401**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Calcium [7440-70-2] ^	**44.8**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 17:51	ACV	Q8-01
Chromium [7440-47-3] ^	**0.0169**	B	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	Q8-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Magnesium [7439-95-4] ^	**0.164**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	05/03/08 10:27	RBN	
Molybdenum [7439-98-7] ^	**0.0446**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 17:51	ACV	Q8-01
Nickel [7440-02-0] ^	0.0008	U	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 17:51	ACV	J-01
Potassium [7440-09-7] ^	**6.81**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Selenium [7782-49-2] ^	**0.157**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	Q8-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Sodium [7440-23-5] ^	**35.2**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Vanadium [7440-62-2] ^	**0.0780**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:51	ACV	
Zinc [7440-66-6] ^	**0.0126**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 17:51	ACV	

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Description:	HA-4 (BASE)	**Lab Sample ID:**	C805397-07	**Received:**	05/23/08 11:05
Matrix:	Soil	**Sampled:**	05/19/08 10:15	**Work Order:**	C805397
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**8.40**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 17:58	ACV	Q8-01
Antimony [7440-36-0] ^	**0.0265**		mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Arsenic [7440-38-2] ^	**0.179**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Barium [7440-39-3] ^	**0.302**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Boron [7440-42-8] ^	**0.424**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Calcium [7440-70-2] ^	**53.9**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 17:58	ACV	Q8-01
Chromium [7440-47-3] ^	**0.0181**	B	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	Q8-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Magnesium [7439-95-4] ^	**0.179**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Manganese [7439-96-5] ^	**0.0007**	J	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:29	RBN	
Molybdenum [7439-98-7] ^	**0.143**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 17:58	ACV	Q8-01
Nickel [7440-02-0] ^	0.0008	U	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Potassium [7440-09-7] ^	**20.3**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Selenium [7782-49-2] ^	**0.170**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	Q8-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Sodium [7440-23-5] ^	**82.7**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Vanadium [7440-62-2] ^	**0.0879**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:58	ACV	
Zinc [7440-66-6] ^	**0.0096**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 17:58	ACV	

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QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8F02015 - EPA 7470A

Blank (8F02015-BLK1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

Blank (8F02015-BLK2) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

LCS (8F02015-BS1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00529		0.00020	mg/L	0.00500		106	85-115			

Matrix Spike (8F02015-MS1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:47

Source: B803734-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00525		0.00020	mg/L	0.00500	0.000054 U	125	85-115			QM-14

Matrix Spike Dup (8F02015-MSD1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:49

Source: B803734-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00641		0.00020	mg/L	0.00500	0.000054 U	128	85-115	2	25	QM-14

Batch 8F03018 - EPA 3010A

Blank (8F03018-BLK1) Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 12:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0220	U	0.200	mg/L							
Antimony	0.0031	U	0.0200	mg/L							
Arsenic	0.0024	U	0.0100	mg/L							
Barium	0.0004	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0019	U	0.0100	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0415**	J	0.500	mg/L							
Chromium	**0.0007**	J	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0002	U	0.0020	mg/L							
Molybdenum	**0.0007**	J	0.0020	mg/L							
Nickel	0.0008	U	0.0500	mg/L							
Potassium	0.054	U	0.500	mg/L							

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8F03018 - EPA 3010A

Blank (8F03018-BLK1) Continued Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 12:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	**0.0037**	**J**	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	0.0380	U	0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0029	U	0.0200	mg/L							

Blank (8F03018-BLK2) Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 15:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**0.0222**	**J**	0.200	mg/L							
Antimony	0.0031	U	0.0200	mg/L							
Arsenic	0.0024	U	0.0100	mg/L							
Barium	0.0004	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0019	U	0.0100	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0431**	**J**	0.500	mg/L							
Chromium	**0.0011**	**J**	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0002	U	0.0020	mg/L							
Molybdenum	0.0001	U	0.0020	mg/L							
Nickel	**0.0012**	**J**	0.0500	mg/L							
Potassium	0.054	U	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	0.0380	U	0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0029	U	0.0200	mg/L							

Blank (8F03018-BLK3) Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 12:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.0155	U	0.100	mg/L							
Arsenic	0.0120	U	0.0500	mg/L							
Beryllium	0.0008	U	0.0050	mg/L							
Cadmium	0.0009	U	0.0050	mg/L							
Cobalt	0.0012	U	0.0500	mg/L							
Copper	0.0060	U	0.0500	mg/L							
Iron	0.0240	U	0.250	mg/L							
Lead	0.0080	U	0.0500	mg/L							
Molybdenum	0.0007	U	0.0100	mg/L							
Selenium	0.0185	U	0.0500	mg/L							

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QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8F03018 - EPA 3010A

Blank (8F03018-BLK3) Continued Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 21:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	0.0020	U	0.0500	mg/L							
Thallium	0.0255	U	0.0500	mg/L							
Vanadium	0.0022	U	0.0500	mg/L							

LCS (8F03018-BS1) Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10.2	B	0.200	mg/L	10.0		102	84-119			
Antimony	0.523		0.0200	mg/L	0.500		105	87-111			
Arsenic	1.01		0.0100	mg/L	1.00		101	89-116			
Barium	1.01		0.0100	mg/L	1.00		101	89-113			
Beryllium	0.501		0.0010	mg/L	0.500		100	90-111			
Boron	1.00		0.0100	mg/L	1.00		100	89-116			
Cadmium	0.507		0.0010	mg/L	0.500		101	90-112			
Calcium	10.0	B	0.500	mg/L	10.0		100	84-118			
Chromium	1.02	B	0.0100	mg/L	1.00		102	89-114			
Cobalt	1.03		0.0100	mg/L	1.00		103	90-114			
Copper	0.514		0.0100	mg/L	0.500		103	90-112			
Iron	10.0		0.0500	mg/L	10.0		100	90-110			
Lead	1.02		0.0100	mg/L	1.00		102	90-113			
Magnesium	10.1		0.500	mg/L	10.0		101	90-111			
Manganese	0.511		0.0020	mg/L	0.500		102	90-112			
Molybdenum	0.502	B	0.0020	mg/L	0.500		100	89-110			
Nickel	1.02	B	0.0500	mg/L	1.00		102	88-116			
Potassium	51.0		0.500	mg/L	50.0		102	90-110			
Selenium	1.04	B	0.0100	mg/L	1.00		104	90-118			
Silver	0.0968		0.0100	mg/L	0.100		97	87-112			
Sodium	51.7		0.500	mg/L	50.0		103	90-113			
Thallium	0.508		0.0100	mg/L	0.500		102	90-112			
Vanadium	0.504		0.0100	mg/L	0.500		101	88-114			
Zinc	1.03		0.0200	mg/L	1.00		103	88-116			

Matrix Spike (8F03018-MS1) Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:11

Source: B803749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	78.7	B	1.00	mg/L	50.0	26.7	104	84-119			
Antimony	2.60		0.100	mg/L	2.50	0.0204	103	87-111			
Arsenic	5.02		0.0500	mg/L	5.00	0.0120 U	100	89-116			
Barium	5.46		0.0500	mg/L	5.00	0.478	100	89-113			
Beryllium	2.49		0.0050	mg/L	2.50	0.0008 U	99	90-111			
Boron	6.83		0.0500	mg/L	5.00	1.85	100	89-116			
Cadmium	2.51		0.0050	mg/L	2.50	0.0009 U	100	90-112			
Calcium	58.4	B	2.50	mg/L	50.0	8.31	100	84-118			
Chromium	5.03	B	0.0500	mg/L	5.00	0.00820	100	89-114			
Cobalt	5.00		0.0500	mg/L	5.00	0.0012 U	100	90-114			
Copper	2.61		0.0500	mg/L	2.50	0.0060 U	104	90-112			
Iron	48.8		0.250	mg/L	50.0	0.0240 U	98	90-110			

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8F03018 - EPA 3010A

Matrix Spike (8F03018-MS1) Continued Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:11

Source: B803749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	5.09		0.0500	mg/L	5.00	0.00887	102	90-133			
Magnesium	51.2		2.50	mg/L	50.0	0.967	101	90-111			
Manganese	2.51		0.0100	mg/L	2.50	0.00260	100	90-112			
Molybdenum	2.50	B	0.0100	mg/L	2.50	0.00501	100	89-110			
Nickel	5.02	B	0.250	mg/L	5.00	0.0137	100	88-116			
Potassium	255		2.50	mg/L	250	1.93	101	90-110			
Selenium	5.24	B	0.0500	mg/L	5.00	0.0185 U	105	90-118			
Silver	0.487		0.0500	mg/L	0.500	0.0020 U	97	87-112			
Sodium	1730		2.50	mg/L	250	1460	108	90-113			
Thallium	2.47		0.0500	mg/L	2.50	0.0255 U	99	90-112			
Vanadium	2.50		0.0500	mg/L	2.50	0.0022 U	100	88-114			
Zinc	5.42		0.100	mg/L	5.00	0.227	104	88-116			

Matrix Spike Dup (8F03018-MSD1) Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:17

Source: B803749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	78.7	B	1.00	mg/L	50.0	26.7	104	84-119	0.02	25	
Antimony	2.60		0.100	mg/L	2.50	0.0204	103	87-111	0.3	25	
Arsenic	5.03		0.0500	mg/L	5.00	0.0120 U	101	89-116	0.2	25	
Barium	5.46		0.0500	mg/L	5.00	0.478	100	89-113	0.2	25	
Beryllium	2.49		0.0050	mg/L	2.50	0.0008 U	100	90-111	0.2	25	
Boron	6.85		0.0500	mg/L	5.00	1.85	100	89-116	0.2	25	
Cadmium	2.52		0.0050	mg/L	2.50	0.0009 U	101	90-112	0.4	25	
Calcium	58.2	B	2.50	mg/L	50.0	8.31	100	84-118	0.3	25	
Chromium	5.05	B	0.0500	mg/L	5.00	0.00820	101	89-114	0.3	25	
Cobalt	5.01		0.0500	mg/L	5.00	0.0012 U	100	90-114	0.2	25	
Copper	2.61		0.0500	mg/L	2.50	0.0060 U	105	90-112	0.3	25	
Iron	48.9		0.250	mg/L	50.0	0.0240 U	98	90-110	0.3	25	
Lead	5.09		0.0500	mg/L	5.00	0.00887	102	90-113	0.1	25	
Magnesium	51.4		2.50	mg/L	50.0	0.967	101	90-111	0.4	25	
Manganese	2.50		0.0100	mg/L	2.50	0.00260	100	90-112	0.07	25	
Molybdenum	2.49	B	0.0100	mg/L	2.50	0.00501	100	89-110	0.4	25	
Nickel	5.04	B	0.250	mg/L	5.00	0.0137	101	88-116	0.5	25	
Potassium	255		2.50	mg/L	250	1.93	101	90-110	0.09	25	
Selenium	5.23	B	0.0500	mg/L	5.00	0.0185 U	105	90-118	0.05	25	
Silver	0.486		0.0500	mg/L	0.500	0.0020 U	97	87-112	0.2	25	
Sodium	1720		2.50	mg/L	250	1460	100	90-113	1	25	
Thallium	2.48		0.0500	mg/L	2.50	0.0255 U	99	90-112	0.2	25	
Vanadium	2.50		0.0500	mg/L	2.50	0.0022 U	100	88-114	0.3	25	
Zinc	5.43		0.100	mg/L	5.00	0.227	104	88-116	0.3	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the assocatiated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-14	Confirmed matrix effects

ENCO

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-0945
4810 Executive Park Court, Suite 211 Jacksonville, FL 32210-6000 (904) 296-3007 Fax (904) 296-6210
1016 Passport Way Cary, NC 27513 (919) 677-1669 Fax (919) 677-4616

Page 1 of 1

Client Name: KHA	Project Number: 116 436000
Address: 501 Independence Pkwy	Project Name/Desc: Fly-ASH
City/ST/Zip: Chesapeake VA 23320	P.O. # / Billing Info:
Tel: 548-7300 Fax:	Reporting Contact:
Sampler(s) Name, Affiliation (Print):	Billing Contact: M Iwashchuk
Sampler(s) Signature: M. Iwashchuk	Facility # (if required):

Requested Analyses: SPLP

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
X Standard
__ Expedited
Due __/__/__

Lab Workorder: C805397

Preservation (See Codes) (Denote as necessary)

Bottle	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers		Sample Comments
	HA-3 (TOP)	5-14-08	230-315	G	SE	4	\	3'-5'
	HA-3 (MID)	↓	↓	↓	↓	4	\	8-10'
	HA-3 (BASE)	↓	↓	↓	↓	4	\	16-18'
	HA-3 (SAT)	↓	↓	↓	↓	4	\	19-21
	HA-4 (TOP)	5-19-08	1015-1230	G	SE	2	\	18"-33"
	HA-4 (MID)	↓	↓	↓	↓	2	\	88"-107"
	HA-4 (BASE)	↓	↓	↓	↓	2	\	175"-196"

22 ← Total # of Containers

Sample Id Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		M. Iwashchuk	5/20/08 5:30	Buana Gugay	5/23/08 11:05
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: Onice		Condition Upon Receipt: __ Acceptable __ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (Legal in comments)
Preservation: Mat. H-HCl H-HNO3 S-H2SO4 NO-NaOH O-Other (Detail in comments)
Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreement exists.

ENCO
www.encolabs.com

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Monday, June 9, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: 116436000, Project Name/Desc: Fly Ash
ENCO Workorder: C805398

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, May 23, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 17.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: HA-5 (TOP) Lab ID: C805398-01 Sampled: 05/19/08 13:00 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 16:22
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 16:22
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:02

Client ID: HA-5 (MID) Lab ID: C805398-02 Sampled: 05/19/08 13:00 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 16:29
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 16:29
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:07

Client ID: HA-5 (BASE) Lab ID: C805398-03 Sampled: 05/19/08 14:00 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 16:35
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 16:35
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:09

Client ID: HA-6 (TOP) Lab ID: C805398-04 Sampled: 05/19/08 14:07 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 16:42
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 16:42
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:11

Client ID: HA-6 (MID) Lab ID: C805398-05 Sampled: 05/19/08 14:07 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 17:07
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 17:07
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:12

Client ID: HA-6 (BASE) Lab ID: C805398-06 Sampled: 05/19/08 14:55 Received: 05/23/08 11:05

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	11/15/08		06/03/08	13:34	6/6/2008 17:14
EPA 6010B	11/15/08	11/30/08	06/03/08	13:34	6/6/2008 17:14
EPA 7470A	06/16/08		06/02/08	12:02	6/3/2008 10:14

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SAMPLE DETECTION SUMMARY

Client ID: HA-5 (TOP) Lab ID: C805398-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	23.0	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0131	J	0.0200	mg/L	EPA 6010B	
Arsenic	0.0069	J	0.0100	mg/L	EPA 6010B	
Barium	0.0725		0.0100	mg/L	EPA 6010B	
Boron	0.333		0.0100	mg/L	EPA 6010B	
Calcium	59.4	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0538	B	0.0100	mg/L	EPA 6010B	QB-01
Iron	0.0072	J	0.0500	mg/L	EPA 6010B	
Magnesium	0.136	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.107	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0009	JB	0.0500	mg/L	EPA 6010B	J-01
Potassium	16.6		0.500	mg/L	EPA 6010B	
Selenium	0.0556	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	80.6		0.500	mg/L	EPA 6010B	
Vanadium	0.0665		0.0100	mg/L	EPA 6010B	
Zinc	0.0168	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-5 (MID) Lab ID: C805398-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	22.4	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0141	J	0.0200	mg/L	EPA 6010B	
Arsenic	0.0116		0.0100	mg/L	EPA 6010B	
Barium	0.0811		0.0100	mg/L	EPA 6010B	
Boron	0.376		0.0100	mg/L	EPA 6010B	
Calcium	63.9	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0640	B	0.0100	mg/L	EPA 6010B	QB-01
Magnesium	0.152	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.134	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0010	JB	0.0500	mg/L	EPA 6010B	J-01
Potassium	16.5		0.500	mg/L	EPA 6010B	
Selenium	0.0699	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	84.8		0.500	mg/L	EPA 6010B	
Vanadium	0.0690		0.0100	mg/L	EPA 6010B	
Zinc	0.0170	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-5 (BASE) Lab ID: C805398-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	20.3	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0130	J	0.0200	mg/L	EPA 6010B	
Arsenic	0.0141		0.0100	mg/L	EPA 6010B	
Barium	0.0624		0.0100	mg/L	EPA 6010B	
Boron	0.400		0.0100	mg/L	EPA 6010B	
Calcium	67.8	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0315	B	0.0100	mg/L	EPA 6010B	QB-01
Magnesium	0.110	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.0793	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0011	JB	0.0500	mg/L	EPA 6010B	J-01
Potassium	9.45		0.500	mg/L	EPA 6010B	
Selenium	0.0560	B	0.0100	mg/L	EPA 6010B	QB-01

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Client ID: HA-5 (BASE) Lab ID: C805398-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Sodium	59.9		0.500	mg/L	EPA 6010B	
Vanadium	0.0698		0.0100	mg/L	EPA 6010B	
Zinc	0.0096	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-5 (TOP) Lab ID: C805398-04

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	17.6	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0129	J	0.0200	mg/L	EPA 6010B	
Arsenic	0.0336		0.0100	mg/L	EPA 6010B	
Barium	0.0954		0.0100	mg/L	EPA 6010B	
Boron	0.229		0.0100	mg/L	EPA 6010B	
Calcium	54.3	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0163	B	0.0100	mg/L	EPA 6010B	QB-01
Magnesium	0.135	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.0493	B	0.0020	mg/L	EPA 6010B	QB-01
Nickel	0.0015	JB	0.0500	mg/L	EPA 6010B	J-01
Potassium	3.90		0.500	mg/L	EPA 6010B	
Selenium	0.0722	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	32.9		0.500	mg/L	EPA 6010B	
Vanadium	0.0768		0.0100	mg/L	EPA 6010B	
Zinc	0.0175	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-5 (MID) Lab ID: C805398-05

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	17.6	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0175	J	0.0200	mg/L	EPA 6010B	
Arsenic	0.0430		0.0100	mg/L	EPA 6010B	
Barium	0.121		0.0100	mg/L	EPA 6010B	
Boron	0.284		0.0100	mg/L	EPA 6010B	
Calcium	57.5	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0368	B	0.0100	mg/L	EPA 6010B	QB-01
Magnesium	0.120	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.181	B	0.0020	mg/L	EPA 6010B	QB-01
Potassium	12.6		0.500	mg/L	EPA 6010B	
Selenium	0.0900	B	0.0100	mg/L	EPA 6010B	QB-01
Sodium	59.7		0.500	mg/L	EPA 6010B	
Vanadium	0.0978		0.0100	mg/L	EPA 6010B	
Zinc	0.0087	J	0.0200	mg/L	EPA 6010B	

Client ID: HA-6 (BASE) Lab ID: C805398-06

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	10.2	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.0194	J	0.0200	mg/L	EPA 6010B	
Arsenic	0.0714		0.0100	mg/L	EPA 6010B	
Barium	0.138		0.0100	mg/L	EPA 6010B	
Boron	0.399		0.0100	mg/L	EPA 6010B	
Calcium	46.9	B	0.500	mg/L	EPA 6010B	QB-01
Chromium	0.0060	JB	0.0100	mg/L	EPA 6010B	J-01
Magnesium	0.146	J	0.500	mg/L	EPA 6010B	
Molybdenum	0.120	B	0.0020	mg/L	EPA 6010B	QB-01
Potassium	5.20		0.500	mg/L	EPA 6010B	

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Client ID: TIA-6 (BASE) Lab ID: C805398-06

Analyte	Results	Flag	MRL	Units	Method	Notes
Selenium	0.135	B	0.0100	mg/L	EPA 6010B	Q8-01
Sodium	52.2		0.500	mg/L	EPA 6010B	
Vanadium	0.105		0.0100	mg/L	EPA 6010B	
Zinc	0.0049	J	0.0200	mg/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: HA-5 (TOP)
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C805398-01
Sampled: 05/19/08 13:00
Sampled By: Mike Iwashchenko

Received: 05/23/08 11:05
Work Order: C805398
% Solids:

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**23.0**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 16:22	ACV	Q8-01
Antimony [7440-36-0] ^	**0.0131**	J	mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Arsenic [7440-38-2] ^	**0.0069**	J	mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Barium [7440-39-3] ^	**0.0725**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Boron [7440-42-8] ^	**0.333**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Calcium [7440-70-2] ^	**59.4**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 16:22	ACV	Q8-01
Chromium [7440-47-3] ^	**0.0538**	B	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	Q8-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Iron [7439-89-6] ^	**0.0072**	J	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Magnesium [7439-95-4] ^	**0.136**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:02	RBN	
Molybdenum [7439-98-7] ^	**0.107**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 16:22	ACV	Q8-01
Nickel [7440-02-0] ^	**0.0009**	JB	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 16:22	ACV	J-01
Potassium [7440-09-7] ^	**16.6**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Selenium [7782-49-2] ^	**0.0556**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	Q8-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Sodium [7440-23-5] ^	**80.6**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Vanadium [7440-62-2] ^	**0.0665**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:22	ACV	
Zinc [7440-66-6] ^	**0.0168**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 16:22	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: HA-5 (MID)
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C805398-02
Sampled: 05/19/08 13:00
Sampled By: Mike Iwashchenko

Received: 05/23/08 11:05
Work Order: C805398
% Solids:

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**22.4**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 16:29	ACV	QB-01
Antimony [7440-36-0] ^	**0.0141**	J	mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Arsenic [7440-38-2] ^	**0.0116**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Barium [7440-39-3] ^	**0.0811**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Boron [7440-42-8] ^	**0.376**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Calcium [7440-70-2] ^	**63.9**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 16:29	ACV	QB-01
Chromium [7440-47-3] ^	**0.0640**	B	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	QB-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Magnesium [7439-95-4] ^	**0.152**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:07	RBN	
Molybdenum [7439-98-7] ^	**0.134**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 16:29	ACV	QB-01
Nickel [7440-02-0] ^	**0.0010**	JB	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 16:29	ACV	J-01
Potassium [7440-09-7] ^	**16.5**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Selenium [7782-49-2] ^	**0.0699**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	QB-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Sodium [7440-23-5] ^	**84.8**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Vanadium [7440-62-2] ^	**0.0590**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:29	ACV	
Zinc [7440-66-6] ^	**0.0170**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 16:29	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	HA-5 (BASE)	**Lab Sample ID:**	C805398-03	**Received:**	05/23/08 11:05
Matrix:	Soil	**Sampled:**	05/19/08 14:00	**Work Order:**	C805398
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**20.3**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 16:35	ACV	Q8-01
Antimony [7440-36-0] ^	**0.0130**	J	mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Arsenic [7440-38-2] ^	**0.0141**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Barium [7440-39-3] ^	**0.0624**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Boron [7440-42-8] ^	**0.400**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Calcium [7440-70-2] ^	**67.8**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 16:35	ACV	Q8-01
Chromium [7440-47-3] ^	**0.0315**	B	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	Q8-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Magnesium [7439-95-4] ^	**0.110**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:09	RBN	
Molybdenum [7439-98-7] ^	**0.0793**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 16:35	ACV	Q8-01
Nickel [7440-02-0] ^	**0.0011**	JB	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 16:35	ACV	J-01
Potassium [7440-09-7] ^	**9.45**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Selenium [7782-49-2] ^	**0.0560**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	Q8-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Sodium [7440-23-5] ^	**59.9**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Vanadium [7440-62-2] ^	**0.0698**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:35	ACV	
Zinc [7440-66-6] ^	**0.0096**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 16:35	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: HA-6 (TOP)
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C805398-04
Sampled: 05/19/08 14:07
Sampled By: Mike Iwashchenko

Received: 05/23/08 11:05
Work Order: C805398
% Solids:

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**17.6**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 16:42	ACV	QB-01
Antimony [7440-36-0] ^	**0.0129**	J	mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Arsenic [7440-38-2] ^	**0.0336**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Barium [7440-39-3] ^	**0.0954**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Boron [7440-42-8] ^	**0.229**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Calcium [7440-70-2] ^	**54.3**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 16:42	ACV	QB-01
Chromium [7440-47-3] ^	**0.0163**	B	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	QB-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Magnesium [7439-95-4] ^	**0.135**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:11	RBN	
Molybdenum [7439-98-7] ^	**0.0493**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 16:42	ACV	QB-01
Nickel [7440-02-0] ^	**0.0015**	JB	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 16:42	ACV	J-01
Potassium [7440-09-7] ^	**3.90**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Selenium [7782-49-2] ^	**0.0722**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	QB-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Sodium [7440-23-5] ^	**32.9**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Vanadium [7440-62-2] ^	**0.0768**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 16:42	ACV	
Zinc [7440-66-6] ^	**0.0175**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 16:42	ACV	

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Description:	HA-6 (MID)	**Lab Sample ID:**	C805398-05	**Received:**	05/23/08 11:05
Matrix:	Soil	**Sampled:**	05/19/08 14:07	**Work Order:**	C805398
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**17.6**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 17:07	ACV	QB-01
Antimony [7440-36-0] ^	**0.0175**	J	mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Arsenic [7440-38-2] ^	**0.0430**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Barium [7440-39-3] ^	**0.121**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Boron [7440-42-8] ^	**0.284**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Calcium [7440-70-2] ^	**57.5**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 17:07	ACV	QB-01
Chromium [7440-47-3] ^	**0.0368**	B	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	QB-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Magnesium [7439-95-4] ^	**0.120**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:12	RBN	
Molybdenum [7439-98-7] ^	**0.181**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 17:07	ACV	QB-01
Nickel [7440-02-0] ^	0.0008	U	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Potassium [7440-09-7] ^	**12.6**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Selenium [7782-49-2] ^	**0.0900**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	QB-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Sodium [7440-23-5] ^	**59.7**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Vanadium [7440-62-2] ^	**0.0978**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:07	ACV	
Zinc [7440-66-6] ^	**0.0087**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 17:07	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: HA-6 (BASE)
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C805398-06
Sampled: 05/19/08 14:55
Sampled By: Mike Iwashchenko

Received: 05/23/08 11:05
Work Order: C805398
% Solids:

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**10.2**	B	mg/L	1	0.0220	0.200	8F03018	EPA 6010B	06/06/08 17:14	ACV	QB-01
Antimony [7440-36-0] ^	**0.0194**	J	mg/L	1	0.0031	0.0200	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Arsenic [7440-38-2] ^	**0.0714**		mg/L	1	0.0024	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Barium [7440-39-3] ^	**0.138**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Boron [7440-42-8] ^	**0.399**		mg/L	1	0.0019	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Calcium [7440-70-2] ^	**46.9**	B	mg/L	1	0.0130	0.500	8F03018	EPA 6010B	06/06/08 17:14	ACV	QB-01
Chromium [7440-47-3] ^	**0.0060**	JB	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	J-01
Cobalt [7440-48-4] ^	0.0002	U	mg/L	1	0.0002	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Iron [7439-89-6] ^	0.0048	U	mg/L	1	0.0048	0.0500	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Magnesium [7439-95-4] ^	**0.146**	J	mg/L	1	0.0150	0.500	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Manganese [7439-96-5] ^	0.0002	U	mg/L	1	0.0002	0.0020	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8F02015	EPA 7470A	06/03/08 10:14	RBN	
Molybdenum [7439-98-7] ^	**0.120**	B	mg/L	1	0.0001	0.0020	8F03018	EPA 6010B	06/06/08 17:14	ACV	QB-01
Nickel [7440-02-0] ^	0.0008	U	mg/L	1	0.0008	0.0500	8F03018	EPA 6010B	06/06/08 17:14	ACV	J-01
Potassium [7440-09-7] ^	**5.20**		mg/L	1	0.054	0.500	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Selenium [7782-49-2] ^	**0.135**	B	mg/L	1	0.0037	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	QB-01
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Sodium [7440-23-5] ^	**52.2**		mg/L	1	0.0380	0.500	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Vanadium [7440-62-2] ^	**0.105**		mg/L	1	0.0004	0.0100	8F03018	EPA 6010B	06/06/08 17:14	ACV	
Zinc [7440-66-6] ^	**0.0049**	J	mg/L	1	0.0029	0.0200	8F03018	EPA 6010B	06/06/08 17:14	ACV	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8F02015 - EPA 7470A

Blank (8F02015-BLK1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

Blank (8F02015-BLK2) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

LCS (8F02015-BS1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00529		0.00020	mg/L	0.00500		106	85-115			

Matrix Spike (8F02015-MS1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:47

Source: B803734-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limits	Notes
Mercury	0.00625		0.00020	mg/L	0.00500	0.000054 U	125	85-115			QM-14

Matrix Spike Dup (8F02015-MSD1) Prepared: 06/02/2008 12:02 Analyzed: 06/03/2008 09:49

Source: B803734-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limits	Notes
Mercury	0.00641		0.00020	mg/L	0.00500	0.000054 U	128	85-115	2	25	QM-14

Batch 8F03018 - EPA 3010A

Blank (8F03018-BLK1) Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 12:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0220	U	0.200	mg/L							
Antimony	0.0031	U	0.0200	mg/L							
Arsenic	0.0024	U	0.0100	mg/L							
Barium	0.0004	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0019	U	0.0100	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0415**	**J**	0.500	mg/L							
Chromium	**0.0007**	**J**	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0002	U	0.0020	mg/L							
Molybdenum	**0.0007**	**J**	0.0020	mg/L							
Nickel	0.0008	U	0.0500	mg/L							
Potassium	0.054	U	0.500	mg/L							

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8F03018 - EPA 3010A

Blank (8F03018-BLK1) Continued Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 12:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	**0.0037**	J	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	0.0380	U	0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0029	U	0.0200	mg/L							

Blank (8F03018-BLK2) Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 15:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**0.0222**	J	0.200	mg/L							
Antimony	0.0031	U	0.0200	mg/L							
Arsenic	0.0024	U	0.0100	mg/L							
Barium	0.0004	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0019	U	0.0100	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0431**	J	0.500	mg/L							
Chromium	**0.0011**	J	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0002	U	0.0020	mg/L							
Molybdenum	0.0001	U	0.0020	mg/L							
Nickel	**0.0012**	J	0.0500	mg/L							
Potassium	0.054	U	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	0.0380	U	0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	0.0029	U	0.0200	mg/L							

Blank (8F03018-BLK3) Prepared: 06/03/2008 13:34 Analyzed: 06/06/2008 12:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.0155	U	0.100	mg/L							
Arsenic	0.0120	U	0.0500	mg/L							
Beryllium	0.0008	U	0.0050	mg/L							
Cadmium	0.0009	U	0.0050	mg/L							
Cobalt	0.0012	U	0.0500	mg/L							
Copper	0.0060	U	0.0500	mg/L							
Iron	0.0240	U	0.250	mg/L							
Lead	0.0080	U	0.0500	mg/L							
Molybdenum	0.0007	U	0.0100	mg/L							
Selenium	0.0185	U	0.0500	mg/L							

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8F03018 - EPA 3010A

Blank (8F03018-BLK3) Continued Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 21:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	0.0020	U	0.0500	mg/L							
Thallium	0.0255	U	0.0500	mg/L							
Vanadium	0.0022	U	0.0500	mg/L							

LCS (8F03018-BS1) Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10.2	B	0.200	mg/L	10.0		102	84-119			
Antimony	0.523		0.0200	mg/L	0.500		105	87-111			
Arsenic	1.01		0.0100	mg/L	1.00		101	89-116			
Barium	1.01		0.0100	mg/L	1.00		101	89-113			
Beryllium	0.501		0.0010	mg/L	0.500		100	90-111			
Boron	1.00		0.0100	mg/L	1.00		100	89-116			
Cadmium	0.507		0.0010	mg/L	0.500		101	90-112			
Calcium	10.0	B	0.500	mg/L	10.0		100	84-118			
Chromium	1.02	B	0.0100	mg/L	1.00		102	89-114			
Cobalt	1.03		0.0100	mg/L	1.00		103	90-114			
Copper	0.514		0.0100	mg/L	0.500		103	90-112			
Iron	10.0		0.0500	mg/L	10.0		100	90-110			
Lead	1.02		0.0100	mg/L	1.00		102	90-113			
Magnesium	10.1		0.500	mg/L	10.0		101	90-111			
Manganese	0.511		0.0020	mg/L	0.500		102	90-112			
Molybdenum	0.502	B	0.0020	mg/L	0.500		100	89-110			
Nickel	1.02	B	0.0500	mg/L	1.00		102	88-116			
Potassium	51.0		0.500	mg/L	50.0		102	90-110			
Selenium	1.04	B	0.0100	mg/L	1.00		104	90-118			
Silver	0.0968		0.0100	mg/L	0.100		97	87-112			
Sodium	51.7		0.500	mg/L	50.0		103	90-113			
Thallium	0.508		0.0100	mg/L	0.500		102	90-112			
Vanadium	0.504		0.0100	mg/L	0.500		101	88-114			
Zinc	1.03		0.0200	mg/L	1.00		103	88-116			

Matrix Spike (8F03018-MS1) Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:11

Source: B803749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	78.7	B	1.00	mg/L	50.0	26.7	104	84-119			
Antimony	2.60		0.100	mg/L	2.50	0.0204	103	87-111			
Arsenic	5.02		0.0500	mg/L	5.00	0.0120 U	100	89-116			
Barium	5.46		0.0500	mg/L	5.00	0.478	100	89-113			
Beryllium	2.49		0.0050	mg/L	2.50	0.0008 U	99	90-111			
Boron	6.83		0.0500	mg/L	5.00	1.85	100	89-116			
Cadmium	2.51		0.0050	mg/L	2.50	0.0009 U	100	90-112			
Calcium	58.4	B	2.50	mg/L	50.0	8.31	100	84-118			
Chromium	5.03	B	0.0500	mg/L	5.00	0.00820	100	89-114			
Cobalt	5.00		0.0500	mg/L	5.00	0.0012 U	100	90-114			
Copper	2.61		0.0500	mg/L	2.50	0.0060 U	104	90-112			
Iron	48.8		0.250	mg/L	50.0	0.0240 U	98	90-110			

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8F03018 - EPA 3010A

Matrix Spike (8F03018-MS1) Continued Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:11

Source: B803749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	5.09		0.0500	mg/L	5.00	0.00887	102	90-113			
Magnesium	51.2		2.50	mg/L	50.0	0.967	101	90-111			
Manganese	2.51		0.0100	mg/L	2.50	0.00260	100	90-112			
Molybdenum	2.50	B	0.0100	mg/L	2.50	0.00501	100	89-110			
Nickel	5.02	B	0.250	mg/L	5.00	0.0137	100	88-116			
Potassium	255		2.50	mg/L	250	1.93	101	90-110			
Selenium	5.24	B	0.0500	mg/L	5.00	0.0185 U	105	90-118			
Silver	0.487		0.0500	mg/L	0.500	0.0020 U	97	87-112			
Sodium	1730		2.50	mg/L	250	1460	108	90-113			
Thallium	2.47		0.0500	mg/L	2.50	0.0255 U	99	90-112			
Vanadium	2.50		0.0500	mg/L	2.50	0.0022 U	100	88-114			
Zinc	5.42		0.100	mg/L	5.00	0.227	104	88-116			

Matrix Spike Dup (8F03018-MSD1) Prepared: 06/03/2008 13:34 Analyzed: 06/05/2008 22:17

Source: B803749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	78.7	B	1.00	mg/L	50.0	26.7	104	84-119	0.02	25	
Antimony	2.60		0.100	mg/L	2.50	0.0204	103	87-111	0.3	25	
Arsenic	5.03		0.0500	mg/L	5.00	0.0120 U	101	89-116	0.2	25	
Barium	5.46		0.0500	mg/L	5.00	0.478	100	89-113	0.2	25	
Beryllium	2.49		0.0050	mg/L	2.50	0.0008 U	100	90-111	0.2	25	
Boron	6.85		0.0500	mg/L	5.00	1.85	100	89-116	0.2	25	
Cadmium	2.52		0.0050	mg/L	2.50	0.0009 U	101	90-112	0.4	25	
Calcium	58.2	B	2.50	mg/L	50.0	8.31	100	84-118	0.3	25	
Chromium	5.05	B	0.0500	mg/L	5.00	0.00820	101	89-114	0.3	25	
Cobalt	5.01		0.0500	mg/L	5.00	0.0012 U	100	90-114	0.2	25	
Copper	2.61		0.0500	mg/L	2.50	0.0060 U	105	90-112	0.3	25	
Iron	48.9		0.250	mg/L	50.0	0.0240 U	98	90-110	0.3	25	
Lead	5.09		0.0500	mg/L	5.00	0.00887	102	90-113	0.1	25	
Magnesium	51.4		2.50	mg/L	50.0	0.967	101	90-111	0.4	25	
Manganese	2.50		0.0100	mg/L	2.50	0.00260	100	90-112	0.07	25	
Molybdenum	2.49	B	0.0100	mg/L	2.50	0.00501	100	89-110	0.4	25	
Nickel	5.04	B	0.250	mg/L	5.00	0.0137	101	88-116	0.5	25	
Potassium	255		2.50	mg/L	250	1.93	101	90-110	0.09	25	
Selenium	5.23	B	0.0500	mg/L	5.00	0.0185 U	105	90-118	0.05	25	
Silver	0.486		0.0500	mg/L	0.500	0.0020 U	97	87-112	0.2	25	
Sodium	1720		2.50	mg/L	250	1460	100	90-113	1	25	
Thallium	2.48		0.0500	mg/L	2.50	0.0255 U	99	90-112	0.2	25	
Vanadium	2.50		0.0500	mg/L	2.50	0.0022 U	100	88-114	0.3	25	
Zinc	5.43		0.100	mg/L	5.00	0.227	104	88-116	0.3	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the assocatiated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-14	Confirmed matrix effects

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

18775 Central Park Dr. Orlando, FL 32821 (407) 820-3314 Fax (407) 850-0715
1597 Executive Park Court, Suite 211 Jacksonville, FL 32216-0069 (904) 296-3007 Fax (904) 296-6210
1015 Passport Way Cary, NC 27513 (919) 677-1669 Fax (919) 677-0446

Page 1 of 1

Client Name: Cimley-Hon + Associates	Project Number: 116436000
Address: 501 Independence Pkwy Ste 300	Project Name/Desc: Battlefield Fly-Ash
City/State: Chesapeake, VA 23320	PO # (Billing Info):
Tel: 757-548-7300 Fax: 757-548-7301	Reporting Contact:
Sampler(s) Name, Affiliation (Print): M. Iwashchenko	Billing Contact: M. Iwashchenko
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analysis: SPLP

Requested Turnaround Times: Note: Rush requests subject to acceptance by the lab.
X Standard
__ Expedited
Due __/__/__

Lab Workorder: C805398

Preservation (See Codes) (Contain as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp/Grab	Matrix (see codes)	Total # of Containers	SPLP	Sample Comments
	HA-5 (top)	5-19-08	1:00	G	SE	2	X	26" - 45"
	HA-5 (MID)	↓	↓	↓	↓	2	X	45" - 62"
	HA-5 (BASE)	↓	2:00	↓	↓	2	X	83" - 96"
	HA-6 (top)	↓	2:07	↓	↓	2	X	13" - 33"
	HA-6 (MID)	↓	↓	↓	↓	2	X	50" - 72"
	HA-6 (BASE)	↓	2:55	↓	↓	2	X	126" - 144"

← Total # of Containers

Sample Rel. Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	5/22/08 5:00	Bianca Gregory	5/23/08 11:05
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: On Ice		Condition Upon Receipt: __ Acceptable __ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: Ice HCl HNO3 SH2SO4 NaOH O-Other (detail in comments)

Note: All samples submitted by ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

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Tuesday, July 22, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: Battleground Golf Course, Project Name/Desc: Fly Ash
ENCO Workorder: C807784

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, July 15, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 14.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: OFB | Lab ID: C807784-01 | Sampled: 07/14/08 13:10 | Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/21/08	07/18/08 10:30	7/22/2008 12:23
EPA 160.2	07/21/08	07/17/08 10:35	7/18/2008 09:13
EPA 300.0	08/11/08	07/17/08 11:41	7/19/2008 10:13
EPA 310.2	07/28/08	07/16/08 07:23	7/16/2008 10:48
EPA 353.2	08/11/08	07/21/08 07:56	7/21/2008 10:48
EPA 365.4	08/11/08	07/21/08 10:12	7/21/2008 15:52
EPA 6010B	01/10/09	07/16/08 06:45	7/17/2008 13:21
EPA 7470A	08/11/08	07/16/08 06:51	7/16/2008 15:50
SM4500-Cl/E	08/11/08	07/16/08 07:26	7/16/2008 10:18

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SAMPLE DETECTION SUMMARY

Client ID: OFB Lab ID: C807784-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	253	B	100	ug/L	EPA 6010B	
Barium	2.60	J	10.0	ug/L	EPA 6010B	
Calcium	520		100	ug/L	EPA 6010B	
Iron	220		50	ug/L	EPA 6010B	
Magnesium	85	J	100	ug/L	EPA 6010B	
Manganese	5.6	J	10.0	ug/L	EPA 6010B	
Phosphorus	0.10		0.10	mg/L	EPA 365.4	
Thallium	5.3	J	10.0	ug/L	EPA 6010B	
Total Alkalinity	4.3	JB	15	mg/L	EPA 310.2	J-01
Total Dissolved Solids	14		10	mg/L	EPA 160.1	
Total Suspended Solids	5.0		1.0	mg/L	EPA 160.2	
Zinc	8.7	J	10.0	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: OFB
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807784-01
Sampled: 07/14/08 13:10
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807784

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**253**	B	ug/L	1	17	100	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Barium [7440-39-3] ^	**2.60**	J	ug/L	1	1.00	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Boron [7440-42-8] ^	5.0	U	ug/L	1	5.0	50.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Calcium [7440-70-2] ^	**520**		ug/L	1	20.0	100	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Iron [7439-89-6] ^	**220**		ug/L	1	22	50	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Magnesium [7439-95-4] ^	**85**	J	ug/L	1	23	100	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Manganese [7439-96-5] ^	**5.6**	J	ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G16002	EPA 7470A	07/16/08 15:50	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Nickel [7440-02-0] ^	1.8	U	ug/L	1	1.8	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Potassium [7440-09-7] ^	150	U	ug/L	1	150	500	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Sodium [7440-23-5] ^	400	U	ug/L	1	400	500	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Thallium [7440-28-0] ^	**5.3**	J	ug/L	1	4.8	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	
Zinc [7440-66-6] ^	**8.7**	J	ug/L	1	3.8	10.0	8G16001	EPA 6010B	07/17/08 13:21	VLO	

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Description: OFB
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807784-01
Sampled: 07/14/08 13:10
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807784

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	0.50	U	mg/L	1	0.50	5.0	8G16007	SM4500-Cl/E	07/16/08 10:18	PEV	
Fluoride [16984-48-8]	0.01	U	mg/L	1	0.01	0.20	8G17018	EPA 300.0	07/19/08 10:13	AJ	
Nitrate/Nitrite as N [NA]	0.017	U	mg/L	1	0.017	0.10	8G21005	EPA 353.2	07/21/08 10:48	PEV	
Phosphorus [7723-14-0]	**0.10**		mg/L	1	0.050	0.10	8G21007	EPA 365.4	07/21/08 15:52	PEV	
Sulfate as SO4 [14808-79-8]	0.05	U	mg/L	1	0.05	5.0	8G17018	EPA 300.0	07/19/08 10:13	AJ	
Total Alkalinity [NA]	**4.3**	JB	mg/L	1	2.7	15	8G16005	EPA 310.2	07/16/08 10:48	PEV	J-01
Total Dissolved Solids [NA]	**14**		mg/L	1	10	10	8G17008	EPA 160.1	07/22/08 12:23	JOC	
Total Suspended Solids [NA]	**5.0**		mg/L	1	1.0	1.0	8G17006	EPA 160.2	07/18/08 09:13	FLT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G16001 - EPA 3005A

Blank (8G16001-BLK1) Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 10:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**46**	**J**	100	ug/L							
Antimony	1.0	U	10.0	ug/L							
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	**0.10**	**J**	1.00	ug/L							
Boron	5.0	U	50.0	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Calcium	20.0	U	100	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22	U	50	ug/L							
Lead	1.9	U	10.0	ug/L							
Magnesium	23	U	100	ug/L							
Manganese	1.1	U	10.0	ug/L							
Molybdenum	2.5	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Potassium	150	U	500	ug/L							
Selenium	**3.0**	**J**	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Sodium	400	U	500	ug/L							
Thallium	4.8	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8G16001-BS1) Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 10:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	4980	B	100	ug/L	5000		100	77-130			
Antimony	256		10.0	ug/L	250		103	82-119			
Arsenic	518		10.0	ug/L	500		104	82-117			
Barium	513		10.0	ug/L	500		103	72-125			
Beryllium	260	B	1.00	ug/L	250		104	75-121			
Boron	520		50.0	ug/L	500		104	75-122			
Cadmium	260		1.00	ug/L	250		104	72-120			
Calcium	5020		100	ug/L	5000		100	81-111			
Chromium	503		10.0	ug/L	500		101	78-119			
Cobalt	497		10.0	ug/L	500		99	76-117			
Copper	252		10.0	ug/L	250		101	80-117			
Iron	5010		50	ug/L	5000		100	84-133			
Lead	505		10.0	ug/L	500		101	72-121			
Magnesium	5250		100	ug/L	5000		105	81-117			
Manganese	251		10.0	ug/L	250		100	76-123			
Molybdenum	238		10.0	ug/L	250		95	83-112			
Nickel	512		10.0	ug/L	500		102	78-116			
Potassium	23700		500	ug/L	25000		95	84-112			
Selenium	531	B	10.0	ug/L	500		106	82-127			
Silver	49.7		10.0	ug/L	50.0		99	80-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G16001 - EPA 3005A

LCS (8G16001-BS1) Continued Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 10:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	23100		500	ug/L	25000		92	81-120			
Thallium	257		10.0	ug/L	250		103	79-118			
Vanadium	245		10.0	ug/L	250		98	78-117			
Zinc	506		10.0	ug/L	500		101	80-120			

Matrix Spike (8G16001-MS1) Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 11:08

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	79200	B	100	ug/L	5000	69500	194	78-125			QM-07
Antimony	100		10.0	ug/L	250	1.0 U	40	38-138			
Arsenic	509		10.0	ug/L	500	71.3	88	64-126			
Barium	718		10.0	ug/L	500	265	91	74-119			
Beryllium	229	B	1.00	ug/L	250	3.00	90	70-131			
Boron	512		50.0	ug/L	500	56.4	91	77-114			
Cadmium	203		1.00	ug/L	250	0.36 U	81	68-121			
Calcium	61200		100	ug/L	5000	56900	87	63-131			
Chromium	592		10.0	ug/L	500	158	87	73-120			
Cobalt	522		10.0	ug/L	500	96.3	85	76-120			
Copper	258		10.0	ug/L	250	32.5	90	75-123			
Iron	134000		50	ug/L	5000	129000	96	48-144			
Lead	496		10.0	ug/L	500	66.8	86	68-126			
Magnesium	38600		100	ug/L	5000	33700	98	59-129			
Manganese	1120		10.0	ug/L	250	907	84	55-146			
Molybdenum	145		10.0	ug/L	250	2.5 U	58	72-118			QM-07
Nickel	635		10.0	ug/L	500	187	89	64-126			
Potassium	35500		500	ug/L	25000	10500	100	53-121			
Selenium	424	B	10.0	ug/L	500	2.7 U	85	65-129			
Silver	38.7		10.0	ug/L	50.0	1.9 U	77	69-121			
Sodium	48300		500	ug/L	25000	22700	102	29-171			
Thallium	197		10.0	ug/L	250	4.8 U	79	67-135			
Vanadium	419		10.0	ug/L	250	202	87	71-130			
Zinc	948		10.0	ug/L	500	524	85	63-131			

Matrix Spike Dup (8G16001-MSD1) Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 11:15

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	80600	B	100	ug/L	5000	69500	220	78-125	2	22	QM-07
Antimony	96.5		10.0	ug/L	250	1.0 U	39	38-138	4	30	
Arsenic	506		10.0	ug/L	500	71.3	87	64-126	0.6	12	
Barium	718		10.0	ug/L	500	265	91	74-119	0.01	11	
Beryllium	228	B	1.00	ug/L	250	3.00	90	70-131	0.2	21	
Boron	511		50.0	ug/L	500	56.4	91	77-114	0.08	11	
Cadmium	202		1.00	ug/L	250	0.36 U	81	68-121	0.4	12	
Calcium	60500		100	ug/L	5000	56900	73	63-131	1	22	
Chromium	593		10.0	ug/L	500	158	87	73-120	0.2	10	
Cobalt	521		10.0	ug/L	500	96.3	85	76-120	0.2	17	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G16001 - EPA 3005A

Matrix Spike Dup (8G16001-MSD1) Continued Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 11:15

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	257		10.0	ug/L	250	32.5	90	75-123	0.4	16	
Iron	135000		50	ug/L	5000	129000	116	48-144	0.7	23	
Lead	494		10.0	ug/L	500	66.8	85	68-126	0.4	19	
Magnesium	38600		100	ug/L	5000	33700	97	59-129	0.2	22	
Manganese	1120		10.0	ug/L	250	907	83	55-146	0.09	19	
Molybdenum	145		10.0	ug/L	250	2.5 U	58	72-118	0.07	12	QM-07
Nickel	633		10.0	ug/L	500	187	89	64-126	0.2	12	
Potassium	35700		500	ug/L	25000	10500	101	53-121	0.4	20	
Selenium	424	B	10.0	ug/L	500	2.7 U	85	65-129	0.1	10	
Silver	36.9		10.0	ug/L	50.0	1.9 U	74	69-121	5	12	
Sodium	47800		500	ug/L	25000	22700	100	29-171	1	21	
Thallium	194		10.0	ug/L	250	4.8 U	78	67-135	1	13	
Vanadium	420		10.0	ug/L	250	202	87	71-130	0.3	16	
Zinc	950		10.0	ug/L	500	524	85	63-131	0.2	24	

Batch 8G16002 - EPA 7470A

Blank (8G16002-BLK1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8G16002-BS1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 14:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.57		0.20	ug/L	5.00		91	87-123			

Matrix Spike (8G16002-MS1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 14:57

Source: C807785-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.02		0.20	ug/L	5.00	0.11 U	100	63-132			

Matrix Spike Dup (8G16002-MSD1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 15:00

Source: C807785-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.09		0.20	ug/L	5.00	0.11 U	102	63-132	1	10	

Post Spike (8G16002-PS1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 15:04

Source: C807785-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.98		0.20	ug/L	5.00	-0.03	100	0-200			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G16005 - NO PREP

Blank (8G16005-BLK1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	**5.4**	J	15	mg/L							

LCS (8G16005-BS1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	97	B	15	mg/L	100		97	80-120			

Matrix Spike (8G16005-MS1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:49

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	95	B	15	mg/L	100	4.3	91	80-120			

Matrix Spike Dup (8G16005-MSD1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:50

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	94	B	15	mg/L	100	4.3	90	80-120	0.8	25	

Batch 8G16007 - NO PREP

Blank (8G16007-BLK1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	**1.1**	J	5.0	mg/L							

LCS (8G16007-BS1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100	B	5.0	mg/L	100		102	80-120			

Matrix Spike (8G16007-MS1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:19

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100	B	5.0	mg/L	100	0.17	100	80-120			

Matrix Spike Dup (8G16007-MSD1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:19

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	98	B	5.0	mg/L	100	0.17	98	80-120	2	25	

Batch 8G17006 - NO PREP

Blank (8G17006-BLK1) Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G17006 - NO PREP

Blank (8G17006-BLK1) Continued Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8G17006-BS1) Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	91		1.0	mg/L	80.0		114	82-119			

Duplicate (8G17006-DUP1) Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

Source: C807775-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	13		1.0	mg/L		12			4	10	

Batch 8G17008 - NO PREP

Blank (8G17008-BLK1) Prepared: 07/18/2008 10:30 Analyzed: 07/22/2008 12:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (8G17008-BS1) Prepared: 07/18/2008 10:30 Analyzed: 07/22/2008 12:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	310		10	mg/L	300		102	90-110			

Duplicate (8G17008-DUP1) Prepared: 07/18/2008 10:30 Analyzed: 07/22/2008 12:23

Source: C807358-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	64		10	mg/L		62			3	10	

Batch 8G17018 - NO PREP

Blank (8G17018-BLK1) Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 13:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	**0.01**	J	0.20	mg/L							
Sulfate as SO4	**2.7**	J	5.0	mg/L							

LCS (8G17018-BS1) Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 14:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.91	B	0.20	mg/L	1.00		91	90-110			
Sulfate as SO4	47	B	5.0	mg/L	50.0		94	90-110			

Matrix Spike (8G17018-MS1) Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 22:21

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G17018 - NO PREP

Matrix Spike (8G17018-MS1) Continued Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 22:21

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.3	B	0.20	mg/L	1.00	0.40	93	90-110			
Sulfate as SO4	190	BE	5.0	mg/L	50.0	140	89	90-110			QM-16

Matrix Spike Dup (8G17018-MSD1) Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 22:51

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.3	B	0.20	mg/L	1.00	0.40	92	90-110	1	10	
Sulfate as SO4	190	BE	5.0	mg/L	50.0	140	88	90-110	0.2	10	QM-16

Batch 8G21005 - NO PREP

Blank (8G21005-BLK1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.017	J	0.10	mg/L							

LCS (8G21005-BS1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2	B	0.10	mg/L	1.25		99	80-120			

Matrix Spike (8G21005-MS1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:09

Source: C807073-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.1	B	0.10	mg/L	1.28	0.017 U	88	80-120			

Matrix Spike Dup (8G21005-MSD1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:11

Source: C807073-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2	B	0.10	mg/L	1.28	0.017 U	90	80-120	2	25	

Batch 8G21007 - Same

Blank (8G21007-BLK1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8G21007-BS1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		102	80-120			

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G21007 - Same

Matrix Spike (8G21007-MS1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:29

Source: C807233-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.6		0.10	mg/L	1.60	1.1	97	80-120			

Matrix Spike Dup (8G21007-MSD1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:31

Source: C807233-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.7		0.10	mg/L	1.60	1.1	99	80-120	1	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-16	Matrix spike recovery could not be calculated due to high concentrations of analyte in source sample.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 859-6945
5810 Executive Park Court, Suite 211 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3650 Fax (919) 467-3515

Page 1 of 1

Client Name: Kimley-Horn + Assoc	Project Number: Battlefield Golf Course
Address: 501 Independence Pkwy	Project Name/Desc:
City/St/Zip: Chesapeake, VA 23320	Invoice Billing Info:
Tel: 757-518-3000 Fax: 757-518-3001	Reporting Contact:
Sampler(s) Name, Affiliation (Print): Michele Ward	Billing Contact:
Sampler(s) Signature: Michele Ward	Facility # (if required):

Requested Analyses: TSS, TDS, Fluoride, Chloride, Sulfate, NO3, Alkalinity, Se, Ni, Cr, Hg, Pb, Cu, Mn, Cd, Cr, Cu, B, Mo, Zn, Be, Hg, Ag, Al

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. + Standard ___ Expedited Due __/__/__

Lab Workorder: C807784

Preservation (See Codes) (Continue as necessary)

Item #	Sample ID (Field Identifier)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers										Sample Comments
	OFB	7/14/08	1310	G	GW	6	X	X	X	X	X	X	X	X	X	

<- Total # of Containers

Sample Kit Prepared By:	Date/Time:	Relinquished By: Michele Ward	Date/Time: 7/14/08 1500	Received By: Briana Gregory	Date/Time: 7/15/08 11:00
Comments:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-436 3.5°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW Groundwater SD Solid SE Sediment SW Surface Water WW Wastewater A Air O Other (details in comments)

Preservation: Hcl HNO3 NaOH H2SO4 NO HOOH O Other (details in comments)

Note: All services subject to ENCO Lab's terms and conditions which are found on the reverse of this form, unless prior written agreements exist.

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Tuesday, July 22, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: Battleground Golf Course, Project Name/Desc: Fly Ash
ENCO Workorder: C807785

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, July 15, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 23.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-3 | **Lab ID: C807785-01** | **Sampled: 07/14/08 12:42** | **Received: 07/15/08 11:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/21/08	07/18/08 10:30	7/22/2008 12:23
EPA 160.2	07/21/08	07/17/08 10:35	7/18/2008 09:13
EPA 300.0	08/11/08	07/17/08 11:41	7/19/2008 10:43
EPA 310.2	07/28/08	07/16/08 07:23	7/16/2008 10:51
EPA 353.2	08/11/08	07/21/08 07:56	7/21/2008 10:50
EPA 365.4	08/11/08	07/21/08 10:12	7/21/2008 15:53
EPA 6010B	01/10/09	07/16/08 06:45	7/17/2008 11:01
EPA 7470A	08/11/08	07/16/08 06:51	7/16/2008 15:10
SM4500-Cl/E	08/11/08	07/16/08 07:26	7/16/2008 10:20

Client ID: MW-3 | **Lab ID: C807785-01RE1** | **Sampled: 07/14/08 12:42** | **Received: 07/15/08 11:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/11/08	07/17/08 11:41	7/19/2008 11:13

Client ID: MW-3D | **Lab ID: C807785-02** | **Sampled: 07/14/08 12:42** | **Received: 07/15/08 11:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/21/08	07/18/08 10:30	7/22/2008 12:23
EPA 160.2	07/21/08	07/17/08 10:35	7/18/2008 09:13
EPA 300.0	08/11/08	07/17/08 11:41	7/19/2008 11:42
EPA 310.2	07/28/08	07/16/08 07:23	7/16/2008 10:52
EPA 353.2	08/11/08	07/21/08 07:56	7/21/2008 10:52
EPA 365.4	08/11/08	07/21/08 10:12	7/21/2008 15:54
EPA 6010B	01/10/09	07/16/08 06:45	7/17/2008 13:52
EPA 7470A	08/11/08	07/16/08 06:51	7/16/2008 15:53
SM4500-Cl/E	08/11/08	07/16/08 07:26	7/16/2008 10:20

Client ID: MW-3D | **Lab ID: C807785-02RE1** | **Sampled: 07/14/08 12:42** | **Received: 07/15/08 11:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/11/08	07/17/08 11:41	7/19/2008 12:12

Client ID: MW-1 | **Lab ID: C807785-03** | **Sampled: 07/14/08 12:24** | **Received: 07/15/08 11:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/21/08	07/18/08 10:30	7/22/2008 12:23
EPA 160.2	07/21/08	07/17/08 10:35	7/18/2008 09:13
EPA 300.0	08/11/08	07/17/08 11:41	7/19/2008 12:42
EPA 310.2	07/28/08	07/16/08 07:23	7/16/2008 10:52
EPA 353.2	08/11/08	07/21/08 07:56	7/21/2008 10:54
EPA 365.4	08/11/08	07/21/08 10:12	7/21/2008 15:56
EPA 6010B	01/10/09	07/16/08 06:45	7/17/2008 13:59
EPA 7470A	08/11/08	07/16/08 06:51	7/16/2008 16:04
SM4500-Cl/E	08/11/08	07/16/08 07:26	7/16/2008 10:21

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Client ID: MW-2	Lab ID: C807785-04	Sampled: 07/14/08 12:30	Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/21/08	07/18/08 10:30	7/22/2008 12:23
EPA 160.2	07/21/08	07/17/08 10:35	7/18/2008 09:13
EPA 300.0	08/11/08	07/17/08 11:41	7/19/2008 14:11
EPA 310.2	07/28/08	07/16/08 07:23	7/16/2008 10:53
EPA 353.2	08/11/08	07/21/08 07:56	7/21/2008 10:56
EPA 365.4	08/11/08	07/21/08 10:12	7/21/2008 15:58
EPA 6010B	01/10/09	07/16/08 06:45	7/17/2008 14:06
EPA 7470A	08/11/08	07/16/08 06:51	7/16/2008 14:54
SM4500-Cl/E	08/11/08	07/16/08 07:26	7/16/2008 10:22

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SAMPLE DETECTION SUMMARY

Client ID: MW-3 — **Lab ID: C807785-01**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	69500	B	100	ug/L	EPA 6010B	
Arsenic	71.3		10.0	ug/L	EPA 6010B	
Barium	265		10.0	ug/L	EPA 6010B	
Beryllium	3.00	B	1.00	ug/L	EPA 6010B	
Boron	56.4		50.0	ug/L	EPA 6010B	
Calcium	56900		100	ug/L	EPA 6010B	
Chloride	44	B	5.0	mg/L	SM4500-Cl/E	QB-01
Chromium	158		10.0	ug/L	EPA 6010B	
Cobalt	96.3		10.0	ug/L	EPA 6010B	
Copper	32.5		10.0	ug/L	EPA 6010B	
Fluoride	0.40	B	0.20	mg/L	EPA 300.0	QB-01
Iron	129000		50	ug/L	EPA 6010B	
Lead	66.8		10.0	ug/L	EPA 6010B	
Magnesium	33700		100	ug/L	EPA 6010B	
Manganese	907		10.0	ug/L	EPA 6010B	
Mercury	0.12	J	0.20	ug/L	EPA 7470A	
Nickel	187		10.0	ug/L	EPA 6010B	
Potassium	10500		500	ug/L	EPA 6010B	
Sodium	22700		500	ug/L	EPA 6010B	
Total Alkalinity	61	B	15	mg/L	EPA 310.2	QB-01
Total Dissolved Solids	380		10	mg/L	EPA 160.1	
Total Suspended Solids	2600		1.0	mg/L	EPA 160.2	
Vanadium	202		10.0	ug/L	EPA 6010B	
Zinc	524		10.0	ug/L	EPA 6010B	

Client ID: MW-3 — **Lab ID: C807785-01RE1**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	130	BD	10	mg/L	EPA 300.0	QB-01

Client ID: MW-3D — **Lab ID: C807785-02**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	37600	B	100	ug/L	EPA 6010B	
Arsenic	39.9		10.0	ug/L	EPA 6010B	
Barium	148		10.0	ug/L	EPA 6010B	
Beryllium	1.00	B	1.00	ug/L	EPA 6010B	
Boron	49.6	J	50.0	ug/L	EPA 6010B	
Calcium	59000		100	ug/L	EPA 6010B	
Chloride	44	B	5.0	mg/L	SM4500-Cl/E	QB-01
Chromium	89.0		10.0	ug/L	EPA 6010B	
Cobalt	52.1		10.0	ug/L	EPA 6010B	
Copper	12.1		10.0	ug/L	EPA 6010B	
Fluoride	0.40	B	0.20	mg/L	EPA 300.0	QB-01
Iron	75900		50	ug/L	EPA 6010B	
Lead	36.3		10.0	ug/L	EPA 6010B	
Magnesium	26300		100	ug/L	EPA 6010B	
Manganese	572		10.0	ug/L	EPA 6010B	
Nickel	111		10.0	ug/L	EPA 6010B	
Phosphorus	0.93		0.10	mg/L	EPA 365.4	
Potassium	7380		500	ug/L	EPA 6010B	

Client ID: MW-3D | Lab ID: C807785-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Sodium	23400		500	ug/L	EPA 6010B	
Total Alkalinity	66	B	15	mg/L	EPA 310.2	QB-01
Total Dissolved Solids	390		10	mg/L	EPA 160.1	
Total Suspended Solids	1200		1.0	mg/L	EPA 160.2	
Vanadium	114		10.0	ug/L	EPA 6010B	
Zinc	307		10.0	ug/L	EPA 6010B	

Client ID: MW-3D | Lab ID: C807785-02RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	130	BD	10	mg/L	EPA 300.0	QB-01

Client ID: MW-1 | Lab ID: C807785-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	26800	B	100	ug/L	EPA 6010B	
Arsenic	22.7		10.0	ug/L	EPA 6010B	
Barium	110		10.0	ug/L	EPA 6010B	
Beryllium	0.90	JB	1.00	ug/L	EPA 6010B	
Boron	37.7	J	50.0	ug/L	EPA 6010B	
Calcium	23700		100	ug/L	EPA 6010B	
Chloride	20	B	5.0	mg/L	SM4500-Cl/E	QB-01
Chromium	58.4		10.0	ug/L	EPA 6010B	
Cobalt	33.9		10.0	ug/L	EPA 6010B	
Copper	5.70	J	10.0	ug/L	EPA 6010B	
Fluoride	0.16	JB	0.20	mg/L	EPA 300.0	QB-01
Iron	48100		50	ug/L	EPA 6010B	
Lead	26.3		10.0	ug/L	EPA 6010B	
Magnesium	19100		100	ug/L	EPA 6010B	
Manganese	416		10.0	ug/L	EPA 6010B	
Nickel	80.2		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.079	JB	0.10	mg/L	EPA 353.2	J-01
Phosphorus	0.75		0.10	mg/L	EPA 365.4	
Potassium	3980		500	ug/L	EPA 6010B	
Sodium	11900		500	ug/L	EPA 6010B	
Sulfate as SO4	79	B	5.0	mg/L	EPA 300.0	QB-01
Total Alkalinity	31	B	15	mg/L	EPA 310.2	J-01
Total Dissolved Solids	230		10	mg/L	EPA 160.1	
Total Suspended Solids	660		1.0	mg/L	EPA 160.2	
Vanadium	72.4		10.0	ug/L	EPA 6010B	
Zinc	235		10.0	ug/L	EPA 6010B	

Client ID: MW-2 | Lab ID: C807785-04

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	16100	B	100	ug/L	EPA 6010B	
Arsenic	21.0		10.0	ug/L	EPA 6010B	
Barium	94.1		10.0	ug/L	EPA 6010B	
Boron	40.1	J	50.0	ug/L	EPA 6010B	
Calcium	58800		100	ug/L	EPA 6010B	
Chloride	36	B	5.0	mg/L	SM4500-Cl/E	QB-01
Chromium	34.2		10.0	ug/L	EPA 6010B	
Cobalt	22.0		10.0	ug/L	EPA 6010B	
Copper	4.40	J	10.0	ug/L	EPA 6010B	

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Client ID: MW-2 Lab ID: C807785-04

Analyte	Results	Flag	MRL	Units	Method	Notes
Fluoride	0.26	B	0.20	mg/L	EPA 300.0	QB-01
Iron	32600		50	ug/L	EPA 6010B	
Lead	15.3		10.0	ug/L	EPA 6010B	
Magnesium	22200		100	ug/L	EPA 6010B	
Manganese	284		10.0	ug/L	EPA 6010B	
Nickel	52.0		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.19	B	0.10	mg/L	EPA 353.2	QB-01
Phosphorus	0.99		0.10	mg/L	EPA 365.4	
Potassium	4350		500	ug/L	EPA 6010B	
Sodium	27300		500	ug/L	EPA 6010B	
Sulfate as SO4	96	B	5.0	mg/L	EPA 300.0	QB-01
Total Alkalinity	89	B	15	mg/L	EPA 310.2	QB-01
Total Dissolved Solids	390		10	mg/L	EPA 160.1	
Total Suspended Solids	180		1.0	mg/L	EPA 160.2	
Vanadium	45.8		10.0	ug/L	EPA 6010B	
Zinc	91.1		10.0	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: MW-3
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807785-01
Sampled: 07/14/08 12:42
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807785

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	69500	B	ug/L	1	17	100	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Arsenic [7440-38-2] ^	71.3		ug/L	1	2.8	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Barium [7440-39-3] ^	265		ug/L	1	1.00	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Beryllium [7440-41-7] ^	3.00	B	ug/L	1	0.10	1.00	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Boron [7440-42-8] ^	56.4		ug/L	1	5.0	50.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Calcium [7440-70-2] ^	56900		ug/L	1	20.0	100	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Chromium [7440-47-3] ^	158		ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Cobalt [7440-48-4] ^	96.3		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Copper [7440-50-8] ^	32.5		ug/L	1	1.60	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Iron [7439-89-6] ^	129000		ug/L	1	22	50	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Lead [7439-92-1] ^	66.8		ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Magnesium [7439-95-4] ^	33700		ug/L	1	23	100	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Manganese [7439-96-5] ^	907		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
ercury [7439-97-6] ^	0.12	J	ug/L	1	0.11	0.20	8G16002	EPA 7470A	07/16/08 15:10	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Nickel [7440-02-0] ^	187		ug/L	1	1.8	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Potassium [7440-09-7] ^	10500		ug/L	1	150	500	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Sodium [7440-23-5] ^	22700		ug/L	1	400	500	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Vanadium [7440-62-2] ^	202		ug/L	1	1.4	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	
Zinc [7440-66-6] ^	524		ug/L	1	3.8	10.0	8G16001	EPA 6010B	07/17/08 11:01	VLO	

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Description: MW-3
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807785-01
Sampled: 07/14/08 12:42
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807785

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**44**	B	mg/L	1	0.50	5.0	8G16007	SM4500-Cl/E	07/16/08 10:20	PEV	QB-01
Fluoride [16984-48-8]	**0.40**	B	mg/L	1	0.01	0.20	8G17018	EPA 300.0	07/19/08 10:43	AJ	QB-01
Nitrate/Nitrite as N [NA]	0.017	U	mg/L	1	0.017	0.10	8G21005	EPA 353.2	07/21/08 10:50	PEV	
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8G21007	EPA 365.4	07/21/08 15:53	PEV	
Sulfate as SO4 [14808-79-8]	**130**	BD	mg/L	2	0.10	10	8G17018	EPA 300.0	07/19/08 11:13	AJ	QB-01
Total Alkalinity [NA]	**61**	B	mg/L	1	2.7	15	8G16005	EPA 310.2	07/16/08 10:51	PEV	QB-01
Total Dissolved Solids [NA]	**380**		mg/L	1	10	10	8G17008	EPA 160.1	07/22/08 12:23	JOC	
Total Suspended Solids [NA]	**2600**		mg/L	1	1.0	1.0	8G17006	EPA 160.2	07/18/08 09:13	FLT	

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Description: MW-3D
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807785-02
Sampled: 07/14/08 12:42
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807785

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**37600**	B	ug/L	1	17	100	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Arsenic [7440-38-2] ^	**39.9**		ug/L	1	2.8	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Barium [7440-39-3] ^	**148**		ug/L	1	1.00	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Beryllium [7440-41-7] ^	**1.00**	B	ug/L	1	0.10	1.00	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Boron [7440-42-8] ^	**49.6**	J	ug/L	1	5.0	50.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Calcium [7440-70-2] ^	**59000**		ug/L	1	20.0	100	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Chromium [7440-47-3] ^	**89.0**		ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Cobalt [7440-48-4] ^	**52.1**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Copper [7440-50-8] ^	**12.1**		ug/L	1	1.60	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Iron [7439-89-6] ^	**75900**		ug/L	1	22	50	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Lead [7439-92-1] ^	**36.3**		ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Magnesium [7439-95-4] ^	**26300**		ug/L	1	23	100	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Manganese [7439-96-5] ^	**572**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G16002	EPA 7470A	07/16/08 15:53	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Nickel [7440-02-0] ^	**111**		ug/L	1	1.8	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
otassium [7440-09-7] ^	**7380**		ug/L	1	150	500	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Sodium [7440-23-5] ^	**23400**		ug/L	1	400	500	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Vanadium [7440-62-2] ^	**114**		ug/L	1	1.4	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	
Zinc [7440-66-6] ^	**307**		ug/L	1	3.8	10.0	8G16001	EPA 6010B	07/17/08 13:52	VLO	

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Description: MW-3D
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807785-02
Sampled: 07/14/08 12:42
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807785

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**44**	B	mg/L	1	0.50	5.0	8G16007	SM4500-Cl/E	07/16/08 10:20	PEV	QB-01
Fluoride [16984-48-8]	**0.40**	B	mg/L	1	0.01	0.20	8G17018	EPA 300.0	07/19/08 11:42	AJ	QB-01
Nitrate/Nitrite as N [NA]	0.017	U	mg/L	1	0.017	0.10	8G21005	EPA 353.2	07/21/08 10:52	PEV	
Phosphorus [7723-14-0]	**0.93**		mg/L	1	0.050	0.10	8G21007	EPA 365.4	07/21/08 15:54	PEV	
Sulfate as SO4 [14808-79-8]	**130**	BD	mg/L	2	0.10	10	8G17018	EPA 300.0	07/19/08 12:12	AJ	QB-01
Total Alkalinity [NA]	**66**	B	mg/L	1	2.7	15	8G16005	EPA 310.2	07/16/08 10:52	PEV	QB-01
Total Dissolved Solids [NA]	**390**		mg/L	1	10	10	8G17008	EPA 160.1	07/22/08 12:23	JOC	
Total Suspended Solids [NA]	**1200**		mg/L	1	1.0	1.0	8G17006	EPA 160.2	07/18/08 09:13	FLT	

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Description: MW-1
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807785-03
Sampled: 07/14/08 12:24
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807785

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**26800**	B	ug/L	1	17	100	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Arsenic [7440-38-2] ^	**22.7**		ug/L	1	2.8	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Barium [7440-39-3] ^	**110**		ug/L	1	1.00	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Beryllium [7440-41-7] ^	**0.90**	JB	ug/L	1	0.10	1.00	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Boron [7440-42-8] ^	**37.7**	J	ug/L	1	5.0	50.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Calcium [7440-70-2] ^	**23700**		ug/L	1	20.0	100	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Chromium [7440-47-3] ^	**58.4**		ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Cobalt [7440-48-4] ^	**33.9**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Copper [7440-50-8] ^	**5.70**	J	ug/L	1	1.60	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Iron [7439-89-6] ^	**48100**		ug/L	1	22	50	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Lead [7439-92-1] ^	**26.3**		ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Magnesium [7439-95-4] ^	**19100**		ug/L	1	23	100	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Manganese [7439-96-5] ^	**416**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G16002	EPA 7470A	07/16/08 16:04	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Nickel [7440-02-0] ^	**80.2**		ug/L	1	1.8	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Potassium [7440-09-7] ^	**3980**		ug/L	1	150	500	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Sodium [7440-23-5] ^	**11900**		ug/L	1	400	500	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Vanadium [7440-62-2] ^	**72.4**		ug/L	1	1.4	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	
Zinc [7440-66-6] ^	**235**		ug/L	1	3.8	10.0	8G16001	EPA 6010B	07/17/08 13:59	VLO	

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Description: MW-1
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807785-03
Sampled: 07/14/08 12:24
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807785

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	20	B	mg/L	1	0.50	5.0	8G16007	SM4500-Cl/E	07/16/08 10:21	PEV	QB-01
Fluoride [16984-48-8]	0.16	JB	mg/L	1	0.01	0.20	8G17018	EPA 300.0	07/19/08 12:42	AJ	QB-01
Nitrate/Nitrite as N [NA]	0.079	JB	mg/L	1	0.017	0.10	8G21005	EPA 353.2	07/21/08 10:54	PEV	J-01
Phosphorus [7723-14-0]	0.75		mg/L	1	0.050	0.10	8G21007	EPA 365.4	07/21/08 15:56	PEV	
Sulfate as SO4 [14808-79-8]	79	B	mg/L	1	0.05	5.0	8G17018	EPA 300.0	07/19/08 12:42	AJ	QB-01
Total Alkalinity [NA]	31	B	mg/L	1	2.7	15	8G16005	EPA 310.2	07/16/08 10:52	PEV	J-01
Total Dissolved Solids [NA]	230		mg/L	1	10	10	8G17008	EPA 160.1	07/22/08 12:23	JOC	
Total Suspended Solids [NA]	660		mg/L	1	1.0	1.0	8G17006	EPA 160.2	07/18/08 09:13	FLT	

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Description: MW-2
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807785-04
Sampled: 07/14/08 12:30
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807785

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**16100**	B	ug/L	1	17	100	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Arsenic [7440-38-2] ^	**21.0**		ug/L	1	2.8	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Barium [7440-39-3] ^	**94.1**		ug/L	1	1.00	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Boron [7440-42-8] ^	**40.1**	J	ug/L	1	5.0	50.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Calcium [7440-70-2] ^	**58800**		ug/L	1	20.0	100	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Chromium [7440-47-3] ^	**34.2**		ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Cobalt [7440-48-4] ^	**22.0**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Copper [7440-50-8] ^	**4.40**	J	ug/L	1	1.60	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Iron [7439-89-6] ^	**32600**		ug/L	1	22	50	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Lead [7439-92-1] ^	**15.3**		ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Magnesium [7439-95-4] ^	**22200**		ug/L	1	23	100	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Manganese [7439-96-5] ^	**284**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G16002	EPA 7470A	07/16/08 14:54	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Nickel [7440-02-0] ^	**52.0**		ug/L	1	1.8	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
otassium [7440-09-7] ^	**4350**		ug/L	1	150	500	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Sodium [7440-23-5] ^	**27300**		ug/L	1	400	500	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Vanadium [7440-62-2] ^	**45.8**		ug/L	1	1.4	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	
Zinc [7440-66-6] ^	**91.1**		ug/L	1	3.8	10.0	8G16001	EPA 6010B	07/17/08 14:06	VLO	

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Description: MW-2
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807785-04
Sampled: 07/14/08 12:30
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807785

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	36	B	mg/L	1	0.50	5.0	8G16007	SM4500-Cl/E	07/16/08 10:22	PEV	QB-01
Fluoride [16984-48-8]	0.26	B	mg/L	1	0.01	0.20	8G17018	EPA 300.0	07/19/08 14:11	AJ	QB-01
Nitrate/Nitrite as N [NA]	0.19	B	mg/L	1	0.017	0.10	8G21005	EPA 353.2	07/21/08 10:56	PEV	QB-01
Phosphorus [7723-14-0]	0.99		mg/L	1	0.050	0.10	8G21007	EPA 365.4	07/21/08 15:58	PEV	
Sulfate as SO4 [14808-79-8]	96	B	mg/L	1	0.05	5.0	8G17018	EPA 300.0	07/19/08 14:11	AJ	QB-01
Total Alkalinity [NA]	89	B	mg/L	1	2.7	15	8G16005	EPA 310.2	07/16/08 10:53	PEV	QB-01
Total Dissolved Solids [NA]	390		mg/L	1	10	10	8G17008	EPA 160.1	07/22/08 12:23	JOC	
Total Suspended Solids [NA]	180		mg/L	1	1.0	1.0	8G17006	EPA 160.2	07/18/08 09:13	FLT	

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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G16001 - EPA 3005A

Blank (8G16001-BLK1) Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 10:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**46**	**J**	100	ug/L							
Antimony	1.0	U	10.0	ug/L							
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	**0.10**	**J**	1.00	ug/L							
Boron	5.0	U	50.0	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Calcium	20.0	U	100	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22	U	50	ug/L							
Lead	1.9	U	10.0	ug/L							
Magnesium	23	U	100	ug/L							
Manganese	1.1	U	10.0	ug/L							
Molybdenum	2.5	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Potassium	150	U	500	ug/L							
Selenium	**3.0**	**J**	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Sodium	400	U	500	ug/L							
Thallium	4.8	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8G16001-BS1) Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 10:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	4980	B	100	ug/L	5000		100	77-130			
Antimony	256		10.0	ug/L	250		103	82-119			
Arsenic	518		10.0	ug/L	500		104	82-117			
Barium	513		10.0	ug/L	500		103	72-125			
Beryllium	260	B	1.00	ug/L	250		104	75-121			
Boron	520		50.0	ug/L	500		104	75-122			
Cadmium	260		1.00	ug/L	250		104	72-120			
Calcium	5020		100	ug/L	5000		100	81-111			
Chromium	503		10.0	ug/L	500		101	78-119			
Cobalt	497		10.0	ug/L	500		99	76-117			
Copper	252		10.0	ug/L	250		101	80-117			
Iron	5010		50	ug/L	5000		100	84-133			
Lead	505		10.0	ug/L	500		101	72-121			
Magnesium	5250		100	ug/L	5000		105	81-117			
Manganese	251		10.0	ug/L	250		100	76-123			
Molybdenum	238		10.0	ug/L	250		95	83-112			
Nickel	512		10.0	ug/L	500		102	78-116			
Potassium	23700		500	ug/L	25000		95	84-112			
Selenium	531	B	10.0	ug/L	500		106	82-127			
Silver	49.7		10.0	ug/L	50.0		99	80-128			

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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G16001 - EPA 3005A

LCS (8G16001-BS1) Continued

Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 10:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	23100		500	ug/L	25000		92	81-120			
Thallium	257		10.0	ug/L	250		103	79-118			
Vanadium	245		10.0	ug/L	250		98	78-117			
Zinc	506		10.0	ug/L	500		101	80-120			

Matrix Spike (8G16001-MS1)

Source: C807785-01

Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 11:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	79200	B	100	ug/L	5000	69500	194	78-125			QM-07
Antimony	100		10.0	ug/L	250	1.0 U	40	38-138			
Arsenic	509		10.0	ug/L	500	71.3	88	64-126			
Barium	718		10.0	ug/L	500	265	91	74-119			
Beryllium	229	B	1.00	ug/L	250	3.00	90	70-131			
Boron	512		50.0	ug/L	500	56.4	91	77-114			
Cadmium	203		1.00	ug/L	250	0.36 U	81	68-121			
Calcium	61200		100	ug/L	5000	56900	87	63-131			
Chromium	592		10.0	ug/L	500	158	87	73-120			
Cobalt	522		10.0	ug/L	500	96.3	85	76-120			
Copper	258		10.0	ug/L	250	32.5	90	75-123			
Iron	134000		50	ug/L	5000	129000	96	48-144			
Lead	496		10.0	ug/L	500	66.8	86	68-126			
Magnesium	38600		100	ug/L	5000	33700	98	59-129			
Manganese	1120		10.0	ug/L	250	907	84	55-146			
Molybdenum	145		10.0	ug/L	250	2.5 U	58	72-118			QM-07
Nickel	635		10.0	ug/L	500	187	89	64-126			
Potassium	35500		500	ug/L	25000	10500	100	53-121			
Selenium	424	B	10.0	ug/L	500	2.7 U	85	65-129			
Silver	38.7		10.0	ug/L	50.0	1.9 U	77	69-121			
Sodium	48300		500	ug/L	25000	22700	102	29-171			
Thallium	197		10.0	ug/L	250	4.8 U	79	67-135			
Vanadium	419		10.0	ug/L	250	202	87	71-130			
Zinc	948		10.0	ug/L	500	524	85	63-131			

Matrix Spike Dup (8G16001-MSD1)

Source: C807785-01

Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 11:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	80600	B	100	ug/L	5000	69500	220	78-125	2	22	QM-07
Antimony	96.5		10.0	ug/L	250	1.0 U	39	38-138	4	30	
Arsenic	506		10.0	ug/L	500	71.3	87	64-126	0.6	12	
Barium	718		10.0	ug/L	500	265	91	74-119	0.01	11	
Beryllium	228	B	1.00	ug/L	250	3.00	90	70-131	0.2	21	
Boron	511		50.0	ug/L	500	56.4	91	77-114	0.08	11	
Cadmium	202		1.00	ug/L	250	0.36 U	81	68-121	0.4	12	
Calcium	60500		100	ug/L	5000	56900	73	63-131	1	22	
Chromium	593		10.0	ug/L	500	158	87	73-120	0.2	10	
Cobalt	521		10.0	ug/L	500	96.3	85	76-120	0.2	17	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G16001 - EPA 3005A

Matrix Spike Dup (8G16001-MSD1) Continued Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 11:15

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	257		10.0	ug/L	250	32.5	90	75-123	0.4	16	
Iron	135000		50	ug/L	5000	129000	116	48-144	0.7	23	
Lead	494		10.0	ug/L	500	66.8	85	68-126	0.4	19	
Magnesium	38600		100	ug/L	5000	33700	97	59-129	0.2	22	
Manganese	1120		10.0	ug/L	250	907	83	55-146	0.09	19	
Molybdenum	145		10.0	ug/L	250	2.5 U	58	72-118	0.07	12	QM-07
Nickel	633		10.0	ug/L	500	187	89	64-126	0.2	12	
Potassium	35700		500	ug/L	25000	10500	101	53-121	0.4	20	
Selenium	424	B	10.0	ug/L	500	2.7 U	85	65-129	0.1	10	
Silver	36.9		10.0	ug/L	50.0	1.9 U	74	69-121	5	12	
Sodium	47800		500	ug/L	25000	22700	100	29-171	1	21	
Thallium	194		10.0	ug/L	250	4.8 U	78	67-135	1	13	
Vanadium	420		10.0	ug/L	250	202	87	71-130	0.3	16	
Zinc	950		10.0	ug/L	500	524	85	63-131	0.2	24	

Batch 8G16002 - EPA 7470A

Blank (8G16002-BLK1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8G16002-BS1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 14:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.57		0.20	ug/L	5.00		91	87-123			

Matrix Spike (8G16002-MS1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 14:57

Source: C807785-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.02		0.20	ug/L	5.00	0.11 U	100	63-132			

Matrix Spike Dup (8G16002-MSD1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 15:00

Source: C807785-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.09		0.20	ug/L	5.00	0.11 U	102	63-132	1	10	

Post Spike (8G16002-PS1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 15:04

Source: C807785-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.98		0.20	ug/L	5.00	-0.03	100	0-200			

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G16005 - NO PREP

Blank (8G16005-BLK1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	5.4	J	15	mg/L							

LCS (8G16005-BS1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	97	B	15	mg/L	100		97	80-120			

Matrix Spike (8G16005-MS1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:49

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	95	B	15	mg/L	100	4.3	91	80-120			

Matrix Spike Dup (8G16005-MSD1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:50

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	94	B	15	mg/L	100	4.3	90	80-120	0.8	25	

Batch 8G16007 - NO PREP

Blank (8G16007-BLK1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	1.1	J	5.0	mg/L							

LCS (8G16007-BS1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100	B	5.0	mg/L	100		102	80-120			

Matrix Spike (8G16007-MS1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:19

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100	B	5.0	mg/L	100	0.17	100	80-120			

Matrix Spike Dup (8G16007-MSD1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:19

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	98	B	5.0	mg/L	100	0.17	98	80-120	2	25	

Batch 8G17006 - NO PREP

Blank (8G17006-BLK1) Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G17006 - NO PREP

Blank (8G17006-BLK1) Continued — Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8G17006-BS1) — Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	91		1.0	mg/L	80.0		114	82-119			

Duplicate (8G17006-DUP1) — Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

Source: C807775-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	13		1.0	mg/L		12			4	10	

Batch 8G17008 - NO PREP

Blank (8G17008-BLK1) — Prepared: 07/18/2008 10:30 Analyzed: 07/22/2008 12:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (8G17008-BS1) — Prepared: 07/18/2008 10:30 Analyzed: 07/22/2008 12:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	310		10	mg/L	300		102	90-110			

Duplicate (8G17008-DUP1) — Prepared: 07/18/2008 10:30 Analyzed: 07/22/2008 12:23

Source: C807358-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	64		10	mg/L		62			3	10	

Batch 8G17018 - NO PREP

Blank (8G17018-BLK1) — Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 13:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.01	J	0.20	mg/L							
Sulfate as SO4	2.7	J	5.0	mg/L							

LCS (8G17018-BS1) — Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 14:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.91	B	0.20	mg/L	1.00		91	90-110			
Sulfate as SO4	47	B	5.0	mg/L	50.0		94	90-110			

Matrix Spike (8G17018-MS1) — Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 22:21

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G17018 - NO PREP

Matrix Spike (8G17018-MS1) Continued Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 22:21

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.3	B	0.20	mg/L	1.00	0.40	93	90-110			
Sulfate as SO4	190	BE	5.0	mg/L	50.0	140	89	90-110			QM-16

Matrix Spike Dup (8G17018-MSD1) Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 22:51

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.3	B	0.20	mg/L	1.00	0.40	92	90-110	1	10	
Sulfate as SO4	190	BE	5.0	mg/L	50.0	140	88	90-110	0.2	10	QM-16

Batch 8G21005 - NO PREP

Blank (8G21005-BLK1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.017	J	0.10	mg/L							

LCS (8G21005-BS1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2	B	0.10	mg/L	1.25		99	80-120			

Matrix Spike (8G21005-MS1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:09

Source: C807073-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.1	B	0.10	mg/L	1.28	0.017 U	88	80-120			

Matrix Spike Dup (8G21005-MSD1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:11

Source: C807073-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2	B	0.10	mg/L	1.28	0.017 U	90	80-120	2	25	

Batch 8G21007 - Same

Blank (8G21007-BLK1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8G21007-BS1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		102	80-120			

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G21007 - Same

Matrix Spike (8G21007-MS1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:29

Source: C807233-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.6		0.10	mg/L	1.60	1.1	97	80-120			

Matrix Spike Dup (8G21007-MSD1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:31

Source: C807233-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.7		0.10	mg/L	1.60	1.1	99	80-120	1	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-16	Matrix spike recovery could not be calculated due to high concentrations of analyte in source sample.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-5945

4810 Executive Park Court, Suite 211 Jacksonville, FL 32210-6909 (904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3085 Fax (919) 467-3696

Page 1 of 1

Client Name: Turnkey Hom-Vasi	Project Name: Bartlesfield Golf Course
Address: 501 Independence Blvd	Project Name/Desc:
City/ST/Zip: Chesapeake, VA 23320	PO# / Billing Info:
Tel: 757-518-3300 Fax: 757-518-3301	Reporting Contact:
Sample(s) Name, Affiliation (Print):	Billing Contact:
Sample(s) Signature:	Facility ID (If required):

Requested Analyses: TSS, TDS, T-Phos, Phenols, Chloride, Sulfate, NO3, Alkalinity, Se, Ni, Cu, Pb, T-Zn, Cd, Cr, Mg, Mn, Ba, Fe, Co, B, Mo, Sn, Be, Ag, Al

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

✓ Expedited

Due ___/___/___

Lab Workorder: C807785

Preservation (See Codes) (Complete as necessary)

Item #	Sample ID (Field Designation)	Collection Date	Collection Time	Comp/Grab	Matrix (use codes)	Total # of Containers	TSS, TDS, T-Phos	Phenols	Chloride	Sulfate	NO3	Alkalinity	Se, Ni, Cu, Pb	B, Cu, Pb, T-Zn	Cd, Cr, Mg, Mn	Ba, Fe, Co, B, Mo	Sn, Be, Ag, Al	Sample Comments
	MW-3	7/14/08	1242	G	GW	6	X	X	X	X	X	X	X	X	X	X		
	MW-3D	↓	1242	↓	↓	6	X	X	X	X	X	X	X	X	X	X		
	MW-1	↓	1224	↓	↓	6	X	X	X	X	X	X	X	X	X	X		MW-3
	MW-2	↓	1230	↓	↓	5	X	X	X	X	X	X	X	X	X	X		MW-9
																		5 day TAT

← Total # of Containers

Sample(s) Relinquished By	Date/Time	Received By: Michele Wood	Date/Time: 7/14/08 1100	Received By	Date/Time
Comments:		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler Inv. & Temps on Receipt: C-4186 3.0°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SD-Solid SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (specify in comments)

Preservation: Ice HCL H2SO4 HNO3 NaOH NO Preservative O-Other (specify in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreement is in

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
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Wednesday, July 23, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: Battleground Golf Course, Project Name/Desc: Fly Ash
ENCO Workorder: C807783

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, July 15, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 25.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: OFS | Lab ID: C807783-01 | Sampled: 07/14/08 11:47 | Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/21/08	07/18/08	10:30	7/22/2008 12:23
EPA 160.2	07/21/08	07/17/08	10:35	7/18/2008 09:13
EPA 300.0	08/11/08	07/17/08	11:41	7/19/2008 05:46
EPA 310.2	07/28/08	07/16/08	07:23	7/16/2008 10:43
EPA 353.2	08/11/08	07/21/08	07:56	7/21/2008 10:35
EPA 365.4	08/11/08	07/21/08	10:12	7/21/2008 15:44
EPA 6010B	01/10/09	07/16/08	06:45	7/17/2008 12:45
EPA 7470A	08/11/08	07/16/08	06:51	7/16/2008 15:33
SM4500-Cl/E	08/11/08	07/16/08	07:26	7/16/2008 10:15

Client ID: OFS | Lab ID: C807783-01RE1 | Sampled: 07/14/08 11:47 | Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/11/08	07/17/08	11:41	7/19/2008 06:16

Client ID: OFE | Lab ID: C807783-02 | Sampled: 07/14/08 11:30 | Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/21/08	07/18/08	10:30	7/22/2008 12:23
EPA 160.2	07/21/08	07/17/08	10:35	7/18/2008 09:13
EPA 300.0	08/11/08	07/17/08	11:41	7/19/2008 06:46
EPA 310.2	07/28/08	07/16/08	07:23	7/16/2008 10:44
EPA 353.2	08/11/08	07/21/08	07:56	7/21/2008 10:39
EPA 365.4	08/11/08	07/21/08	10:12	7/21/2008 15:46
EPA 6010B	01/10/09	07/16/08	06:45	7/17/2008 12:52
EPA 7470A	08/11/08	07/16/08	06:51	7/16/2008 15:37
SM4500-Cl/E	08/11/08	07/16/08	07:26	7/16/2008 10:16

Client ID: OFE | Lab ID: C807783-02RE1 | Sampled: 07/14/08 11:30 | Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/11/08	07/21/08	16:14	7/22/2008 07:00

Client ID: SW - 4 | Lab ID: C807783-03 | Sampled: 07/14/08 09:11 | Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/21/08	07/18/08	10:30	7/22/2008 12:23
EPA 160.2	07/21/08	07/17/08	10:35	7/18/2008 09:13
EPA 300.0	08/11/08	07/17/08	11:41	7/19/2008 08:15
EPA 310.2	07/28/08	07/16/08	07:23	7/16/2008 10:45
EPA 353.2	08/11/08	07/21/08	07:56	7/21/2008 10:41
EPA 365.4	08/11/08	07/21/08	10:12	7/21/2008 15:47
EPA 6010B	01/10/09	07/16/08	06:45	7/17/2008 13:00
EPA 7470A	08/11/08	07/16/08	06:51	7/16/2008 15:40
SM4500-Cl/E	08/11/08	07/16/08	07:26	7/16/2008 10:16

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Client ID: SW - 4	Lab ID: C807783-03RE1	Sampled: 07/14/08 09:11	Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/11/08	07/17/08	11:41	7/19/2008 08:44

Client ID: SW - 7	Lab ID: C807783-04	Sampled: 07/14/08 09:35	Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/21/08	07/18/08	10:30	7/22/2008 12:23
EPA 160.2	07/21/08	07/17/08	10:35	7/18/2008 09:13
EPA 300.0	08/11/08	07/17/08	11:41	7/19/2008 09:14
EPA 310.2	07/28/08	07/16/08	07:23	7/16/2008 10:47
EPA 353.2	08/11/08	07/21/08	07:56	7/21/2008 10:43
EPA 365.4	08/11/08	07/21/08	10:12	7/21/2008 15:49
EPA 6010B	01/10/09	07/16/08	06:45	7/17/2008 13:07
EPA 7470A	08/11/08	07/16/08	06:51	7/16/2008 15:43
SM4500-Cl/E	08/11/08	07/16/08	07:26	7/16/2008 10:17

Client ID: SW - 7	Lab ID: C807783-04RE1	Sampled: 07/14/08 09:35	Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/11/08	07/21/08	16:14	7/22/2008 07:29

Client ID: WW - 1	Lab ID: C807783-05	Sampled: 07/14/08 10:12	Received: 07/15/08 11:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/21/08	07/18/08	10:30	7/22/2008 12:23
EPA 160.2	07/21/08	07/17/08	10:35	7/18/2008 09:13
EPA 300.0	08/11/08	07/17/08	11:41	7/19/2008 09:44
EPA 310.2	07/28/08	07/16/08	07:23	7/16/2008 10:47
EPA 353.2	08/11/08	07/21/08	07:56	7/21/2008 10:45
EPA 365.4	08/11/08	07/21/08	10:12	7/21/2008 15:51
EPA 6010B	01/10/09	07/16/08	06:45	7/17/2008 13:14
EPA 7470A	08/11/08	07/16/08	06:51	7/16/2008 15:46
SM4500-Cl/E	08/11/08	07/16/08	07:26	7/16/2008 10:18

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SAMPLE DETECTION SUMMARY

Client ID: OFS Lab ID: C807783-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	5820	B	100	ug/L	EPA 6010B	
Barium	107		10.0	ug/L	EPA 6010B	
Boron	40.4	J	50.0	ug/L	EPA 6010B	
Calcium	47000		100	ug/L	EPA 6010B	
Chloride	270	BD	15	mg/L	SM4500-Cl/E	QB-01
Cobalt	49.9		10.0	ug/L	EPA 6010B	
Fluoride	0.24	B	0.20	mg/L	EPA 300.0	QB-01
Iron	1490		50	ug/L	EPA 6010B	
Magnesium	9940		100	ug/L	EPA 6010B	
Manganese	391		10.0	ug/L	EPA 6010B	
Nickel	47.3		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.060	JB	0.10	mg/L	EPA 353.2	J-01
Phosphorus	0.062	J	0.10	mg/L	EPA 365.4	
Potassium	26900		500	ug/L	EPA 6010B	
Sodium	143000		500	ug/L	EPA 6010B	
Total Dissolved Solids	670		10	mg/L	EPA 160.1	
Total Suspended Solids	1.5		1.0	mg/L	EPA 160.2	
Zinc	88.5		10.0	ug/L	EPA 6010B	

Client ID: OFS Lab ID: C807783-01RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	160	BD	10	mg/L	EPA 300.0	QB-01

Client ID: OFE Lab ID: C807783-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	1490	B	100	ug/L	EPA 6010B	
Arsenic	5.2	J	10.0	ug/L	EPA 6010B	
Barium	40.9		10.0	ug/L	EPA 6010B	
Boron	50.6		50.0	ug/L	EPA 6010B	
Calcium	16800		100	ug/L	EPA 6010B	
Chloride	18	B	5.0	mg/L	SM4500-Cl/E	QB-01
Fluoride	0.35	B	0.20	mg/L	EPA 300.0	QB-01
Iron	1420		50	ug/L	EPA 6010B	
Magnesium	5460		100	ug/L	EPA 6010B	
Manganese	29.6		10.0	ug/L	EPA 6010B	
Molybdenum	3.1	J	10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.030	JB	0.10	mg/L	EPA 353.2	J-01
Phosphorus	0.15		0.10	mg/L	EPA 365.4	
Potassium	3600		500	ug/L	EPA 6010B	
Selenium	3.6	JB	10.0	ug/L	EPA 6010B	
Sodium	8180		500	ug/L	EPA 6010B	
Total Alkalinity	32	B	15	mg/L	EPA 310.2	J-01
Total Dissolved Solids	140		10	mg/L	EPA 160.1	
Total Suspended Solids	12		1.0	mg/L	EPA 160.2	
Vanadium	2.3	J	10.0	ug/L	EPA 6010B	
Zinc	6.2	J	10.0	ug/L	EPA 6010B	

Client ID: OFE Lab ID: C807783-02RE1

Analyte	Results	Flag	MRL	Units	Method	Notes

Client ID: OFE — **Lab ID: C807783-02RE1**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	25		5.0	mg/L	EPA 300.0	

Client ID: SW - 4 — **Lab ID: C807783-03**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	5900	B	100	ug/L	EPA 6010B	
Barium	109		10.0	ug/L	EPA 6010B	
Boron	41.8	J	50.0	ug/L	EPA 6010B	
Calcium	48400		100	ug/L	EPA 6010B	
Chloride	270	BD	10	mg/L	SM4500-Cl/E	QB-01
Cobalt	52.2		10.0	ug/L	EPA 6010B	
Fluoride	0.23	B	0.20	mg/L	EPA 300.0	QB-01
Iron	1610		50	ug/L	EPA 6010B	
Magnesium	10200		100	ug/L	EPA 6010B	
Manganese	403		10.0	ug/L	EPA 6010B	
Nickel	48.8		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.056	JB	0.10	mg/L	EPA 353.2	J-01
Potassium	27500		500	ug/L	EPA 6010B	
Sodium	147000		500	ug/L	EPA 6010B	
Thallium	5.4	J	10.0	ug/L	EPA 6010B	
Total Dissolved Solids	630		10	mg/L	EPA 160.1	
Total Suspended Solids	1.7		1.0	mg/L	EPA 160.2	
Zinc	88.5		10.0	ug/L	EPA 6010B	

Client ID: SW - 4 — **Lab ID: C807783-03RE1**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	150	BD	10	mg/L	EPA 300.0	QB-01

Client ID: SW - 7 — **Lab ID: C807783-04**

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	842	B	100	ug/L	EPA 6010B	
Arsenic	3.2	J	10.0	ug/L	EPA 6010B	
Barium	40.5		10.0	ug/L	EPA 6010B	
Boron	50.9		50.0	ug/L	EPA 6010B	
Calcium	17200		100	ug/L	EPA 6010B	
Chloride	17	B	5.0	mg/L	SM4500-Cl/E	QB-01
Fluoride	0.34	B	0.20	mg/L	EPA 300.0	QB-01
Iron	565		50	ug/L	EPA 6010B	
Magnesium	5500		100	ug/L	EPA 6010B	
Manganese	8.8	J	10.0	ug/L	EPA 6010B	
Molybdenum	2.7	J	10.0	ug/L	EPA 6010B	
Phosphorus	0.095	J	0.10	mg/L	EPA 365.4	
Potassium	3670		500	ug/L	EPA 6010B	
Selenium	3.3	JB	10.0	ug/L	EPA 6010B	
Sodium	8440		500	ug/L	EPA 6010B	
Thallium	5.9	J	10.0	ug/L	EPA 6010B	
Total Alkalinity	28	B	15	mg/L	EPA 310.2	J-01
Total Dissolved Solids	120		10	mg/L	EPA 160.1	
Total Suspended Solids	5.8		1.0	mg/L	EPA 160.2	
Vanadium	1.8	J	10.0	ug/L	EPA 6010B	

Client ID: SW - 7 Lab ID: C807783-04RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	26		5.0	mg/L	EPA 300.0	

Client ID: WW - 1 Lab ID: C807783-05

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	107	B	100	ug/L	EPA 6010B	
Arsenic	6.8	J	10.0	ug/L	EPA 6010B	
Barium	78.7		10.0	ug/L	EPA 6010B	
Boron	51.1		50.0	ug/L	EPA 6010B	
Calcium	32600		100	ug/L	EPA 6010B	
Chloride	55	B	5.0	mg/L	SM4500-Cl/E	QB-01
Fluoride	0.31	B	0.20	mg/L	EPA 300.0	QB-01
Iron	674		50	ug/L	EPA 6010B	
Magnesium	8320		100	ug/L	EPA 6010B	
Manganese	182		10.0	ug/L	EPA 6010B	
Nickel	1.9	J	10.0	ug/L	EPA 6010B	
Phosphorus	0.069	J	0.10	mg/L	EPA 365.4	
Potassium	5690		500	ug/L	EPA 6010B	
Sodium	22500		500	ug/L	EPA 6010B	
Sulfate as SO4	55	B	5.0	mg/L	EPA 300.0	QB-01
Thallium	6.2	J	10.0	ug/L	EPA 6010B	
Total Alkalinity	31	B	15	mg/L	EPA 310.2	J-01
Total Dissolved Solids	240		10	mg/L	EPA 160.1	
Total Suspended Solids	4.0		1.0	mg/L	EPA 160.2	
Zinc	51.4		10.0	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: OFS
Matrix: Surface Water
Project: Fly Ash

Lab Sample ID: C807783-01
Sampled: 07/14/08 11:47
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807783

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**5820**	B	ug/L	1	17	100	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Barium [7440-39-3] ^	**107**		ug/L	1	1.00	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Boron [7440-42-8] ^	**40.4**	J	ug/L	1	5.0	50.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Calcium [7440-70-2] ^	**47000**		ug/L	1	20.0	100	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Cobalt [7440-48-4] ^	**49.9**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Iron [7439-89-6] ^	**1490**		ug/L	1	22	50	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Magnesium [7439-95-4] ^	**9940**		ug/L	1	23	100	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Manganese [7439-96-5] ^	**391**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G16002	EPA 7470A	07/16/08 15:33	MPL	
olybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Nickel [7440-02-0] ^	**47.3**		ug/L	1	1.8	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Potassium [7440-09-7] ^	**26900**		ug/L	1	150	500	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Sodium [7440-23-5] ^	**143000**		ug/L	1	400	500	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	
Zinc [7440-66-6] ^	**88.5**		ug/L	1	3.8	10.0	8G16001	EPA 6010B	07/17/08 12:45	VLO	

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Description: OFS
Matrix: Surface Water
Project: Fly Ash

Lab Sample ID: C807783-01
Sampled: 07/14/08 11:47
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807783

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**270**	BD	mg/L	2.96	1.5	15	8G16007	SM4500-Cl/E	07/16/08 10:15	PEV	QB-01
Fluoride [16984-48-8]	**0.24**	B	mg/L	1	0.01	0.20	8G17018	EPA 300.0	07/19/08 05:46	AJ	QB-01
Nitrate/Nitrite as N [NA]	**0.060**	JB	mg/L	1	0.017	0.10	8G21005	EPA 353.2	07/21/08 10:35	PEV	J-01
Phosphorus [7723-14-0]	**0.062**	J	mg/L	1	0.050	0.10	8G21007	EPA 365.4	07/21/08 15:44	PEV	
Sulfate as SO4 [14808-79-8]	**160**	BD	mg/L	2	0.10	10	8G17018	EPA 300.0	07/19/08 06:16	AJ	QB-01
Total Alkalinity [NA]	2.7	U	mg/L	1	2.7	15	8G16005	EPA 310.2	07/16/08 10:43	PEV	
Total Dissolved Solids [NA]	**670**		mg/L	1	10	10	8G17008	EPA 160.1	07/22/08 12:23	JOC	
Total Suspended Solids [NA]	**1.5**		mg/L	1	1.0	1.0	8G17006	EPA 160.2	07/18/08 09:13	FLT	

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Description: OFE
Matrix: Surface Water
Project: Fly Ash

Lab Sample ID: C807783-02
Sampled: 07/14/08 11:30
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807783

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**1490**	B	ug/L	1	17	100	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Arsenic [7440-38-2] ^	**5.2**	J	ug/L	1	2.8	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Barium [7440-39-3] ^	**40.9**		ug/L	1	1.00	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Boron [7440-42-8] ^	**50.6**		ug/L	1	5.0	50.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Calcium [7440-70-2] ^	**16800**		ug/L	1	20.0	100	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Iron [7439-89-6] ^	**1420**		ug/L	1	22	50	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Magnesium [7439-95-4] ^	**5460**		ug/L	1	23	100	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Manganese [7439-96-5] ^	**29.6**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G16002	EPA 7470A	07/16/08 15:37	MPL	
Molybdenum [7439-98-7] ^	**3.1**	J	ug/L	1	2.5	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Nickel [7440-02-0] ^	1.8	U	ug/L	1	1.8	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Potassium [7440-09-7] ^	**3600**		ug/L	1	150	500	8G16001	EPA 6010B	07/17/08 12:52	VLO	
elenium [7782-49-2] ^	**3.6**	JB	ug/L	1	2.7	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Sodium [7440-23-5] ^	**8180**		ug/L	1	400	500	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Vanadium [7440-62-2] ^	**2.3**	J	ug/L	1	1.4	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	
Zinc [7440-66-6] ^	**6.2**	J	ug/L	1	3.8	10.0	8G16001	EPA 6010B	07/17/08 12:52	VLO	

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Description: OFE
Matrix: Surface Water
Project: Fly Ash

Lab Sample ID: C807783-02
Sampled: 07/14/08 11:30
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807783

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	18	B	mg/L	1	0.50	5.0	8G16007	SM4500-Cl/E	07/16/08 10:16	PEV	QB-01
Fluoride [16984-48-8]	0.35	B	mg/L	1	0.01	0.20	8G17018	EPA 300.0	07/19/08 06:46	AJ	QB-01
Nitrate/Nitrite as N [NA]	0.030	JB	mg/L	1	0.017	0.10	8G21005	EPA 353.2	07/21/08 10:39	PEV	J-01
Phosphorus [7723-14-0]	0.15		mg/L	1	0.050	0.10	8G21007	EPA 365.4	07/21/08 15:46	PEV	
Sulfate as SO4 [14808-79-8]	25		mg/L	1	0.05	5.0	8G21022	EPA 300.0	07/22/08 07:00	AJ	
Total Alkalinity [NA]	32	B	mg/L	1	2.7	15	8G16005	EPA 310.2	07/16/08 10:44	PEV	J-01
Total Dissolved Solids [NA]	140		mg/L	1	10	10	8G17008	EPA 160.1	07/22/08 12:23	JOC	
Total Suspended Solids [NA]	12		mg/L	1	1.0	1.0	8G17006	EPA 160.2	07/18/08 09:13	FLT	

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Description: SW - 4
Matrix: Surface Water
Project: Fly Ash

Lab Sample ID: C807783-03
Sampled: 07/14/08 09:11
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807783

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**5900**	B	ug/L	1	17	100	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Barium [7440-39-3] ^	**109**		ug/L	1	1.00	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Boron [7440-42-8] ^	**41.8**	J	ug/L	1	5.0	50.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Calcium [7440-70-2] ^	**48400**		ug/L	1	20.0	100	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Cobalt [7440-48-4] ^	**52.2**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Iron [7439-89-6] ^	**1610**		ug/L	1	22	50	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Magnesium [7439-95-4] ^	**10200**		ug/L	1	23	100	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Manganese [7439-96-5] ^	**403**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G16002	EPA 7470A	07/16/08 15:40	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Nickel [7440-02-0] ^	**48.8**		ug/L	1	1.8	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Potassium [7440-09-7] ^	**27500**		ug/L	1	150	500	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Sodium [7440-23-5] ^	**147000**		ug/L	1	400	500	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Thallium [7440-28-0] ^	**5.4**	J	ug/L	1	4.8	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	
Zinc [7440-66-6] ^	**88.5**		ug/L	1	3.8	10.0	8G16001	EPA 6010B	07/17/08 13:00	VLO	

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Description: SW - 4
Matrix: Surface Water
Project: Fly Ash

Lab Sample ID: C807783-03
Sampled: 07/14/08 09:11
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807783

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**270**	BD	mg/L	2	1.0	10	8G16007	SM4500-Cl/E	07/16/08 10:16	PEV	QB-01
Fluoride [16984-48-8]	**0.23**	B	mg/L	1	0.01	0.20	8G17018	EPA 300.0	07/19/08 08:15	AJ	QB-01
Nitrate/Nitrite as N [NA]	**0.056**	JB	mg/L	1	0.017	0.10	8G21005	EPA 353.2	07/21/08 10:41	PEV	J-01
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8G21007	EPA 365.4	07/21/08 15:47	PEV	
Sulfate as SO4 [14808-79-8]	**150**	BD	mg/L	2	0.10	10	8G17018	EPA 300.0	07/19/08 08:44	AJ	QB-01
Total Alkalinity [NA]	2.7	U	mg/L	1	2.7	15	8G16005	EPA 310.2	07/16/08 10:45	PEV	
Total Dissolved Solids [NA]	**630**		mg/L	1	10	10	8G17008	EPA 160.1	07/22/08 12:23	JOC	
Total Suspended Solids [NA]	**1.7**		mg/L	1	1.0	1.0	8G17006	EPA 160.2	07/18/08 09:13	FLT	

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Description: SW - 7
Matrix: Surface Water
Project: Fly Ash

Lab Sample ID: C807783-04
Sampled: 07/14/08 09:35
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807783

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**842**	B	ug/L	1	17	100	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Arsenic [7440-38-2] ^	**3.2**	J	ug/L	1	2.8	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Barium [7440-39-3] ^	**40.5**		ug/L	1	1.00	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Boron [7440-42-8] ^	**50.9**		ug/L	1	5.0	50.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Calcium [7440-70-2] ^	**17200**		ug/L	1	20.0	100	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Iron [7439-89-6] ^	**565**		ug/L	1	22	50	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Magnesium [7439-95-4] ^	**5500**		ug/L	1	23	100	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Manganese [7439-96-5] ^	**8.8**	J	ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G16002	EPA 7470A	07/16/08 15:43	MPL	
Molybdenum [7439-98-7] ^	**2.7**	J	ug/L	1	2.5	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Nickel [7440-02-0] ^	1.8	U	ug/L	1	1.8	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Potassium [7440-09-7] ^	**3670**		ug/L	1	150	500	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Selenium [7782-49-2] ^	**3.3**	JB	ug/L	1	2.7	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Sodium [7440-23-5] ^	**8440**		ug/L	1	400	500	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Thallium [7440-28-0] ^	**5.9**	J	ug/L	1	4.8	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Vanadium [7440-62-2] ^	**1.8**	J	ug/L	1	1.4	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	8G16001	EPA 6010B	07/17/08 13:07	VLO	

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Description: SW - 7
Matrix: Surface Water
Project: Fly Ash

Lab Sample ID: C807783-04
Sampled: 07/14/08 09:35
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807783

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**17**	B	mg/L	1	0.50	5.0	8G16007	SM4500-Cl/E	07/16/08 10:17	PEV	QB-01
Fluoride [16984-48-8]	**0.34**	B	mg/L	1	0.01	0.20	8G17018	EPA 300.0	07/19/08 09:14	AJ	QB-01
Nitrate/Nitrite as N [NA]	0.017	U	mg/L	1	0.017	0.10	8G21005	EPA 353.2	07/21/08 10:43	PEV	
Phosphorus [7723-14-0]	**0.095**	J	mg/L	1	0.050	0.10	8G21007	EPA 365.4	07/21/08 15:49	PEV	
Sulfate as SO4 [14808-79-8]	**26**		mg/L	1	0.05	5.0	8G21022	EPA 300.0	07/22/08 07:29	AJ	
Total Alkalinity [NA]	**28**	B	mg/L	1	2.7	15	8G16005	EPA 310.2	07/16/08 10:47	PEV	J-01
Total Dissolved Solids [NA]	**120**		mg/L	1	10	10	8G17008	EPA 160.1	07/22/08 12:23	JOC	
Total Suspended Solids [NA]	**5.8**		mg/L	1	1.0	1.0	8G17006	EPA 160.2	07/18/08 09:13	FLT	

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Description: WW - 1
Matrix: Surface Water
Project: Fly Ash

Lab Sample ID: C807783-05
Sampled: 07/14/08 10:12
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807783

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**107**	B	ug/L	1	17	100	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Arsenic [7440-38-2] ^	**6.8**	J	ug/L	1	2.8	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Barium [7440-39-3] ^	**78.7**		ug/L	1	1.00	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Boron [7440-42-8] ^	**51.1**		ug/L	1	5.0	50.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Calcium [7440-70-2] ^	**32600**		ug/L	1	20.0	100	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Iron [7439-89-6] ^	**674**		ug/L	1	22	50	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Magnesium [7439-95-4] ^	**8320**		ug/L	1	23	100	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Manganese [7439-96-5] ^	**182**		ug/L	1	1.1	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G16002	EPA 7470A	07/16/08 15:46	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Nickel [7440-02-0] ^	**1.9**	J	ug/L	1	1.8	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Potassium [7440-09-7] ^	**5690**		ug/L	1	150	500	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Sodium [7440-23-5] ^	**22500**		ug/L	1	400	500	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Thallium [7440-28-0] ^	**6.2**	J	ug/L	1	4.8	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	
Zinc [7440-66-6] ^	**51.4**		ug/L	1	3.8	10.0	8G16001	EPA 6010B	07/17/08 13:14	VLO	

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Description: WW - 1
Matrix: Surface Water
Project: Fly Ash

Lab Sample ID: C807783-05
Sampled: 07/14/08 10:12
Sampled By: Michelle Ward

Received: 07/15/08 11:00
Work Order: C807783

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**55**	B	mg/L	1	0.50	5.0	8G16007	SM4500-Cl/E	07/16/08 10:18	PEV	QB-01
Fluoride [16984-48-8]	**0.31**	B	mg/L	1	0.01	0.20	8G17018	EPA 300.0	07/19/08 09:44	AJ	QB-01
Nitrate/Nitrite as N [NA]	0.017	U	mg/L	1	0.017	0.10	8G21005	EPA 353.2	07/21/08 10:45	PEV	
Phosphorus [7723-14-0]	**0.069**	J	mg/L	1	0.050	0.10	8G21007	EPA 365.4	07/21/08 15:51	PEV	
Sulfate as SO4 [14808-79-8]	**55**	B	mg/L	1	0.05	5.0	8G17018	EPA 300.0	07/19/08 09:44	AJ	QB-01
Total Alkalinity [NA]	**31**	B	mg/L	1	2.7	15	8G16005	EPA 310.2	07/16/08 10:47	PEV	J-01
Total Dissolved Solids [NA]	**240**		mg/L	1	10	10	8G17008	EPA 160.1	07/22/08 12:23	JOC	
Total Suspended Solids [NA]	**4.0**		mg/L	1	1.0	1.0	8G17006	EPA 160.2	07/18/08 09:13	FLT	

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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G16001 - EPA 3005A

Blank (8G16001-BLK1) Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 10:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**46**	**J**	100	ug/L							
Antimony	1.0	U	10.0	ug/L							
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	**0.10**	**J**	1.00	ug/L							
Boron	5.0	U	50.0	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Calcium	20.0	U	100	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22	U	50	ug/L							
Lead	1.9	U	10.0	ug/L							
Magnesium	23	U	100	ug/L							
Manganese	1.1	U	10.0	ug/L							
Molybdenum	2.5	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Potassium	150	U	500	ug/L							
Selenium	**3.0**	**J**	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Sodium	400	U	500	ug/L							
Thallium	4.8	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8G16001-BS1) Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 10:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	4980	B	100	ug/L	5000		100	77-130			
Antimony	256		10.0	ug/L	250		103	82-119			
Arsenic	518		10.0	ug/L	500		104	82-117			
Barium	513		10.0	ug/L	500		103	72-125			
Beryllium	260	B	1.00	ug/L	250		104	75-121			
Boron	520		50.0	ug/L	500		104	75-122			
Cadmium	260		1.00	ug/L	250		104	72-120			
Calcium	5020		100	ug/L	5000		100	81-111			
Chromium	503		10.0	ug/L	500		101	78-119			
Cobalt	497		10.0	ug/L	500		99	76-117			
Copper	252		10.0	ug/L	250		101	80-117			
Iron	5010		50	ug/L	5000		100	84-133			
Lead	505		10.0	ug/L	500		101	72-121			
Magnesium	5250		100	ug/L	5000		105	81-117			
Manganese	251		10.0	ug/L	250		100	76-123			
Molybdenum	238		10.0	ug/L	250		95	83-112			
Nickel	512		10.0	ug/L	500		102	78-116			
Potassium	23700		500	ug/L	25000		95	84-112			
Selenium	531	B	10.0	ug/L	500		106	82-127			
Silver	49.7		10.0	ug/L	50.0		99	80-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G16001 - EPA 3005A

LCS (8G16001-BS1) Continued Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 10:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	23100		500	ug/L	25000		92	81-120			
Thallium	257		10.0	ug/L	250		103	79-118			
Vanadium	245		10.0	ug/L	250		98	78-117			
Zinc	506		10.0	ug/L	500		101	80-120			

Matrix Spike (8G16001-MS1) Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 11:08

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	79200	B	100	ug/L	5000	69500	194	78-125			QM-07
Antimony	100		10.0	ug/L	250	1.0 U	40	38-138			
Arsenic	509		10.0	ug/L	500	71.3	88	64-126			
Barium	718		10.0	ug/L	500	265	91	74-119			
Beryllium	229	B	1.00	ug/L	250	3.00	90	70-131			
Boron	512		50.0	ug/L	500	56.4	91	77-114			
Cadmium	203		1.00	ug/L	250	0.36 U	81	68-121			
Calcium	61200		100	ug/L	5000	56900	87	63-131			
Chromium	592		10.0	ug/L	500	158	87	73-120			
Cobalt	522		10.0	ug/L	500	96.3	85	76-120			
Copper	258		10.0	ug/L	250	32.5	90	75-123			
Iron	134000		50	ug/L	5000	129000	96	48-144			
Lead	496		10.0	ug/L	500	66.8	86	68-126			
Magnesium	38600		100	ug/L	5000	33700	98	59-129			
Manganese	1120		10.0	ug/L	250	907	84	55-146			
Molybdenum	145		10.0	ug/L	250	2.5 U	58	72-118			QM-07
Nickel	635		10.0	ug/L	500	187	89	64-126			
Potassium	35500		500	ug/L	25000	10500	100	53-121			
Selenium	424	B	10.0	ug/L	500	2.7 U	85	65-129			
Silver	38.7		10.0	ug/L	50.0	1.9 U	77	69-121			
Sodium	48300		500	ug/L	25000	22700	102	29-171			
Thallium	197		10.0	ug/L	250	4.8 U	79	67-135			
Vanadium	419		10.0	ug/L	250	202	87	71-130			
Zinc	948		10.0	ug/L	500	524	85	63-131			

Matrix Spike Dup (8G16001-MSD1) Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 11:15

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	80600	B	100	ug/L	5000	69500	220	78-125	2	22	QM-07
Antimony	96.5		10.0	ug/L	250	1.0 U	39	38-138	4	30	
Arsenic	506		10.0	ug/L	500	71.3	87	64-126	0.6	12	
Barium	718		10.0	ug/L	500	265	91	74-119	0.01	11	
Beryllium	228	B	1.00	ug/L	250	3.00	90	70-131	0.2	21	
Boron	511		50.0	ug/L	500	56.4	91	77-114	0.08	11	
Cadmium	202		1.00	ug/L	250	0.36 U	81	68-121	0.4	12	
Calcium	60500		100	ug/L	5000	56900	73	63-131	1	22	
Chromium	593		10.0	ug/L	500	158	87	73-120	0.2	10	
Cobalt	521		10.0	ug/L	500	96.3	85	76-120	0.2	17	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G16001 - EPA 3005A

Matrix Spike Dup (8G16001-MSD1) Continued Prepared: 07/16/2008 06:45 Analyzed: 07/17/2008 11:15

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	257		10.0	ug/L	250	32.5	90	75-123	0.4	16	
Iron	135000		50	ug/L	5000	129000	116	48-144	0.7	23	
Lead	494		10.0	ug/L	500	66.8	85	68-126	0.4	19	
Magnesium	38600		100	ug/L	5000	33700	97	59-129	0.2	22	
Manganese	1120		10.0	ug/L	250	907	83	55-146	0.09	19	
Molybdenum	145		10.0	ug/L	250	2.5 U	58	72-118	0.07	12	QM-07
Nickel	633		10.0	ug/L	500	187	89	64-126	0.2	12	
Potassium	35700		500	ug/L	25000	10500	101	53-121	0.4	20	
Selenium	424	B	10.0	ug/L	500	2.7 U	85	65-129	0.1	10	
Silver	36.9		10.0	ug/L	50.0	1.9 U	74	69-121	5	12	
Sodium	47800		500	ug/L	25000	22700	100	29-171	1	21	
Thallium	194		10.0	ug/L	250	4.8 U	78	67-135	1	13	
Vanadium	420		10.0	ug/L	250	202	87	71-130	0.3	16	
Zinc	950		10.0	ug/L	500	524	85	63-131	0.2	24	

Batch 8G16002 - EPA 7470A

Blank (8G16002-BLK1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8G16002-BS1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 14:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.57		0.20	ug/L	5.00		91	87-123			

Matrix Spike (8G16002-MS1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 14:57

Source: C807785-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.02		0.20	ug/L	5.00	0.11 U	100	63-132			

Matrix Spike Dup (8G16002-MSD1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 15:00

Source: C807785-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.09		0.20	ug/L	5.00	0.11 U	102	63-132	1	10	

Post Spike (8G16002-PS1) Prepared: 07/16/2008 06:51 Analyzed: 07/16/2008 15:04

Source: C807785-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.98		0.20	ug/L	5.00	-0.03	100	0-200			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G16005 - NO PREP

Blank (8G16005-BLK1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	5.4	J	15	mg/L							

LCS (8G16005-BS1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	97	B	15	mg/L	100		97	80-120			

Matrix Spike (8G16005-MS1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:49

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	95	B	15	mg/L	100	4.3	91	80-120			

Matrix Spike Dup (8G16005-MSD1) Prepared: 07/16/2008 07:23 Analyzed: 07/16/2008 10:50

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	94	B	15	mg/L	100	4.3	90	80-120	0.8	25	

Batch 8G16007 - NO PREP

Blank (8G16007-BLK1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	1.1	J	5.0	mg/L							

LCS (8G16007-BS1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100	B	5.0	mg/L	100		102	80-120			

Matrix Spike (8G16007-MS1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:19

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100	B	5.0	mg/L	100	0.17	100	80-120			

Matrix Spike Dup (8G16007-MSD1) Prepared: 07/16/2008 07:26 Analyzed: 07/16/2008 10:19

Source: C807784-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	98	B	5.0	mg/L	100	0.17	98	80-120	2	25	

Batch 8G17006 - NO PREP

Blank (8G17006-BLK1) Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G17006 - NO PREP

Blank (8G17006-BLK1) Continued Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8G17006-BS1) Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	91		1.0	mg/L	80.0		114	82-119			

Duplicate (8G17006-DUP1) Prepared: 07/17/2008 10:35 Analyzed: 07/18/2008 09:13

Source: C807775-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	13		1.0	mg/L		12			4	10	

Batch 8G17008 - NO PREP

Blank (8G17008-BLK1) Prepared: 07/18/2008 10:30 Analyzed: 07/22/2008 12:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (8G17008-BS1) Prepared: 07/18/2008 10:30 Analyzed: 07/22/2008 12:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	310		10	mg/L	300		102	90-110			

Duplicate (8G17008-DUP1) Prepared: 07/18/2008 10:30 Analyzed: 07/22/2008 12:23

Source: C807358-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	64		10	mg/L		62			3	10	

Batch 8G17018 - NO PREP

Blank (8G17018-BLK1) Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 13:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	**0.01**	**J**	0.20	mg/L							
Sulfate as SO4	**2.7**	**J**	5.0	mg/L							

LCS (8G17018-BS1) Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 14:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.91	B	0.20	mg/L	1.00		91	90-110			
Sulfate as SO4	47	B	5.0	mg/L	50.0		94	90-110			

Matrix Spike (8G17018-MS1) Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 22:21

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G17018 - NO PREP

Matrix Spike (8G17018-MS1) Continued Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 22:21

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.3	B	0.20	mg/L	1.00	0.40	93	90-110			
Sulfate as SO4	190	BE	5.0	mg/L	50.0	140	89	90-110			QM-16

Matrix Spike Dup (8G17018-MSD1) Prepared: 07/17/2008 11:41 Analyzed: 07/18/2008 22:51

Source: C807785-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.3	B	0.20	mg/L	1.00	0.40	92	90-110	1	10	
Sulfate as SO4	190	BE	5.0	mg/L	50.0	140	88	90-110	0.2	10	QM-16

Batch 8G21005 - NO PREP

Blank (8G21005-BLK1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	**0.017**	**J**	0.10	mg/L							

LCS (8G21005-BS1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2	B	0.10	mg/L	1.25		99	80-120			

Matrix Spike (8G21005-MS1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:09

Source: C807073-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.1	B	0.10	mg/L	1.28	0.017 U	88	80-120			

Matrix Spike Dup (8G21005-MSD1) Prepared: 07/21/2008 07:56 Analyzed: 07/21/2008 10:11

Source: C807073-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2	B	0.10	mg/L	1.28	0.017 U	90	80-120	2	25	

Batch 8G21007 - Same

Blank (8G21007-BLK1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8G21007-BS1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		102	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G21007 - Same

Matrix Spike (8G21007-MS1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:29

Source: C807233-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.6		0.10	mg/L	1.60	1.1	97	80-120			

Matrix Spike Dup (8G21007-MSD1) Prepared: 07/21/2008 10:12 Analyzed: 07/21/2008 15:31

Source: C807233-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.7		0.10	mg/L	1.60	1.1	99	80-120	1	25	

Batch 8G21022 - NO PREP

Blank (8G21022-BLK1) Prepared: 07/21/2008 16:14 Analyzed: 07/21/2008 17:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.05	U	5.0	mg/L							

LCS (8G21022-BS1) Prepared: 07/21/2008 16:14 Analyzed: 07/21/2008 18:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	48		5.0	mg/L	50.0		96	90-110			

Matrix Spike (8G21022-MS1) Prepared: 07/21/2008 16:14 Analyzed: 07/21/2008 18:38

Source: C807070-03RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	680	D	50	mg/L	500	190	99	90-110			

Matrix Spike Dup (8G21022-MSD1) Prepared: 07/21/2008 16:14 Analyzed: 07/21/2008 19:08

Source: C807070-03RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	680	D	50	mg/L	500	190	99	90-110	0.1	10	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-16	Matrix spike recovery could not be calculated due to high concentrations of analyte in source sample.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 211 Jacksonville, FL 32210-8208 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3696

Page 1 of 1

Client Name: Kimley-Horn & Assoc.
Project Number: Bartlett Field Golf Course
Address: 501 Independence Pkwy
Project Name/Desc.:
City/State/Zip: Chesapeake, VA 23320
P.O.# / Billing Info:
Tel: 757-518-1300 Fax: 757-518-1301
Requesting Contact:
Sampler(s) Name, Affiliation (Print): Michelle Ward
Billing Contact:
Sampler(s) Signature: Michelle Ward
Facility # (if required):

Requested Analyses: TSS, TDS, T-Chlorine, Chloride, Sulfate, Urea, Al, Ca, Mg, Na, K, Cl, Cr, Mn, Fe, Co, Ni, Pb, Zn, Hg, Ag, Se, As, Cd, Cu, Be, Sb, Tl

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. ✓ Standard ___ Expedited Due __/__/__

Lab Workorder: C807783

Preservation (See Codes) (Combine as necessary)

Batch #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	TSS	TDS	T-Chlorine	Chloride	Sulfate	Urea	Al	Ca	Mg	Na	K	Sample Comments
	DFS	7/14/08	1147	G	SW	5	X	X	X	X	X	X	X	X	X	X	X	
	DPE		1130				X	X	X	X	X	X	X	X	X	X	X	
	SW-4		911				X	X	X	X	X	X	X	X	X	X	X	
	SW-7		935				X	X	X	X	X	X	X	X	X	X	X	
	WW-1		1012				X	X	X	X	X	X	X	X	X	X	X	

<- Total # of Containers

Samples Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		Michelle Ward	7/14/08 1900	Briana Gregory	7/15/08 11:00
Comments: 10 Day TAT approved by Chuck. BJG 7/15/08		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-208 3.1°C

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Matrix: GW Groundwater SO Soil SE Sediment SW Surface Water WW Wastewater A Air O Other (please comment)

Preservation: 1 Ice 2 HCl 3 HNO3 4 H2SO4 5 NaOH 6 NaOH/ZnAc 7 Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions found on the reverse of this form, unless prior written agreement is in

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, August 7, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: 116436000, Project Name/Desc: Fly Ash
ENCO Workorder: C808135

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, July 24, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 22.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-3 | Lab ID: C808135-01 | Sampled: 07/23/08 12:43 | Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/30/08	07/28/08	17:41	7/30/2008 16:30
EPA 160.2	07/30/08	07/30/08	13:30	7/31/2008 11:36
EPA 300.0	08/20/08	07/31/08	11:58	8/1/2008 11:03
EPA 310.2	08/06/08	07/30/08	08:41	7/30/2008 11:48
EPA 353.2	08/20/08	07/27/08	10:19	7/27/2008 15:10
EPA 365.4	08/20/08	08/01/08	11:50	8/3/2008 11:14
EPA 6010B	01/19/09	07/28/08	11:36	8/4/2008 15:41
EPA 7470A	08/20/08	07/28/08	11:40	7/28/2008 18:23
SM4500-Cl/E	08/20/08	07/30/08	08:43	7/30/2008 12:40

Client ID: MW-3 | Lab ID: C808135-01RE1 | Sampled: 07/23/08 12:43 | Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/20/08	08/05/08	11:21	8/5/2008 19:30

Client ID: MW-4 | Lab ID: C808135-02 | Sampled: 07/23/08 13:19 | Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/30/08	07/28/08	17:41	7/30/2008 16:30
EPA 160.2	07/30/08	07/28/08	09:30	7/31/2008 10:00
EPA 300.0	08/20/08	07/31/08	11:58	8/1/2008 11:33
EPA 310.2	08/06/08	07/30/08	08:41	7/30/2008 11:56
EPA 353.2	08/20/08	07/27/08	10:19	7/27/2008 15:11
EPA 365.4	08/20/08	08/01/08	11:50	8/3/2008 11:15
EPA 6010B	01/19/09	07/25/08	09:53	7/29/2008 12:55
EPA 7470A	08/20/08	07/28/08	06:40	7/28/2008 18:26
SM4500-Cl/E	08/20/08	07/30/08	08:43	7/30/2008 12:47

Client ID: MW-4 | Lab ID: C808135-02RE1 | Sampled: 07/23/08 13:19 | Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/20/08	08/05/08	11:21	8/5/2008 20:00

Client ID: MW-5d | Lab ID: C808135-03 | Sampled: 07/23/08 14:02 | Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/30/08	07/28/08	17:41	7/30/2008 16:30
EPA 160.2	07/30/08	07/28/08	09:30	7/31/2008 10:00
EPA 300.0	08/20/08	07/31/08	11:58	8/1/2008 12:03
EPA 310.2	08/06/08	07/30/08	08:41	7/30/2008 11:57
EPA 353.2	08/20/08	07/27/08	10:19	7/27/2008 15:12
EPA 365.4	08/20/08	08/01/08	11:50	8/3/2008 11:17
EPA 6010B	01/19/09	07/25/08	09:53	7/29/2008 13:02
EPA 7470A	08/20/08	07/28/08	06:40	7/28/2008 18:29
SM4500-Cl/E	08/20/08	07/30/08	08:43	7/30/2008 12:48

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SAMPLE DETECTION SUMMARY

Client ID: MW-3 Lab ID: C808135-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	118	B	100	ug/L	EPA 6010B	
Antimony	1.1	J	10.0	ug/L	EPA 6010B	
Barium	21.5		10.0	ug/L	EPA 6010B	
Boron	26.0	J	50.0	ug/L	EPA 6010B	
Calcium	55400		100	ug/L	EPA 6010B	
Chloride	45	B	5.0	mg/L	SM4500-Cl/E	QB-01
Cobalt	5.4	J	10.0	ug/L	EPA 6010B	
Fluoride	0.38	B	0.20	mg/L	EPA 300.0	QB-01
Iron	6930		50	ug/L	EPA 6010B	
Magnesium	19300	B	100	ug/L	EPA 6010B	
Manganese	189		10.0	ug/L	EPA 6010B	
Nickel	4.1	J	10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.022	JB	0.10	mg/L	EPA 353.2	J-01
Phosphorus	0.38		0.10	mg/L	EPA 365.4	
Potassium	2510		500	ug/L	EPA 6010B	
Sodium	22900		500	ug/L	EPA 6010B	
Total Alkalinity	68		15	mg/L	EPA 310.2	
Total Dissolved Solids	360		10	mg/L	EPA 160.1	
Total Suspended Solids	8.5		1.0	mg/L	EPA 160.2	
Zinc	25.5		10.0	ug/L	EPA 6010B	

Client ID: MW-3 Lab ID: C808135-01RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	130	D	10	mg/L	EPA 300.0	

Client ID: MW-4 Lab ID: C808135-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	5670	B	100	ug/L	EPA 6010B	
Barium	33.7		10.0	ug/L	EPA 6010B	
Beryllium	8.10		1.00	ug/L	EPA 6010B	
Boron	17.5	JB	50.0	ug/L	EPA 6010B	
Calcium	32800	B	100	ug/L	EPA 6010B	
Chloride	20	B	5.0	mg/L	SM4500-Cl/E	QB-01
Cobalt	132		10.0	ug/L	EPA 6010B	
Fluoride	1.5	B	0.20	mg/L	EPA 300.0	QB-01
Iron	53600		50	ug/L	EPA 6010B	
Magnesium	59400		100	ug/L	EPA 6010B	
Manganese	1190		10.0	ug/L	EPA 6010B	
Nickel	294		10.0	ug/L	EPA 6010B	
Potassium	2130		500	ug/L	EPA 6010B	
Sodium	21200		500	ug/L	EPA 6010B	
Total Dissolved Solids	790		10	mg/L	EPA 160.1	
Total Suspended Solids	14		1.0	mg/L	EPA 160.2	
Zinc	485		10.0	ug/L	EPA 6010B	

Client ID: MW-4 Lab ID: C808135-02RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	460	D	50	mg/L	EPA 300.0	

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Client ID: MW-5d Lab ID: C808135-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	16100	B	100	ug/L	EPA 6010B	
Arsenic	6.0	J	10.0	ug/L	EPA 6010B	
Barium	80.7		10.0	ug/L	EPA 6010B	
Boron	65.9	B	50.0	ug/L	EPA 6010B	
Calcium	13300	B	100	ug/L	EPA 6010B	
Chloride	15	B	5.0	mg/L	SM4500-Cl/E	QB-01
Chromium	39.5		10.0	ug/L	EPA 6010B	
Cobalt	10.6		10.0	ug/L	EPA 6010B	
Copper	8.40	J	10.0	ug/L	EPA 6010B	
Fluoride	0.17	JB	0.20	mg/L	EPA 300.0	J-01
Iron	43400		50	ug/L	EPA 6010B	
Lead	19.9		10.0	ug/L	EPA 6010B	
Magnesium	7760		100	ug/L	EPA 6010B	
Manganese	443		10.0	ug/L	EPA 6010B	
Nickel	25.2		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.11	B	0.10	mg/L	EPA 353.2	J-01
Phosphorus	0.51		0.10	mg/L	EPA 365.4	
Potassium	6050		500	ug/L	EPA 6010B	
Sodium	50300		500	ug/L	EPA 6010B	
Sulfate as SO4	71		5.0	mg/L	EPA 300.0	
Total Alkalinity	22		15	mg/L	EPA 310.2	
Total Dissolved Solids	260		10	mg/L	EPA 160.1	
Total Suspended Solids	650		1.0	mg/L	EPA 160.2	
Vanadium	41.4		10.0	ug/L	EPA 6010B	
Zinc	138		10.0	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: MW-3
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C808135-01
Sampled: 07/23/08 12:43
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C808135

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**118**	B	ug/L	1	17	100	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Antimony [7440-36-0] ^	**1.1**	J	ug/L	1	1.0	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Barium [7440-39-3] ^	**21.5**		ug/L	1	1.00	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Boron [7440-42-8] ^	**26.0**	J	ug/L	1	5.0	50.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Calcium [7440-70-2] ^	**55400**		ug/L	1	20.0	100	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Cobalt [7440-48-4] ^	**5.4**	J	ug/L	1	1.1	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Iron [7439-89-6] ^	**6930**		ug/L	1	22	50	8G28004	EPA 6010B	08/04/08 15:41	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Magnesium [7439-95-4] ^	**19300**	B	ug/L	1	23	100	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Manganese [7439-96-5] ^	**189**		ug/L	1	1.1	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G26002	EPA 7470A	07/28/08 18:23	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Nickel [7440-02-0] ^	**4.1**	J	ug/L	1	1.8	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Potassium [7440-09-7] ^	**2510**		ug/L	1	150	500	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Sodium [7440-23-5] ^	**22900**		ug/L	1	400	500	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	
Zinc [7440-66-6] ^	**25.5**		ug/L	1	3.8	10.0	8G28004	EPA 6010B	08/04/08 15:41	JDH	

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Description: MW-3
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C808135-01
Sampled: 07/23/08 12:43
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C808135

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	45	B	mg/L	1	0.50	5.0	8G30008	SM4500-Cl/E	07/30/08 12:40	PEV	QB-01
Fluoride [16984-48-8]	0.38	B	mg/L	1	0.01	0.20	8G31030	EPA 300.0	08/01/08 11:03	AJ	QB-01
Nitrate/Nitrite as N [NA]	0.022	JB	mg/L	1	0.017	0.10	8G27003	EPA 353.2	07/27/08 15:10	PEV	J-01
Phosphorus [7723-14-0]	0.38		mg/L	1	0.050	0.10	8G31035	EPA 365.4	08/03/08 11:14	PEV	
Sulfate as SO4 [14808-79-8]	130	D	mg/L	2	0.10	10	8H05020	EPA 300.0	08/05/08 19:30	AJ	
Total Alkalinity [NA]	68		mg/L	1	2.7	15	8G30007	EPA 310.2	07/30/08 11:48	aj	
Total Dissolved Solids [NA]	360		mg/L	1	10	10	8G28006	EPA 160.1	07/30/08 16:30	JOC	
Total Suspended Solids [NA]	8.5		mg/L	1	1.0	1.0	8G30022	EPA 160.2	07/31/08 11:36	FLT	

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Description: MW-4
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C808135-02
Sampled: 07/23/08 13:19
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C808135

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**5670**	B	ug/L	1	17	100	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Barium [7440-39-3] ^	**33.7**		ug/L	1	1.00	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Beryllium [7440-41-7] ^	**8.10**		ug/L	1	0.10	1.00	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Boron [7440-42-8] ^	**17.5**	JB	ug/L	1	5.0	50.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Calcium [7440-70-2] ^	**32800**	B	ug/L	1	20.0	100	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Cobalt [7440-48-4] ^	**132**		ug/L	1	1.1	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Iron [7439-89-6] ^	**53600**		ug/L	1	22	50	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Magnesium [7439-95-4] ^	**59400**		ug/L	1	23	100	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Manganese [7439-96-5] ^	**1190**		ug/L	1	1.1	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G26002	EPA 7470A	07/28/08 18:26	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Nickel [7440-02-0] ^	**294**		ug/L	1	1.8	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Potassium [7440-09-7] ^	**2130**		ug/L	1	150	500	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Sodium [7440-23-5] ^	**21200**		ug/L	1	400	500	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	
Zinc [7440-66-6] ^	**485**		ug/L	1	3.8	10.0	8G25003	EPA 6010B	07/29/08 12:55	VLO	

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Description: MW-4
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C808135-02
Sampled: 07/23/08 13:19
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C808135

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**20**	B	mg/L	1	0.50	5.0	8G30008	SM4500-Cl/E	07/30/08 12:47	PEV	QB-01
Fluoride [16984-48-8]	**1.5**	B	mg/L	1	0.01	0.20	8G31030	EPA 300.0	08/01/08 11:33	AJ	QB-01
Nitrate/Nitrite as N [NA]	0.017	U	mg/L	1	0.017	0.10	8G27003	EPA 353.2	07/27/08 15:11	PEV	
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8G31035	EPA 365.4	08/03/08 11:15	PEV	
Sulfate as SO4 [14808-79-8]	**460**	D	mg/L	10	0.51	50	8H05020	EPA 300.0	08/05/08 20:00	AJ	
Total Alkalinity [NA]	2.7	U	mg/L	1	2.7	15	8G30007	EPA 310.2	07/30/08 11:56	aj	
Total Dissolved Solids [NA]	**790**		mg/L	1	10	10	8G28006	EPA 160.1	07/30/08 16:30	JOC	
Total Suspended Solids [NA]	**14**		mg/L	1	1.0	1.0	8G28012	EPA 160.2	07/31/08 10:00	FLT	

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Description: MW-5d
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C808135-03
Sampled: 07/23/08 14:02
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C808135

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**16100**	B	ug/L	1	17	100	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Arsenic [7440-38-2] ^	**6.0**	J	ug/L	1	2.8	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Barium [7440-39-3] ^	**80.7**		ug/L	1	1.00	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Boron [7440-42-8] ^	**65.9**	B	ug/L	1	5.0	50.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Calcium [7440-70-2] ^	**13300**	B	ug/L	1	20.0	100	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Chromium [7440-47-3] ^	**39.5**		ug/L	1	1.0	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Cobalt [7440-48-4] ^	**10.6**		ug/L	1	1.1	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Copper [7440-50-8] ^	**8.40**	J	ug/L	1	1.60	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Iron [7439-89-6] ^	**43400**		ug/L	1	22	50	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Lead [7439-92-1] ^	**19.9**		ug/L	1	1.9	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Magnesium [7439-95-4] ^	**7760**		ug/L	1	23	100	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Manganese [7439-96-5] ^	**443**		ug/L	1	1.1	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G26002	EPA 7470A	07/28/08 18:29	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Nickel [7440-02-0] ^	**25.2**		ug/L	1	1.8	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Potassium [7440-09-7] ^	**6050**		ug/L	1	150	500	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Sodium [7440-23-5] ^	**50300**		ug/L	1	400	500	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Vanadium [7440-62-2] ^	**41.4**		ug/L	1	1.4	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	
Zinc [7440-66-6] ^	**138**		ug/L	1	3.8	10.0	8G25003	EPA 6010B	07/29/08 13:02	VLO	

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Description: MW-5d
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C808135-03
Sampled: 07/23/08 14:02
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C808135

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	15	B	mg/L	1	0.50	5.0	8G30008	SM4500-Cl/E	07/30/08 12:48	PEV	QB-01
Fluoride [16984-48-8]	0.17	JB	mg/L	1	0.01	0.20	8G31030	EPA 300.0	08/01/08 12:03	AJ	J-01
Nitrate/Nitrite as N [NA]	0.11	B	mg/L	1	0.017	0.10	8G27003	EPA 353.2	07/27/08 15:12	PEV	J-01
Phosphorus [7723-14-0]	0.51		mg/L	1	0.050	0.10	8G31035	EPA 365.4	08/03/08 11:17	PEV	
Sulfate as SO4 [14808-79-8]	71		mg/L	1	0.05	5.0	8G31030	EPA 300.0	08/01/08 12:03	AJ	
Total Alkalinity [NA]	22		mg/L	1	2.7	15	8G30007	EPA 310.2	07/30/08 11:57	aj	
Total Dissolved Solids [NA]	260		mg/L	1	10	10	8G28006	EPA 160.1	07/30/08 16:30	JOC	
Total Suspended Solids [NA]	650		mg/L	1	1.0	1.0	8G28012	EPA 160.2	07/31/08 10:00	FLT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G25003 - EPA 3005A

Blank (8G25003-BLK1) Prepared: 07/25/2008 07:18 Analyzed: 07/29/2008 12:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**41**	**J**	100	ug/L							
Antimony	1.0	U	10.0	ug/L							
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.10	U	1.00	ug/L							
Boron	**8.0**	**J**	50.0	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Calcium	**22.9**	**J**	100	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22	U	50	ug/L							
Lead	1.9	U	10.0	ug/L							
Magnesium	23	U	100	ug/L							
Manganese	1.1	U	10.0	ug/L							
Molybdenum	2.5	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Potassium	150	U	500	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Sodium	400	U	500	ug/L							
Thallium	4.8	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8G25003-BS1) Prepared: 07/25/2008 07:18 Analyzed: 07/29/2008 12:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5140	B	100	ug/L	5000		103	77-130			
Antimony	269		10.0	ug/L	250		108	82-119			
Arsenic	538		10.0	ug/L	500		108	82-117			
Barium	545		10.0	ug/L	500		109	72-125			
Beryllium	274		1.00	ug/L	250		110	75-121			
Boron	556	B	50.0	ug/L	500		111	75-122			
Cadmium	274		1.00	ug/L	250		110	72-120			
Calcium	5170	B	100	ug/L	5000		103	81-111			
Chromium	525		10.0	ug/L	500		105	78-119			
Cobalt	512		10.0	ug/L	500		102	76-117			
Copper	265		10.0	ug/L	250		106	80-117			
Iron	5260		50	ug/L	5000		105	84-133			
Lead	518		10.0	ug/L	500		104	72-121			
Magnesium	5380		100	ug/L	5000		108	81-117			
Manganese	260		10.0	ug/L	250		104	76-123			
Molybdenum	246		10.0	ug/L	250		98	83-112			
Nickel	541		10.0	ug/L	500		108	78-116			
Potassium	24000		500	ug/L	25000		96	84-112			
Selenium	547		10.0	ug/L	500		109	82-127			
Silver	50.7		10.0	ug/L	50.0		101	80-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G25003 - EPA 3005A

LCS (8G25003-BS1) Continued Prepared: 07/25/2008 07:18 Analyzed: 07/29/2008 12:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	23500		500	ug/L	25000		94	81-120			
Thallium	264		10.0	ug/L	250		106	79-118			
Vanadium	254		10.0	ug/L	250		102	78-117			
Zinc	526		10.0	ug/L	500		105	80-120			

Matrix Spike (8G25003-MS1) Prepared: 07/25/2008 07:18 Analyzed: 07/29/2008 12:23

Source: C807498-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10700	B	100	ug/L	5000	3320	147	78-125			QM-07
Antimony	274		10.0	ug/L	250	1.0 U	109	38-138			
Arsenic	560		10.0	ug/L	500	2.8 U	112	64-126			
Barium	630		10.0	ug/L	500	50.1	116	74-119			
Beryllium	290		1.00	ug/L	250	0.70	116	70-131			
Boron	586	B	50.0	ug/L	500	12.5	115	77-114			QM-07
Cadmium	285		1.00	ug/L	250	0.36 U	114	68-121			
Calcium	11200	B	100	ug/L	5000	5880	106	63-131			
Chromium	560		10.0	ug/L	500	4.7	111	73-120			
Cobalt	542		10.0	ug/L	500	1.1 U	108	76-120			
Copper	277		10.0	ug/L	250	1.60 U	111	75-123			
Iron	10200		50	ug/L	5000	4430	116	48-144			
Lead	541		10.0	ug/L	500	4.1	107	68-126			
Magnesium	8420		100	ug/L	5000	2670	115	59-129			
Manganese	460		10.0	ug/L	250	189	109	55-146			
Molybdenum	247		10.0	ug/L	250	2.5 U	99	72-118			
Nickel	569		10.0	ug/L	500	2.2	113	64-126			
Potassium	27600		500	ug/L	25000	598	108	53-121			
Selenium	566		10.0	ug/L	500	2.7 U	113	65-129			
Silver	54.2		10.0	ug/L	50.0	1.9 U	108	69-121			
Sodium	32200		500	ug/L	25000	5000	109	29-171			
Thallium	279		10.0	ug/L	250	5.0	110	67-135			
Vanadium	275		10.0	ug/L	250	7.9	107	71-130			
Zinc	566		10.0	ug/L	500	13.8	110	63-131			

Matrix Spike Dup (8G25003-MSD1) Prepared: 07/25/2008 07:18 Analyzed: 07/29/2008 12:46

Source: C807498-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10600	B	100	ug/L	5000	3320	146	78-125	0.5	22	QM-07
Antimony	274		10.0	ug/L	250	1.0 U	110	38-138	0.2	30	
Arsenic	571		10.0	ug/L	500	2.8 U	114	64-126	2	12	
Barium	648		10.0	ug/L	500	50.1	120	74-119	3	11	QM-07
Beryllium	298		1.00	ug/L	250	0.70	119	70-131	3	21	
Boron	604	B	50.0	ug/L	500	12.5	118	77-114	3	11	QM-07
Cadmium	292		1.00	ug/L	250	0.36 U	117	68-121	2	12	
Calcium	11400	B	100	ug/L	5000	5880	110	63-131	2	22	
Chromium	572		10.0	ug/L	500	4.7	114	73-120	2	10	
Cobalt	553		10.0	ug/L	500	1.1 U	111	76-120	2	17	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G25003 - EPA 3005A

Matrix Spike Dup (8G25003-MSD1) Continued Prepared: 07/25/2008 07:18 Analyzed: 07/29/2008 12:46

Source: C807498-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	296		10.0	ug/L	250	1.60 U	118	75-123	6	16	
Iron	10300		50	ug/L	5000	4430	117	48-144	0.7	23	
Lead	557		10.0	ug/L	500	4.1	111	68-126	3	19	
Magnesium	8470		100	ug/L	5000	2670	116	59-129	0.5	22	
Manganese	467		10.0	ug/L	250	189	111	55-146	1	19	
Molybdenum	251		10.0	ug/L	250	2.5 U	100	72-118	1	12	
Nickel	584		10.0	ug/L	500	2.2	116	64-126	3	12	
Potassium	27900		500	ug/L	25000	598	109	53-121	1	20	
Selenium	583		10.0	ug/L	500	2.7 U	117	65-129	3	10	
Silver	53.8		10.0	ug/L	50.0	1.9 U	108	69-121	0.7	12	
Sodium	32600		500	ug/L	25000	5000	110	29-171	1	21	
Thallium	280		10.0	ug/L	250	5.0	110	67-135	0.3	13	
Vanadium	282		10.0	ug/L	250	7.9	110	71-130	2	16	
Zinc	582		10.0	ug/L	500	13.8	114	63-131	3	24	

Batch 8G26002 - EPA 7470A

Blank (8G26002-BLK1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 16:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8G26002-BS1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 16:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.65		0.20	ug/L	5.00		93	87-123			

Matrix Spike (8G26002-MS1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 17:02

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.55		0.20	ug/L	5.00	0.11 U	91	63-132			

Matrix Spike Dup (8G26002-MSD1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 17:05

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.66		0.20	ug/L	5.00	0.11 U	93	63-132	2	10	

Post Spike (8G26002-PS1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 17:08

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.59		0.20	ug/L	5.00	-0.01	92	0-200			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G28004 - EPA 3005A

Blank (8G28004-BLK1) Prepared: 07/28/2008 07:03 Analyzed: 08/04/2008 15:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**28**	**J**	100	ug/L							
Antimony	1.0	U	10.0	ug/L							
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.10	U	1.00	ug/L							
Boron	5.0	U	50.0	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Calcium	20.0	U	100	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22	U	50	ug/L							
Lead	1.9	U	10.0	ug/L							
Magnesium	**23**	**J**	100	ug/L							
Manganese	1.1	U	10.0	ug/L							
Molybdenum	2.5	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Potassium	150	U	500	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Sodium	400	U	500	ug/L							
Thallium	4.8	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8G28004-BS1) Prepared: 07/28/2008 07:03 Analyzed: 08/04/2008 15:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5090	B	100	ug/L	5000		102	77-130			
Antimony	261		10.0	ug/L	250		104	82-119			
Arsenic	522		10.0	ug/L	500		104	82-117			
Barium	515		10.0	ug/L	500		103	72-125			
Beryllium	262		1.00	ug/L	250		105	75-121			
Boron	519		50.0	ug/L	500		104	75-122			
Cadmium	258		1.00	ug/L	250		103	72-120			
Calcium	5110		100	ug/L	5000		102	81-111			
Chromium	507		10.0	ug/L	500		101	78-119			
Cobalt	503		10.0	ug/L	500		101	76-117			
Copper	256		10.0	ug/L	250		103	80-117			
Iron	5020		50	ug/L	5000		100	84-133			
Lead	516		10.0	ug/L	500		103	72-121			
Magnesium	5130	B	100	ug/L	5000		103	81-117			
Manganese	255		10.0	ug/L	250		102	76-123			
Molybdenum	246		10.0	ug/L	250		98	83-112			
Nickel	510		10.0	ug/L	500		102	78-116			
Potassium	24000		500	ug/L	25000		96	84-112			
Selenium	540		10.0	ug/L	500		108	82-127			
Silver	52.1		10.0	ug/L	50.0		104	80-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G28004 - EPA 3005A

LCS (8G28004-BS1) Continued Prepared: 07/28/2008 07:03 Analyzed: 08/04/2008 15:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	23800		500	ug/L	25000		95	81-120			
Thallium	259		10.0	ug/L	250		104	79-118			
Vanadium	250		10.0	ug/L	250		100	78-117			
Zinc	505		10.0	ug/L	500		101	80-120			

Matrix Spike (8G28004-MS1) Prepared: 07/28/2008 07:03 Analyzed: 08/04/2008 15:25

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5880	B	100	ug/L	5000	587	106	78-125			
Antimony	252		10.0	ug/L	250	1.0 U	101	38-138			
Arsenic	511		10.0	ug/L	500	2.8 U	102	64-126			
Barium	562		10.0	ug/L	500	48.5	103	74-119			
Beryllium	260		1.00	ug/L	250	0.20	104	70-131			
Boron	521		50.0	ug/L	500	7.5	103	77-114			
Cadmium	254		1.00	ug/L	250	0.36 U	102	68-121			
Calcium	8630		100	ug/L	5000	3650	100	63-131			
Chromium	503		10.0	ug/L	500	1.0 U	101	73-120			
Cobalt	497		10.0	ug/L	500	1.6	99	76-120			
Copper	253		10.0	ug/L	250	1.60 U	101	75-123			
Iron	5580		50	ug/L	5000	525	101	48-144			
Lead	506		10.0	ug/L	500	1.9 U	101	68-126			
Magnesium	6540	B	100	ug/L	5000	1480	101	59-129			
Manganese	289		10.0	ug/L	250	34.6	102	55-146			
Molybdenum	239		10.0	ug/L	250	2.5 U	96	72-118			
Nickel	504		10.0	ug/L	500	1.8 U	101	64-126			
Potassium	25600		500	ug/L	25000	870	99	53-121			
Selenium	527		10.0	ug/L	500	2.7 U	105	65-129			
Silver	50.3		10.0	ug/L	50.0	1.9 U	101	69-121			
Sodium	30700		500	ug/L	25000	5940	99	29-171			
Thallium	255		10.0	ug/L	250	4.8 U	102	67-135			
Vanadium	247		10.0	ug/L	250	1.5	98	71-130			
Zinc	518		10.0	ug/L	500	19.7	100	63-131			

Matrix Spike Dup (8G28004-MSD1) Prepared: 07/28/2008 07:03 Analyzed: 08/04/2008 15:32

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5280	B	100	ug/L	5000	587	94	78-125	11	22	
Antimony	256		10.0	ug/L	250	1.0 U	102	38-138	2	30	
Arsenic	451		10.0	ug/L	500	2.8 U	90	64-126	13	12	QR-02
Barium	503		10.0	ug/L	500	48.5	91	74-119	11	11	
Beryllium	231		1.00	ug/L	250	0.20	92	70-131	12	21	
Boron	465		50.0	ug/L	500	7.5	91	77-114	11	11	
Cadmium	227		1.00	ug/L	250	0.36 U	91	68-121	11	12	
Calcium	8060		100	ug/L	5000	3650	88	63-131	7	22	
Chromium	449		10.0	ug/L	500	1.0 U	90	73-120	11	10	QR-02
Cobalt	442		10.0	ug/L	500	1.6	88	76-120	12	17	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G28004 - EPA 3005A

Matrix Spike Dup (8G28004-MSD1) Continued Prepared: 07/28/2008 07:03 Analyzed: 08/04/2008 15:32

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	225		10.0	ug/L	250	1.60 U	90	75-123	12	16	
Iron	5020		50	ug/L	5000	525	90	48-144	11	23	
Lead	453		10.0	ug/L	500	1.9 U	91	68-126	11	19	
Magnesium	5970	B	100	ug/L	5000	1480	90	59-129	9	22	
Manganese	260		10.0	ug/L	250	34.6	90	55-146	10	19	
Molybdenum	242		10.0	ug/L	250	2.5 U	97	72-118	1	12	
Nickel	449		10.0	ug/L	500	1.8 U	90	64-126	12	12	
Potassium	22600		500	ug/L	25000	870	87	53-121	12	20	
Selenium	468		10.0	ug/L	500	2.7 U	94	65-129	12	10	QR-02
Silver	51.5		10.0	ug/L	50.0	1.9 U	103	69-121	2	12	
Sodium	27900		500	ug/L	25000	5940	88	29-171	10	21	
Thallium	228		10.0	ug/L	250	4.8 U	91	67-135	11	13	
Vanadium	220		10.0	ug/L	250	1.5	87	71-130	11	16	
Zinc	466		10.0	ug/L	500	19.7	89	63-131	11	24	

Classical Chemistry Parameters - Quality Control

Batch 8G27003 - NO PREP

Blank (8G27003-BLK1) Prepared: 07/27/2008 10:19 Analyzed: 07/27/2008 14:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	**0.031**	**J**	0.10	mg/L							

LCS (8G27003-BS1) Prepared: 07/27/2008 10:19 Analyzed: 07/27/2008 14:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3	B	0.10	mg/L	1.25		101	80-120			

Matrix Spike (8G27003-MS1) Prepared: 07/27/2008 10:19 Analyzed: 07/28/2008 08:29

Source: C807495-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.1	B	0.10	mg/L	1.28	0.012	82	80-120			

Matrix Spike Dup (8G27003-MSD1) Prepared: 07/27/2008 10:19 Analyzed: 07/28/2008 08:30

Source: C807495-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.1	B	0.10	mg/L	1.28	0.012	83	80-120	1	25	

Batch 8G28006 - NO PREP

Blank (8G28006-BLK1) Prepared: 07/28/2008 17:41 Analyzed: 07/30/2008 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G28006 - NO PREP

LCS (8G28006-BS1) Prepared: 07/28/2008 17:41 Analyzed: 07/30/2008 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	310		10	mg/L	300		102	90-110			

Duplicate (8G28006-DUP1) Prepared: 07/28/2008 17:41 Analyzed: 07/30/2008 16:30

Source: C807265-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	2200		10	mg/L		2100			2	10	

Batch 8G28012 - NO PREP

Blank (8G28012-BLK1) Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8G28012-BS1) Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	88		1.0	mg/L	80.0		110	82-119			

Duplicate (8G28012-DUP1) Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Source: C808138-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	21		1.0	mg/L		22			2	10	

Batch 8G30007 - NO PREP

Blank (8G30007-BLK1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	2.7	U	15	mg/L							

LCS (8G30007-BS1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100		104	80-120			

Matrix Spike (8G30007-MS1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:49

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	170		15	mg/L	100	68	98	80-120			

Matrix Spike Dup (8G30007-MSD1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:50

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G30007 - NO PREP

Matrix Spike Dup (8G30007-MSD1) Continued Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:50

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	160		15	mg/L	100	68	95	80-120	2	25	

Batch 8G30008 - NO PREP

Blank (8G30008-BLK1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	**1.4**	**J**	5.0	mg/L							

LCS (8G30008-BS1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	99	B	5.0	mg/L	100		99	80-120			

Matrix Spike (8G30008-MS1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:41

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140	B	5.0	mg/L	100	45	94	80-120			

Matrix Spike Dup (8G30008-MSD1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:41

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140	B	5.0	mg/L	100	45	97	80-120	2	25	

Batch 8G30022 - NO PREP

Blank (8G30022-BLK1) Prepared: 07/30/2008 13:30 Analyzed: 07/31/2008 11:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8G30022-BS1) Prepared: 07/30/2008 13:30 Analyzed: 07/31/2008 11:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	88		1.0	mg/L	80.0		110	82-119			

Duplicate (8G30022-DUP1) Prepared: 07/30/2008 13:30 Analyzed: 07/31/2008 11:36

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	8.5		1.0	mg/L		8.5			0	10	

Batch 8G31030 - NO PREP

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Blank (8G31030-BLK1) Prepared: 07/31/2008 11:58 Analyzed: 07/31/2008 15:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	**0.02**	J	0.20	mg/L							
Sulfate as SO4	0.05	U	5.0	mg/L							

LCS (8G31030-BS1) Prepared: 07/31/2008 11:58 Analyzed: 07/31/2008 16:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.95	B	0.20	mg/L	1.00		95	90-110			
Sulfate as SO4	47		5.0	mg/L	50.0		95	90-110			

Matrix Spike (8G31030-MS1) Prepared: 07/31/2008 11:58 Analyzed: 07/31/2008 23:41

Source: C807082-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.1	B	0.20	mg/L	1.00	0.11	99	90-110			
Sulfate as SO4	49		5.0	mg/L	50.0	1.6	94	90-110			

Matrix Spike Dup (8G31030-MSD1) Prepared: 07/31/2008 11:58 Analyzed: 08/01/2008 00:11

Source: C807082-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.1	B	0.20	mg/L	1.00	0.11	99	90-110	0.08	10	
Sulfate as SO4	48		5.0	mg/L	50.0	1.6	93	90-110	1	10	

Batch 8G31035 - Same

Blank (8G31035-BLK1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8G31035-BS1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		98	80-120			

Matrix Spike (8G31035-MS1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:40

Source: C808020-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.4		0.10	mg/L	1.60	0.77	100	80-120			

Matrix Spike Dup (8G31035-MSD1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:42

Source: C808020-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.3		0.10	mg/L	1.60	0.77	97	80-120	2	25	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8H05020 - NO PREP

Blank (8H05020-BLK1) Prepared: 08/05/2008 11:21 Analyzed: 08/05/2008 15:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.05	U	5.0	mg/L							

LCS (8H05020-BS1) Prepared: 08/05/2008 11:21 Analyzed: 08/05/2008 16:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	48		5.0	mg/L	50.0		95	90-110			

Matrix Spike (8H05020-MS1) Prepared: 08/05/2008 11:21 Analyzed: 08/05/2008 21:29

Source: C807494-23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	64		5.0	mg/L	50.0	11	106	90-110			

Matrix Spike Dup (8H05020-MSD1) Prepared: 08/05/2008 11:21 Analyzed: 08/05/2008 21:58

Source: C807494-23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	62		5.0	mg/L	50.0	11	102	90-110	3	10	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Cutrale Park Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 211 Jacksonville, FL 32210-6069 (904) 296-3007 Fax (904) 296-6210
1015 Passport Way Cary, NC 27513 (919) 677-1669 Fax (919) 677-1676

Page 1 of 1

Client Name: Kimley Horn and Associates	Project Number: 116436000
Address: 501 Independence Pkwy Suite 300	Project Name/Site: Battlefield Fly Ash
City/St/Zip: Chesapeake, VA 23320	PO # / Billing Info:
Tel: 757-548-7300 Fax: 757-548-7301	Reporting Contact: Mike I
Sampler(s) Name, Affiliation (Print): Mike Iwashchenko	Billing Contact: M. Iwashchenko
Sampler(s) Signature(s): M. Iwashchenko	Facility # (if required):

Requested Analyses: Mg, Al, Mg, Ba, Be, Cr, Cd, Co, Cu, Fe, Pb, K, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, Zn; Alkalinity 310.2, Chloride 325.3, Sn 9500 – Cl, F, Fluoride 340.2; NOX 353.2 P; Sulfate 300, TSS 160.2

Requested Turnaround Times: Note: Rush requests subject to acceptance by the laboratory. ✓ Standard ___ Expedited Due __/__/__

Lab Workorder: BSG C808124 7/24/08

Preservation (See Codes) (Combine as necessary)

Area #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers										Sample Comments
	MW-3	7/23/08	1243	G	GW	7	X	X	X	X	X					C808135
	MW-4	7/23/08	1319	G	GW	7	X	X	X	X	X					
	MW-5D	7/23/08	202	G	GW	7	X	X	X	X	X					
	~~SW-10~~	~~7/23/08~~														
	~~FS-6~~															
						21										

← Total # of Containers

Samples Prepared By:	Date/Time:	Relinquished By: M. Iwashchenko	Date/Time: 7/23/08 3:27	Received By: [signature]	Date/Time: 7/24/08 11:45
Comments: MW-3 on hold pending more bottles on Friday per Mike. BSG 7/24/08		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-2 0.6 C-2		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW Groundwater SO Soil SE Sediment SW Surface Water WW Wastewater A Air O-Other (detail in comments)

Preservative: N-None H-HCl S-H2SO4 N-HNO3 S-NaOH NO-NaOH O-Other (detail in comments)

Note: All services provided by ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless later written agreement exists.

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Friday, August 8, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Fly Ash
ENCO Workorder: C807924

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, July 24, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 46.

PROJECT NARRATIVE

Client: Kimley-Horn and Associates - VA[KI009]
Project: Fly Ash
ENCO Project ID: C807924

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling and processing will be discussed in the Remarks section below.

Remarks

Analysis: EPA 353.2 NOx
Affected Samples: 8G27003-BLK1, FS-6[C807924-01], SW-10[C807924-02]
Description: MB results above MDL but below MRL; associated samples flagged with J-01
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result are within a factor of 10 of the associated blank, the result should be considered to be an estimate.

Analysis: SM4500-Cl/E Chloride
Affected Samples: 8G30008-BLK1, FS-6[C807924-01RE1], SW-10[C807924-02RE1]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result is greater than ten times the concentration of the associated blank, the impact of this nonconformance is considered to be minimal.

Analysis: EPA 300.0 Fluoride
Affected Samples: 8G31030-BLK1, FS-6[C807924-01]
Narrative: The method blank contains analyte at a concentration above the MRL, but since it was not detected in the sample, the impact on data quality is negligible.

Analysis: EPA 300.0 Fluoride
Affected Samples: 8G31030-BLK1, 8G31031-BLK1, SW-10[C807924-02]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result is greater than ten times the concentration of the associated blank, the impact of this nonconformance is considered to be minimal.

Analysis: EPA 9056 Chloride, Fluoride, Nitrate, Nitrite & Sulfate
Affected Samples: MW-4[C807924-03], MW-5D[C807924-04], MW-5D[C807924-05]
Description: Holding time expired in the laboratory (explanation required)
Narrative:Two of the three samples were received outside of the three day leaching period for the method prep. The third sample could not be prepared within the remaining hold time.
Explanation: Samples were received with less than 1/2 of the preparation hold time left of three days from sampling.

Analysis: EPA 9056 Fluoride
Affected Samples: 8H05022-BLK1, MW-5D[C807924-04]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. The analytes were not detected in the associated samples. The nonconformance affected only the method blank, and is considered to not have an impact on sample data quality.

Analysis: EPA 9056 Fluoride
Affected Samples: 8H05022-BLK1, MW-4[C807924-03], MW-5D[C807924-05]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample results are within a factor of 10 of the associated blank, the result should be considered to be an estimate.
Explanation: MB results above MDL, but below MRL; associated samples flagged with J-01

Analysis: EPA 9056 Fluoride
Affected Samples: 8H05022-MS1, 8H05022-MSD1, MW-4[C807924-03], MW-5D[C807924-04], MW-5D[C807924-05]
Narrative: The matrix spike and/or matrix spike duplicate had recoveries that were outside acceptance limits, but by virtue of a laboratory control sample being in control, the laboratory has demonstrated to be in control of its internal process.

Analysis: EPA 9056 Sulfate
Affected Samples: 8H05022-BLK1, MW-4[C807924-03], MW-5D[C807924-04], MW-5D[C807924-05]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample results are within a factor of 10 of the associated blank, the result should be considered to be an estimate.
Explanation: MB results above MDL, but below MRL; associated samples flagged with J-01

Analysis: EPA 9056 Nitrate
Affected Samples: 8H05022-MS1, 8H05022-MSD1, MW-4[C807924-03], MW-5D[C807924-04], MW-5D[C807924-05]
Narrative: The matrix spike and/or matrix spike duplicate had recoveries that were outside acceptance limits, but by virtue of a laboratory control sample being in control, the laboratory has demonstrated to be in control of its internal process.
Explanation: The source sample was spiked at ten times the intended concentration of 10mg/L. Results are outside of calibration range and recoveries should be considered estimates at 122% and 120%.

Analysis: EPA 310.2 Alkalinity
Affected Samples: 8H06006-BLK1, MW-4[C807924-03RE1]
Narrative: The associated method blank had a positive result, and may affect the quality of the result presented. There was no additional sample available for repeat testing.
Explanation: MB has positive results, there is no additional leachate to re-test. Result should be considered estimated. Result is below the BLK1 result.

Analysis: EPA 310.2 Alkalinity
Affected Samples: 8H06006-BLK1, MW-5D[C807924-04], MW-5D[C807924-05]
Nonconformance:
Additional Information: [NOTE TO PM's: add additional information as appropriate from NCM on right using copy/paste or enter NONE]

Analysis: EPA 310.2 Alkalinity
Affected Samples: 8H06006-BLK1, MW-4[C807924-03], MW-4[C807924-03RE1], MW-5D[C807924-04], MW-5D[C807924-05]
Description: Holding time expired in the laboratory (explanation required)
Narrative:Two of the three samples were received outside of the three day leaching period for the method prep. The third sample could not be prepared within the remaining hold time.
Explanation: Samples were received with less than 1/2 of the preparation hold time left of three days from sampling.

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: FS-6 Lab ID: C807924-01 Sampled: 07/23/08 12:30 Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/30/08	07/28/08 17:41	7/30/2008 16:30
EPA 160.2	07/30/08	07/28/08 09:30	7/31/2008 10:00
EPA 300.0	08/20/08	07/31/08 11:58	8/1/2008 10:04
EPA 310.2	08/06/08	07/30/08 08:41	7/30/2008 11:54
EPA 353.2	08/20/08	07/27/08 10:19	7/27/2008 15:07
EPA 365.4	08/20/08	08/01/08 11:50	8/3/2008 11:09
EPA 6010B	01/19/09	07/25/08 07:10	7/30/2008 11:52
EPA 7470A	08/20/08	07/28/08 06:40	7/28/2008 18:15

Client ID: FS-6 Lab ID: C807924-01RE1 Sampled: 07/23/08 12:30 Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/20/08	07/30/08 08:43	7/30/2008 13:09

Client ID: SW-10 Lab ID: C807924-02 Sampled: 07/23/08 14:20 Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/30/08	07/28/08 17:41	7/30/2008 16:30
EPA 160.2	07/30/08	07/28/08 09:30	7/31/2008 10:00
EPA 300.0	08/20/08	07/31/08 11:58	8/1/2008 10:34
EPA 310.2	08/06/08	07/30/08 08:41	7/30/2008 11:56
EPA 353.2	08/20/08	07/27/08 10:19	7/27/2008 15:08
EPA 365.4	08/20/08	08/01/08 11:50	8/3/2008 11:12
EPA 6010B	01/19/09	07/25/08 07:10	7/30/2008 11:59
EPA 7470A	08/20/08	07/28/08 06:40	7/28/2008 18:20

Client ID: SW-10 Lab ID: C807924-02RE1 Sampled: 07/23/08 14:20 Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/20/08	07/30/08 08:43	7/30/2008 13:09

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Client ID: MW-4	Lab ID: C807924-03	Sampled: 07/21/08 09:27	Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
% Solids	01/17/09			07/28/08	11:50	7/28/2008 14:20
EPA 365.4	08/18/08			08/01/08	11:50	8/3/2008 11:22
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 16:33
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:36
EPA 6010B	01/17/09	01/28/09		08/01/08	13:10	8/4/2008 20:36
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:42
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 16:33
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:36
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:42
EPA 7470A	08/18/08			07/30/08	15:42	7/31/2008 15:37
EPA 7470A	08/18/08			07/31/08	10:00	7/31/2008 16:06
EPA 7471A	08/18/08			07/31/08	07:23	7/31/2008 11:20
EPA 9056	07/24/08	08/07/08	11:25	08/05/08	11:25	8/6/2008 00:27
EPA 9056	07/24/08	09/02/08		08/05/08	11:25	8/6/2008 00:27

Client ID: MW-4	Lab ID: C807924-03RE1	Sampled: 07/21/08 09:27	Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 310.2	08/04/08	08/05/08	11:25	8/6/2008 12:41

Client ID: MW-5D	Lab ID: C807924-04	Sampled: 07/21/08 13:00	Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
% Solids	01/17/09			07/28/08	11:50	7/28/2008 14:20
EPA 310.2	08/04/08			08/05/08	11:25	8/6/2008 09:43
EPA 365.4	08/18/08			08/01/08	11:50	8/3/2008 11:26
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 17:46
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:50
EPA 6010B	01/17/09	01/28/09		08/01/08	13:10	8/4/2008 20:50
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:56
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 17:46
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:50
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:56
EPA 7470A	08/18/08			07/30/08	15:42	7/31/2008 15:39
EPA 7470A	08/18/08			07/31/08	10:00	7/31/2008 16:07
EPA 7471A	08/18/08			07/31/08	07:23	7/31/2008 12:03
EPA 9056	07/24/08	08/07/08	11:25	08/05/08	11:25	8/6/2008 00:56
EPA 9056	07/24/08	09/02/08		08/05/08	11:25	8/6/2008 00:56

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Client ID: MW-5D	Lab ID: C807924-05	Sampled: 07/21/08 13:07	Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
% Solids	01/17/09			07/28/08	11:50	7/28/2008 14:20
EPA 310.2	08/04/08			08/05/08	11:25	8/6/2008 09:43
EPA 365.4	08/18/08			08/01/08	11:50	8/3/2008 11:28
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 17:53
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 21:03
EPA 6010B	01/17/09	01/28/09		08/01/08	13:10	8/4/2008 21:03
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 21:10
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 17:53
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 21:03
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 21:10
EPA 7470A	08/18/08			07/30/08	15:42	7/31/2008 15:41
EPA 7470A	08/18/08			07/31/08	10:00	7/31/2008 16:09
EPA 7471A	08/18/08			07/31/08	07:23	7/31/2008 12:06
EPA 9056	07/24/08	08/07/08	11:25	08/05/08	11:25	8/6/2008 01:26
EPA 9056	07/24/08	09/02/08		08/05/08	11:25	8/6/2008 01:26

SAMPLE DETECTION SUMMARY

Client ID: FS-6 Lab ID: C807924-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	595	B	100	ug/L	EPA 6010B	
Barium	68.5		10.0	ug/L	EPA 6010B	
Boron	33.7	J	50.0	ug/L	EPA 6010B	
Calcium	19000		100	ug/L	EPA 6010B	
Cobalt	9.5	J	10.0	ug/L	EPA 6010B	
Copper	106		10.0	ug/L	EPA 6010B	
Iron	2950		50	ug/L	EPA 6010B	
Lead	22.0		10.0	ug/L	EPA 6010B	
Magnesium	3560		100	ug/L	EPA 6010B	
Manganese	112		10.0	ug/L	EPA 6010B	
Nickel	9.1	J	10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.025	JB	0.10	mg/L	EPA 353.2	J-01a
Potassium	2280		500	ug/L	EPA 6010B	
Sodium	55300		500	ug/L	EPA 6010B	
Sulfate as SO4	56		5.0	mg/L	EPA 300.0	
Total Dissolved Solids	270		10	mg/L	EPA 160.1	
Total Suspended Solids	1.7		1.0	mg/L	EPA 160.2	
Zinc	55.2		10.0	ug/L	EPA 6010B	

Client ID: FS-6 Lab ID: C807924-01RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Chloride	89	B	5.0	mg/L	SM4500-Cl/E	QB-01

Client ID: SW-10 Lab ID: C807924-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	634	B	100	ug/L	EPA 6010B	
Antimony	2.1	J	10.0	ug/L	EPA 6010B	
Barium	38.4		10.0	ug/L	EPA 6010B	
Beryllium	0.10	J	1.00	ug/L	EPA 6010B	
Boron	36.1	J	50.0	ug/L	EPA 6010B	
Calcium	20200		100	ug/L	EPA 6010B	
Cobalt	7.7	J	10.0	ug/L	EPA 6010B	
Fluoride	0.21	B	0.20	mg/L	EPA 300.0	QB-01
Iron	422		50	ug/L	EPA 6010B	
Magnesium	8170		100	ug/L	EPA 6010B	
Manganese	407		10.0	ug/L	EPA 6010B	
Nickel	13.8		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.10	B	0.10	mg/L	EPA 353.2	J-01a
Potassium	2350		500	ug/L	EPA 6010B	
Sodium	14600		500	ug/L	EPA 6010B	
Sulfate as SO4	93		5.0	mg/L	EPA 300.0	
Total Dissolved Solids	190		10	mg/L	EPA 160.1	
Total Suspended Solids	7.6		1.0	mg/L	EPA 160.2	
Zinc	33.8		10.0	ug/L	EPA 6010B	

Client ID: SW-10 Lab ID: C807924-02RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Chloride	22	B	5.0	mg/L	SM4500-Cl/E	QB-01

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Client ID: MW-4 Lab ID: C807924-03

Analyte	Results	Flag	MRL	Units	Method	Notes
% Solids	77		0.1	% by Weight	% Solids	
Aluminum	0.798	B	0.200	mg/L	EPA 6010B	QB-01
Aluminum	0.396	J	1.00	mg/L	EPA 6010B	
Aluminum	543	B	6.5	mg/kg dry	EPA 6010B	
Arsenic	0.26	JB	0.65	mg/kg dry	EPA 6010B	
Barium	0.0208	B	0.0100	mg/L	EPA 6010B	J-01
Barium	0.378	B	0.0500	mg/L	EPA 6010B	J-01
Barium	3.37		0.653	mg/kg dry	EPA 6010B	
Boron	0.423	B	0.250	mg/L	EPA 6010B	J-01
Boron	0.53	JB	3.27	mg/kg dry	EPA 6010B	
Boron	0.101	B	0.0500	mg/L	EPA 6010B	J-01
Calcium	6.25	B	2.50	mg/L	EPA 6010B	J-01
Calcium	68.0		32.7	mg/kg dry	EPA 6010B	
Calcium	0.878	B	0.500	mg/L	EPA 6010B	J-01
Chloride	25	J	65	mg/kg dry wt. dry	EPA 9056	Q
Chromium	0.00248	JB	0.0100	mg/L	EPA 6010B	J-01
Chromium	0.00605	J	0.0500	mg/L	EPA 6010B	
Chromium	2.20		0.65	mg/kg dry	EPA 6010B	
Cobalt	0.0316	J	0.0500	mg/L	EPA 6010B	
Cobalt	1.49		0.65	mg/kg dry	EPA 6010B	
Cobalt	0.0097	J	0.0100	mg/L	EPA 6010B	
Fluoride	0.65	JB	2.6	mg/kg dry wt. dry	EPA 9056	J-01a, Q
Iron	0.261		0.0500	mg/L	EPA 6010B	
Iron	0.346		0.250	mg/L	EPA 6010B	
Iron	566		3.3	mg/kg dry	EPA 6010B	
Lead	0.0107	J	0.0500	mg/L	EPA 6010B	
Lead	0.47	J	0.65	mg/kg dry	EPA 6010B	
Magnesium	0.623	B	0.500	mg/L	EPA 6010B	J-01
Magnesium	1.25	JB	2.50	mg/L	EPA 6010B	J-01
Magnesium	98.2		6.5	mg/kg dry	EPA 6010B	
Manganese	3.94		0.653	mg/kg dry	EPA 6010B	
Manganese	0.0217	J	0.0500	mg/L	EPA 6010B	
Manganese	0.0064	J	0.0100	mg/L	EPA 6010B	
Nickel	3.32		0.65	mg/kg dry	EPA 6010B	
Nickel	0.0611	JB	0.250	mg/L	EPA 6010B	J-01
Nickel	0.0254	JB	0.0500	mg/L	EPA 6010B	QB-01
Nitrate as N	4.4	J	13	mg/kg dry wt. dry	EPA 9056	Q
Phosphorus	24		10	mg/kg dry	EPA 365.4	
Potassium	57.6	B	32.7	mg/kg dry	EPA 6010B	
Potassium	1.46	JB	2.50	mg/L	EPA 6010B	J-01
Potassium	0.226	JB	0.500	mg/L	EPA 6010B	J-01
Silver	0.0007	J	0.0100	mg/L	EPA 6010B	
Silver	0.0022	J	0.0500	mg/L	EPA 6010B	
Sodium	1310	B	2.50	mg/L	EPA 6010B	J-01
Sodium	4.11	B	0.500	mg/L	EPA 6010B	J-01
Sodium	31	JB	33	mg/kg dry	EPA 6010B	
Sulfate as SO4	150	B	65	mg/kg dry wt. dry	EPA 9056	J-01a, Q
Vanadium	0.0017	J	0.0100	mg/L	EPA 6010B	
Vanadium	1.99	B	0.653	mg/kg dry	EPA 6010B	

Client ID: MW-4 Lab ID: C807924-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Zinc	0.166	B	0.100	mg/L	EPA 6010B	J-01
Zinc	3.75		0.653	mg/kg dry	EPA 6010B	
Zinc	0.0139	JB	0.0200	mg/L	EPA 6010B	J-01

Client ID: MW-4 Lab ID: C807924-03RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Total Alkalinity	110	JB	200	mg/kg dry	EPA 310.2	J-01a, Q

Client ID: MW-5D Lab ID: C807924-04

Analyte	Results	Flag	MRL	Units	Method	Notes
% Solids	78		0.1	% by Weight	% Solids	
Aluminum	1.09		1.00	mg/L	EPA 6010B	
Aluminum	8570	B	6.4	mg/kg dry	EPA 6010B	
Aluminum	4.31	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.62	JB	0.64	mg/kg dry	EPA 6010B	
Arsenic	0.00306	J	0.0100	mg/L	EPA 6010B	
Arsenic	3.87	B	0.64	mg/kg dry	EPA 6010B	
Barium	0.0516	B	0.0100	mg/L	EPA 6010B	J-01
Barium	39.3		0.640	mg/kg dry	EPA 6010B	
Barium	0.813	B	0.0500	mg/L	EPA 6010B	J-01
Beryllium	0.110		0.064	mg/kg dry	EPA 6010B	
Boron	2.57	JB	3.20	mg/kg dry	EPA 6010B	
Boron	0.111	B	0.0500	mg/L	EPA 6010B	J-01
Boron	0.490	B	0.250	mg/L	EPA 6010B	J-01
Cadmium	0.0012	J	0.0050	mg/L	EPA 6010B	
Calcium	64.2		32.0	mg/kg dry	EPA 6010B	
Calcium	9.12	B	2.50	mg/L	EPA 6010B	J-01
Calcium	1.60	B	0.500	mg/L	EPA 6010B	J-01
Chloride	22	J	64	mg/kg dry wt. dry	EPA 9056	Q
Chromium	22.3		0.64	mg/kg dry	EPA 6010B	
Chromium	0.00808	JB	0.0100	mg/L	EPA 6010B	J-01
Chromium	0.00526	J	0.0500	mg/L	EPA 6010B	
Cobalt	7.17		0.64	mg/kg dry	EPA 6010B	
Cobalt	0.0472	J	0.0500	mg/L	EPA 6010B	
Cobalt	0.0011	J	0.0100	mg/L	EPA 6010B	
Copper	0.0198	J	0.0500	mg/L	EPA 6010B	
Copper	10.9		0.640	mg/kg dry	EPA 6010B	
Iron	9380		3.2	mg/kg dry	EPA 6010B	
Iron	2.19		0.0500	mg/L	EPA 6010B	
Iron	0.110	J	0.250	mg/L	EPA 6010B	
Lead	0.0021	J	0.0100	mg/L	EPA 6010B	
Lead	9.10		0.64	mg/kg dry	EPA 6010B	
Lead	0.0175	J	0.0500	mg/L	EPA 6010B	
Magnesium	0.979	B	0.500	mg/L	EPA 6010B	J-01
Magnesium	4.19	B	2.50	mg/L	EPA 6010B	J-01
Magnesium	944		6.4	mg/kg dry	EPA 6010B	
Manganese	31.2		0.640	mg/kg dry	EPA 6010B	
Manganese	0.0516		0.0500	mg/L	EPA 6010B	
Manganese	0.0034	J	0.0100	mg/L	EPA 6010B	
Mercury	0.008	J	0.01	mg/kg dry	EPA 7471A	
Nickel	0.0679	JB	0.250	mg/L	EPA 6010B	J-01

Client ID: MW-5D Lab ID: C807924-04

Analyte	Results	Flag	MRL	Units	Method	Notes
Nickel	0.0024	JB	0.0500	mg/L	EPA 6010B	J-01
Nickel	13.2		0.64	mg/kg dry	EPA 6010B	
Nitrate as N	4.3	J	13	mg/kg dry wt. dry	EPA 9056	Q
Phosphorus	96		10	mg/kg dry	EPA 365.4	
Potassium	0.714	B	0.500	mg/L	EPA 6010B	J-01
Potassium	851	B	32.0	mg/kg dry	EPA 6010B	
Potassium	1.90	JB	2.50	mg/L	EPA 6010B	J-01
Sodium	1300	B	2.50	mg/L	EPA 6010B	J-01
Sodium	101	B	32	mg/kg dry	EPA 6010B	
Sodium	21.4	B	0.500	mg/L	EPA 6010B	J-01
Sulfate as SO4	71	B	64	mg/kg dry wt. dry	EPA 9056	J-01a, Q
Vanadium	28.4	B	0.640	mg/kg dry	EPA 6010B	
Vanadium	0.0089	J	0.0100	mg/L	EPA 6010B	
Zinc	0.255	B	0.100	mg/L	EPA 6010B	J-01
Zinc	26.7		0.640	mg/kg dry	EPA 6010B	
Zinc	0.0123	JB	0.0200	mg/L	EPA 6010B	J-01

Client ID: MW-5D Lab ID: C807924-05

Analyte	Results	Flag	MRL	Units	Method	Notes
% Solids	81		0.1	% by Weight	% Solids	
Aluminum	0.800	B	0.200	mg/L	EPA 6010B	QB-01
Aluminum	0.153	J	1.00	mg/L	EPA 6010B	
Aluminum	459	B	6.2	mg/kg dry	EPA 6010B	
Antimony	0.37	JB	0.62	mg/kg dry	EPA 6010B	
Arsenic	0.73	B	0.62	mg/kg dry	EPA 6010B	
Barium	0.0352	B	0.0100	mg/L	EPA 6010B	J-01
Barium	0.336	B	0.0500	mg/L	EPA 6010B	J-01
Barium	2.52		0.615	mg/kg dry	EPA 6010B	
Boron	0.60	JB	3.08	mg/kg dry	EPA 6010B	
Boron	0.102	B	0.0500	mg/L	EPA 6010B	J-01
Boron	0.334	B	0.250	mg/L	EPA 6010B	J-01
Calcium	123		30.8	mg/kg dry	EPA 6010B	
Calcium	2.27	B	0.500	mg/L	EPA 6010B	J-01
Calcium	6.62	B	2.50	mg/L	EPA 6010B	J-01
Chloride	21	J	62	mg/kg dry wt. dry	EPA 9056	Q
Chromium	0.00257	JB	0.0100	mg/L	EPA 6010B	J-01
Chromium	1.63		0.62	mg/kg dry	EPA 6010B	
Cobalt	0.0055	J	0.0500	mg/L	EPA 6010B	
Cobalt	0.0004	J	0.0100	mg/L	EPA 6010B	
Cobalt	0.63		0.62	mg/kg dry	EPA 6010B	
Fluoride	0.49	JB	2.5	mg/kg dry wt. dry	EPA 9056	J-01a, Q
Iron	1.82		0.250	mg/L	EPA 6010B	
Iron	0.529		0.0500	mg/L	EPA 6010B	
Iron	974		3.1	mg/kg dry	EPA 6010B	
Lead	0.84		0.62	mg/kg dry	EPA 6010B	
Magnesium	1.13	JB	2.50	mg/L	EPA 6010B	J-01
Magnesium	99.4		6.2	mg/kg dry	EPA 6010B	
Magnesium	0.578	B	0.500	mg/L	EPA 6010B	J-01
Manganese	0.0564		0.0500	mg/L	EPA 6010B	

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Client ID: MW-5D Lab ID: G807924-05

Analyte	Results	Flag	MRL	Units	Method	Notes
Manganese	0.0073	J	0.0100	mg/L	EPA 6010B	
Manganese	7.52		0.615	mg/kg dry	EPA 6010B	
Nickel	0.0120	JB	0.250	mg/L	EPA 6010B	J-01
Nickel	0.0019	JB	0.0500	mg/L	EPA 6010B	J-01
Nickel	1.17		0.62	mg/kg dry	EPA 6010B	
Nitrate as N	4.3	J	12	mg/kg dry wt. dry	EPA 9056	Q
Phosphorus	50		9.8	mg/kg dry	EPA 365.4	
Potassium	86.5	B	30.8	mg/kg dry	EPA 6010B	
Potassium	1.35	JB	2.50	mg/L	EPA 6010B	J-01
Potassium	0.257	JB	0.500	mg/L	EPA 6010B	J-01
Silver	0.0006	J	0.0100	mg/L	EPA 6010B	
Sodium	70	B	31	mg/kg dry	EPA 6010B	
Sodium	16.2	B	0.500	mg/L	EPA 6010B	J-01
Sodium	1320	B	2.50	mg/L	EPA 6010B	J-01
Sulfate as SO4	100	B	62	mg/kg dry wt. dry	EPA 9056	J-01a, Q
Vanadium	1.89	B	0.615	mg/kg dry	EPA 6010B	
Vanadium	0.0017	J	0.0100	mg/L	EPA 6010B	
Zinc	0.180	B	0.100	mg/L	EPA 6010B	J-01
Zinc	3.16		0.615	mg/kg dry	EPA 6010B	
Zinc	0.0165	JB	0.0200	mg/L	EPA 6010B	J-01

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ANALYTICAL RESULTS

Description: FS-6
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807924-01
Sampled: 07/23/08 12:30
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**595**	B	ug/L	1	17	100	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Barium [7440-39-3] ^	**68.5**		ug/L	1	1.00	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Boron [7440-42-8] ^	**33.7**	J	ug/L	1	5.0	50.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Calcium [7440-70-2] ^	**19000**		ug/L	1	20.0	100	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Cobalt [7440-48-4] ^	**9.5**	J	ug/L	1	1.1	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Copper [7440-50-8] ^	**106**		ug/L	1	1.60	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Iron [7439-89-6] ^	**2950**		ug/L	1	22	50	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Lead [7439-92-1] ^	**22.0**		ug/L	1	1.9	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Magnesium [7439-95-4] ^	**3560**		ug/L	1	23	100	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Manganese [7439-96-5] ^	**112**		ug/L	1	1.1	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G26002	EPA 7470A	07/28/08 18:15	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Nickel [7440-02-0] ^	**9.1**	J	ug/L	1	1.8	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Potassium [7440-09-7] ^	**2280**		ug/L	1	150	500	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Sodium [7440-23-5] ^	**55300**		ug/L	1	400	500	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Zinc [7440-66-6] ^	**55.2**		ug/L	1	3.8	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**89**	B	mg/L	1	0.50	5.0	8G30008	SM4500-Cl/E	07/30/08 13:09	PEV	QB-01
Fluoride [16984-48-8]	0.01	U	mg/L	1	0.01	0.20	8G31030	EPA 300.0	08/01/08 10:04	AJ	
Nitrate/Nitrite as N [NA]	**0.025**	JB	mg/L	1	0.017	0.10	8G27003	EPA 353.2	07/27/08 15:07	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8G31035	EPA 365.4	08/03/08 11:09	PEV	
Sulfate as SO4 [14808-79-8]	**56**		mg/L	1	0.05	5.0	8G31030	EPA 300.0	08/01/08 10:04	AJ	
Total Alkalinity [NA]	2.7	U	mg/L	1	2.7	15	8G30007	EPA 310.2	07/30/08 11:54	aj	
Total Dissolved Solids [NA]	**270**		mg/L	1	10	10	8G28006	EPA 160.1	07/30/08 16:30	JOC	
Total Suspended Solids [NA]	**1.7**		mg/L	1	1.0	1.0	8G28012	EPA 160.2	07/31/08 10:00	FLT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: SW-10
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807924-02
Sampled: 07/23/08 14:20
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**634**	B	ug/L	1	17	100	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Antimony [7440-36-0] ^	**2.1**	J	ug/L	1	1.0	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Barium [7440-39-3] ^	**38.4**		ug/L	1	1.00	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Beryllium [7440-41-7] ^	**0.10**	J	ug/L	1	0.10	1.00	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Boron [7440-42-8] ^	**36.1**	J	ug/L	1	5.0	50.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Calcium [7440-70-2] ^	**20200**		ug/L	1	20.0	100	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Cobalt [7440-48-4] ^	**7.7**	J	ug/L	1	1.1	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Iron [7439-89-6] ^	**422**		ug/L	1	22	50	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Magnesium [7439-95-4] ^	**8170**		ug/L	1	23	100	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Manganese [7439-96-5] ^	**407**		ug/L	1	1.1	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G26002	EPA 7470A	07/28/08 18:20	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Nickel [7440-02-0] ^	**13.8**		ug/L	1	1.8	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Potassium [7440-09-7] ^	**2350**		ug/L	1	150	500	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Sodium [7440-23-5] ^	**14600**		ug/L	1	400	500	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Zinc [7440-66-6] ^	**33.8**		ug/L	1	3.8	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**22**	B	mg/L	1	0.50	5.0	8G30008	SM4500-Cl/E	07/30/08 13:09	PEV	QB-01
Fluoride [16984-48-8]	**0.21**	B	mg/L	1	0.01	0.20	8G31030	EPA 300.0	08/01/08 10:34	AJ	QB-01
Nitrate/Nitrite as N [NA]	**0.10**	B	mg/L	1	0.017	0.10	8G27003	EPA 353.2	07/27/08 15:08	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8G31035	EPA 365.4	08/03/08 11:12	PEV	
Sulfate as SO4 [14808-79-8]	**93**		mg/L	1	0.05	5.0	8G31030	EPA 300.0	08/01/08 10:34	AJ	
Total Alkalinity [NA]	2.7	U	mg/L	1	2.7	15	8G30007	EPA 310.2	07/30/08 11:56	aj	
Total Dissolved Solids [NA]	**190**		mg/L	1	10	10	8G28006	EPA 160.1	07/30/08 16:30	JOC	
Total Suspended Solids [NA]	**7.6**		mg/L	1	1.0	1.0	8G28012	EPA 160.2	07/31/08 10:00	FLT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	MW-4	**Lab Sample ID:**	C807924-03	**Received:**	07/24/08 10:45
Matrix:	Soil	**Sampled:**	07/21/08 09:27	**Work Order:**	C807924
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	76.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**543**	B	mg/kg dry	1	2.7	6.5	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Antimony [7440-36-0] ^	0.14	U	mg/kg dry	1	0.14	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Arsenic [7440-38-2] ^	**0.26**	JB	mg/kg dry	1	0.08	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Barium [7440-39-3] ^	**3.37**		mg/kg dry	1	0.065	0.653	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Beryllium [7440-41-7] ^	0.016	U	mg/kg dry	1	0.016	0.065	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Boron [7440-42-8] ^	**0.53**	JB	mg/kg dry	1	0.33	3.27	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Cadmium [7440-43-9] ^	0.013	U	mg/kg dry	1	0.013	0.065	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Calcium [7440-70-2] ^	**68.0**		mg/kg dry	1	7.32	32.7	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Chromium [7440-47-3] ^	**2.20**		mg/kg dry	1	0.07	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Cobalt [7440-48-4] ^	**1.49**		mg/kg dry	1	0.07	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Copper [7440-50-8] ^	0.248	U	mg/kg dry	1	0.248	0.653	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Iron [7439-89-6] ^	**566**		mg/kg dry	1	0.6	3.3	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Lead [7439-92-1] ^	**0.47**	J	mg/kg dry	1	0.16	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Magnesium [7439-95-4] ^	**98.2**		mg/kg dry	1	0.8	6.5	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Manganese [7439-96-5] ^	**3.94**		mg/kg dry	1	0.064	0.653	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Mercury [7439-97-6] ^	0.007	U	mg/kg dry	1	0.007	0.01	8G29003	EPA 7471A	07/31/08 11:20	MPL	
Molybdenum [7439-98-7] ^	0.08	U	mg/kg dry	1	0.08	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Nickel [7440-02-0] ^	**3.32**		mg/kg dry	1	0.47	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Potassium [7440-09-7] ^	**57.6**	B	mg/kg dry	1	5.2	32.7	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Selenium [7782-49-2] ^	0.13	U	mg/kg dry	1	0.13	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Silver [7440-22-4] ^	0.07	U	mg/kg dry	1	0.07	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Sodium [7440-23-5] ^	**31**	JB	mg/kg dry	1	8	33	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Thallium [7440-28-0] ^	0.26	U	mg/kg dry	1	0.26	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Vanadium [7440-62-2] ^	**1.99**	B	mg/kg dry	1	0.065	0.653	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Zinc [7440-66-6] ^	**3.75**		mg/kg dry	1	0.065	0.653	8G29002	EPA 6010B	07/31/08 16:33	VLO	

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Description: MW-4
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-03
Sampled: 07/21/08 09:27
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 76.5

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
% Solids [NA]	**77**		% by Weight	1	0.1	0.1	8G28022	% Solids	07/28/08 14:20	GPW	
Chloride [16887-00-6]	**25**	J	mg/kg dry wt. dry	1	6.5	65	8H05022	EPA 9056	08/06/08 00:27	AJ	Q
Fluoride [16984-48-8]	**0.65**	JB	mg/kg dry wt. dry	1	0.18	2.6	8H05022	EPA 9056	08/06/08 00:27	AJ	J-01a, Q
Nitrate as N [14797-55-8]	**4.4**	J	mg/kg dry wt. dry	1	1.3	13	8H05022	EPA 9056	08/06/08 00:27	AJ	Q
Nitrite as N [14797-65-0]	0.18	U	mg/kg dry wt. dry	1	0.18	1.3	8H05022	EPA 9056	08/06/08 00:27	AJ	Q
Phosphorus [7723-14-0]	**24**		mg/kg dry	1	8.2	10	8G31037	EPA 365.4	08/03/08 11:22	PEV	
Sulfate as SO4 [14808-79-8]	**150**	B	mg/kg dry wt. dry	1	6.5	65	8H05022	EPA 9056	08/06/08 00:27	AJ	J-01a, Q
Total Alkalinity [NA]	**110**	JB	mg/kg dry	1	61	200	8H06006	EPA 310.2	08/06/08 12:41	AJ	J-01a, Q

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**0.396**	J	mg/L	1	0.110	1.00	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Antimony [7440-36-0] ^	0.0155	U	mg/L	1	0.0155	0.100	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Arsenic [7440-38-2] ^	0.0120	U	mg/L	1	0.0120	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Barium [7440-39-3] ^	**0.378**	B	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Beryllium [7440-41-7] ^	0.0008	U	mg/L	1	0.0008	0.0050	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Boron [7440-42-8] ^	**0.423**	B	mg/L	1	0.0475	0.250	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Cadmium [7440-43-9] ^	0.0009	U	mg/L	1	0.0009	0.0050	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Calcium [7440-70-2] ^	**6.25**	B	mg/L	1	0.0650	2.50	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Chromium [7440-47-3] ^	**0.00605**	J	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Cobalt [7440-48-4] ^	**0.0316**	J	mg/L	1	0.0012	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Copper [7440-50-8] ^	0.0060	U	mg/L	1	0.0060	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Iron [7439-89-6] ^	**0.346**		mg/L	1	0.0240	0.250	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Lead [7439-92-1] ^	**0.0107**	J	mg/L	1	0.0080	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Magnesium [7439-95-4] ^	**1.25**	JB	mg/L	1	0.0750	2.50	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Manganese [7439-96-5] ^	**0.0217**	J	mg/L	1	0.0038	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Mercury [7439-97-6] ^	0.00054	U	mg/L	1	0.00054	0.00200	8G30020	EPA 7470A	07/31/08 16:06	GMB	
Molybdenum [7439-98-7] ^	0.0034	U	mg/L	1	0.0034	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Nickel [7440-02-0] ^	**0.0611**	JB	mg/L	1	0.0041	0.250	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Potassium [7440-09-7] ^	**1.46**	JB	mg/L	1	0.270	2.50	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Selenium [7782-49-2] ^	0.0185	U	mg/L	1	0.0185	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Silver [7440-22-4] ^	**0.0022**	J	mg/L	1	0.0020	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Sodium [7440-23-5] ^	**1310**	B	mg/L	1	0.190	2.50	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Thallium [7440-28-0] ^	0.0255	U	mg/L	1	0.0255	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Vanadium [7440-62-2] ^	0.0022	U	mg/L	1	0.0022	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Zinc [7440-66-6] ^	**0.166**	B	mg/L	1	0.0145	0.100	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01

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Description:	MW-4	**Lab Sample ID:**	C807924-03	**Received:**	07/24/08 10:45
Matrix:	Soil	**Sampled:**	07/21/08 09:27	**Work Order:**	C807924
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	76.5

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**0.798**	B	mg/L	1	0.0220	0.200	8H01014	EPA 6010B	08/04/08 20:36	ACV	QB-01
Antimony [7440-36-0] ^	0.00310	U	mg/L	1	0.00310	0.0200	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Arsenic [7440-38-2] ^	0.00240	U	mg/L	1	0.00240	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Barium [7440-39-3] ^	**0.0208**	B	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Boron [7440-42-8] ^	**0.101**	B	mg/L	1	0.0095	0.0500	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Calcium [7440-70-2] ^	**0.878**	B	mg/L	1	0.0130	0.500	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Chromium [7440-47-3] ^	**0.00248**	JB	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Cobalt [7440-48-4] ^	**0.0097**	J	mg/L	1	0.0002	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Iron [7439-89-6] ^	**0.261**		mg/L	1	0.0048	0.0500	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Magnesium [7439-95-4] ^	**0.623**	B	mg/L	1	0.0150	0.500	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Manganese [7439-96-5] ^	**0.0064**	J	mg/L	1	0.0008	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8G30019	EPA 7470A	07/31/08 15:37	AA	
Molybdenum [7439-98-7] ^	0.0007	U	mg/L	1	0.0007	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Nickel [7440-02-0] ^	**0.0254**	JB	mg/L	1	0.0004	0.0500	8H01014	EPA 6010B	08/04/08 20:36	ACV	QB-01
Potassium [7440-09-7] ^	**0.226**	JB	mg/L	1	0.0540	0.500	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Selenium [7782-49-2] ^	0.0037	U	mg/L	1	0.0037	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Silver [7440-22-4] ^	**0.0007**	J	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Sodium [7440-23-5] ^	**4.11**	B	mg/L	1	0.0380	0.500	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Vanadium [7440-62-2] ^	**0.0017**	J	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Zinc [7440-66-6] ^	**0.0139**	JB	mg/L	1	0.0029	0.0200	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-5D
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-04
Sampled: 07/21/08 13:00
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 78.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**8570**	B	mg/kg dry	1	2.7	6.4	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Antimony [7440-36-0] ^	**0.62**	JB	mg/kg dry	1	0.14	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Arsenic [7440-38-2] ^	**3.87**	B	mg/kg dry	1	0.08	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Barium [7440-39-3] ^	**39.3**		mg/kg dry	1	0.064	0.640	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Beryllium [7440-41-7] ^	**0.110**		mg/kg dry	1	0.015	0.064	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Boron [7440-42-8] ^	**2.57**	JB	mg/kg dry	1	0.32	3.20	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Cadmium [7440-43-9] ^	0.012	U	mg/kg dry	1	0.012	0.064	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Calcium [7440-70-2] ^	**64.2**		mg/kg dry	1	7.17	32.0	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Chromium [7440-47-3] ^	**22.3**		mg/kg dry	1	0.07	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Cobalt [7440-48-4] ^	**7.17**		mg/kg dry	1	0.06	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Copper [7440-50-8] ^	**10.9**		mg/kg dry	1	0.243	0.640	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Iron [7439-89-6] ^	**9380**		mg/kg dry	1	0.6	3.2	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Lead [7439-92-1] ^	**9.10**		mg/kg dry	1	0.15	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Magnesium [7439-95-4] ^	**944**		mg/kg dry	1	0.8	6.4	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Manganese [7439-96-5] ^	**31.2**		mg/kg dry	1	0.063	0.640	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Mercury [7439-97-6] ^	**0.008**	J	mg/kg dry	1	0.006	0.01	8G29003	EPA 7471A	07/31/08 12:03	MPL	
Molybdenum [7439-98-7] ^	0.08	U	mg/kg dry	1	0.08	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Nickel [7440-02-0] ^	**13.2**		mg/kg dry	1	0.46	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Potassium [7440-09-7] ^	**851**	B	mg/kg dry	1	5.1	32.0	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Selenium [7782-49-2] ^	0.13	U	mg/kg dry	1	0.13	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Silver [7440-22-4] ^	0.06	U	mg/kg dry	1	0.06	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Sodium [7440-23-5] ^	**101**	B	mg/kg dry	1	8	32	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Thallium [7440-28-0] ^	0.26	U	mg/kg dry	1	0.26	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Vanadium [7440-62-2] ^	**28.4**	B	mg/kg dry	1	0.064	0.640	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Zinc [7440-66-6] ^	**26.7**		mg/kg dry	1	0.064	0.640	8G29002	EPA 6010B	07/31/08 17:46	VLO	

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Description: MW-5D
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-04
Sampled: 07/21/08 13:00
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 78.1

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
% Solids [NA]	**78**		% by Weight	1	0.1	0.1	8G28022	% Solids	07/28/08 14:20	GPW	
Chloride [16887-00-6]	**22**	J	mg/kg dry wt. dry	1	6.4	64	8H05022	EPA 9056	08/06/08 00:56	AJ	Q
Fluoride [16984-48-8]	0.18	U	mg/kg dry wt. dry	1	0.18	2.6	8H05022	EPA 9056	08/06/08 00:56	AJ	Q
Nitrate as N [14797-55-8]	**4.3**	J	mg/kg dry wt. dry	1	1.3	13	8H05022	EPA 9056	08/06/08 00:56	AJ	Q
Nitrite as N [14797-65-0]	0.18	U	mg/kg dry wt. dry	1	0.18	1.3	8H05022	EPA 9056	08/06/08 00:56	AJ	Q
Phosphorus [7723-14-0]	**96**		mg/kg dry	1	8.1	10	8G31037	EPA 365.4	08/03/08 11:26	PEV	
Sulfate as SO4 [14808-79-8]	**71**	B	mg/kg dry wt. dry	1	6.4	64	8H05022	EPA 9056	08/06/08 00:56	AJ	J-01a, Q
Total Alkalinity [NA]	60	U	mg/kg dry	1	60	190	8H06006	EPA 310.2	08/06/08 09:43	AJ	Q

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Description:	MW-5D	**Lab Sample ID:**	C807924-04	**Received:**	07/24/08 10:45
Matrix:	Soil	**Sampled:**	07/21/08 13:00	**Work Order:**	C807924
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	78.1

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**1.09**		mg/L	1	0.110	1.00	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Antimony [7440-36-0] ^	0.0155	U	mg/L	1	0.0155	0.100	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Arsenic [7440-38-2] ^	0.0120	U	mg/L	1	0.0120	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Barium [7440-39-3] ^	**0.813**	B	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Beryllium [7440-41-7] ^	0.0008	U	mg/L	1	0.0008	0.0050	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Boron [7440-42-8] ^	**0.490**	B	mg/L	1	0.0475	0.250	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Cadmium [7440-43-9] ^	**0.0012**	J	mg/L	1	0.0009	0.0050	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Calcium [7440-70-2] ^	**9.12**	B	mg/L	1	0.0650	2.50	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Chromium [7440-47-3] ^	**0.00526**	J	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Cobalt [7440-48-4] ^	**0.0472**	J	mg/L	1	0.0012	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Copper [7440-50-8] ^	**0.0198**	J	mg/L	1	0.0060	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Iron [7439-89-6] ^	**0.110**	J	mg/L	1	0.0240	0.250	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Lead [7439-92-1] ^	**0.0175**	J	mg/L	1	0.0080	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Magnesium [7439-95-4] ^	**4.19**	B	mg/L	1	0.0750	2.50	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Manganese [7439-96-5] ^	**0.0516**		mg/L	1	0.0038	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Mercury [7439-97-6] ^	0.00054	U	mg/L	1	0.00054	0.00200	8G30020	EPA 7470A	07/31/08 16:07	GMB	
Molybdenum [7439-98-7] ^	0.0034	U	mg/L	1	0.0034	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Nickel [7440-02-0] ^	**0.0679**	JB	mg/L	1	0.0041	0.250	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Potassium [7440-09-7] ^	**1.90**	JB	mg/L	1	0.270	2.50	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Selenium [7782-49-2] ^	0.0185	U	mg/L	1	0.0185	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Silver [7440-22-4] ^	0.0020	U	mg/L	1	0.0020	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Sodium [7440-23-5] ^	**1300**	B	mg/L	1	0.190	2.50	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Thallium [7440-28-0] ^	0.0255	U	mg/L	1	0.0255	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Vanadium [7440-62-2] ^	0.0022	U	mg/L	1	0.0022	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Zinc [7440-66-6] ^	**0.255**	B	mg/L	1	0.0145	0.100	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01

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Description: MW-5D
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-04
Sampled: 07/21/08 13:00
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 78.1

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**4.31**	B	mg/L	1	0.0220	0.200	8H01014	EPA 6010B	08/04/08 20:50	ACV	QB-01
Antimony [7440-36-0] ^	0.00310	U	mg/L	1	0.00310	0.0200	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Arsenic [7440-38-2] ^	**0.00306**	J	mg/L	1	0.00240	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Barium [7440-39-3] ^	**0.0516**	B	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Boron [7440-42-8] ^	**0.111**	B	mg/L	1	0.0095	0.0500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Calcium [7440-70-2] ^	**1.60**	B	mg/L	1	0.0130	0.500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Chromium [7440-47-3] ^	**0.00808**	JB	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Cobalt [7440-48-4] ^	**0.0011**	J	mg/L	1	0.0002	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Iron [7439-89-6] ^	**2.19**		mg/L	1	0.0048	0.0500	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Lead [7439-92-1] ^	**0.0021**	J	mg/L	1	0.0016	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Magnesium [7439-95-4] ^	**0.979**	B	mg/L	1	0.0150	0.500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Manganese [7439-96-5] ^	**0.0034**	J	mg/L	1	0.0008	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8G30019	EPA 7470A	07/31/08 15:39	AA	
Molybdenum [7439-98-7] ^	0.0007	U	mg/L	1	0.0007	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Nickel [7440-02-0] ^	**0.0024**	JB	mg/L	1	0.0004	0.0500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Potassium [7440-09-7] ^	**0.714**	B	mg/L	1	0.0540	0.500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Selenium [7782-49-2] ^	0.0037	U	mg/L	1	0.0037	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Sodium [7440-23-5] ^	**21.4**	B	mg/L	1	0.0380	0.500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Vanadium [7440-62-2] ^	**0.0089**	J	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Zinc [7440-66-6] ^	**0.0123**	JB	mg/L	1	0.0029	0.0200	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	MW-5D	**Lab Sample ID:**	C807924-05	**Received:**	07/24/08 10:45
Matrix:	Soil	**Sampled:**	07/21/08 13:07	**Work Order:**	C807924
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	81.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**459**	B	mg/kg dry	1	2.6	6.2	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Antimony [7440-36-0] ^	**0.37**	JB	mg/kg dry	1	0.14	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Arsenic [7440-38-2] ^	**0.73**	B	mg/kg dry	1	0.08	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Barium [7440-39-3] ^	**2.52**		mg/kg dry	1	0.062	0.615	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Beryllium [7440-41-7] ^	0.015	U	mg/kg dry	1	0.015	0.062	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Boron [7440-42-8] ^	**0.60**	JB	mg/kg dry	1	0.31	3.08	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Cadmium [7440-43-9] ^	0.012	U	mg/kg dry	1	0.012	0.062	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Calcium [7440-70-2] ^	**123**		mg/kg dry	1	6.89	30.8	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Chromium [7440-47-3] ^	**1.63**		mg/kg dry	1	0.07	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Cobalt [7440-48-4] ^	**0.63**		mg/kg dry	1	0.06	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Copper [7440-50-8] ^	0.234	U	mg/kg dry	1	0.234	0.615	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Iron [7439-89-6] ^	**974**		mg/kg dry	1	0.6	3.1	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Lead [7439-92-1] ^	**0.84**		mg/kg dry	1	0.15	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Magnesium [7439-95-4] ^	**99.4**		mg/kg dry	1	0.8	6.2	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Manganese [7439-96-5] ^	**7.52**		mg/kg dry	1	0.060	0.615	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Mercury [7439-97-6] ^	0.005	U	mg/kg dry	1	0.005	0.01	8G29003	EPA 7471A	07/31/08 12:06	MPL	
Molybdenum [7439-98-7] ^	0.08	U	mg/kg dry	1	0.08	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Nickel [7440-02-0] ^	**1.17**		mg/kg dry	1	0.44	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Potassium [7440-09-7] ^	**86.5**	B	mg/kg dry	1	4.9	30.8	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Selenium [7782-49-2] ^	0.12	U	mg/kg dry	1	0.12	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Silver [7440-22-4] ^	0.06	U	mg/kg dry	1	0.06	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Sodium [7440-23-5] ^	**70**	B	mg/kg dry	1	7	31	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Thallium [7440-28-0] ^	0.25	U	mg/kg dry	1	0.25	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Vanadium [7440-62-2] ^	**1.89**	B	mg/kg dry	1	0.062	0.615	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Zinc [7440-66-6] ^	**3.16**		mg/kg dry	1	0.062	0.615	8G29002	EPA 6010B	07/31/08 17:53	VLO	

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Description: MW-5D
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-05
Sampled: 07/21/08 13:07
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 81.3

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
% Solids [NA]	**81**		% by Weight	1	0.1	0.1	8G28022	% Solids	07/28/08 14:20	GPW	
Chloride [16887-00-6]	**21**	J	mg/kg dry wt. dry	1	6.2	62	8H05022	EPA 9056	08/06/08 01:26	AJ	Q
Fluoride [16984-48-8]	**0.49**	JB	mg/kg dry wt. dry	1	0.17	2.5	8H05022	EPA 9056	08/06/08 01:26	AJ	J-01a, Q
Nitrate as N [14797-55-8]	**4.3**	J	mg/kg dry wt. dry	1	1.2	12	8H05022	EPA 9056	08/06/08 01:26	AJ	Q
Nitrite as N [14797-65-0]	0.17	U	mg/kg dry wt. dry	1	0.17	1.2	8H05022	EPA 9056	08/06/08 01:26	AJ	Q
Phosphorus [7723-14-0]	**50**		mg/kg dry	1	7.8	9.8	8G31037	EPA 365.4	08/03/08 11:28	PEV	
Sulfate as SO4 [14808-79-8]	**100**	B	mg/kg dry wt. dry	1	6.2	62	8H05022	EPA 9056	08/06/08 01:26	AJ	J-01a, Q
Total Alkalinity [NA]	58	U	mg/kg dry	1	58	180	8H06006	EPA 310.2	08/06/08 09:43	AJ	Q

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Description:	MW-5D	**Lab Sample ID:**	C807924-05	**Received:**	07/24/08 10:45
Matrix:	Soil	**Sampled:**	07/21/08 13:07	**Work Order:**	C807924
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	81.3

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**0.153**	J	mg/L	1	0.110	1.00	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Antimony [7440-36-0] ^	0.0155	U	mg/L	1	0.0155	0.100	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Arsenic [7440-38-2] ^	0.0120	U	mg/L	1	0.0120	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Barium [7440-39-3] ^	**0.336**	B	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Beryllium [7440-41-7] ^	0.0008	U	mg/L	1	0.0008	0.0050	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Boron [7440-42-8] ^	**0.334**	B	mg/L	1	0.0475	0.250	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Cadmium [7440-43-9] ^	0.0009	U	mg/L	1	0.0009	0.0050	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Calcium [7440-70-2] ^	**6.62**	B	mg/L	1	0.0650	2.50	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Chromium [7440-47-3] ^	0.00215	U	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Cobalt [7440-48-4] ^	**0.0055**	J	mg/L	1	0.0012	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Copper [7440-50-8] ^	0.0060	U	mg/L	1	0.0060	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Iron [7439-89-6] ^	**1.82**		mg/L	1	0.0240	0.250	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Lead [7439-92-1] ^	0.0080	U	mg/L	1	0.0080	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Magnesium [7439-95-4] ^	**1.13**	JB	mg/L	1	0.0750	2.50	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Manganese [7439-96-5] ^	**0.0564**		mg/L	1	0.0038	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Mercury [7439-97-6] ^	0.00054	U	mg/L	1	0.00054	0.00200	8G30020	EPA 7470A	07/31/08 16:09	GMB	
Molybdenum [7439-98-7] ^	0.0034	U	mg/L	1	0.0034	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Nickel [7440-02-0] ^	**0.0120**	JB	mg/L	1	0.0041	0.250	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Potassium [7440-09-7] ^	**1.35**	JB	mg/L	1	0.270	2.50	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Selenium [7782-49-2] ^	0.0185	U	mg/L	1	0.0185	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Silver [7440-22-4] ^	0.0020	U	mg/L	1	0.0020	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Sodium [7440-23-5] ^	**1320**	B	mg/L	1	0.190	2.50	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Thallium [7440-28-0] ^	0.0255	U	mg/L	1	0.0255	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Vanadium [7440-62-2] ^	0.0022	U	mg/L	1	0.0022	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Zinc [7440-66-6] ^	**0.180**	B	mg/L	1	0.0145	0.100	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01

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Description:	MW-5D	**Lab Sample ID:**	C807924-05	**Received:**	07/24/08 10:45
Matrix:	Soil	**Sampled:**	07/21/08 13:07	**Work Order:**	C807924
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	81.3

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**0.800**	B	mg/L	1	0.0220	0.200	8H01014	EPA 6010B	08/04/08 21:03	ACV	QB-01
Antimony [7440-36-0] ^	0.00310	U	mg/L	1	0.00310	0.0200	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Arsenic [7440-38-2] ^	0.00240	U	mg/L	1	0.00240	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Barium [7440-39-3] ^	**0.0352**	B	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Boron [7440-42-8] ^	**0.102**	B	mg/L	1	0.0095	0.0500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Calcium [7440-70-2] ^	**2.27**	B	mg/L	1	0.0130	0.500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Chromium [7440-47-3] ^	**0.00257**	JB	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Cobalt [7440-48-4] ^	**0.0004**	J	mg/L	1	0.0002	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Iron [7439-89-6] ^	**0.529**		mg/L	1	0.0048	0.0500	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Magnesium [7439-95-4] ^	**0.578**	B	mg/L	1	0.0150	0.500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Manganese [7439-96-5] ^	**0.0073**	J	mg/L	1	0.0008	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8G30019	EPA 7470A	07/31/08 15:41	AA	
Molybdenum [7439-98-7] ^	0.0007	U	mg/L	1	0.0007	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Nickel [7440-02-0] ^	**0.0019**	JB	mg/L	1	0.0004	0.0500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Potassium [7440-09-7] ^	**0.257**	JB	mg/L	1	0.0540	0.500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Selenium [7782-49-2] ^	0.0037	U	mg/L	1	0.0037	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Silver [7440-22-4] ^	**0.0006**	J	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Sodium [7440-23-5] ^	**16.2**	B	mg/L	1	0.0380	0.500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Vanadium [7440-62-2] ^	**0.0017**	J	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Zinc [7440-66-6] ^	**0.0165**	JB	mg/L	1	0.0029	0.0200	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G25002 - EPA 3005A

Blank (8G25002-BLK1) Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	39	J	100	ug/L							
Antimony	1.0	U	10.0	ug/L							
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.10	U	1.00	ug/L							
Boron	5.0	U	50.0	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Calcium	20.0	U	100	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22	U	50	ug/L							
Lead	1.9	U	10.0	ug/L							
Magnesium	23	U	100	ug/L							
Manganese	1.1	U	10.0	ug/L							
Molybdenum	2.5	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Potassium	150	U	500	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Sodium	400	U	500	ug/L							
Thallium	4.8	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8G25002-BS1) Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5040	B	100	ug/L	5000		101	77-130			
Antimony	256		10.0	ug/L	250		102	82-119			
Arsenic	519		10.0	ug/L	500		104	82-117			
Barium	521		10.0	ug/L	500		104	72-125			
Beryllium	264		1.00	ug/L	250		106	75-121			
Boron	524		50.0	ug/L	500		105	75-122			
Cadmium	264		1.00	ug/L	250		106	72-120			
Calcium	5120		100	ug/L	5000		102	81-111			
Chromium	513		10.0	ug/L	500		103	78-119			
Cobalt	505		10.0	ug/L	500		101	76-117			
Copper	255		10.0	ug/L	250		102	80-117			
Iron	5080		50	ug/L	5000		102	84-133			
Lead	509		10.0	ug/L	500		102	72-121			
Magnesium	5180		100	ug/L	5000		104	81-117			
Manganese	256		10.0	ug/L	250		102	76-123			
Molybdenum	243		10.0	ug/L	250		97	83-112			
Nickel	521		10.0	ug/L	500		104	78-116			
Potassium	23300		500	ug/L	25000		93	84-112			
Selenium	524		10.0	ug/L	500		105	82-127			
Silver	48.7		10.0	ug/L	50.0		97	80-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G25002 - EPA 3005A

LCS (8G25002-BS1) Continued Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	22900		500	ug/L	25000		91	81-120			
Thallium	258		10.0	ug/L	250		103	79-118			
Vanadium	249		10.0	ug/L	250		100	78-117			
Zinc	512		10.0	ug/L	500		102	80-120			

Matrix Spike (8G25002-MS1) Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:36

Source: C807495-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	6460	B	100	ug/L	5000	979	110	78-125			
Antimony	264		10.0	ug/L	250	1.0 U	106	38-138			
Arsenic	527		10.0	ug/L	500	2.8 U	105	64-126			
Barium	593		10.0	ug/L	500	58.8	107	74-119			
Beryllium	268		1.00	ug/L	250	0.10	107	70-131			
Boron	531		50.0	ug/L	500	5.0 U	106	77-114			
Cadmium	267		1.00	ug/L	250	0.36 U	107	68-121			
Calcium	5800		100	ug/L	5000	620	104	63-131			
Chromium	522		10.0	ug/L	500	1.3	104	73-120			
Cobalt	515		10.0	ug/L	500	1.1 U	103	76-120			
Copper	258		10.0	ug/L	250	1.60 U	103	75-123			
Iron	6300		50	ug/L	5000	1150	103	48-144			
Lead	514		10.0	ug/L	500	1.9 U	103	68-126			
Magnesium	6540		100	ug/L	5000	1340	104	59-129			
Manganese	287		10.0	ug/L	250	30.9	102	55-146			
Molybdenum	248		10.0	ug/L	250	2.5 U	99	72-118			
Nickel	530		10.0	ug/L	500	1.8 U	106	64-126			
Potassium	25900		500	ug/L	25000	1190	99	53-121			
Selenium	532		10.0	ug/L	500	2.7 U	106	65-129			
Silver	50.2		10.0	ug/L	50.0	1.9 U	100	69-121			
Sodium	24800		500	ug/L	25000	826	96	29-171			
Thallium	265		10.0	ug/L	250	4.8 U	106	67-135			
Vanadium	254		10.0	ug/L	250	2.3	101	71-130			
Zinc	526		10.0	ug/L	500	5.2	104	63-131			

Matrix Spike Dup (8G25002-MSD1) Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:43

Source: C807495-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	6560	B	100	ug/L	5000	979	112	78-125	2	22	
Antimony	265		10.0	ug/L	250	1.0 U	106	38-138	0.3	30	
Arsenic	529		10.0	ug/L	500	2.8 U	106	64-126	0.5	12	
Barium	596		10.0	ug/L	500	58.8	107	74-119	0.6	11	
Beryllium	270		1.00	ug/L	250	0.10	108	70-131	0.6	21	
Boron	535		50.0	ug/L	500	5.0 U	107	77-114	0.8	11	
Cadmium	270		1.00	ug/L	250	0.36 U	108	68-121	0.8	12	
Calcium	5840		100	ug/L	5000	620	104	63-131	0.8	22	
Chromium	526		10.0	ug/L	500	1.3	105	73-120	0.7	10	
Cobalt	516		10.0	ug/L	500	1.1 U	103	76-120	0.1	17	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G25002 - EPA 3005A

Matrix Spike Dup (8G25002-MSD1) Continued Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:43

Source: C807495-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	260		10.0	ug/L	250	1.60 U	104	75-123	0.7	16	
Iron	6400		50	ug/L	5000	1150	105	48-144	2	23	
Lead	516		10.0	ug/L	500	1.9 U	103	68-126	0.6	19	
Magnesium	6630		100	ug/L	5000	1340	106	59-129	1	22	
Manganese	291		10.0	ug/L	250	30.9	104	55-146	1	19	
Molybdenum	246		10.0	ug/L	250	2.5 U	99	72-118	0.7	12	
Nickel	533		10.0	ug/L	500	1.8 U	107	64-126	0.6	12	
Potassium	26400		500	ug/L	25000	1190	101	53-121	2	20	
Selenium	532		10.0	ug/L	500	2.7 U	106	65-129	0.1	10	
Silver	50.0		10.0	ug/L	50.0	1.9 U	100	69-121	0.4	12	
Sodium	25000		500	ug/L	25000	826	97	29-171	0.7	21	
Thallium	264		10.0	ug/L	250	4.8 U	106	67-135	0.5	13	
Vanadium	257		10.0	ug/L	250	2.3	102	71-130	0.8	16	
Zinc	528		10.0	ug/L	500	5.2	105	63-131	0.4	24	

Batch 8G26002 - EPA 7470A

Blank (8G26002-BLK1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 16:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8G26002-BS1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 16:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.65		0.20	ug/L	5.00		93	87-123			

Matrix Spike (8G26002-MS1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 17:02

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.55		0.20	ug/L	5.00	0.11 U	91	63-132			

Matrix Spike Dup (8G26002-MSD1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 17:05

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.66		0.20	ug/L	5.00	0.11 U	93	63-132	2	10	

Post Spike (8G26002-PS1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 17:08

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.59		0.20	ug/L	5.00	-0.01	92	0-200			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G29002 - EPA 3050B

Blank (8G29002-BLK1) Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 15:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**4.2**	**J**	5.0	mg/kg wet							QB-01
Manganese	0.049	U	0.500	mg/kg wet							
Antimony	**0.16**	**J**	0.50	mg/kg wet							
Arsenic	**0.07**	**J**	0.50	mg/kg wet							
Barium	0.050	U	0.500	mg/kg wet							
Beryllium	0.012	U	0.050	mg/kg wet							
Boron	**0.51**	**J**	2.50	mg/kg wet							
Cadmium	0.010	U	0.050	mg/kg wet							
Calcium	5.60	U	25.0	mg/kg wet							
Chromium	0.05	U	0.50	mg/kg wet							
Cobalt	0.05	U	0.50	mg/kg wet							
Copper	0.190	U	0.500	mg/kg wet							
Iron	0.5	U	2.5	mg/kg wet							
Lead	0.12	U	0.50	mg/kg wet							
Magnesium	0.6	U	5.0	mg/kg wet							
Molybdenum	0.06	U	0.50	mg/kg wet							
Nickel	0.36	U	0.50	mg/kg wet							
Potassium	**16.4**	**J**	25.0	mg/kg wet							
Selenium	0.10	U	0.50	mg/kg wet							
Silver	0.05	U	0.50	mg/kg wet							
Sodium	**11**	**J**	25	mg/kg wet							
Thallium	**0.22**	**J**	0.50	mg/kg wet							
Vanadium	**0.050**	**J**	0.500	mg/kg wet							
Zinc	0.050	U	0.500	mg/kg wet							

LCS (8G29002-BS1) Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 16:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	229	B	5.0	mg/kg wet	245		93	80-120			
Manganese	11.1		0.500	mg/kg wet	12.3		90	85-115			
Antimony	11.7	B	0.50	mg/kg wet	12.3		96	85-116			
Arsenic	22.3	B	0.50	mg/kg wet	24.5		91	77-125			
Barium	25.0		0.500	mg/kg wet	24.5		102	76-124			
Beryllium	11.6		0.050	mg/kg wet	12.3		95	83-121			
Boron	23.1	B	2.50	mg/kg wet	24.5		94	85-115			
Cadmium	11.9		0.050	mg/kg wet	12.3		97	76-123			
Calcium	229		25.0	mg/kg wet	245		93	89-115			
Chromium	23.0		0.50	mg/kg wet	24.5		94	81-121			
Cobalt	21.8		0.50	mg/kg wet	24.5		89	86-115			
Copper	11.9		0.500	mg/kg wet	12.3		97	81-119			
Iron	233		2.5	mg/kg wet	245		95	79-111			
Lead	21.2		0.50	mg/kg wet	24.5		87	79-127			
Magnesium	225		5.0	mg/kg wet	245		92	86-115			
Molybdenum	9.81		0.50	mg/kg wet	12.3		80	79-121			
Nickel	23.9		0.50	mg/kg wet	24.5		98	80-118			
Potassium	1200	B	25.0	mg/kg wet	1230		98	80-120			
Selenium	22.0		0.50	mg/kg wet	24.5		90	71-118			
Silver	2.29		0.50	mg/kg wet	2.45		93	78-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G29002 - EPA 3050B

LCS (8G29002-BS1) Continued Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 16:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	1160	B	25	mg/kg wet	1230		94	86-108			
Thallium	11.3	B	0.50	mg/kg wet	12.3		92	85-115			
Vanadium	11.2	B	0.500	mg/kg wet	12.3		91	89-112			
Zinc	22.9		0.500	mg/kg wet	24.5		94	76-128			

Matrix Spike (8G29002-MS1) Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 16:40

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	1040	B	6.5	mg/kg dry	317	543	157	35-172			
Manganese	18.1		0.653	mg/kg dry	15.9	3.94	89	75-125			
Antimony	13.4	B	0.65	mg/kg dry	15.9	0.14 U	84	52-147			
Arsenic	29.2	B	0.65	mg/kg dry	31.7	0.26	91	53-153			
Barium	35.1		0.653	mg/kg dry	31.7	3.37	100	46-120			
Beryllium	15.2		0.065	mg/kg dry	15.9	0.016 U	96	41-133			
Boron	29.9	B	3.27	mg/kg dry	31.7	0.53	93	97-103			QM-07
Cadmium	15.3		0.065	mg/kg dry	15.9	0.013 U	97	49-115			
Calcium	375		32.7	mg/kg dry	317	68.0	97	71-121			
Chromium	32.1		0.65	mg/kg dry	31.7	2.20	94	19-142			
Cobalt	29.5		0.65	mg/kg dry	31.7	1.49	88	30-143			
Copper	15.2		0.653	mg/kg dry	15.9	0.248 U	96	35-137			
Iron	883		3.3	mg/kg dry	317	566	100	48-139			
Lead	27.8		0.65	mg/kg dry	31.7	0.47	86	48-121			
Magnesium	399		6.5	mg/kg dry	317	98.2	95	36-149			
Molybdenum	12.1		0.65	mg/kg dry	15.9	0.08 U	76	59-126			
Nickel	34.1		0.65	mg/kg dry	31.7	3.32	97	43-121			
Potassium	1580	B	32.7	mg/kg dry	1590	57.6	96	70-135			
Selenium	28.0		0.65	mg/kg dry	31.7	0.13 U	88	43-126			
Silver	2.73		0.65	mg/kg dry	3.17	0.07 U	86	36-133			
Sodium	1530	B	33	mg/kg dry	1590	31.1	94	45-159			
Thallium	14.0	B	0.65	mg/kg dry	15.9	0.26 U	88	58-118			
Vanadium	16.4	B	0.653	mg/kg dry	15.9	1.99	91	31-142			
Zinc	33.2		0.653	mg/kg dry	31.7	3.75	93	37-138			

Matrix Spike Dup (8G29002-MSD1) Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 16:47

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	1070	B	6.5	mg/kg dry	317	543	165	35-172	2	32	
Manganese	18.4		0.653	mg/kg dry	15.9	3.94	91	75-125	2	20	
Antimony	13.3	B	0.65	mg/kg dry	15.9	0.14 U	84	52-147	0.05	28	
Arsenic	28.7	B	0.65	mg/kg dry	31.7	0.26	90	53-153	2	22	
Barium	35.4		0.653	mg/kg dry	31.7	3.37	101	46-120	0.8	16	
Beryllium	15.1		0.065	mg/kg dry	15.9	0.016 U	95	41-133	1	26	
Boron	29.8	B	3.27	mg/kg dry	31.7	0.53	92	97-103	0.4	23	QM-07
Cadmium	15.2		0.065	mg/kg dry	15.9	0.013 U	96	49-115	0.8	24	
Calcium	393		32.7	mg/kg dry	317	68.0	103	71-121	5	19	
Chromium	31.6		0.65	mg/kg dry	31.7	2.20	93	19-142	1	24	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G29002 - EPA 3050B

Matrix Spike Dup (8G29002-MSD1) Continued Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 16:47

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	29.2		0.65	mg/kg dry	31.7	1.49	87	30-143	1	17	
Copper	14.9		0.653	mg/kg dry	15.9	0.248 U	94	35-137	2	12	
Iron	916		3.3	mg/kg dry	317	566	110	48-139	4	38	
Lead	27.3		0.65	mg/kg dry	31.7	0.47	85	48-121	2	26	
Magnesium	400		6.5	mg/kg dry	317	98.2	95	36-149	0.2	23	
Molybdenum	11.5		0.65	mg/kg dry	15.9	0.08 U	73	59-126	4	21	
Nickel	34.0		0.65	mg/kg dry	31.7	3.32	97	43-121	0.4	14	
Potassium	1570	B	32.7	mg/kg dry	1590	57.6	95	70-135	1	22	
Selenium	27.5		0.65	mg/kg dry	31.7	0.13 U	87	43-126	2	14	
Silver	2.61		0.65	mg/kg dry	3.17	0.07 U	82	36-133	5	20	
Sodium	1480	B	33	mg/kg dry	1590	31.1	92	45-159	3	21	
Thallium	13.8	B	0.65	mg/kg dry	15.9	0.26 U	87	58-118	2	14	
Vanadium	16.3	B	0.653	mg/kg dry	15.9	1.99	90	31-142	0.8	16	
Zinc	32.9		0.653	mg/kg dry	31.7	3.75	92	37-138	0.8	19	

Batch 8G29003 - EPA 7471A

Blank (8G29003-BLK1) Prepared: 07/31/2008 07:23 Analyzed: 07/31/2008 11:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.005	U	0.01	mg/kg wet							

LCS (8G29003-BS1) Prepared: 07/31/2008 07:23 Analyzed: 07/31/2008 11:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.25		0.01	mg/kg wet	0.242		104	81-117			

Matrix Spike (8G29003-MS1) Prepared: 07/31/2008 07:23 Analyzed: 07/31/2008 11:22

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.34		0.01	mg/kg dry	0.321	0.007 U	107	75-125			

Matrix Spike Dup (8G29003-MSD1) Prepared: 07/31/2008 07:23 Analyzed: 07/31/2008 11:24

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.36		0.01	mg/kg dry	0.316	0.007 U	113	75-125	4	9	

Post Spike (8G29003-PS1) Prepared: 07/31/2008 07:23 Analyzed: 07/31/2008 11:27

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.005		0.0002	mg/L	0.00500	-0.00008	104	0-200			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G27003 - NO PREP

Blank (8G27003-BLK1) Prepared: 07/27/2008 10:19 Analyzed: 07/27/2008 14:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.031	J	0.10	mg/L							

LCS (8G27003-BS1) Prepared: 07/27/2008 10:19 Analyzed: 07/27/2008 14:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3	B	0.10	mg/L	1.25		101	80-120			

Matrix Spike (8G27003-MS1) Prepared: 07/27/2008 10:19 Analyzed: 07/28/2008 08:29

Source: C807495-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.1	B	0.10	mg/L	1.28	0.012	82	80-120			

Matrix Spike Dup (8G27003-MSD1) Prepared: 07/27/2008 10:19 Analyzed: 07/28/2008 08:30

Source: C807495-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.1	B	0.10	mg/L	1.28	0.012	83	80-120	1	25	

Batch 8G28006 - NO PREP

Blank (8G28006-BLK1) Prepared: 07/28/2008 17:41 Analyzed: 07/30/2008 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (8G28006-BS1) Prepared: 07/28/2008 17:41 Analyzed: 07/30/2008 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	310		10	mg/L	300		102	90-110			

Duplicate (8G28006-DUP1) Prepared: 07/28/2008 17:41 Analyzed: 07/30/2008 16:30

Source: C807265-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	2200		10	mg/L		2100			2	10	

Batch 8G28012 - NO PREP

Blank (8G28012-BLK1) Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8G28012-BS1) Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G28012 - NO PREP

LCS (8G28012-BS1) Continued Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	88		1.0	mg/L	80.0		110	82-119			

Duplicate (8G28012-DUP1) Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Source: C808138-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	21		1.0	mg/L		22			2	10	

Batch 8G28022 - % Solids

Duplicate (8G28022-DUP1) Prepared: 07/28/2008 11:50 Analyzed: 07/28/2008 14:20

Source: C807713-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	91		0.1	% by Weight		93			1	10	

Batch 8G30007 - NO PREP

Blank (8G30007-BLK1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	2.7	U	15	mg/L							

LCS (8G30007-BS1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100		104	80-120			

Matrix Spike (8G30007-MS1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:49

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	170		15	mg/L	100	68	98	80-120			

Matrix Spike Dup (8G30007-MSD1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:50

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	160		15	mg/L	100	68	95	80-120	2	25	

Batch 8G30008 - NO PREP

Blank (8G30008-BLK1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	1.4	J	5.0	mg/L							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G30008 - NO PREP

LCS (8G30008-BS1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	99	B	5.0	mg/L	100		99	80-120			

Matrix Spike (8G30008-MS1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:41

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140	B	5.0	mg/L	100	45	94	80-120			

Matrix Spike Dup (8G30008-MSD1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:41

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140	B	5.0	mg/L	100	45	97	80-120	2	25	

Batch 8G31030 - NO PREP

Blank (8G31030-BLK1) Prepared: 07/31/2008 11:58 Analyzed: 07/31/2008 15:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	**0.02**	**J**	0.20	mg/L							
Sulfate as SO4	0.05	U	5.0	mg/L							

LCS (8G31030-BS1) Prepared: 07/31/2008 11:58 Analyzed: 07/31/2008 16:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.95	B	0.20	mg/L	1.00		95	90-110			
Sulfate as SO4	47		5.0	mg/L	50.0		95	90-110			

Matrix Spike (8G31030-MS1) Prepared: 07/31/2008 11:58 Analyzed: 07/31/2008 23:41

Source: C807082-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.1	B	0.20	mg/L	1.00	0.11	99	90-110			
Sulfate as SO4	49		5.0	mg/L	50.0	1.6	94	90-110			

Matrix Spike Dup (8G31030-MSD1) Prepared: 07/31/2008 11:58 Analyzed: 08/01/2008 00:11

Source: C807082-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.1	B	0.20	mg/L	1.00	0.11	99	90-110	0.08	10	
Sulfate as SO4	48		5.0	mg/L	50.0	1.6	93	90-110	1	10	

Batch 8G31035 - Same

Blank (8G31035-BLK1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:35

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G31035 - Same

Blank (8G31035-BLK1) Continued Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8G31035-BS1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		98	80-120			

Matrix Spike (8G31035-MS1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:40

Source: C808020-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.4		0.10	mg/L	1.60	0.77	100	80-120			

Matrix Spike Dup (8G31035-MSD1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:42

Source: C808020-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.3		0.10	mg/L	1.60	0.77	97	80-120	2	25	

Batch 8G31037 - Same

Blank (8G31037-BLK1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 11:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	6.3	U	8.0	mg/kg wet							

LCS (8G31037-BS1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	120		8.0	mg/kg wet	126		96	80-120			

Matrix Spike (8G31037-MS1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 11:23

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	180		10	mg/kg dry	165	24	98	80-120			

Matrix Spike Dup (8G31037-MSD1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 11:24

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	200		10	mg/kg dry	164	24	106	80-120	7	25	

Batch 8H05022 - Same

Blank (8H05022-BLK1) Prepared: 08/05/2008 11:25 Analyzed: 08/05/2008 22:28

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8H05022 - Same

Blank (8H05022-BLK1) Continued Prepared: 08/05/2008 11:25 Analyzed: 08/05/2008 22:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	**0.78**	**J**	2.0	mg/kg dry wt. wet							
Chloride	5.0	U	50	mg/kg dry wt. wet							
Nitrate as N	1.0	U	10	mg/kg dry wt. wet							
Nitrite as N	0.14	U	1.0	mg/kg dry wt. wet							
Sulfate as SO4	**15**	**J**	50	mg/kg dry wt. wet							

LCS (8H05022-BS1) Prepared: 08/05/2008 11:25 Analyzed: 08/05/2008 22:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.96	B	0.20	mg/L	1.00		96	90-110			
Chloride	49		5.0	mg/L	50.0		97	90-110			
Nitrate as N	9.5		1.0	mg/L	10.0		95	90-110			
Nitrite as N	0.95		0.10	mg/L	1.00		95	90-110			
Sulfate as SO4	48	B	5.0	mg/L	50.0		96	90-110			

Matrix Spike (8H05022-MS1) Prepared: 08/05/2008 11:25 Analyzed: 08/05/2008 23:27

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.93	B	0.20	mg/L	1.00	0.050	88	90-110			QM-07
Chloride	50		5.0	mg/L	50.0	1.9	95	90-110			
Nitrate as N	120	E	1.0	mg/L	10.0	0.34	NR	90-110			QM-07
Nitrite as N	1.0		0.10	mg/L	1.00	0.014 U	101	90-110			
Sulfate as SO4	59	B	5.0	mg/L	50.0	12	95	90-110			

Matrix Spike Dup (8H05022-MSD1) Prepared: 08/05/2008 11:25 Analyzed: 08/05/2008 23:57

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.91	B	0.20	mg/L	1.00	0.050	86	90-110	1	10	QM-07
Chloride	49		5.0	mg/L	50.0	1.9	94	90-110	0.9	10	
Nitrate as N	120	E	1.0	mg/L	10.0	0.34	NR	90-110	2	10	QM-07
Nitrite as N	0.95		0.10	mg/L	1.00	0.014 U	95	90-110	6	10	
Sulfate as SO4	58	B	5.0	mg/L	50.0	12	93	90-110	2	10	

Batch 8H06006 - CE-81-1

Blank (8H06006-BLK1) Prepared: 08/05/2008 11:25 Analyzed: 08/06/2008 09:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	**170**		150	mg/kg wet							

LCS (8H06006-BS1) Prepared: 08/05/2008 11:25 Analyzed: 08/06/2008 09:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8H06006 - CE-81-1

LCS (8H06006-BS1) Continued Prepared: 08/05/2008 11:25 Analyzed: 08/06/2008 09:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	110	B	15	mg/L	100		111	80-120			

Matrix Spike (8H06006-MS1) Prepared: 08/05/2008 11:25 Analyzed: 08/06/2008 12:42

Source: C807924-03RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100	B	15	mg/L	100	8.4	95	80-120			

Matrix Spike Dup (8H06006-MSD1) Prepared: 08/05/2008 11:25 Analyzed: 08/06/2008 12:43

Source: C807924-03RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100	B	15	mg/L	100	8.4	95	80-120	0.05	25	

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8G30020 - EPA 7470A

Blank (8G30020-BLK1) Prepared: 07/31/2008 10:00 Analyzed: 07/31/2008 15:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

Blank (8G30020-BLK2) Prepared: 07/31/2008 10:00 Analyzed: 07/31/2008 15:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00054	U	0.00200	mg/L							

LCS (8G30020-BS1) Prepared: 07/31/2008 10:00 Analyzed: 07/31/2008 15:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00527		0.00020	mg/L	0.00500		105	85-115			

Matrix Spike (8G30020-MS1) Prepared: 07/31/2008 10:00 Analyzed: 07/31/2008 15:57

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0567		0.00200	mg/L	0.0500	0.00054 U	113	85-115			

Matrix Spike Dup (8G30020-MSD1) Prepared: 07/31/2008 10:00 Analyzed: 07/31/2008 15:59

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0586		0.00200	mg/L	0.0500	0.00054 U	117	85-115	3	25	QM-07

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

Blank (8H01014-BLK1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0220	U	0.200	mg/L							
Antimony	0.00310	U	0.0200	mg/L							
Arsenic	0.00240	U	0.0100	mg/L							
Barium	0.00043	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0095	U	0.0500	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0380**	**J**	0.500	mg/L							
Chromium	0.00043	U	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0008	U	0.0100	mg/L							
Molybdenum	0.0007	U	0.0100	mg/L							
Nickel	0.0008	U	0.0500	mg/L							
Potassium	0.0540	U	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	**1.62**		0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	**0.0032**	**J**	0.0200	mg/L							

Blank (8H01014-BLK2) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	0.0002	U	0.0010	mg/L							

Blank (8H01014-BLK3) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.110	U	1.00	mg/L							
Antimony	0.0155	U	0.100	mg/L							
Arsenic	0.0120	U	0.0500	mg/L							
Barium	**0.369**		0.0500	mg/L							
Beryllium	0.0008	U	0.0050	mg/L							
Boron	**0.319**		0.250	mg/L							
Cadmium	0.0009	U	0.0050	mg/L							
Calcium	**4.86**		2.50	mg/L							
Chromium	0.00215	U	0.0500	mg/L							
Cobalt	0.0012	U	0.0500	mg/L							
Copper	0.0060	U	0.0500	mg/L							
Iron	0.0240	U	0.250	mg/L							
Lead	0.0080	U	0.0500	mg/L							
Magnesium	**0.497**	**J**	2.50	mg/L							
Manganese	0.0038	U	0.0500	mg/L							

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

Blank (8H01014-BLK3) Continued Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Molybdenum	0.0034	U	0.0500	mg/L							
Nickel	**0.0082**	**J**	0.250	mg/L							
Potassium	**1.31**	**J**	2.50	mg/L							
Selenium	0.0185	U	0.0500	mg/L							
Silver	0.0020	U	0.0500	mg/L							
Sodium	**1470**		2.50	mg/L							
Thallium	0.0255	U	0.0500	mg/L							
Vanadium	0.0022	U	0.0500	mg/L							
Zinc	**0.0967**	**J**	0.100	mg/L							

LCS (8H01014-BS1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10.3		0.200	mg/L	10.0		103	84-119			
Antimony	0.523		0.0200	mg/L	0.500		105	87-111			
Arsenic	1.05		0.0100	mg/L	1.00		105	89-116			
Barium	1.06	B	0.0100	mg/L	1.00		106	89-113			
Beryllium	0.530		0.0010	mg/L	0.500		106	90-111			
Boron	1.05	B	0.0500	mg/L	1.00		105	89-116			
Cadmium	0.527		0.0010	mg/L	0.500		105	90-112			
Calcium	10.5	B	0.500	mg/L	10.0		105	84-118			
Chromium	1.06		0.0100	mg/L	1.00		106	89-114			
Cobalt	1.07		0.0100	mg/L	1.00		107	90-114			
Copper	0.539		0.0100	mg/L	0.500		108	90-112			
Iron	10.5		0.0500	mg/L	10.0		105	90-110			
Lead	1.06		0.0100	mg/L	1.00		106	90-113			
Magnesium	10.4	B	0.500	mg/L	10.0		104	90-111			
Manganese	0.534		0.0100	mg/L	0.500		107	90-112			
Molybdenum	0.509		0.0100	mg/L	0.500		102	89-110			
Nickel	1.08	B	0.0500	mg/L	1.00		108	88-116			
Potassium	52.2	B	0.500	mg/L	50.0		104	90-110			
Selenium	1.06		0.0100	mg/L	1.00		106	90-118			
Silver	0.0970		0.0100	mg/L	0.100		97	87-112			
Sodium	51.9	B	0.500	mg/L	50.0		104	90-113			
Thallium	0.521		0.0100	mg/L	0.500		104	90-112			
Vanadium	0.534		0.0100	mg/L	0.500		107	88-114			
Zinc	1.08	B	0.0200	mg/L	1.00		108	88-116			

Matrix Spike (8H01014-MS1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 20:03

Source: B805297-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	49.9		1.00	mg/L	50.0	0.192	99	84-119			
Antimony	2.68		0.100	mg/L	2.50	0.0155 U	107	87-111			
Arsenic	5.20		0.0500	mg/L	5.00	0.0221	103	89-116			
Barium	5.25	B	0.0500	mg/L	5.00	0.434	96	89-113			
Beryllium	2.57		0.0050	mg/L	2.50	0.0008 U	103	90-111			
Boron	5.50	B	0.250	mg/L	5.00	0.333	103	89-116			

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

Matrix Spike (8H01014-MS1) Continued Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 20:03

Source: B805297-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	2.45		0.0050	mg/L	2.50	0.0009 U	98	90-112			
Calcium	979	B	2.50	mg/L	50.0	981	NR	84-118			QM-02
Chromium	5.07		0.0500	mg/L	5.00	0.00450	101	89-114			
Cobalt	4.94		0.0500	mg/L	5.00	0.0012 U	99	90-114			
Copper	2.66		0.0500	mg/L	2.50	0.0136	106	90-112			
Iron	49.3		0.250	mg/L	50.0	0.0542	98	90-110			
Lead	5.06		0.0500	mg/L	5.00	0.0080 U	101	90-113			
Magnesium	62.6	B	2.50	mg/L	50.0	15.1	95	90-111			
Manganese	2.76		0.0500	mg/L	2.50	0.274	99	90-112			
Molybdenum	2.62		0.0500	mg/L	2.50	0.0169	104	89-110			
Nickel	5.00	B	0.250	mg/L	5.00	0.0102	100	88-116			
Potassium	264	B	2.50	mg/L	250	9.83	102	90-110			
Selenium	5.30		0.0500	mg/L	5.00	0.0231	106	90-118			
Silver	0.499		0.0500	mg/L	0.500	0.00527	99	87-112			
Sodium	1520	B	2.50	mg/L	250	1360	66	90-113			QM-02
Thallium	2.47		0.0500	mg/L	2.50	0.0255 U	99	90-112			
Vanadium	2.60		0.0500	mg/L	2.50	0.0022 U	104	88-114			
Zinc	5.61	B	0.100	mg/L	5.00	0.613	100	88-116			

Matrix Spike Dup (8H01014-MSD1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 20:10

Source: B805297-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	50.3		1.00	mg/L	50.0	0.192	100	84-119	0.9	25	
Antimony	2.64		0.100	mg/L	2.50	0.0155 U	106	87-111	2	25	
Arsenic	5.13		0.0500	mg/L	5.00	0.0221	102	89-116	1	25	
Barium	5.20	B	0.0500	mg/L	5.00	0.434	95	89-113	0.9	25	
Beryllium	2.51		0.0050	mg/L	2.50	0.0008 U	100	90-111	2	25	
Boron	5.42	B	0.250	mg/L	5.00	0.333	102	89-116	1	25	
Cadmium	2.43		0.0050	mg/L	2.50	0.0009 U	97	90-112	0.8	25	
Calcium	953	B	2.50	mg/L	50.0	981	NR	84-118	3	25	QM-02
Chromium	5.03		0.0500	mg/L	5.00	0.00450	100	89-114	1	25	
Cobalt	4.90		0.0500	mg/L	5.00	0.0012 U	98	90-114	0.9	25	
Copper	2.64		0.0500	mg/L	2.50	0.0136	105	90-112	1	25	
Iron	48.8		0.250	mg/L	50.0	0.0542	98	90-110	0.9	25	
Lead	4.98		0.0500	mg/L	5.00	0.0080 U	100	90-113	1	25	
Magnesium	63.1	B	2.50	mg/L	50.0	15.1	96	90-111	0.8	25	
Manganese	2.73		0.0500	mg/L	2.50	0.274	98	90-112	0.9	25	
Molybdenum	2.59		0.0500	mg/L	2.50	0.0169	103	89-110	1	25	
Nickel	4.96	B	0.250	mg/L	5.00	0.0102	99	88-116	0.9	25	
Potassium	261	B	2.50	mg/L	250	9.83	101	90-110	1	25	
Selenium	5.21		0.0500	mg/L	5.00	0.0231	104	90-118	2	25	
Silver	0.496		0.0500	mg/L	0.500	0.00527	98	87-112	0.7	25	
Sodium	1490	B	2.50	mg/L	250	1360	51	90-113	3	25	QM-02
Thallium	2.45		0.0500	mg/L	2.50	0.0255 U	98	90-112	0.8	25	
Vanadium	2.57		0.0500	mg/L	2.50	0.0022 U	103	88-114	1	25	
Zinc	5.55	B	0.100	mg/L	5.00	0.613	99	88-116	1	25	

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8G30019 - EPA 7470A

Blank (8G30019-BLK1) Prepared: 07/30/2008 15:39 Analyzed: 07/31/2008 15:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

Blank (8G30019-BLK2) Prepared: 07/30/2008 15:39 Analyzed: 07/31/2008 15:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

LCS (8G30019-BS1) Prepared: 07/30/2008 15:39 Analyzed: 07/31/2008 15:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00530		0.00020	mg/L	0.00500		106	85-115			

Matrix Spike (8G30019-MS1) Prepared: 07/30/2008 15:39 Analyzed: 07/31/2008 15:13

Source: B805182-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00615		0.00020	mg/L	0.00500	0.000054 U	123	85-115			QM-07

Matrix Spike Dup (8G30019-MSD1) Prepared: 07/30/2008 15:39 Analyzed: 07/31/2008 15:15

Source: B805182-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00593		0.00020	mg/L	0.00500	0.000054 U	119	85-115	4	25	QM-07

Batch 8H01014 - EPA 3010A

Blank (8H01014-BLK1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0220	U	0.200	mg/L							
Antimony	0.00310	U	0.0200	mg/L							
Arsenic	0.00240	U	0.0100	mg/L							
Barium	0.00043	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0095	U	0.0500	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0380**	**J**	0.500	mg/L							
Chromium	0.00043	U	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

Blank (8H01014-BLK1) Continued Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Manganese	0.0008	U	0.0100	mg/L							
Molybdenum	0.0007	U	0.0100	mg/L							
Nickel	**0.0005**	**J**	0.0500	mg/L							
Potassium	0.0540	U	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Sodium	**1.62**		0.500	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	**0.0032**	**J**	0.0200	mg/L							

Blank (8H01014-BLK2) Prepared: 08/01/2008 13:10 Analyzed: 08/05/2008 13:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**0.0295**	**J**	0.200	mg/L							
Antimony	0.00310	U	0.0200	mg/L							
Arsenic	0.00240	U	0.0100	mg/L							
Barium	**0.0233**		0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	**0.0853**		0.0500	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**1.14**		0.500	mg/L							
Chromium	**0.00134**	**J**	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	**0.119**	**J**	0.500	mg/L							
Manganese	0.0008	U	0.0100	mg/L							
Molybdenum	0.0007	U	0.0100	mg/L							
Nickel	**0.0010**	**J**	0.0500	mg/L							
Potassium	**0.105**	**J**	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Sodium	**14.9**		0.500	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	**0.0120**	**J**	0.0200	mg/L							

LCS (8H01014-BS1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10.3	B	0.200	mg/L	10.0		103	84-119			
Antimony	0.523		0.0200	mg/L	0.500		105	87-111			
Arsenic	1.05		0.0100	mg/L	1.00		105	89-116			
Barium	1.06	B	0.0100	mg/L	1.00		106	89-113			
Beryllium	0.530		0.0010	mg/L	0.500		106	90-111			
Boron	1.05	B	0.0500	mg/L	1.00		105	89-116			

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

LCS (8H01014-BS1) Continued Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	0.527		0.0010	mg/L	0.500		105	90-112			
Calcium	10.5	B	0.500	mg/L	10.0		105	84-118			
Chromium	1.06	B	0.0100	mg/L	1.00		106	89-114			
Cobalt	1.07		0.0100	mg/L	1.00		107	90-114			
Copper	0.539		0.0100	mg/L	0.500		108	90-112			
Iron	10.5		0.0500	mg/L	10.0		105	90-110			
Lead	1.06		0.0100	mg/L	1.00		106	90-113			
Magnesium	10.4	B	0.500	mg/L	10.0		104	90-111			
Manganese	0.534		0.0100	mg/L	0.500		107	90-112			
Molybdenum	0.509		0.0100	mg/L	0.500		102	89-110			
Nickel	1.08	B	0.0500	mg/L	1.00		108	88-116			
Potassium	52.2	B	0.500	mg/L	50.0		104	90-110			
Selenium	1.06		0.0100	mg/L	1.00		106	90-118			
Silver	0.0970		0.0100	mg/L	0.100		97	87-112			
Thallium	0.521		0.0100	mg/L	0.500		104	90-112			
Sodium	51.9	B	0.500	mg/L	50.0		104	90-113			
Vanadium	0.534		0.0100	mg/L	0.500		107	88-114			
Zinc	1.08	B	0.0200	mg/L	1.00		108	88-116			

Matrix Spike (8H01014-MS1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 20:03

Source: B805297-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	49.9	B	1.00	mg/L	50.0	0.192	99	84-119			
Antimony	2.68		0.100	mg/L	2.50	0.0155 U	107	87-111			
Arsenic	5.20		0.0500	mg/L	5.00	0.0221	103	89-116			
Barium	5.25	B	0.0500	mg/L	5.00	0.434	96	89-113			
Beryllium	2.57		0.0050	mg/L	2.50	0.0008 U	103	90-111			
Boron	5.50	B	0.250	mg/L	5.00	0.333	103	89-116			
Cadmium	2.45		0.0050	mg/L	2.50	0.0009 U	98	90-112			
Calcium	979	B	2.50	mg/L	50.0	981	NR	84-118			QM-02
Chromium	5.07	B	0.0500	mg/L	5.00	0.00450	101	89-114			
Cobalt	4.94		0.0500	mg/L	5.00	0.0012 U	99	90-114			
Copper	2.66		0.0500	mg/L	2.50	0.0136	106	90-112			
Iron	49.3		0.250	mg/L	50.0	0.0542	98	90-110			
Lead	5.06		0.0500	mg/L	5.00	0.0080 U	101	90-113			
Magnesium	62.6	B	2.50	mg/L	50.0	15.1	95	90-111			
Manganese	2.76		0.0500	mg/L	2.50	0.274	99	90-112			
Molybdenum	2.62		0.0500	mg/L	2.50	0.0169	104	89-110			
Nickel	5.00	B	0.250	mg/L	5.00	0.0102	100	88-116			
Potassium	264	B	2.50	mg/L	250	9.83	102	90-110			
Selenium	5.30		0.0500	mg/L	5.00	0.0231	106	90-118			
Silver	0.499		0.0500	mg/L	0.500	0.00527	99	87-112			
Thallium	2.47		0.0500	mg/L	2.50	0.0255 U	99	90-112			
Sodium	1520	B	2.50	mg/L	250	1360	66	90-113			QM-02
Vanadium	2.60		0.0500	mg/L	2.50	0.0022 U	104	88-114			
Zinc	5.61	B	0.100	mg/L	5.00	0.613	100	88-116			

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

Matrix Spike Dup (8H01014-MSD1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 20:10

Source: B805297-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	50.3	B	1.00	mg/L	50.0	0.192	100	84-119	0.9	25	
Antimony	2.64		0.100	mg/L	2.50	0.0155 U	106	87-111	2	25	
Arsenic	5.13		0.0500	mg/L	5.00	0.0221	102	89-116	1	25	
Barium	5.20	B	0.0500	mg/L	5.00	0.434	95	89-113	0.9	25	
Beryllium	2.51		0.0050	mg/L	2.50	0.0008 U	100	90-111	2	25	
Boron	5.42	B	0.250	mg/L	5.00	0.333	102	89-116	1	25	
Cadmium	2.43		0.0050	mg/L	2.50	0.0009 U	97	90-112	0.8	25	
Calcium	953	B	2.50	mg/L	50.0	981	NR	84-118	3	25	QM-02
Chromium	5.03	B	0.0500	mg/L	5.00	0.00450	100	89-114	1	25	
Cobalt	4.90		0.0500	mg/L	5.00	0.0012 U	98	90-114	0.9	25	
Copper	2.64		0.0500	mg/L	2.50	0.0136	105	90-112	1	25	
Iron	48.8		0.250	mg/L	50.0	0.0542	98	90-110	0.9	25	
Lead	4.98		0.0500	mg/L	5.00	0.0080 U	100	90-113	1	25	
Magnesium	63.1	B	2.50	mg/L	50.0	15.1	96	90-111	0.8	25	
Manganese	2.73		0.0500	mg/L	2.50	0.274	98	90-112	0.9	25	
Molybdenum	2.59		0.0500	mg/L	2.50	0.0169	103	89-110	1	25	
Nickel	4.96	B	0.250	mg/L	5.00	0.0102	99	88-116	0.9	25	
Potassium	261	B	2.50	mg/L	250	9.83	101	90-110	1	25	
Selenium	5.21		0.0500	mg/L	5.00	0.0231	104	90-118	2	25	
Silver	0.496		0.0500	mg/L	0.500	0.00527	98	87-112	0.7	25	
Thallium	2.45		0.0500	mg/L	2.50	0.0255 U	98	90-112	0.8	25	
Sodium	1490	B	2.50	mg/L	250	1360	51	90-113	3	25	QM-02
Vanadium	2.57		0.0500	mg/L	2.50	0.0022 U	103	88-114	1	25	
Zinc	5.55	B	0.100	mg/L	5.00	0.613	99	88-116	1	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the assocatiated method blank.
J-01a	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: Kimley-Horn and Associates - VA[KI009]	Project Number: [none]
Address: 505 Independence Pkway, Suite 200	Project Name/Desc: Fly Ash
City/ST/Zip: Chesapeake, VA 23320	PO # / Billing Info:
Tel: (757) 548-7354 / Fax: (757) 548-7654	Reporting Contact: Mike Iwashchenko
Sampler(s) Name, Affiliation (Print): M. IWASHCHENKO / KHA	Billing Contact: Mike Iwashchenko
Sampler(s) Signature: M. [signature]	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

\ Standard

___ Expedited

Due __/__/__

Lab Workorder: C807924

Preservation (Site Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	1312 SPLP EXT Metals, SO4	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, g, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn	Alkalinity 310.2	Alkalinity 310.2, Chloride SM4500-Cl-E, Fluoride 300, TDS 160.1	Co / TOC / RCRA ALL METALS	[illegible]	NOX 353.2, P	Sulfate 300, TSS 160.2	Sample Comments
	FS-6	7/23/08	12:3	G	GW	7			X			X			X	X	
	SW-10	7/23/08	2:20	G	GW	7			X			X			X	X	
					GW	7			X			X			X	X	
					GW	7			X			X			X	X	
					GW	7			X			X			X	X	
	MW-4D gpe	7/21/08	9:27	G	SO	3	X	X		X	X		X	X			9'-11' BGS
	MW-5D	↓	1:00	G	SO	3	X	X		X	X		X	X			8-9' BGS
	MW-5D	↓	1:07	G	SO	3	X	X		X	X		X	X			29-31' BGS
					SO	3	X	X		X	X		X	X			
					SO	3	X	X		X	X		X	X			
					SO	3	X	X		X	X		X	X			
					SO	3	X	X		X	X		X	X			
						23	<-- Total # of Containers										

Sample Kit Prepared By: JWL	Date/Time: 7/17	Relinquished By: [signature]	Date/Time: 7/23/08 3:30	Received By: [signature]	Date/Time: 7/24/08 10:45
Comments: offsite, upgradient wells SET MW-4 @ 25' (5'r x 20's)		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler Pr & Temp on Receipt: C-286 2.2°C C-2 2.4°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: 1-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, August 14, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Fly Ash
ENCO Workorder: C807924

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, July 24, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 46.

PROJECT NARRATIVE

Client: Kimley-Horn and Associates - VA[KI009]
Project: Fly Ash
ENCO Project ID: C807924

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling and processing will be discussed in the Remarks section below.

Remarks

Analysis: EPA 353.2 NOx
Affected Samples: 8G27003-BLK1, FS-6[C807924-01], SW-10[C807924-02]
Description: MB results above MDL but below MRL; associated samples flagged with J-01
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result are within a factor of 10 of the associated blank, the result should be considered to be an estimate.

Analysis: SM4500-Cl/E Chloride
Affected Samples: 8G30008-BLK1, FS-6[C807924-01RE1], SW-10[C807924-02RE1]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result is greater than ten times the concentration of the associated blank, the impact of this nonconformance is considered to be minimal.

Analysis: EPA 300.0 Fluoride
Affected Samples: 8G31030-BLK1, FS-6[C807924-01]
Narrative: The method blank contains analyte at a concentration above the MRL, but since it was not detected in the sample, the impact on data quality is negligible.

Analysis: EPA 300.0 Fluoride
Affected Samples: 8G31030-BLK1, 8G31031-BLK1, SW-10[C807924-02]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample result is greater than ten times the concentration of the associated blank, the impact of this nonconformance is considered to be minimal.

Analysis: EPA 9056 Chloride, Fluoride, Nitrate, Nitrite & Sulfate
Affected Samples: MW-4[C807924-03], MW-5D[C807924-04], MW-5D[C807924-05]
Description: Holding time expired in the laboratory (explanation required)
Narrative:Two of the three samples were received outside of the three day leaching period for the method prep. The third sample could not be prepared within the remaining hold time.
Explanation: Samples were received with less than 1/2 of the preparation hold time left of three days from sampling.

Analysis: EPA 9056 Fluoride
Affected Samples: 8H05022-BLK1, MW-5D[C807924-04]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. The analytes were not detected in the associated samples. The nonconformance affected only the method blank, and is considered to not have an impact on sample data quality.

Analysis: EPA 9056 Fluoride
Affected Samples: 8H05022-BLK1, MW-4[C807924-03], MW-5D[C807924-05]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample results are within a factor of 10 of the associated blank, the result should be considered to be an estimate.
Explanation: MB results above MDL, but below MRL; associated samples flagged with J-01

Analysis: EPA 9056 Fluoride
Affected Samples: 8H05022-MS1, 8H05022-MSD1, MW-4[C807924-03], MW-5D[C807924-04], MW-5D[C807924-05]
Narrative: The matrix spike and/or matrix spike duplicate had recoveries that were outside acceptance limits, but by virtue of a laboratory control sample being in control, the laboratory has demonstrated to be in control of its internal process.

Analysis: EPA 9056 Sulfate
Affected Samples: 8H05022-BLK1, MW-4[C807924-03], MW-5D[C807924-04], MW-5D[C807924-05]
Narrative: The method blank associated to the flagged samples showed a positive result above the MDL, but below the reporting limit. Since the magnitude of the sample results are within a factor of 10 of the associated blank, the result should be considered to be an estimate.
Explanation: MB results above MDL, but below MRL; associated samples flagged with J-01

Analysis: EPA 9056 Nitrate
Affected Samples: 8H05022-MS1, 8H05022-MSD1, MW-4[C807924-03], MW-5D[C807924-04], MW-5D[C807924-05]
Narrative: The matrix spike and/or matrix spike duplicate had recoveries that were outside acceptance limits, but by virtue of a laboratory control sample being in control, the laboratory has demonstrated to be in control of its internal process.
Explanation: The source sample was spiked at ten times the intended concentration of 10mg/L. Results are outside of calibration range and recoveries should be considered estimates at 122% and 120%.

Analysis: EPA 310.2 Alkalinity
Affected Samples: 8H06006-BLK1, MW-4[C807924-03RE1]
Narrative: The associated method blank had a positive result, and may affect the quality of the result presented. There was no additional sample available for repeat testing.
Explanation: MB has positive results, there is no additional leachate to re-test. Result should be considered estimated. Result is below the BLK1 result.

Analysis: EPA 310.2 Alkalinity
Affected Samples: 8H06006-BLK1, MW-5D[C807924-04], MW-5D[C807924-05]
Nonconformance:
Additional Information: [NOTE TO PM's: add additional information as appropriate from NCM on right using copy/paste or enter NONE]

Analysis: EPA 310.2 Alkalinity
Affected Samples: 8H06006-BLK1, MW-4[C807924-03], MW-4[C807924-03RE1], MW-5D[C807924-04], MW-5D[C807924-05]
Description: Holding time expired in the laboratory (explanation required)
Narrative:Two of the three samples were received outside of the three day leaching period for the method prep. The third sample could not be prepared within the remaining hold time.
Explanation: Samples were received with less than 1/2 of the preparation hold time left of three days from sampling.

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: FS-6 | Lab ID: C807924-01 | Sampled: 07/23/08 12:30 | Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/30/08	07/28/08	17:41	7/30/2008 16:30
EPA 160.2	07/30/08	07/28/08	09:30	7/31/2008 10:00
EPA 300.0	08/20/08	07/31/08	11:58	8/1/2008 10:04
EPA 310.2	08/06/08	07/30/08	08:41	7/30/2008 11:54
EPA 353.2	08/20/08	07/27/08	10:19	7/27/2008 15:07
EPA 365.4	08/20/08	08/01/08	11:50	8/3/2008 11:09
EPA 6010B	01/19/09	07/25/08	07:10	7/30/2008 11:52
EPA 7470A	08/20/08	07/28/08	06:40	7/28/2008 18:15

Client ID: FS-6 | Lab ID: C807924-01RE1 | Sampled: 07/23/08 12:30 | Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
SM4500-Cl/E	08/20/08	07/30/08	08:43	7/30/2008 13:09

Client ID: SW-10 | Lab ID: C807924-02 | Sampled: 07/23/08 14:20 | Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/30/08	07/28/08	17:41	7/30/2008 16:30
EPA 160.2	07/30/08	07/28/08	09:30	7/31/2008 10:00
EPA 300.0	08/20/08	07/31/08	11:58	8/1/2008 10:34
EPA 310.2	08/06/08	07/30/08	08:41	7/30/2008 11:56
EPA 353.2	08/20/08	07/27/08	10:19	7/27/2008 15:08
EPA 365.4	08/20/08	08/01/08	11:50	8/3/2008 11:12
EPA 6010B	01/19/09	07/25/08	07:10	7/30/2008 11:59
EPA 7470A	08/20/08	07/28/08	06:40	7/28/2008 18:20

Client ID: SW-10 | Lab ID: C807924-02RE1 | Sampled: 07/23/08 14:20 | Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
SM4500-Cl/E	08/20/08	07/30/08	08:43	7/30/2008 13:09

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Client ID: MW-4	Lab ID: C807924-03			Sampled: 07/21/08 09:27		Received: 07/24/08 10:45
Parameter	**Hold Date/Time(s)**			**Prep Date/Time(s)**		**Analysis Date/Time(s)**
% Solids	01/17/09			07/28/08	11:50	7/28/2008 14:20
EPA 365.4	08/18/08			08/01/08	11:50	8/3/2008 11:22
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 16:33
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:36
EPA 6010B	01/17/09	01/28/09		08/01/08	13:10	8/4/2008 20:36
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:42
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 16:33
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:36
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:42
EPA 7470A	08/18/08			07/30/08	15:42	7/31/2008 15:37
EPA 7470A	08/18/08			07/31/08	10:00	7/31/2008 16:06
EPA 7471A	08/18/08			07/31/08	07:23	7/31/2008 11:20
EPA 9056	07/24/08	08/07/08	11:25	08/05/08	11:25	8/6/2008 00:27
EPA 9056	07/24/08	09/02/08		08/05/08	11:25	8/6/2008 00:27

Client ID: MW-4	Lab ID: C807924-03RE1		Sampled: 07/21/08 09:27		Received: 07/24/08 10:45
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 310.2	08/04/08		08/05/08	11:25	8/6/2008 12:41

Client ID: MW-5D 8-9	Lab ID: C807924-04			Sampled: 07/21/08 13:00		Received: 07/24/08 10:45
Parameter	**Hold Date/Time(s)**			**Prep Date/Time(s)**		**Analysis Date/Time(s)**
% Solids	01/17/09			07/28/08	11:50	7/28/2008 14:20
EPA 310.2	08/04/08			08/05/08	11:25	8/6/2008 09:43
EPA 365.4	08/18/08			08/01/08	11:50	8/3/2008 11:26
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 17:46
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:50
EPA 6010B	01/17/09	01/28/09		08/01/08	13:10	8/4/2008 20:50
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:56
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 17:46
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:50
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 20:56
EPA 7470A	08/18/08			07/30/08	15:42	7/31/2008 15:39
EPA 7470A	08/18/08			07/31/08	10:00	7/31/2008 16:07
EPA 7471A	08/18/08			07/31/08	07:23	7/31/2008 12:03
EPA 9056	07/24/08	08/07/08	11:25	08/05/08	11:25	8/6/2008 00:56
EPA 9056	07/24/08	09/02/08		08/05/08	11:25	8/6/2008 00:56

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Client ID: MW-5D 29'-31'	Lab ID: C807924-05	Sampled: 07/21/08 13:07	Received: 07/24/08 10:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
% Solids	01/17/09			07/28/08	11:50	7/28/2008 14:20
EPA 310.2	08/04/08			08/05/08	11:25	8/6/2008 09:43
EPA 365.4	08/18/08			08/01/08	11:50	8/3/2008 11:28
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 17:53
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 21:03
EPA 6010B	01/17/09	01/28/09		08/01/08	13:10	8/4/2008 21:03
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 21:10
EPA 6010B	01/17/09			07/29/08	07:03	7/31/2008 17:53
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 21:03
EPA 6010B	01/17/09			08/01/08	13:10	8/4/2008 21:10
EPA 7470A	08/18/08			07/30/08	15:42	7/31/2008 15:41
EPA 7470A	08/18/08			07/31/08	10:00	7/31/2008 16:09
EPA 7471A	08/18/08			07/31/08	07:23	7/31/2008 12:06
EPA 9056	07/24/08	08/07/08	11:25	08/05/08	11:25	8/6/2008 01:26
EPA 9056	07/24/08	09/02/08		08/05/08	11:25	8/6/2008 01:26

SAMPLE DETECTION SUMMARY

Client ID: FS-6 Lab ID: C807924-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	595	B	100	ug/L	EPA 6010B	
Barium	68.5		10.0	ug/L	EPA 6010B	
Boron	33.7	J	50.0	ug/L	EPA 6010B	
Calcium	19000		100	ug/L	EPA 6010B	
Cobalt	9.5	J	10.0	ug/L	EPA 6010B	
Copper	106		10.0	ug/L	EPA 6010B	
Iron	2950		50	ug/L	EPA 6010B	
Lead	22.0		10.0	ug/L	EPA 6010B	
Magnesium	3560		100	ug/L	EPA 6010B	
Manganese	112		10.0	ug/L	EPA 6010B	
Nickel	9.1	J	10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.025	JB	0.10	mg/L	EPA 353.2	J-01a
Potassium	2280		500	ug/L	EPA 6010B	
Sodium	55300		500	ug/L	EPA 6010B	
Sulfate as SO4	56		5.0	mg/L	EPA 300.0	
Total Dissolved Solids	270		10	mg/L	EPA 160.1	
Total Suspended Solids	1.7		1.0	mg/L	EPA 160.2	
Zinc	55.2		10.0	ug/L	EPA 6010B	

Client ID: FS-6 Lab ID: C807924-01RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Chloride	89	B	5.0	mg/L	SM4500-Cl/E	QB-01

Client ID: SW-10 Lab ID: C807924-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	634	B	100	ug/L	EPA 6010B	
Antimony	2.1	J	10.0	ug/L	EPA 6010B	
Barium	38.4		10.0	ug/L	EPA 6010B	
Beryllium	0.10	J	1.00	ug/L	EPA 6010B	
Boron	36.1	J	50.0	ug/L	EPA 6010B	
Calcium	20200		100	ug/L	EPA 6010B	
Cobalt	7.7	J	10.0	ug/L	EPA 6010B	
Fluoride	0.21	B	0.20	mg/L	EPA 300.0	QB-01
Iron	422		50	ug/L	EPA 6010B	
Magnesium	8170		100	ug/L	EPA 6010B	
Manganese	407		10.0	ug/L	EPA 6010B	
Nickel	13.8		10.0	ug/L	EPA 6010B	
Nitrate/Nitrite as N	0.10	B	0.10	mg/L	EPA 353.2	J-01a
Potassium	2350		500	ug/L	EPA 6010B	
Sodium	14600		500	ug/L	EPA 6010B	
Sulfate as SO4	93		5.0	mg/L	EPA 300.0	
Total Dissolved Solids	190		10	mg/L	EPA 160.1	
Total Suspended Solids	7.6		1.0	mg/L	EPA 160.2	
Zinc	33.8		10.0	ug/L	EPA 6010B	

Client ID: SW-10 Lab ID: C807924-02RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Chloride	22	B	5.0	mg/L	SM4500-Cl/E	QB-01

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Client ID: MW-4 Lab ID: C807924-03

Analyte	Results	Flag	MRL	Units	Method	Notes
% Solids	77		0.1	% by Weight	% Solids	
Aluminum	0.798	B	0.200	mg/L	EPA 6010B	QB-01
Aluminum	0.396	J	1.00	mg/L	EPA 6010B	
Aluminum	543	B	6.5	mg/kg dry	EPA 6010B	
Arsenic	0.26	JB	0.65	mg/kg dry	EPA 6010B	
Barium	0.0208	B	0.0100	mg/L	EPA 6010B	J-01
Barium	0.378	B	0.0500	mg/L	EPA 6010B	J-01
Barium	3.37		0.653	mg/kg dry	EPA 6010B	
Boron	0.423	B	0.250	mg/L	EPA 6010B	J-01
Boron	0.53	JB	3.27	mg/kg dry	EPA 6010B	
Boron	0.101	B	0.0500	mg/L	EPA 6010B	J-01
Calcium	6.25	B	2.50	mg/L	EPA 6010B	J-01
Calcium	68.0		32.7	mg/kg dry	EPA 6010B	
Calcium	0.878	B	0.500	mg/L	EPA 6010B	J-01
Chloride	25	J	65	mg/kg dry	EPA 9056	Q
Chromium	0.00248	JB	0.0100	wt. dry mg/L	EPA 6010B	J-01
Chromium	0.00605	J	0.0500	mg/L	EPA 6010B	
Chromium	2.20		0.65	mg/kg dry	EPA 6010B	
Cobalt	0.0316	J	0.0500	mg/L	EPA 6010B	
Cobalt	1.49		0.65	mg/kg dry	EPA 6010B	
Cobalt	0.0097	J	0.0100	mg/L	EPA 6010B	
Fluoride	0.65	JB	2.6	mg/kg dry	EPA 9056	J-01a, Q
Iron	0.261		0.0500	wt. dry mg/L	EPA 6010B	
Iron	0.346		0.250	mg/L	EPA 6010B	
Iron	566		3.3	mg/kg dry	EPA 6010B	
Lead	0.0107	J	0.0500	mg/L	EPA 6010B	
Lead	0.47	J	0.65	mg/kg dry	EPA 6010B	
Magnesium	0.623	B	0.500	mg/L	EPA 6010B	J-01
Magnesium	1.25	JB	2.50	mg/L	EPA 6010B	J-01
Magnesium	98.2		6.5	mg/kg dry	EPA 6010B	
Manganese	3.94		0.653	mg/kg dry	EPA 6010B	
Manganese	0.0217	J	0.0500	mg/L	EPA 6010B	
Manganese	0.0064	J	0.0100	mg/L	EPA 6010B	
Nickel	3.32		0.65	mg/kg dry	EPA 6010B	
Nickel	0.0611	JB	0.250	mg/L	EPA 6010B	J-01
Nickel	0.0254	JB	0.0500	mg/L	EPA 6010B	QB-01
Nitrate as N	4.4	J	13	mg/kg dry	EPA 9056	Q
Phosphorus	24		10	wt. dry mg/kg dry	EPA 365.4	
Potassium	57.6	B	32.7	mg/kg dry	EPA 6010B	
Potassium	1.46	JB	2.50	mg/L	EPA 6010B	J-01
Potassium	0.226	JB	0.500	mg/L	EPA 6010B	J-01
Silver	0.0007	J	0.0100	mg/L	EPA 6010B	
Silver	0.0022	J	0.0500	mg/L	EPA 6010B	
Sodium	1310	B	2.50	mg/L	EPA 6010B	J-01
Sodium	4.11	B	0.500	mg/L	EPA 6010B	J-01
Sodium	31	JB	33	mg/kg dry	EPA 6010B	
Sulfate as SO4	150	B	65	mg/kg dry	EPA 9056	J-01a, Q
Vanadium	0.0017	J	0.0100	wt. dry mg/L	EPA 6010B	
Vanadium	1.99	B	0.653	mg/kg dry	EPA 6010B	

Client ID: MW-4 Lab ID: C807924-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Zinc	0.166	B	0.100	mg/L	EPA 6010B	J-01
Zinc	3.75		0.653	mg/kg dry	EPA 6010B	
Zinc	0.0139	JB	0.0200	mg/L	EPA 6010B	J-01

Client ID: MW-4 Lab ID: C807924-03RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Total Alkalinity	110	JB	200	mg/kg dry	EPA 310.2	J-01a, Q

Client ID: MW-5D 8' 9' Lab ID: C807924-04

Analyte	Results	Flag	MRL	Units	Method	Notes
% Solids	78		0.1	% by Weight	% Solids	
Aluminum	1.09		1.00	mg/L	EPA 6010B	
Aluminum	8570	B	6.4	mg/kg dry	EPA 6010B	
Aluminum	4.31	B	0.200	mg/L	EPA 6010B	QB-01
Antimony	0.62	JB	0.64	mg/kg dry	EPA 6010B	
Arsenic	0.00306	J	0.0100	mg/L	EPA 6010B	
Arsenic	3.87	B	0.64	mg/kg dry	EPA 6010B	
Barium	0.0516	B	0.0100	mg/L	EPA 6010B	J-01
Barium	39.3		0.640	mg/kg dry	EPA 6010B	
Barium	0.813	B	0.0500	mg/L	EPA 6010B	J-01
Beryllium	0.110		0.064	mg/kg dry	EPA 6010B	
Boron	2.57	JB	3.20	mg/kg dry	EPA 6010B	
Boron	0.111	B	0.0500	mg/L	EPA 6010B	J-01
Boron	0.490	B	0.250	mg/L	EPA 6010B	J-01
Cadmium	0.0012	J	0.0050	mg/L	EPA 6010B	
Calcium	64.2		32.0	mg/kg dry	EPA 6010B	
Calcium	9.12	B	2.50	mg/L	EPA 6010B	J-01
Calcium	1.60	B	0.500	mg/L	EPA 6010B	J-01
Chloride	22	J	64	mg/kg dry wt. dry	EPA 9056	Q
Chromium	22.3		0.64	mg/kg dry	EPA 6010B	
Chromium	0.00808	JB	0.0100	mg/L	EPA 6010B	J-01
Chromium	0.00526	J	0.0500	mg/L	EPA 6010B	
Cobalt	7.17		0.64	mg/kg dry	EPA 6010B	
Cobalt	0.0472	J	0.0500	mg/L	EPA 6010B	
Cobalt	0.0011	J	0.0100	mg/L	EPA 6010B	
Copper	0.0198	J	0.0500	mg/L	EPA 6010B	
Copper	10.9		0.640	mg/kg dry	EPA 6010B	
Iron	9380		3.2	mg/kg dry	EPA 6010B	
Iron	2.19		0.0500	mg/L	EPA 6010B	
Iron	0.110	J	0.250	mg/L	EPA 6010B	
Lead	0.0021	J	0.0100	mg/L	EPA 6010B	
Lead	9.10		0.64	mg/kg dry	EPA 6010B	
Lead	0.0175	J	0.0500	mg/L	EPA 6010B	
Magnesium	0.979	B	0.500	mg/L	EPA 6010B	J-01
Magnesium	4.19	B	2.50	mg/L	EPA 6010B	J-01
Magnesium	944		6.4	mg/kg dry	EPA 6010B	
Manganese	31.2		0.640	mg/kg dry	EPA 6010B	
Manganese	0.0516		0.0500	mg/L	EPA 6010B	
Manganese	0.0034	J	0.0100	mg/L	EPA 6010B	
Mercury	0.008	J	0.01	mg/kg dry	EPA 7471A	
Nickel	0.0679	JB	0.250	mg/L	EPA 6010B	J-01

Client ID: MW-5D 8'-9' Lab ID: C807924-04

Analyte	Results	Flag	MRL	Units	Method	Notes
Nickel	0.0024	JB	0.0500	mg/L	EPA 6010B	J-01
Nickel	13.2		0.64	mg/kg dry	EPA 6010B	
Nitrate as N	4.3	J	13	mg/kg dry	EPA 9056	Q
Phosphorus	96		10	wt. dry mg/kg dry	EPA 365.4	
Potassium	0.714	B	0.500	mg/L	EPA 6010B	J-01
Potassium	851	B	32.0	mg/kg dry	EPA 6010B	
Potassium	1.90	JB	2.50	mg/L	EPA 6010B	J-01
Sodium	1300	B	2.50	mg/L	EPA 6010B	J-01
Sodium	101	B	32	mg/kg dry	EPA 6010B	
Sodium	21.4	B	0.500	mg/L	EPA 6010B	J-01
Sulfate as SO4	71	B	64	mg/kg dry	EPA 9056	J-01a, Q
Vanadium	28.4	B	0.640	wt. dry mg/kg dry	EPA 6010B	
Vanadium	0.0089	J	0.0100	mg/L	EPA 6010B	
Zinc	0.255	B	0.100	mg/L	EPA 6010B	J-01
Zinc	26.7		0.640	mg/kg dry	EPA 6010B	
Zinc	0.0123	JB	0.0200	mg/L	EPA 6010B	J-01

Client ID: MW-5D 29'-31' Lab ID: C807924-05

Analyte	Results	Flag	MRL	Units	Method	Notes
% Solids	81		0.1	% by Weight	% Solids	
Aluminum	0.800	B	0.200	mg/L	EPA 6010B	QB-01
Aluminum	0.153	J	1.00	mg/L	EPA 6010B	
Aluminum	459	B	6.2	mg/kg dry	EPA 6010B	
Antimony	0.37	JB	0.62	mg/kg dry	EPA 6010B	
Arsenic	0.73	B	0.62	mg/kg dry	EPA 6010B	
Barium	0.0352	B	0.0100	mg/L	EPA 6010B	J-01
Barium	0.336	B	0.0500	mg/L	EPA 6010B	J-01
Barium	2.52		0.615	mg/kg dry	EPA 6010B	
Boron	0.60	JB	3.08	mg/kg dry	EPA 6010B	
Boron	0.102	B	0.0500	mg/L	EPA 6010B	J-01
Boron	0.334	B	0.250	mg/L	EPA 6010B	J-01
Calcium	123		30.8	mg/kg dry	EPA 6010B	
Calcium	2.27	B	0.500	mg/L	EPA 6010B	J-01
Calcium	6.62	B	2.50	mg/L	EPA 6010B	J-01
Chloride	21	J	62	mg/kg dry	EPA 9056	Q
Chromium	0.00257	JB	0.0100	wt. dry mg/L	EPA 6010B	J-01
Chromium	1.63		0.62	mg/kg dry	EPA 6010B	
Cobalt	0.0055	J	0.0500	mg/L	EPA 6010B	
Cobalt	0.0004	J	0.0100	mg/L	EPA 6010B	
Cobalt	0.63		0.62	mg/kg dry	EPA 6010B	
Fluoride	0.49	JB	2.5	mg/kg dry	EPA 9056	J-01a, Q
Iron	1.82		0.250	wt. dry mg/L	EPA 6010B	
Iron	0.529		0.0500	mg/L	EPA 6010B	
Iron	974		3.1	mg/kg dry	EPA 6010B	
Lead	0.84		0.62	mg/kg dry	EPA 6010B	
Magnesium	1.13	JB	2.50	mg/L	EPA 6010B	J-01
Magnesium	99.4		6.2	mg/kg dry	EPA 6010B	
Magnesium	0.578	B	0.500	mg/L	EPA 6010B	J-01
Manganese	0.0564		0.0500	mg/L	EPA 6010B	

Client ID: MW-5D 29'-31' Lab ID: C807924-05

Analyte	Results	Flag	MRL	Units	Method	Notes
Manganese	0.0073	J	0.0100	mg/L	EPA 6010B	
Manganese	7.52		0.615	mg/kg dry	EPA 6010B	
Nickel	0.0120	JB	0.250	mg/L	EPA 6010B	J-01
Nickel	0.0019	JB	0.0500	mg/L	EPA 6010B	J-01
Nickel	1.17		0.62	mg/kg dry	EPA 6010B	
Nitrate as N	4.3	J	12	mg/kg dry wt. dry	EPA 9056	Q
Phosphorus	50		9.8	mg/kg dry	EPA 365.4	
Potassium	86.5	B	30.8	mg/kg dry	EPA 6010B	
Potassium	1.35	JB	2.50	mg/L	EPA 6010B	J-01
Potassium	0.257	JB	0.500	mg/L	EPA 6010B	J-01
Silver	0.0006	J	0.0100	mg/L	EPA 6010B	
Sodium	70	B	31	mg/kg dry	EPA 6010B	
Sodium	16.2	B	0.500	mg/L	EPA 6010B	J-01
Sodium	1320	B	2.50	mg/L	EPA 6010B	J-01
Sulfate as SO4	100	B	62	mg/kg dry wt. dry	EPA 9056	J-01a, Q
Vanadium	1.89	B	0.615	mg/kg dry	EPA 6010B	
Vanadium	0.0017	J	0.0100	mg/L	EPA 6010B	
Zinc	0.180	B	0.100	mg/L	EPA 6010B	J-01
Zinc	3.16		0.615	mg/kg dry	EPA 6010B	
Zinc	0.0165	JB	0.0200	mg/L	EPA 6010B	J-01

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ANALYTICAL RESULTS

Description: FS-6
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807924-01
Sampled: 07/23/08 12:30
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**595**	B	ug/L	1	17	100	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Barium [7440-39-3] ^	**68.5**		ug/L	1	1.00	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Boron [7440-42-8] ^	**33.7**	J	ug/L	1	5.0	50.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Calcium [7440-70-2] ^	**19000**		ug/L	1	20.0	100	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Cobalt [7440-48-4] ^	**9.5**	J	ug/L	1	1.1	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Copper [7440-50-8] ^	**106**		ug/L	1	1.60	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Iron [7439-89-6] ^	**2950**		ug/L	1	22	50	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Lead [7439-92-1] ^	**22.0**		ug/L	1	1.9	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Magnesium [7439-95-4] ^	**3560**		ug/L	1	23	100	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Manganese [7439-96-5] ^	**112**		ug/L	1	1.1	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G26002	EPA 7470A	07/28/08 18:15	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Nickel [7440-02-0] ^	**9.1**	J	ug/L	1	1.8	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Potassium [7440-09-7] ^	**2280**		ug/L	1	150	500	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Sodium [7440-23-5] ^	**55300**		ug/L	1	400	500	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	
Zinc [7440-66-6] ^	**55.2**		ug/L	1	3.8	10.0	8G25002	EPA 6010B	07/30/08 11:52	VLO	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**89**	B	mg/L	1	0.50	5.0	8G30008	SM4500-Cl/E	07/30/08 13:09	PEV	QB-01
Fluoride [16984-48-8]	0.01	U	mg/L	1	0.01	0.20	8G31030	EPA 300.0	08/01/08 10:04	AJ	
Nitrate/Nitrite as N [NA]	**0.025**	JB	mg/L	1	0.017	0.10	8G27003	EPA 353.2	07/27/08 15:07	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8G31035	EPA 365.4	08/03/08 11:09	PEV	
Sulfate as SO4 [14808-79-8]	**56**		mg/L	1	0.05	5.0	8G31030	EPA 300.0	08/01/08 10:04	AJ	
Total Alkalinity [NA]	2.7	U	mg/L	1	2.7	15	8G30007	EPA 310.2	07/30/08 11:54	aj	
Total Dissolved Solids [NA]	**270**		mg/L	1	10	10	8G28006	EPA 160.1	07/30/08 16:30	JOC	
Total Suspended Solids [NA]	**1.7**		mg/L	1	1.0	1.0	8G28012	EPA 160.2	07/31/08 10:00	FLT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: SW-10
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C807924-02
Sampled: 07/23/08 14:20
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**634**	B	ug/L	1	17	100	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Antimony [7440-36-0] ^	**2.1**	J	ug/L	1	1.0	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Barium [7440-39-3] ^	**38.4**		ug/L	1	1.00	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Beryllium [7440-41-7] ^	**0.10**	J	ug/L	1	0.10	1.00	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Boron [7440-42-8] ^	**36.1**	J	ug/L	1	5.0	50.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Calcium [7440-70-2] ^	**20200**		ug/L	1	20.0	100	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Cobalt [7440-48-4] ^	**7.7**	J	ug/L	1	1.1	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Iron [7439-89-6] ^	**422**		ug/L	1	22	50	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Magnesium [7439-95-4] ^	**8170**		ug/L	1	23	100	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Manganese [7439-96-5] ^	**407**		ug/L	1	1.1	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8G26002	EPA 7470A	07/28/08 18:20	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Nickel [7440-02-0] ^	**13.8**		ug/L	1	1.8	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Potassium [7440-09-7] ^	**2350**		ug/L	1	150	500	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Sodium [7440-23-5] ^	**14600**		ug/L	1	400	500	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	
Zinc [7440-66-6] ^	**33.8**		ug/L	1	3.8	10.0	8G25002	EPA 6010B	07/30/08 11:59	VLO	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**22**	B	mg/L	1	0.50	5.0	8G30008	SM4500-Cl/E	07/30/08 13:09	PEV	QB-01
Fluoride [16984-48-8]	**0.21**	B	mg/L	1	0.01	0.20	8G31030	EPA 300.0	08/01/08 10:34	AJ	QB-01
Nitrate/Nitrite as N [NA]	**0.10**	B	mg/L	1	0.017	0.10	8G27003	EPA 353.2	07/27/08 15:08	PEV	J-01a
Phosphorus [7723-14-0]	0.050	U	mg/L	1	0.050	0.10	8G31035	EPA 365.4	08/03/08 11:12	PEV	
Sulfate as SO4 [14808-79-8]	**93**		mg/L	1	0.05	5.0	8G31030	EPA 300.0	08/01/08 10:34	AJ	
Total Alkalinity [NA]	2.7	U	mg/L	1	2.7	15	8G30007	EPA 310.2	07/30/08 11:56	aj	
Total Dissolved Solids [NA]	**190**		mg/L	1	10	10	8G28006	EPA 160.1	07/30/08 16:30	JOC	
Total Suspended Solids [NA]	**7.6**		mg/L	1	1.0	1.0	8G28012	EPA 160.2	07/31/08 10:00	FLT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-4
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-03
Sampled: 07/21/08 09:27
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 76.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	543	B	mg/kg dry	1	2.7	6.5	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Antimony [7440-36-0] ^	0.14	U	mg/kg dry	1	0.14	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Arsenic [7440-38-2] ^	0.26	JB	mg/kg dry	1	0.08	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Barium [7440-39-3] ^	3.37		mg/kg dry	1	0.065	0.653	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Beryllium [7440-41-7] ^	0.016	U	mg/kg dry	1	0.016	0.065	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Boron [7440-42-8] ^	0.53	JB	mg/kg dry	1	0.33	3.27	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Cadmium [7440-43-9] ^	0.013	U	mg/kg dry	1	0.013	0.065	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Calcium [7440-70-2] ^	68.0		mg/kg dry	1	7.32	32.7	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Chromium [7440-47-3] ^	2.20		mg/kg dry	1	0.07	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Cobalt [7440-48-4] ^	1.49		mg/kg dry	1	0.07	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Copper [7440-50-8] ^	0.248	U	mg/kg dry	1	0.248	0.653	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Iron [7439-89-6] ^	566		mg/kg dry	1	0.6	3.3	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Lead [7439-92-1] ^	0.47	J	mg/kg dry	1	0.16	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Magnesium [7439-95-4] ^	98.2		mg/kg dry	1	0.8	6.5	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Manganese [7439-96-5] ^	3.94		mg/kg dry	1	0.064	0.653	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Mercury [7439-97-6] ^	0.007	U	mg/kg dry	1	0.007	0.01	8G29003	EPA 7471A	07/31/08 11:20	MPL	
Molybdenum [7439-98-7] ^	0.08	U	mg/kg dry	1	0.08	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Nickel [7440-02-0] ^	3.32		mg/kg dry	1	0.47	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Potassium [7440-09-7] ^	57.6	B	mg/kg dry	1	5.2	32.7	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Selenium [7782-49-2] ^	0.13	U	mg/kg dry	1	0.13	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Silver [7440-22-4] ^	0.07	U	mg/kg dry	1	0.07	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Sodium [7440-23-5] ^	31	JB	mg/kg dry	1	8	33	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Thallium [7440-28-0] ^	0.26	U	mg/kg dry	1	0.26	0.65	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Vanadium [7440-62-2] ^	1.99	B	mg/kg dry	1	0.065	0.653	8G29002	EPA 6010B	07/31/08 16:33	VLO	
Zinc [7440-66-6] ^	3.75		mg/kg dry	1	0.065	0.653	8G29002	EPA 6010B	07/31/08 16:33	VLO	

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Description: MW-4
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-03
Sampled: 07/21/08 09:27
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 76.5

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
% Solids [NA]	**77**		% by Weight	1	0.1	0.1	8G28022	% Solids	07/28/08 14:20	GPW	
Chloride [16887-00-6]	**25**	J	mg/kg dry wt. dry	1	6.5	65	8H05022	EPA 9056	08/06/08 00:27	AJ	Q
Fluoride [16984-48-8]	**0.65**	JB	mg/kg dry wt. dry	1	0.18	2.6	8H05022	EPA 9056	08/06/08 00:27	AJ	J-01a, Q
Nitrate as N [14797-55-8]	**4.4**	J	mg/kg dry wt. dry	1	1.3	13	8H05022	EPA 9056	08/06/08 00:27	AJ	Q
Nitrite as N [14797-65-0]	0.18	U	mg/kg dry wt. dry	1	0.18	1.3	8H05022	EPA 9056	08/06/08 00:27	AJ	Q
Phosphorus [7723-14-0]	**24**		mg/kg dry	1	8.2	10	8G31037	EPA 365.4	08/03/08 11:22	PEV	
Sulfate as SO4 [14808-79-8]	**150**	B	mg/kg dry wt. dry	1	6.5	65	8H05022	EPA 9056	08/06/08 00:27	AJ	J-01a, Q
Total Alkalinity [NA]	**110**	JB	mg/kg dry	1	61	200	8H06006	EPA 310.2	08/06/08 12:41	AJ	J-01a, Q

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**0.396**	J	mg/L	1	0.110	1.00	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Antimony [7440-36-0] ^	0.0155	U	mg/L	1	0.0155	0.100	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Arsenic [7440-38-2] ^	0.0120	U	mg/L	1	0.0120	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Barium [7440-39-3] ^	**0.378**	B	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Beryllium [7440-41-7] ^	0.0008	U	mg/L	1	0.0008	0.0050	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Boron [7440-42-8] ^	**0.423**	B	mg/L	1	0.0475	0.250	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Cadmium [7440-43-9] ^	0.0009	U	mg/L	1	0.0009	0.0050	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Calcium [7440-70-2] ^	**6.25**	B	mg/L	1	0.0650	2.50	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Chromium [7440-47-3] ^	**0.00605**	J	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Cobalt [7440-48-4] ^	**0.0316**	J	mg/L	1	0.0012	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Copper [7440-50-8] ^	0.0060	U	mg/L	1	0.0060	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Iron [7439-89-6] ^	**0.346**		mg/L	1	0.0240	0.250	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Lead [7439-92-1] ^	**0.0107**	J	mg/L	1	0.0080	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Magnesium [7439-95-4] ^	**1.25**	JB	mg/L	1	0.0750	2.50	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Manganese [7439-96-5] ^	**0.0217**	J	mg/L	1	0.0038	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Mercury [7439-97-6] ^	0.00054	U	mg/L	1	0.00054	0.00200	8G30020	EPA 7470A	07/31/08 16:06	GMB	
Molybdenum [7439-98-7] ^	0.0034	U	mg/L	1	0.0034	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Nickel [7440-02-0] ^	**0.0611**	JB	mg/L	1	0.0041	0.250	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Potassium [7440-09-7] ^	**1.46**	JB	mg/L	1	0.270	2.50	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Selenium [7782-49-2] ^	0.0185	U	mg/L	1	0.0185	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Silver [7440-22-4] ^	**0.0022**	J	mg/L	1	0.0020	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Sodium [7440-23-5] ^	**1310**	B	mg/L	1	0.190	2.50	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01
Thallium [7440-28-0] ^	0.0255	U	mg/L	1	0.0255	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Vanadium [7440-62-2] ^	0.0022	U	mg/L	1	0.0022	0.0500	8H01014	EPA 6010B	08/04/08 20:42	ACV	
Zinc [7440-66-6] ^	**0.166**	B	mg/L	1	0.0145	0.100	8H01014	EPA 6010B	08/04/08 20:42	ACV	J-01

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Description:	MW-4	**Lab Sample ID:**	C807924-03	**Received:**	07/24/08 10:45
Matrix:	Soil	**Sampled:**	07/21/08 09:27	**Work Order:**	C807924
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	76.5

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**0.798**	B	mg/L	1	0.0220	0.200	8H01014	EPA 6010B	08/04/08 20:36	ACV	QB-01
Antimony [7440-36-0] ^	0.00310	U	mg/L	1	0.00310	0.0200	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Arsenic [7440-38-2] ^	0.00240	U	mg/L	1	0.00240	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Barium [7440-39-3] ^	**0.0208**	B	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Boron [7440-42-8] ^	**0.101**	B	mg/L	1	0.0095	0.0500	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Calcium [7440-70-2] ^	**0.878**	B	mg/L	1	0.0130	0.500	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Chromium [7440-47-3] ^	**0.00248**	JB	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Cobalt [7440-48-4] ^	**0.0097**	J	mg/L	1	0.0002	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Iron [7439-89-6] ^	**0.261**		mg/L	1	0.0048	0.0500	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Magnesium [7439-95-4] ^	**0.623**	B	mg/L	1	0.0150	0.500	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Manganese [7439-96-5] ^	**0.0064**	J	mg/L	1	0.0008	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8G30019	EPA 7470A	07/31/08 15:37	AA	
Molybdenum [7439-98-7] ^	0.0007	U	mg/L	1	0.0007	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Nickel [7440-02-0] ^	**0.0254**	JB	mg/L	1	0.0004	0.0500	8H01014	EPA 6010B	08/04/08 20:36	ACV	QB-01
Potassium [7440-09-7] ^	**0.226**	JB	mg/L	1	0.0540	0.500	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Selenium [7782-49-2] ^	0.0037	U	mg/L	1	0.0037	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Silver [7440-22-4] ^	**0.0007**	J	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Sodium [7440-23-5] ^	**4.11**	B	mg/L	1	0.0380	0.500	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Vanadium [7440-62-2] ^	**0.0017**	J	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 20:36	ACV	
Zinc [7440-66-6] ^	**0.0139**	JB	mg/L	1	0.0029	0.0200	8H01014	EPA 6010B	08/04/08 20:36	ACV	J-01

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	MW-5D 8'-9'	**Lab Sample ID:**	C807924-04	**Received:**	07/24/08 10:45
Matrix:	Soil	**Sampled:**	07/21/08 13:00	**Work Order:**	C807924
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	78.1

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**8570**	B	mg/kg dry	1	2.7	6.4	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Antimony [7440-36-0] ^	**0.62**	JB	mg/kg dry	1	0.14	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Arsenic [7440-38-2] ^	**3.87**	B	mg/kg dry	1	0.08	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Barium [7440-39-3] ^	**39.3**		mg/kg dry	1	0.064	0.640	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Beryllium [7440-41-7] ^	**0.110**		mg/kg dry	1	0.015	0.064	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Boron [7440-42-8] ^	**2.57**	JB	mg/kg dry	1	0.32	3.20	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Cadmium [7440-43-9] ^	0.012	U	mg/kg dry	1	0.012	0.064	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Calcium [7440-70-2] ^	**64.2**		mg/kg dry	1	7.17	32.0	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Chromium [7440-47-3] ^	**22.3**		mg/kg dry	1	0.07	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Cobalt [7440-48-4] ^	**7.17**		mg/kg dry	1	0.06	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Copper [7440-50-8] ^	**10.9**		mg/kg dry	1	0.243	0.640	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Iron [7439-89-6] ^	**9380**		mg/kg dry	1	0.6	3.2	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Lead [7439-92-1] ^	**9.10**		mg/kg dry	1	0.15	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Magnesium [7439-95-4] ^	**944**		mg/kg dry	1	0.8	6.4	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Manganese [7439-96-5] ^	**31.2**		mg/kg dry	1	0.063	0.640	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Mercury [7439-97-6] ^	**0.008**	J	mg/kg dry	1	0.006	0.01	8G29003	EPA 7471A	07/31/08 12:03	MPL	
Molybdenum [7439-98-7] ^	0.08	U	mg/kg dry	1	0.08	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Nickel [7440-02-0] ^	**13.2**		mg/kg dry	1	0.46	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Potassium [7440-09-7] ^	**851**	B	mg/kg dry	1	5.1	32.0	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Selenium [7782-49-2] ^	0.13	U	mg/kg dry	1	0.13	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Silver [7440-22-4] ^	0.06	U	mg/kg dry	1	0.06	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Sodium [7440-23-5] ^	**101**	B	mg/kg dry	1	8	32	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Thallium [7440-28-0] ^	0.26	U	mg/kg dry	1	0.26	0.64	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Vanadium [7440-62-2] ^	**28.4**	B	mg/kg dry	1	0.064	0.640	8G29002	EPA 6010B	07/31/08 17:46	VLO	
Zinc [7440-66-6] ^	**26.7**		mg/kg dry	1	0.064	0.640	8G29002	EPA 6010B	07/31/08 17:46	VLO	

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Description: MW-5D 8'-9'
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-04
Sampled: 07/21/08 13:00
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 78.1

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
% Solids [NA]	**78**		% by Weight	1	0.1	0.1	8G28022	% Solids	07/28/08 14:20	GPW	
Chloride [16887-00-6]	**22**	J	mg/kg dry wt. dry	1	6.4	64	8H05022	EPA 9056	08/06/08 00:56	AJ	Q
Fluoride [16984-48-8]	0.18	U	mg/kg dry wt. dry	1	0.18	2.6	8H05022	EPA 9056	08/06/08 00:56	AJ	Q
Nitrate as N [14797-55-8]	**4.3**	J	mg/kg dry wt. dry	1	1.3	13	8H05022	EPA 9056	08/06/08 00:56	AJ	Q
Nitrite as N [14797-65-0]	0.18	U	mg/kg dry wt. dry	1	0.18	1.3	8H05022	EPA 9056	08/06/08 00:56	AJ	Q
Phosphorus [7723-14-0]	**96**		mg/kg dry	1	8.1	10	8G31037	EPA 365.4	08/03/08 11:26	PEV	
Sulfate as SO4 [14808-79-8]	**71**	B	mg/kg dry wt. dry	1	6.4	64	8H05022	EPA 9056	08/06/08 00:56	AJ	J-01a, Q
Total Alkalinity [NA]	60	U	mg/kg dry	1	60	190	8H06006	EPA 310.2	08/06/08 09:43	AJ	Q

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Description: MW-5D 8'-9'
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-04
Sampled: 07/21/08 13:00
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 78.1

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**1.09**		mg/L	1	0.110	1.00	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Antimony [7440-36-0] ^	0.0155	U	mg/L	1	0.0155	0.100	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Arsenic [7440-38-2] ^	0.0120	U	mg/L	1	0.0120	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Barium [7440-39-3] ^	**0.813**	B	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Beryllium [7440-41-7] ^	0.0008	U	mg/L	1	0.0008	0.0050	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Boron [7440-42-8] ^	**0.490**	B	mg/L	1	0.0475	0.250	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Cadmium [7440-43-9] ^	**0.0012**	J	mg/L	1	0.0009	0.0050	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Calcium [7440-70-2] ^	**9.12**	B	mg/L	1	0.0650	2.50	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Chromium [7440-47-3] ^	**0.00526**	J	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Cobalt [7440-48-4] ^	**0.0472**	J	mg/L	1	0.0012	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Copper [7440-50-8] ^	**0.0198**	J	mg/L	1	0.0060	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Iron [7439-89-6] ^	**0.110**	J	mg/L	1	0.0240	0.250	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Lead [7439-92-1] ^	**0.0175**	J	mg/L	1	0.0080	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Magnesium [7439-95-4] ^	**4.19**	B	mg/L	1	0.0750	2.50	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Manganese [7439-96-5] ^	**0.0516**		mg/L	1	0.0038	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Mercury [7439-97-6] ^	0.00054	U	mg/L	1	0.00054	0.00200	8G30020	EPA 7470A	07/31/08 16:07	GMB	
Molybdenum [7439-98-7] ^	0.0034	U	mg/L	1	0.0034	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Nickel [7440-02-0] ^	**0.0679**	JB	mg/L	1	0.0041	0.250	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Potassium [7440-09-7] ^	**1.90**	JB	mg/L	1	0.270	2.50	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Selenium [7782-49-2] ^	0.0185	U	mg/L	1	0.0185	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Silver [7440-22-4] ^	0.0020	U	mg/L	1	0.0020	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Sodium [7440-23-5] ^	**1300**	B	mg/L	1	0.190	2.50	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01
Thallium [7440-28-0] ^	0.0255	U	mg/L	1	0.0255	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Vanadium [7440-62-2] ^	0.0022	U	mg/L	1	0.0022	0.0500	8H01014	EPA 6010B	08/04/08 20:56	ACV	
Zinc [7440-66-6] ^	**0.255**	B	mg/L	1	0.0145	0.100	8H01014	EPA 6010B	08/04/08 20:56	ACV	J-01

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Description:	MW-5D 8'-9'	**Lab Sample ID:**	C807924-04	**Received:**	07/24/08 10:45
Matrix:	Soil	**Sampled:**	07/21/08 13:00	**Work Order:**	C807924
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	78.1

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum. [7429-90-5] ^	**4.31**	B	mg/L	1	0.0220	0.200	8H01014	EPA 6010B	08/04/08 20:50	ACV	QB-01
Antimony [7440-36-0] ^	0.00310	U	mg/L	1	0.00310	0.0200	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Arsenic [7440-38-2] ^	**0.00306**	J	mg/L	1	0.00240	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Barium [7440-39-3] ^	**0.0516**	B	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Boron [7440-42-8] ^	**0.111**	B	mg/L	1	0.0095	0.0500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Calcium [7440-70-2] ^	**1.60**	B	mg/L	1	0.0130	0.500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Chromium [7440-47-3] ^	**0.00808**	JB	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Cobalt [7440-48-4] ^	**0.0011**	J	mg/L	1	0.0002	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Iron [7439-89-6] ^	**2.19**		mg/L	1	0.0048	0.0500	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Lead [7439-92-1] ^	**0.0021**	J	mg/L	1	0.0016	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Magnesium [7439-95-4] ^	**0.979**	B	mg/L	1	0.0150	0.500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Manganese [7439-96-5] ^	**0.0034**	J	mg/L	1	0.0008	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8G30019	EPA 7470A	07/31/08 15:39	AA	
Molybdenum [7439-98-7] ^	0.0007	U	mg/L	1	0.0007	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Nickel [7440-02-0] ^	**0.0024**	JB	mg/L	1	0.0004	0.0500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Potassium [7440-09-7] ^	**0.714**	B	mg/L	1	0.0540	0.500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Selenium [7782-49-2] ^	0.0037	U	mg/L	1	0.0037	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Silver [7440-22-4] ^	0.0004	U	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Sodium [7440-23-5] ^	**21.4**	B	mg/L	1	0.0380	0.500	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Vanadium [7440-62-2] ^	**0.0089**	J	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 20:50	ACV	
Zinc [7440-66-6] ^	**0.0123**	JB	mg/L	1	0.0029	0.0200	8H01014	EPA 6010B	08/04/08 20:50	ACV	J-01

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	MW-5D 29'-31'	**Lab Sample ID:**	C807924-05	**Received:**	07/24/08 10:45
Matrix:	Soil	**Sampled:**	07/21/08 13:07	**Work Order:**	C807924
Project:	Fly Ash	**Sampled By:**	Mike Iwashchenko	**% Solids:**	81.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**459**	B	mg/kg dry	1	2.6	6.2	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Antimony [7440-36-0] ^	**0.37**	JB	mg/kg dry	1	0.14	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Arsenic [7440-38-2] ^	**0.73**	B	mg/kg dry	1	0.08	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Barium [7440-39-3] ^	**2.52**		mg/kg dry	1	0.062	0.615	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Beryllium [7440-41-7] ^	0.015	U	mg/kg dry	1	0.015	0.062	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Boron [7440-42-8] ^	**0.60**	JB	mg/kg dry	1	0.31	3.08	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Cadmium [7440-43-9] ^	0.012	U	mg/kg dry	1	0.012	0.062	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Calcium [7440-70-2] ^	**123**		mg/kg dry	1	6.89	30.8	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Chromium [7440-47-3] ^	**1.63**		mg/kg dry	1	0.07	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Cobalt [7440-48-4] ^	**0.63**		mg/kg dry	1	0.06	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Copper [7440-50-8] ^	0.234	U	mg/kg dry	1	0.234	0.615	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Iron [7439-89-6] ^	**974**		mg/kg dry	1	0.6	3.1	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Lead [7439-92-1] ^	**0.84**		mg/kg dry	1	0.15	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Magnesium [7439-95-4] ^	**99.4**		mg/kg dry	1	0.8	6.2	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Manganese [7439-96-5] ^	**7.52**		mg/kg dry	1	0.060	0.615	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Mercury [7439-97-6] ^	0.005	U	mg/kg dry	1	0.005	0.01	8G29003	EPA 7471A	07/31/08 12:06	MPL	
Molybdenum [7439-98-7] ^	0.08	U	mg/kg dry	1	0.08	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Nickel [7440-02-0] ^	**1.17**		mg/kg dry	1	0.44	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Potassium [7440-09-7] ^	**86.5**	B	mg/kg dry	1	4.9	30.8	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Selenium [7782-49-2] ^	0.12	U	mg/kg dry	1	0.12	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Silver [7440-22-4] ^	0.06	U	mg/kg dry	1	0.06	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Sodium [7440-23-5] ^	**70**	B	mg/kg dry	1	7	31	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Thallium [7440-28-0] ^	0.25	U	mg/kg dry	1	0.25	0.62	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Vanadium [7440-62-2] ^	**1.89**	B	mg/kg dry	1	0.062	0.615	8G29002	EPA 6010B	07/31/08 17:53	VLO	
Zinc [7440-66-6] ^	**3.16**		mg/kg dry	1	0.062	0.615	8G29002	EPA 6010B	07/31/08 17:53	VLO	

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Description: MW-5D 29'-31'
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-05
Sampled: 07/21/08 13:07
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 81.3

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
% Solids [NA]	**81**		% by Weight	1	0.1	0.1	8G28022	% Solids	07/28/08 14:20	GPW	
Chloride [16887-00-6]	**21**	J	mg/kg dry wt. dry	1	6.2	62	8H05022	EPA 9056	08/06/08 01:26	AJ	Q
Fluoride [16984-48-8]	**0.49**	JB	mg/kg dry wt. dry	1	0.17	2.5	8H05022	EPA 9056	08/06/08 01:26	AJ	J-01a, Q
Nitrate as N [14797-55-8]	**4.3**	J	mg/kg dry wt. dry	1	1.2	12	8H05022	EPA 9056	08/06/08 01:26	AJ	Q
Nitrite as N [14797-65-0]	0.17	U	mg/kg dry wt. dry	1	0.17	1.2	8H05022	EPA 9056	08/06/08 01:26	AJ	Q
Phosphorus [7723-14-0]	**50**		mg/kg dry	1	7.8	9.8	8G31037	EPA 365.4	08/03/08 11:28	PEV	
Sulfate as SO4 [14808-79-8]	**100**	B	mg/kg dry wt. dry	1	6.2	62	8H05022	EPA 9056	08/06/08 01:26	AJ	J-01a, Q
Total Alkalinity [NA]	58	U	mg/kg dry	1	58	180	8H06006	EPA 310.2	08/06/08 09:43	AJ	Q

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Description: MW-5D 29'-31'
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-05
Sampled: 07/21/08 13:07
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 81.3

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**0.153**	J	mg/L	1	0.110	1.00	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Antimony [7440-36-0] ^	0.0155	U	mg/L	1	0.0155	0.100	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Arsenic [7440-38-2] ^	0.0120	U	mg/L	1	0.0120	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Barium [7440-39-3] ^	**0.336**	B	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Beryllium [7440-41-7] ^	0.0008	U	mg/L	1	0.0008	0.0050	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Boron [7440-42-8] ^	**0.334**	B	mg/L	1	0.0475	0.250	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Cadmium [7440-43-9] ^	0.0009	U	mg/L	1	0.0009	0.0050	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Calcium [7440-70-2] ^	**6.62**	B	mg/L	1	0.0650	2.50	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Chromium [7440-47-3] ^	0.00215	U	mg/L	1	0.00215	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Cobalt [7440-48-4] ^	**0.0055**	J	mg/L	1	0.0012	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Copper [7440-50-8] ^	0.0060	U	mg/L	1	0.0060	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Iron [7439-89-6] ^	**1.82**		mg/L	1	0.0240	0.250	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Lead [7439-92-1] ^	0.0080	U	mg/L	1	0.0080	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Magnesium [7439-95-4] ^	**1.13**	JB	mg/L	1	0.0750	2.50	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Manganese [7439-96-5] ^	**0.0564**		mg/L	1	0.0038	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Mercury [7439-97-6] ^	0.00054	U	mg/L	1	0.00054	0.00200	8G30020	EPA 7470A	07/31/08 16:09	GMB	
Molybdenum [7439-98-7] ^	0.0034	U	mg/L	1	0.0034	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Nickel [7440-02-0] ^	**0.0120**	JB	mg/L	1	0.0041	0.250	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Potassium [7440-09-7] ^	**1.35**	JB	mg/L	1	0.270	2.50	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Selenium [7782-49-2] ^	0.0185	U	mg/L	1	0.0185	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Silver [7440-22-4] ^	0.0020	U	mg/L	1	0.0020	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Sodium [7440-23-5] ^	**1320**	B	mg/L	1	0.190	2.50	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01
Thallium [7440-28-0] ^	0.0255	U	mg/L	1	0.0255	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Vanadium [7440-62-2] ^	0.0022	U	mg/L	1	0.0022	0.0500	8H01014	EPA 6010B	08/04/08 21:10	ACV	
Zinc [7440-66-6] ^	**0.180**	B	mg/L	1	0.0145	0.100	8H01014	EPA 6010B	08/04/08 21:10	ACV	J-01

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Description: MW-5D 29'-31'
Matrix: Soil
Project: Fly Ash

Lab Sample ID: C807924-05
Sampled: 07/21/08 13:07
Sampled By: Mike Iwashchenko

Received: 07/24/08 10:45
Work Order: C807924
% Solids: 81.3

SPLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**0.800**	B	mg/L	1	0.0220	0.200	8H01014	EPA 6010B	08/04/08 21:03	ACV	QB-01
Antimony [7440-36-0] ^	0.00310	U	mg/L	1	0.00310	0.0200	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Arsenic [7440-38-2] ^	0.00240	U	mg/L	1	0.00240	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Barium [7440-39-3] ^	**0.0352**	B	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Beryllium [7440-41-7] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Boron [7440-42-8] ^	**0.102**	B	mg/L	1	0.0095	0.0500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Cadmium [7440-43-9] ^	0.0002	U	mg/L	1	0.0002	0.0010	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Calcium [7440-70-2] ^	**2.27**	B	mg/L	1	0.0130	0.500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Chromium [7440-47-3] ^	**0.00257**	JB	mg/L	1	0.00043	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Cobalt [7440-48-4] ^	**0.0004**	J	mg/L	1	0.0002	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Copper [7440-50-8] ^	0.0012	U	mg/L	1	0.0012	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Iron [7439-89-6] ^	**0.529**		mg/L	1	0.0048	0.0500	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Lead [7439-92-1] ^	0.0016	U	mg/L	1	0.0016	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Magnesium [7439-95-4] ^	**0.578**	B	mg/L	1	0.0150	0.500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Manganese [7439-96-5] ^	**0.0073**	J	mg/L	1	0.0008	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Mercury [7439-97-6] ^	0.000054	U	mg/L	1	0.000054	0.00020	8G30019	EPA 7470A	07/31/08 15:41	AA	
Molybdenum [7439-98-7] ^	0.0007	U	mg/L	1	0.0007	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Nickel [7440-02-0] ^	**0.0019**	JB	mg/L	1	0.0004	0.0500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Potassium [7440-09-7] ^	**0.257**	JB	mg/L	1	0.0540	0.500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Selenium [7782-49-2] ^	0.0037	U	mg/L	1	0.0037	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Silver [7440-22-4] ^	**0.0006**	J	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Sodium [7440-23-5] ^	**16.2**	B	mg/L	1	0.0380	0.500	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01
Thallium [7440-28-0] ^	0.0051	U	mg/L	1	0.0051	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Vanadium [7440-62-2] ^	**0.0017**	J	mg/L	1	0.0004	0.0100	8H01014	EPA 6010B	08/04/08 21:03	ACV	
Zinc [7440-66-6] ^	**0.0165**	JB	mg/L	1	0.0029	0.0200	8H01014	EPA 6010B	08/04/08 21:03	ACV	J-01

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G25002 - EPA 3005A

Blank (8G25002-BLK1) Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	39	J	100	ug/L							
Antimony	1.0	U	10.0	ug/L							
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.10	U	1.00	ug/L							
Boron	5.0	U	50.0	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Calcium	20.0	U	100	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22	U	50	ug/L							
Lead	1.9	U	10.0	ug/L							
Magnesium	23	U	100	ug/L							
Manganese	1.1	U	10.0	ug/L							
Molybdenum	2.5	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Potassium	150	U	500	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Sodium	400	U	500	ug/L							
Thallium	4.8	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8G25002-BS1) Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5040	B	100	ug/L	5000		101	77-130			
Antimony	256		10.0	ug/L	250		102	82-119			
Arsenic	519		10.0	ug/L	500		104	82-117			
Barium	521		10.0	ug/L	500		104	72-125			
Beryllium	264		1.00	ug/L	250		106	75-121			
Boron	524		50.0	ug/L	500		105	75-122			
Cadmium	264		1.00	ug/L	250		106	72-120			
Calcium	5120		100	ug/L	5000		102	81-111			
Chromium	513		10.0	ug/L	500		103	78-119			
Cobalt	505		10.0	ug/L	500		101	76-117			
Copper	255		10.0	ug/L	250		102	80-117			
Iron	5080		50	ug/L	5000		102	84-133			
Lead	509		10.0	ug/L	500		102	72-121			
Magnesium	5180		100	ug/L	5000		104	81-117			
Manganese	256		10.0	ug/L	250		102	76-123			
Molybdenum	243		10.0	ug/L	250		97	83-112			
Nickel	521		10.0	ug/L	500		104	78-116			
Potassium	23300		500	ug/L	25000		93	84-112			
Selenium	524		10.0	ug/L	500		105	82-127			
Silver	48.7		10.0	ug/L	50.0		97	80-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G25002 - EPA 3005A

LCS (8G25002-BS1) Continued Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	22900		500	ug/L	25000		91	81-120			
Thallium	258		10.0	ug/L	250		103	79-118			
Vanadium	249		10.0	ug/L	250		100	78-117			
Zinc	512		10.0	ug/L	500		102	80-120			

Matrix Spike (8G25002-MS1) Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:36

Source: C807495-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	6460	B	100	ug/L	5000	979	110	78-125			
Antimony	264		10.0	ug/L	250	1.0 U	106	38-138			
Arsenic	527		10.0	ug/L	500	2.8 U	105	64-126			
Barium	593		10.0	ug/L	500	58.8	107	74-119			
Beryllium	268		1.00	ug/L	250	0.10	107	70-131			
Boron	531		50.0	ug/L	500	5.0 U	106	77-114			
Cadmium	267		1.00	ug/L	250	0.36 U	107	68-121			
Calcium	5800		100	ug/L	5000	620	104	63-131			
Chromium	522		10.0	ug/L	500	1.3	104	73-120			
Cobalt	515		10.0	ug/L	500	1.1 U	103	76-120			
Copper	258		10.0	ug/L	250	1.60 U	103	75-123			
Iron	6300		50	ug/L	5000	1150	103	48-144			
Lead	514		10.0	ug/L	500	1.9 U	103	68-126			
Magnesium	6540		100	ug/L	5000	1340	104	59-129			
Manganese	287		10.0	ug/L	250	30.9	102	55-146			
Molybdenum	248		10.0	ug/L	250	2.5 U	99	72-118			
Nickel	530		10.0	ug/L	500	1.8 U	106	64-126			
Potassium	25900		500	ug/L	25000	1190	99	53-121			
Selenium	532		10.0	ug/L	500	2.7 U	106	65-129			
Silver	50.2		10.0	ug/L	50.0	1.9 U	100	69-121			
Sodium	24800		500	ug/L	25000	826	96	29-171			
Thallium	265		10.0	ug/L	250	4.8 U	106	67-135			
Vanadium	254		10.0	ug/L	250	2.3	101	71-130			
Zinc	526		10.0	ug/L	500	5.2	104	63-131			

Matrix Spike Dup (8G25002-MSD1) Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:43

Source: C807495-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	6560	B	100	ug/L	5000	979	112	78-125	2	22	
Antimony	265		10.0	ug/L	250	1.0 U	106	38-138	0.3	30	
Arsenic	529		10.0	ug/L	500	2.8 U	106	64-126	0.5	12	
Barium	596		10.0	ug/L	500	58.8	107	74-119	0.6	11	
Beryllium	270		1.00	ug/L	250	0.10	108	70-131	0.6	21	
Boron	535		50.0	ug/L	500	5.0 U	107	77-114	0.8	11	
Cadmium	270		1.00	ug/L	250	0.36 U	108	68-121	0.8	12	
Calcium	5840		100	ug/L	5000	620	104	63-131	0.8	22	
Chromium	526		10.0	ug/L	500	1.3	105	73-120	0.7	10	
Cobalt	516		10.0	ug/L	500	1.1 U	103	76-120	0.1	17	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G25002 - EPA 3005A

Matrix Spike Dup (8G25002-MSD1) Continued Prepared: 07/25/2008 07:10 Analyzed: 07/30/2008 11:43

Source: C807495-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	260		10.0	ug/L	250	1.60 U	104	75-123	0.7	16	
Iron	6400		50	ug/L	5000	1150	105	48-144	2	23	
Lead	516		10.0	ug/L	500	1.9 U	103	68-126	0.6	19	
Magnesium	6630		100	ug/L	5000	1340	106	59-129	1	22	
Manganese	291		10.0	ug/L	250	30.9	104	55-146	1	19	
Molybdenum	246		10.0	ug/L	250	2.5 U	99	72-118	0.7	12	
Nickel	533		10.0	ug/L	500	1.8 U	107	64-126	0.6	12	
Potassium	26400		500	ug/L	25000	1190	101	53-121	2	20	
Selenium	532		10.0	ug/L	500	2.7 U	106	65-129	0.1	10	
Silver	50.0		10.0	ug/L	50.0	1.9 U	100	69-121	0.4	12	
Sodium	25000		500	ug/L	25000	826	97	29-171	0.7	21	
Thallium	264		10.0	ug/L	250	4.8 U	106	67-135	0.5	13	
Vanadium	257		10.0	ug/L	250	2.3	102	71-130	0.8	16	
Zinc	528		10.0	ug/L	500	5.2	105	63-131	0.4	24	

Batch 8G26002 - EPA 7470A

Blank (8G26002-BLK1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 16:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8G26002-BS1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 16:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.65		0.20	ug/L	5.00		93	87-123			

Matrix Spike (8G26002-MS1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 17:02

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.55		0.20	ug/L	5.00	0.11 U	91	63-132			

Matrix Spike Dup (8G26002-MSD1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 17:05

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.66		0.20	ug/L	5.00	0.11 U	93	63-132	2	10	

Post Spike (8G26002-PS1) Prepared: 07/26/2008 08:09 Analyzed: 07/28/2008 17:08

Source: C807796-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.59		0.20	ug/L	5.00	-0.01	92	0-200			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G29002 - EPA 3050B

Blank (8G29002-BLK1) Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 15:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**4.2**	**J**	5.0	mg/kg wet							QB-01
Manganese	0.049	U	0.500	mg/kg wet							
Antimony	**0.16**	**J**	0.50	mg/kg wet							
Arsenic	**0.07**	**J**	0.50	mg/kg wet							
Barium	0.050	U	0.500	mg/kg wet							
Beryllium	0.012	U	0.050	mg/kg wet							
Boron	**0.51**	**J**	2.50	mg/kg wet							
Cadmium	0.010	U	0.050	mg/kg wet							
Calcium	5.60	U	25.0	mg/kg wet							
Chromium	0.05	U	0.50	mg/kg wet							
Cobalt	0.05	U	0.50	mg/kg wet							
Copper	0.190	U	0.500	mg/kg wet							
Iron	0.5	U	2.5	mg/kg wet							
Lead	0.12	U	0.50	mg/kg wet							
Magnesium	0.6	U	5.0	mg/kg wet							
Molybdenum	0.06	U	0.50	mg/kg wet							
Nickel	0.36	U	0.50	mg/kg wet							
Potassium	**16.4**	**J**	25.0	mg/kg wet							
Selenium	0.10	U	0.50	mg/kg wet							
Silver	0.05	U	0.50	mg/kg wet							
Sodium	**11**	**J**	25	mg/kg wet							
Thallium	**0.22**	**J**	0.50	mg/kg wet							
Vanadium	**0.050**	**J**	0.500	mg/kg wet							
Zinc	0.050	U	0.500	mg/kg wet							

LCS (8G29002-BS1) Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 16:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	229	B	5.0	mg/kg wet	245		93	80-120			
Manganese	11.1		0.500	mg/kg wet	12.3		90	85-115			
Antimony	11.7	B	0.50	mg/kg wet	12.3		96	85-116			
Arsenic	22.3	B	0.50	mg/kg wet	24.5		91	77-125			
Barium	25.0		0.500	mg/kg wet	24.5		102	76-124			
Beryllium	11.6		0.050	mg/kg wet	12.3		95	83-121			
Boron	23.1	B	2.50	mg/kg wet	24.5		94	85-115			
Cadmium	11.9		0.050	mg/kg wet	12.3		97	76-123			
Calcium	229		25.0	mg/kg wet	245		93	89-115			
Chromium	23.0		0.50	mg/kg wet	24.5		94	81-121			
Cobalt	21.8		0.50	mg/kg wet	24.5		89	86-115			
Copper	11.9		0.500	mg/kg wet	12.3		97	81-119			
Iron	233		2.5	mg/kg wet	245		95	79-111			
Lead	21.2		0.50	mg/kg wet	24.5		87	79-127			
Magnesium	225		5.0	mg/kg wet	245		92	86-115			
Molybdenum	9.81		0.50	mg/kg wet	12.3		80	79-121			
Nickel	23.9		0.50	mg/kg wet	24.5		98	80-118			
Potassium	1200	B	25.0	mg/kg wet	1230		98	80-120			
Selenium	22.0		0.50	mg/kg wet	24.5		90	71-118			
Silver	2.29		0.50	mg/kg wet	2.45		93	78-128			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G29002 - EPA 3050B

LCS (8G29002-BS1) Continued Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 16:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	1160	B	25	mg/kg wet	1230		94	86-108			
Thallium	11.3	B	0.50	mg/kg wet	12.3		92	85-115			
Vanadium	11.2	B	0.500	mg/kg wet	12.3		91	89-112			
Zinc	22.9		0.500	mg/kg wet	24.5		94	76-128			

Matrix Spike (8G29002-MS1) Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 16:40

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	1040	B	6.5	mg/kg dry	317	543	157	35-172			
Manganese	18.1		0.653	mg/kg dry	15.9	3.94	89	75-125			
Antimony	13.4	B	0.65	mg/kg dry	15.9	0.14 U	84	52-147			
Arsenic	29.2	B	0.65	mg/kg dry	31.7	0.26	91	53-153			
Barium	35.1		0.653	mg/kg dry	31.7	3.37	100	46-120			
Beryllium	15.2		0.065	mg/kg dry	15.9	0.016 U	96	41-133			
Boron	29.9	B	3.27	mg/kg dry	31.7	0.53	93	97-103			QM-07
Cadmium	15.3		0.065	mg/kg dry	15.9	0.013 U	97	49-115			
Calcium	375		32.7	mg/kg dry	317	68.0	97	71-121			
Chromium	32.1		0.65	mg/kg dry	31.7	2.20	94	19-142			
Cobalt	29.5		0.65	mg/kg dry	31.7	1.49	88	30-143			
Copper	15.2		0.653	mg/kg dry	15.9	0.248 U	96	35-137			
Iron	883		3.3	mg/kg dry	317	566	100	48-139			
Lead	27.8		0.65	mg/kg dry	31.7	0.47	86	48-121			
Magnesium	399		6.5	mg/kg dry	317	98.2	95	36-149			
Molybdenum	12.1		0.65	mg/kg dry	15.9	0.08 U	76	59-126			
Nickel	34.1		0.65	mg/kg dry	31.7	3.32	97	43-121			
Potassium	1580	B	32.7	mg/kg dry	1590	57.6	96	70-135			
Selenium	28.0		0.65	mg/kg dry	31.7	0.13 U	88	43-126			
Silver	2.73		0.65	mg/kg dry	3.17	0.07 U	86	36-133			
Sodium	1530	B	33	mg/kg dry	1590	31.1	94	45-159			
Thallium	14.0	B	0.65	mg/kg dry	15.9	0.26 U	88	58-118			
Vanadium	16.4	B	0.653	mg/kg dry	15.9	1.99	91	31-142			
Zinc	33.2		0.653	mg/kg dry	31.7	3.75	93	37-138			

Matrix Spike Dup (8G29002-MSD1) Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 16:47

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	1070	B	6.5	mg/kg dry	317	543	165	35-172	2	32	
Manganese	18.4		0.653	mg/kg dry	15.9	3.94	91	75-125	2	20	
Antimony	13.3	B	0.65	mg/kg dry	15.9	0.14 U	84	52-147	0.05	28	
Arsenic	28.7	B	0.65	mg/kg dry	31.7	0.26	90	53-153	2	22	
Barium	35.4		0.653	mg/kg dry	31.7	3.37	101	46-120	0.8	16	
Beryllium	15.1		0.065	mg/kg dry	15.9	0.016 U	95	41-133	1	26	
Boron	29.8	B	3.27	mg/kg dry	31.7	0.53	92	97-103	0.4	23	QM-07
Cadmium	15.2		0.065	mg/kg dry	15.9	0.013 U	96	49-115	0.8	24	
Calcium	393		32.7	mg/kg dry	317	68.0	103	71-121	5	19	
Chromium	31.6		0.65	mg/kg dry	31.7	2.20	93	19-142	1	24	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8G29002 - EPA 3050B

Matrix Spike Dup (8G29002-MSD1) Continued Prepared: 07/29/2008 07:03 Analyzed: 07/31/2008 16:47

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cobalt	29.2		0.65	mg/kg dry	31.7	1.49	87	30-143	1	17	
Copper	14.9		0.653	mg/kg dry	15.9	0.248 U	94	35-137	2	12	
Iron	916		3.3	mg/kg dry	317	566	110	48-139	4	38	
Lead	27.3		0.65	mg/kg dry	31.7	0.47	85	48-121	2	26	
Magnesium	400		6.5	mg/kg dry	317	98.2	95	36-149	0.2	23	
Molybdenum	11.5		0.65	mg/kg dry	15.9	0.08 U	73	59-126	4	21	
Nickel	34.0		0.65	mg/kg dry	31.7	3.32	97	43-121	0.4	14	
Potassium	1570	B	32.7	mg/kg dry	1590	57.6	95	70-135	1	22	
Selenium	27.5		0.65	mg/kg dry	31.7	0.13 U	87	43-126	2	14	
Silver	2.61		0.65	mg/kg dry	3.17	0.07 U	82	36-133	5	20	
Sodium	1480	B	33	mg/kg dry	1590	31.1	92	45-159	3	21	
Thallium	13.8	B	0.65	mg/kg dry	15.9	0.26 U	87	58-118	2	14	
Vanadium	16.3	B	0.653	mg/kg dry	15.9	1.99	90	31-142	0.8	16	
Zinc	32.9		0.653	mg/kg dry	31.7	3.75	92	37-138	0.8	19	

Batch 8G29003 - EPA 7471A

Blank (8G29003-BLK1) Prepared: 07/31/2008 07:23 Analyzed: 07/31/2008 11:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.005	U	0.01	mg/kg wet							

LCS (8G29003-BS1) Prepared: 07/31/2008 07:23 Analyzed: 07/31/2008 11:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.25		0.01	mg/kg wet	0.242		104	81-117			

Matrix Spike (8G29003-MS1) Prepared: 07/31/2008 07:23 Analyzed: 07/31/2008 11:22

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.34		0.01	mg/kg dry	0.321	0.007 U	107	75-125			

Matrix Spike Dup (8G29003-MSD1) Prepared: 07/31/2008 07:23 Analyzed: 07/31/2008 11:24

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.36		0.01	mg/kg dry	0.316	0.007 U	113	75-125	4	9	

Post Spike (8G29003-PS1) Prepared: 07/31/2008 07:23 Analyzed: 07/31/2008 11:27

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.005		0.0002	mg/L	0.00500	-0.00008	104	0-200			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G27003 - NO PREP

Blank (8G27003-BLK1) Prepared: 07/27/2008 10:19 Analyzed: 07/27/2008 14:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.031	J	0.10	mg/L							

LCS (8G27003-BS1) Prepared: 07/27/2008 10:19 Analyzed: 07/27/2008 14:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3	B	0.10	mg/L	1.25		101	80-120			

Matrix Spike (8G27003-MS1) Prepared: 07/27/2008 10:19 Analyzed: 07/28/2008 08:29

Source: C807495-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.1	B	0.10	mg/L	1.28	0.012	82	80-120			

Matrix Spike Dup (8G27003-MSD1) Prepared: 07/27/2008 10:19 Analyzed: 07/28/2008 08:30

Source: C807495-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.1	B	0.10	mg/L	1.28	0.012	83	80-120	1	25	

Batch 8G28006 - NO PREP

Blank (8G28006-BLK1) Prepared: 07/28/2008 17:41 Analyzed: 07/30/2008 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (8G28006-BS1) Prepared: 07/28/2008 17:41 Analyzed: 07/30/2008 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	310		10	mg/L	300		102	90-110			

Duplicate (8G28006-DUP1) Prepared: 07/28/2008 17:41 Analyzed: 07/30/2008 16:30

Source: C807265-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	2200		10	mg/L		2100			2	10	

Batch 8G28012 - NO PREP

Blank (8G28012-BLK1) Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8G28012-BS1) Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G28012 - NO PREP

LCS (8G28012-BS1) Continued Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	88		1.0	mg/L	80.0		110	82-119			

Duplicate (8G28012-DUP1) Prepared: 07/28/2008 09:30 Analyzed: 07/31/2008 10:00

Source: C808138-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	21		1.0	mg/L		22			2	10	

Batch 8G28022 - % Solids

Duplicate (8G28022-DUP1) Prepared: 07/28/2008 11:50 Analyzed: 07/28/2008 14:20

Source: C807713-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	91		0.1	% by Weight		93			1	10	

Batch 8G30007 - NO PREP

Blank (8G30007-BLK1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	2.7	U	15	mg/L							

LCS (8G30007-BS1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100		104	80-120			

Matrix Spike (8G30007-MS1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:49

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	170		15	mg/L	100	68	98	80-120			

Matrix Spike Dup (8G30007-MSD1) Prepared: 07/30/2008 08:41 Analyzed: 07/30/2008 11:50

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	160		15	mg/L	100	68	95	80-120	2	25	

Batch 8G30008 - NO PREP

Blank (8G30008-BLK1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	1.4	J	5.0	mg/L							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G30008 - NO PREP

LCS (8G30008-BS1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	99	B	5.0	mg/L	100		99	80-120			

Matrix Spike (8G30008-MS1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:41

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140	B	5.0	mg/L	100	45	94	80-120			

Matrix Spike Dup (8G30008-MSD1) Prepared: 07/30/2008 08:43 Analyzed: 07/30/2008 12:41

Source: C808135-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140	B	5.0	mg/L	100	45	97	80-120	2	25	

Batch 8G31030 - NO PREP

Blank (8G31030-BLK1) Prepared: 07/31/2008 11:58 Analyzed: 07/31/2008 15:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	**0.02**	J	0.20	mg/L							
Sulfate as SO4	0.05	U	5.0	mg/L							

LCS (8G31030-BS1) Prepared: 07/31/2008 11:58 Analyzed: 07/31/2008 16:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.95	B	0.20	mg/L	1.00		95	90-110			
Sulfate as SO4	47		5.0	mg/L	50.0		95	90-110			

Matrix Spike (8G31030-MS1) Prepared: 07/31/2008 11:58 Analyzed: 07/31/2008 23:41

Source: C807082-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.1	B	0.20	mg/L	1.00	0.11	99	90-110			
Sulfate as SO4	49		5.0	mg/L	50.0	1.6	94	90-110			

Matrix Spike Dup (8G31030-MSD1) Prepared: 07/31/2008 11:58 Analyzed: 08/01/2008 00:11

Source: C807082-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.1	B	0.20	mg/L	1.00	0.11	99	90-110	0.08	10	
Sulfate as SO4	48		5.0	mg/L	50.0	1.6	93	90-110	1	10	

Batch 8G31035 - Same

Blank (8G31035-BLK1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:35

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8G31035 - Same

Blank (8G31035-BLK1) Continued Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8G31035-BS1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		98	80-120			

Matrix Spike (8G31035-MS1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:40

Source: C808020-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.4		0.10	mg/L	1.60	0.77	100	80-120			

Matrix Spike Dup (8G31035-MSD1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 10:42

Source: C808020-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.3		0.10	mg/L	1.60	0.77	97	80-120	2	25	

Batch 8G31037 - Same

Blank (8G31037-BLK1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 11:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	6.3	U	8.0	mg/kg wet							

LCS (8G31037-BS1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	120		8.0	mg/kg wet	126		96	80-120			

Matrix Spike (8G31037-MS1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 11:23

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	180		10	mg/kg dry	165	24	98	80-120			

Matrix Spike Dup (8G31037-MSD1) Prepared: 08/01/2008 11:50 Analyzed: 08/03/2008 11:24

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	200		10	mg/kg dry	164	24	106	80-120	7	25	

Batch 8H05022 - Same

Blank (8H05022-BLK1) Prepared: 08/05/2008 11:25 Analyzed: 08/05/2008 22:28

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8H05022 - Same

Blank (8H05022-BLK1) Continued Prepared: 08/05/2008 11:25 Analyzed: 08/05/2008 22:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	**0.78**	**J**	2.0	mg/kg dry wt. wet							
Chloride	5.0	U	50	mg/kg dry wt. wet							
Nitrate as N	1.0	U	10	mg/kg dry wt. wet							
Nitrite as N	0.14	U	1.0	mg/kg dry wt. wet							
Sulfate as SO4	**15**	**J**	50	mg/kg dry wt. wet							

LCS (8H05022-BS1) Prepared: 08/05/2008 11:25 Analyzed: 08/05/2008 22:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.96	B	0.20	mg/L	1.00		96	90-110			
Chloride	49		5.0	mg/L	50.0		97	90-110			
Nitrate as N	9.5		1.0	mg/L	10.0		95	90-110			
Nitrite as N	0.95		0.10	mg/L	1.00		95	90-110			
Sulfate as SO4	48	B	5.0	mg/L	50.0		96	90-110			

Matrix Spike (8H05022-MS1) Prepared: 08/05/2008 11:25 Analyzed: 08/05/2008 23:27

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.93	B	0.20	mg/L	1.00	0.050	88	90-110			QM-07
Chloride	50		5.0	mg/L	50.0	1.9	95	90-110			
Nitrate as N	120	E	1.0	mg/L	10.0	0.34	NR	90-110			QM-07
Nitrite as N	1.0		0.10	mg/L	1.00	0.014 U	101	90-110			
Sulfate as SO4	59	B	5.0	mg/L	50.0	12	95	90-110			

Matrix Spike Dup (8H05022-MSD1) Prepared: 08/05/2008 11:25 Analyzed: 08/05/2008 23:57

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.91	B	0.20	mg/L	1.00	0.050	86	90-110	1	10	QM-07
Chloride	49		5.0	mg/L	50.0	1.9	94	90-110	0.9	10	
Nitrate as N	120	E	1.0	mg/L	10.0	0.34	NR	90-110	2	10	QM-07
Nitrite as N	0.95		0.10	mg/L	1.00	0.014 U	95	90-110	6	10	
Sulfate as SO4	58	B	5.0	mg/L	50.0	12	93	90-110	2	10	

Batch 8H06006 - CE-81-1

Blank (8H06006-BLK1) Prepared: 08/05/2008 11:25 Analyzed: 08/06/2008 09:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	**170**		150	mg/kg wet							

LCS (8H06006-BS1) Prepared: 08/05/2008 11:25 Analyzed: 08/06/2008 09:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8H06006 - CE-81-1

LCS (8H06006-BS1) Continued Prepared: 08/05/2008 11:25 Analyzed: 08/06/2008 09:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	110	B	15	mg/L	100		111	80-120			

Matrix Spike (8H06006-MS1) Prepared: 08/05/2008 11:25 Analyzed: 08/06/2008 12:42

Source: C807924-03RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100	B	15	mg/L	100	8.4	95	80-120			

Matrix Spike Dup (8H06006-MSD1) Prepared: 08/05/2008 11:25 Analyzed: 08/06/2008 12:43

Source: C807924-03RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100	B	15	mg/L	100	8.4	95	80-120	0.05	25	

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8G30020 - EPA 7470A

Blank (8G30020-BLK1) Prepared: 07/31/2008 10:00 Analyzed: 07/31/2008 15:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

Blank (8G30020-BLK2) Prepared: 07/31/2008 10:00 Analyzed: 07/31/2008 15:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00054	U	0.00200	mg/L							

LCS (8G30020-BS1) Prepared: 07/31/2008 10:00 Analyzed: 07/31/2008 15:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00527		0.00020	mg/L	0.00500		105	85-115			

Matrix Spike (8G30020-MS1) Prepared: 07/31/2008 10:00 Analyzed: 07/31/2008 15:57

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0567		0.00200	mg/L	0.0500	0.00054 U	113	85-115			

Matrix Spike Dup (8G30020-MSD1) Prepared: 07/31/2008 10:00 Analyzed: 07/31/2008 15:59

Source: C807924-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0586		0.00200	mg/L	0.0500	0.00054 U	117	85-115	3	25	QM-07

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

Blank (8H01014-BLK1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0220	U	0.200	mg/L							
Antimony	0.00310	U	0.0200	mg/L							
Arsenic	0.00240	U	0.0100	mg/L							
Barium	0.00043	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0095	U	0.0500	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0380**	J	0.500	mg/L							
Chromium	0.00043	U	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							
Manganese	0.0008	U	0.0100	mg/L							
Molybdenum	0.0007	U	0.0100	mg/L							
Nickel	0.0008	U	0.0500	mg/L							
Potassium	0.0540	U	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Sodium	**1.62**		0.500	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	**0.0032**	J	0.0200	mg/L							

Blank (8H01014-BLK2) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	0.0002	U	0.0010	mg/L							

Blank (8H01014-BLK3) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.110	U	1.00	mg/L							
Antimony	0.0155	U	0.100	mg/L							
Arsenic	0.0120	U	0.0500	mg/L							
Barium	**0.369**		0.0500	mg/L							
Beryllium	0.0008	U	0.0050	mg/L							
Boron	**0.319**		0.250	mg/L							
Cadmium	0.0009	U	0.0050	mg/L							
Calcium	**4.86**		2.50	mg/L							
Chromium	0.00215	U	0.0500	mg/L							
Cobalt	0.0012	U	0.0500	mg/L							
Copper	0.0060	U	0.0500	mg/L							
Iron	0.0240	U	0.250	mg/L							
Lead	0.0080	U	0.0500	mg/L							
Magnesium	**0.497**	J	2.50	mg/L							
Manganese	0.0038	U	0.0500	mg/L							

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

Blank (8H01014-BLK3) Continued Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Molybdenum	0.0034	U	0.0500	mg/L							
Nickel	**0.0082**	**J**	0.250	mg/L							
Potassium	**1.31**	**J**	2.50	mg/L							
Selenium	0.0185	U	0.0500	mg/L							
Silver	0.0020	U	0.0500	mg/L							
Sodium	**1470**		2.50	mg/L							
Thallium	0.0255	U	0.0500	mg/L							
Vanadium	0.0022	U	0.0500	mg/L							
Zinc	**0.0967**	**J**	0.100	mg/L							

LCS (8H01014-BS1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10.3		0.200	mg/L	10.0		103	84-119			
Antimony	0.523		0.0200	mg/L	0.500		105	87-111			
Arsenic	1.05		0.0100	mg/L	1.00		105	89-116			
Barium	1.06	B	0.0100	mg/L	1.00		106	89-113			
Beryllium	0.530		0.0010	mg/L	0.500		106	90-111			
Boron	1.05	B	0.0500	mg/L	1.00		105	89-116			
Cadmium	0.527		0.0010	mg/L	0.500		105	90-112			
Calcium	10.5	B	0.500	mg/L	10.0		105	84-118			
Chromium	1.06		0.0100	mg/L	1.00		106	89-114			
Cobalt	1.07		0.0100	mg/L	1.00		107	90-114			
Copper	0.539		0.0100	mg/L	0.500		108	90-112			
Iron	10.5		0.0500	mg/L	10.0		105	90-110			
Lead	1.06		0.0100	mg/L	1.00		106	90-113			
Magnesium	10.4	B	0.500	mg/L	10.0		104	90-111			
Manganese	0.534		0.0100	mg/L	0.500		107	90-112			
Molybdenum	0.509		0.0100	mg/L	0.500		102	89-110			
Nickel	1.08	B	0.0500	mg/L	1.00		108	88-116			
Potassium	52.2	B	0.500	mg/L	50.0		104	90-110			
Selenium	1.06		0.0100	mg/L	1.00		106	90-118			
Silver	0.0970		0.0100	mg/L	0.100		97	87-112			
Sodium	51.9	B	0.500	mg/L	50.0		104	90-113			
Thallium	0.521		0.0100	mg/L	0.500		104	90-112			
Vanadium	0.534		0.0100	mg/L	0.500		107	88-114			
Zinc	1.08	B	0.0200	mg/L	1.00		108	88-116			

Matrix Spike (8H01014-MS1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 20:03

Source: B805297-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	49.9		1.00	mg/L	50.0	0.192	99	84-119			
Antimony	2.68		0.100	mg/L	2.50	0.0155 U	107	87-111			
Arsenic	5.20		0.0500	mg/L	5.00	0.0221	103	89-116			
Barium	5.25	B	0.0500	mg/L	5.00	0.434	96	89-113			
Beryllium	2.57		0.0050	mg/L	2.50	0.0008 U	103	90-111			
Boron	5.50	B	0.250	mg/L	5.00	0.333	103	89-116			

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

Matrix Spike (8H01014-MS1) Continued Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 20:03

Source: B805297-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	2.45		0.0050	mg/L	2.50	0.0009 U	98	90-112			
Calcium	979	B	2.50	mg/L	50.0	981	NR	84-118			QM-02
Chromium	5.07		0.0500	mg/L	5.00	0.00450	101	89-114			
Cobalt	4.94		0.0500	mg/L	5.00	0.0012 U	99	90-114			
Copper	2.66		0.0500	mg/L	2.50	0.0136	106	90-112			
Iron	49.3		0.250	mg/L	50.0	0.0542	98	90-110			
Lead	5.06		0.0500	mg/L	5.00	0.0080 U	101	90-113			
Magnesium	62.6	B	2.50	mg/L	50.0	15.1	95	90-111			
Manganese	2.76		0.0500	mg/L	2.50	0.274	99	90-112			
Molybdenum	2.62		0.0500	mg/L	2.50	0.0169	104	89-110			
Nickel	5.00	B	0.250	mg/L	5.00	0.0102	100	88-116			
Potassium	264	B	2.50	mg/L	250	9.83	102	90-110			
Selenium	5.30		0.0500	mg/L	5.00	0.0231	106	90-118			
Silver	0.499		0.0500	mg/L	0.500	0.00527	99	87-112			
Sodium	1520	B	2.50	mg/L	250	1360	66	90-113			QM-02
Thallium	2.47		0.0500	mg/L	2.50	0.0255 U	99	90-112			
Vanadium	2.60		0.0500	mg/L	2.50	0.0022 U	104	88-114			
Zinc	5.61	B	0.100	mg/L	5.00	0.613	100	88-116			

Matrix Spike Dup (8H01014-MSD1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 20:10

Source: B805297-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	50.3		1.00	mg/L	50.0	0.192	100	84-119	0.9	25	
Antimony	2.64		0.100	mg/L	2.50	0.0155 U	106	87-111	2	25	
Arsenic	5.13		0.0500	mg/L	5.00	0.0221	102	89-116	1	25	
Barium	5.20	B	0.0500	mg/L	5.00	0.434	95	89-113	0.9	25	
Beryllium	2.51		0.0050	mg/L	2.50	0.0008 U	100	90-111	2	25	
Boron	5.42	B	0.250	mg/L	5.00	0.333	102	89-116	1	25	
Cadmium	2.43		0.0050	mg/L	2.50	0.0009 U	97	90-112	0.8	25	
Calcium	953	B	2.50	mg/L	50.0	981	NR	84-118	3	25	QM-02
Chromium	5.03		0.0500	mg/L	5.00	0.00450	100	89-114	1	25	
Cobalt	4.90		0.0500	mg/L	5.00	0.0012 U	98	90-114	0.9	25	
Copper	2.64		0.0500	mg/L	2.50	0.0136	105	90-112	1	25	
Iron	48.8		0.250	mg/L	50.0	0.0542	98	90-110	0.9	25	
Lead	4.98		0.0500	mg/L	5.00	0.0080 U	100	90-113	1	25	
Magnesium	63.1	B	2.50	mg/L	50.0	15.1	96	90-111	0.8	25	
Manganese	2.73		0.0500	mg/L	2.50	0.274	98	90-112	0.9	25	
Molybdenum	2.59		0.0500	mg/L	2.50	0.0169	103	89-110	1	25	
Nickel	4.96	B	0.250	mg/L	5.00	0.0102	99	88-116	0.9	25	
Potassium	261	B	2.50	mg/L	250	9.83	101	90-110	1	25	
Selenium	5.21		0.0500	mg/L	5.00	0.0231	104	90-118	2	25	
Silver	0.496		0.0500	mg/L	0.500	0.00527	98	87-112	0.7	25	
Sodium	1490	B	2.50	mg/L	250	1360	51	90-113	3	25	QM-02
Thallium	2.45		0.0500	mg/L	2.50	0.0255 U	98	90-112	0.8	25	
Vanadium	2.57		0.0500	mg/L	2.50	0.0022 U	103	88-114	1	25	
Zinc	5.55	B	0.100	mg/L	5.00	0.613	99	88-116	1	25	

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8G30019 - EPA 7470A

Blank (8G30019-BLK1) Prepared: 07/30/2008 15:39 Analyzed: 07/31/2008 15:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

Blank (8G30019-BLK2) Prepared: 07/30/2008 15:39 Analyzed: 07/31/2008 15:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000054	U	0.00020	mg/L							

LCS (8G30019-BS1) Prepared: 07/30/2008 15:39 Analyzed: 07/31/2008 15:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00530		0.00020	mg/L	0.00500		106	85-115			

Matrix Spike (8G30019-MS1) Prepared: 07/30/2008 15:39 Analyzed: 07/31/2008 15:13

Source: B805182-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00615		0.00020	mg/L	0.00500	0.000054 U	123	85-115			QM-07

Matrix Spike Dup (8G30019-MSD1) Prepared: 07/30/2008 15:39 Analyzed: 07/31/2008 15:15

Source: B805182-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00593		0.00020	mg/L	0.00500	0.000054 U	119	85-115	4	25	QM-07

Batch 8H01014 - EPA 3010A

Blank (8H01014-BLK1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	0.0220	U	0.200	mg/L							
Antimony	0.00310	U	0.0200	mg/L							
Arsenic	0.00240	U	0.0100	mg/L							
Barium	0.00043	U	0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	0.0095	U	0.0500	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**0.0380**	J	0.500	mg/L							
Chromium	0.00043	U	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	0.0150	U	0.500	mg/L							

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

Blank (8H01014-BLK1) Continued Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Manganese	0.0008	U	0.0100	mg/L							
Molybdenum	0.0007	U	0.0100	mg/L							
Nickel	**0.0005**	**J**	0.0500	mg/L							
Potassium	0.0540	U	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Sodium	**1.62**		0.500	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	**0.0032**	**J**	0.0200	mg/L							

Blank (8H01014-BLK2) Prepared: 08/01/2008 13:10 Analyzed: 08/05/2008 13:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	**0.0295**	**J**	0.200	mg/L							
Antimony	0.00310	U	0.0200	mg/L							
Arsenic	0.00240	U	0.0100	mg/L							
Barium	**0.0233**		0.0100	mg/L							
Beryllium	0.0002	U	0.0010	mg/L							
Boron	**0.0853**		0.0500	mg/L							
Cadmium	0.0002	U	0.0010	mg/L							
Calcium	**1.14**		0.500	mg/L							
Chromium	**0.00134**	**J**	0.0100	mg/L							
Cobalt	0.0002	U	0.0100	mg/L							
Copper	0.0012	U	0.0100	mg/L							
Iron	0.0048	U	0.0500	mg/L							
Lead	0.0016	U	0.0100	mg/L							
Magnesium	**0.119**	**J**	0.500	mg/L							
Manganese	0.0008	U	0.0100	mg/L							
Molybdenum	0.0007	U	0.0100	mg/L							
Nickel	**0.0010**	**J**	0.0500	mg/L							
Potassium	**0.105**	**J**	0.500	mg/L							
Selenium	0.0037	U	0.0100	mg/L							
Silver	0.0004	U	0.0100	mg/L							
Thallium	0.0051	U	0.0100	mg/L							
Sodium	**14.9**		0.500	mg/L							
Vanadium	0.0004	U	0.0100	mg/L							
Zinc	**0.0120**	**J**	0.0200	mg/L							

LCS (8H01014-BS1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	10.3	B	0.200	mg/L	10.0		103	84-119			
Antimony	0.523		0.0200	mg/L	0.500		105	87-111			
Arsenic	1.05		0.0100	mg/L	1.00		105	89-116			
Barium	1.06	B	0.0100	mg/L	1.00		106	89-113			
Beryllium	0.530		0.0010	mg/L	0.500		106	90-111			
Boron	1.05	B	0.0500	mg/L	1.00		105	89-116			

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

LCS (8H01014-BS1) Continued Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 19:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	0.527		0.0010	mg/L	0.500		105	90-112			
Calcium	10.5	B	0.500	mg/L	10.0		105	84-118			
Chromium	1.06	B	0.0100	mg/L	1.00		106	89-114			
Cobalt	1.07		0.0100	mg/L	1.00		107	90-114			
Copper	0.539		0.0100	mg/L	0.500		108	90-112			
Iron	10.5		0.0500	mg/L	10.0		105	90-110			
Lead	1.06		0.0100	mg/L	1.00		106	90-113			
Magnesium	10.4	B	0.500	mg/L	10.0		104	90-111			
Manganese	0.534		0.0100	mg/L	0.500		107	90-112			
Molybdenum	0.509		0.0100	mg/L	0.500		102	89-110			
Nickel	1.08	B	0.0500	mg/L	1.00		108	88-116			
Potassium	52.2	B	0.500	mg/L	50.0		104	90-110			
Selenium	1.06		0.0100	mg/L	1.00		106	90-118			
Silver	0.0970		0.0100	mg/L	0.100		97	87-112			
Thallium	0.521		0.0100	mg/L	0.500		104	90-112			
Sodium	51.9	B	0.500	mg/L	50.0		104	90-113			
Vanadium	0.534		0.0100	mg/L	0.500		107	88-114			
Zinc	1.08	B	0.0200	mg/L	1.00		108	88-116			

Matrix Spike (8H01014-MS1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 20:03

Source: B805297-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	49.9	B	1.00	mg/L	50.0	0.192	99	84-119			
Antimony	2.68		0.100	mg/L	2.50	0.0155 U	107	87-111			
Arsenic	5.20		0.0500	mg/L	5.00	0.0221	103	89-116			
Barium	5.25	B	0.0500	mg/L	5.00	0.434	96	89-113			
Beryllium	2.57		0.0050	mg/L	2.50	0.0008 U	103	90-111			
Boron	5.50	B	0.250	mg/L	5.00	0.333	103	89-116			
Cadmium	2.45		0.0050	mg/L	2.50	0.0009 U	98	90-112			
Calcium	979	B	2.50	mg/L	50.0	981	NR	84-118			QM-02
Chromium	5.07	B	0.0500	mg/L	5.00	0.00450	101	89-114			
Cobalt	4.94		0.0500	mg/L	5.00	0.0012 U	99	90-114			
Copper	2.66		0.0500	mg/L	2.50	0.0136	106	90-112			
Iron	49.3		0.250	mg/L	50.0	0.0542	98	90-110			
Lead	5.06		0.0500	mg/L	5.00	0.0080 U	101	90-113			
Magnesium	62.6	B	2.50	mg/L	50.0	15.1	95	90-111			
Manganese	2.76		0.0500	mg/L	2.50	0.274	99	90-112			
Molybdenum	2.62		0.0500	mg/L	2.50	0.0169	104	89-110			
Nickel	5.00	B	0.250	mg/L	5.00	0.0102	100	88-116			
Potassium	264	B	2.50	mg/L	250	9.83	102	90-110			
Selenium	5.30		0.0500	mg/L	5.00	0.0231	106	90-118			
Silver	0.499		0.0500	mg/L	0.500	0.00527	99	87-112			
Thallium	2.47		0.0500	mg/L	2.50	0.0255 U	99	90-112			
Sodium	1520	B	2.50	mg/L	250	1360	66	90-113			QM-02
Vanadium	2.60		0.0500	mg/L	2.50	0.0022 U	104	88-114			
Zinc	5.61	B	0.100	mg/L	5.00	0.613	100	88-116			

QUALITY CONTROL

SPLP Metals by 6000/7000 Series Methods - Quality Control

Batch 8H01014 - EPA 3010A

Matrix Spike Dup (8H01014-MSD1) Prepared: 08/01/2008 13:10 Analyzed: 08/04/2008 20:10

Source: B805297-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	50.3	B	1.00	mg/L	50.0	0.192	100	84-119	0.9	25	
Antimony	2.64		0.100	mg/L	2.50	0.0155 U	106	87-111	2	25	
Arsenic	5.13		0.0500	mg/L	5.00	0.0221	102	89-116	1	25	
Barium	5.20	B	0.0500	mg/L	5.00	0.434	95	89-113	0.9	25	
Beryllium	2.51		0.0050	mg/L	2.50	0.0008 U	100	90-111	2	25	
Boron	5.42	B	0.250	mg/L	5.00	0.333	102	89-116	1	25	
Cadmium	2.43		0.0050	mg/L	2.50	0.0009 U	97	90-112	0.8	25	
Calcium	953	B	2.50	mg/L	50.0	981	NR	84-118	3	25	QM-02
Chromium	5.03	B	0.0500	mg/L	5.00	0.00450	100	89-114	1	25	
Cobalt	4.90		0.0500	mg/L	5.00	0.0012 U	98	90-114	0.9	25	
Copper	2.64		0.0500	mg/L	2.50	0.0136	105	90-112	1	25	
Iron	48.8		0.250	mg/L	50.0	0.0542	98	90-110	0.9	25	
Lead	4.98		0.0500	mg/L	5.00	0.0080 U	100	90-113	1	25	
Magnesium	63.1	B	2.50	mg/L	50.0	15.1	96	90-111	0.8	25	
Manganese	2.73		0.0500	mg/L	2.50	0.274	98	90-112	0.9	25	
Molybdenum	2.59		0.0500	mg/L	2.50	0.0169	103	89-110	1	25	
Nickel	4.96	B	0.250	mg/L	5.00	0.0102	99	88-116	0.9	25	
Potassium	261	B	2.50	mg/L	250	9.83	101	90-110	1	25	
Selenium	5.21		0.0500	mg/L	5.00	0.0231	104	90-118	2	25	
Silver	0.496		0.0500	mg/L	0.500	0.00527	98	87-112	0.7	25	
Thallium	2.45		0.0500	mg/L	2.50	0.0255 U	98	90-112	0.8	25	
Sodium	1490	B	2.50	mg/L	250	1360	51	90-113	3	25	QM-02
Vanadium	2.57		0.0500	mg/L	2.50	0.0022 U	103	88-114	1	25	
Zinc	5.55	B	0.100	mg/L	5.00	0.613	99	88-116	1	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the assocatiated method blank.
J-01a	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-6314 Fax (407) 850-6945
4810 Executive Park Court, Suite 211 Jacksonville, FL 32210-0000 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: Kimley-Horn and Associates - VAIKI009	Project Number: [none]
Address: 505 Independence Pkway, Suite 200	Project Name/Desc: Fly Ash
City/ST/Zip: Chesapeake, VA 23320	PO # / Billing No:
Tel: (757) 548-7354 Fax: (757) 548-7654	Reporting Contact: Mike Iwashchenko
Sampler(s) Name, Affiliation (Print): M. IWASHCHENKO / KHA	Billing Contact: Mike Iwashchenko
Sampler(s) Signature: M. Iwashchenko	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

__ Standard

__ Expedited

Due __/__/__

Lab Workorder: C807924

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	1312 SPLP EXT Metals, SO4	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn	Alkalinity 310.2	Alkalinity 310.2, Chloride SM4500-Cl/E, Fluoride 300, TDS 160.1	Co / TOC / RCRA ALL METALS		NOX 353.2, P	Sulfate 300, TSS 160.2	Sample Comments
	FS-6	7/23/08	12:3	G	GW	7			X			X			X	X	
	SW-10	7/23/08	2:20	G	GW	7			X			X			X	X	
					GW	7			X			X			X	X	
					GW	7			X			X			X	X	
					GW	7			X			X			X	X	
	MW-4D one	7/21/08	9:27	G	SO	3	X	X		X	X		X	X			9'-11' BGS
	MW-5D	↓	1:00	G	SO	3	X	X		X	X		X	X			8-9' BGS
	MW-5D	↓	1:07	G	SO	3	X	X		X	X		X	X			29-31' BGS
					SO	3	X	X		X	X		X	X			
					SO	3	X	X		X	X		X	X			
					SO	3	X	X		X	X		X	X			
					SO	3	X	X		X	X		X	X			
						23	<-- Total # of Containers										

Sample Kit Prepared By: JWL	Date/Time: 7/17	Relinquished By: [signature]	Date/Time: 7/23/08 3:30	Received By: [signature]	Date/Time: 7/24/08 10:45
Comments: offsite, upgradient wells SET MW-4 @ 25' (5' x 20's)		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:

Cooler Pre & Temp on Receipt: C-286 2.2°C C-2 2.4°C

Condition Upon Receipt: __ Acceptable __ Unacceptable

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: 1-ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless otherwise agreements exist.

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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Wednesday, September 10, 2008

Kimley-Horn and Associates - VA[KI009]

Attn: Mike Iwashchenko

505 Independence Pkway, Suite 200

Chesapeake, VA 23320

RE: Laboratory Results for
Project Number: 116436000.2, Project Name/Desc: Fly Ash
ENCO Workorder: C809306

Dear Mike Iwashchenko,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, August 26, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 14.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-3 Lab ID: C809306-01 Sampled: 08/25/08 13:52 Received: 08/26/08 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	09/01/08		08/27/08	18:00	8/28/2008 16:55
EPA 160.2	09/01/08		08/28/08	12:40	9/4/2008 13:18
EPA 300.0	09/22/08		08/26/08	14:36	8/27/2008 02:33
EPA 310.2	09/08/08		08/27/08	11:24	8/27/2008 14:48
EPA 353.2	08/27/08	13:52	08/27/08	07:33	8/27/2008 10:17
EPA 353.2	09/22/08		08/27/08	07:00	8/27/2008 12:40
EPA 353.2	09/22/08		08/31/08	13:06	8/31/2008 13:06
EPA 365.4	09/22/08		09/03/08	13:25	9/4/2008 15:54
EPA 6010B	02/21/09		09/04/08	06:33	9/8/2008 11:51
EPA 6010B	02/21/09		09/04/08	06:33	9/9/2008 11:58
EPA 7470A	09/22/08		09/03/08	11:35	9/5/2008 11:31
SM4500-Cl/E	09/22/08		08/27/08	11:25	8/27/2008 14:25

Client ID: MW-3 Lab ID: C809306-01RE1 Sampled: 08/25/08 13:52 Received: 08/26/08 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	09/22/08	08/26/08 14:36	8/27/2008 03:53

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SAMPLE DETECTION SUMMARY

Client ID: MW-3 Lab ID: C809306-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	26000		100	ug/L	EPA 6010B	
Arsenic	17.4		10.0	ug/L	EPA 6010B	
Barium	97.6		10.0	ug/L	EPA 6010B	
Beryllium	0.50	J	1.00	ug/L	EPA 6010B	
Boron	44.2	J	50.0	ug/L	EPA 6010B	
Calcium	66900		100	ug/L	EPA 6010B	
Chloride	46		5.0	mg/L	SM4500-Cl/E	
Chromium	46.7		10.0	ug/L	EPA 6010B	
Cobalt	35.6		10.0	ug/L	EPA 6010B	
Copper	13.0	B	10.0	ug/L	EPA 6010B	J-01
Fluoride	0.45		0.20	mg/L	EPA 300.0	
Iron	43800		50	ug/L	EPA 6010B	
Lead	19.4		10.0	ug/L	EPA 6010B	
Magnesium	28900		100	ug/L	EPA 6010B	
Manganese	419		10.0	ug/L	EPA 6010B	
Nickel	61.0		10.0	ug/L	EPA 6010B	
Nitrate as N	0.14		0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.14	B	0.10	mg/L	EPA 353.2	J-01
Phosphorus	0.40		0.10	mg/L	EPA 365.4	
Potassium	4270		500	ug/L	EPA 6010B	
Sodium	25800		500	ug/L	EPA 6010B	
Total Alkalinity	76	B	15	mg/L	EPA 310.2	QB-01
Total Dissolved Solids	420		10	mg/L	EPA 160.1	
Total Suspended Solids	1400		1.0	mg/L	EPA 160.2	
Vanadium	61.2		10.0	ug/L	EPA 6010B	
Zinc	210		10.0	ug/L	EPA 6010B	

Client ID: MW-3 Lab ID: C809306-01RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate as SO4	130	D	25	mg/L	EPA 300.0	

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ANALYTICAL RESULTS

Description: MW-3
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C809306-01
Sampled: 08/25/08 13:52
Sampled By: Mike Iwashchenko

Received: 08/26/08 10:30
Work Order: C809306

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**26000**		ug/L	1	17	100	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Antimony [7440-36-0] ^	1.0	U	ug/L	1	1.0	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Arsenic [7440-38-2] ^	**17.4**		ug/L	1	2.8	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Barium [7440-39-3] ^	**97.6**		ug/L	1	1.00	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Beryllium [7440-41-7] ^	**0.50**	J	ug/L	1	0.10	1.00	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Boron [7440-42-8] ^	**44.2**	J	ug/L	1	5.0	50.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Calcium [7440-70-2] ^	**66900**		ug/L	1	20.0	100	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Chromium [7440-47-3] ^	**46.7**		ug/L	1	1.0	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Cobalt [7440-48-4] ^	**35.6**		ug/L	1	1.1	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Copper [7440-50-8] ^	**13.0**	B	ug/L	1	1.60	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	J-01
Iron [7439-89-6] ^	**43800**		ug/L	1	22	50	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Lead [7439-92-1] ^	**19.4**		ug/L	1	1.9	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Magnesium [7439-95-4] ^	**28900**		ug/L	1	23	100	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Manganese [7439-96-5] ^	**419**		ug/L	1	1.1	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Mercury [7439-97-6] ^	0.11	U	ug/L	1	0.11	0.20	8I03019	EPA 7470A	09/05/08 11:31	MPL	
Molybdenum [7439-98-7] ^	2.5	U	ug/L	1	2.5	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Nickel [7440-02-0] ^	**61.0**		ug/L	1	1.8	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Potassium [7440-09-7] ^	**4270**		ug/L	1	150	500	8I04001	EPA 6010B	09/09/08 11:58	VLO	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Sodium [7440-23-5] ^	**25800**		ug/L	1	400	500	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Vanadium [7440-62-2] ^	**61.2**		ug/L	1	1.4	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	
Zinc [7440-66-6] ^	**210**		ug/L	1	3.8	10.0	8I04001	EPA 6010B	09/08/08 11:51	VLO	

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Description: MW-3
Matrix: Ground Water
Project: Fly Ash

Lab Sample ID: C809306-01
Sampled: 08/25/08 13:52
Sampled By: Mike Iwashchenko

Received: 08/26/08 10:30
Work Order: C809306

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chloride [16887-00-6]	**46**		mg/L	1	0.50	5.0	8H27012	SM4500-Cl/E	08/27/08 14:25	PEV	
Fluoride [16984-48-8]	**0.45**		mg/L	1	0.01	0.20	8H26024	EPA 300.0	08/27/08 02:33	PEV	
Nitrate as N [14797-55-8]	**0.14**		mg/L	1	0.010	0.10	8H31005	EPA 353.2	08/31/08 13:06	PEV	
Nitrate/Nitrite as N [NA]	**0.14**	B	mg/L	1	0.017	0.10	8H26023	EPA 353.2	08/27/08 12:40	PEV	J-01
Nitrite as N [14797-65-0]	0.010	U	mg/L	1	0.010	0.10	8H27005	EPA 353.2	08/27/08 10:17	PEV	
Phosphorus [7723-14-0]	**0.40**		mg/L	1	0.050	0.10	8I02026	EPA 365.4	09/04/08 15:54	PEV	
Sulfate as SO4 [14808-79-8]	**130**	D	mg/L	5	0.26	25	8H26024	EPA 300.0	08/27/08 03:53	PEV	
Total Alkalinity [NA]	**76**	B	mg/L	1	2.7	15	8H27011	EPA 310.2	08/27/08 14:48	PEV	QB-01
Total Dissolved Solids [NA]	**420**		mg/L	1	10	10	8H26027	EPA 160.1	08/28/08 16:55	JOC	
Total Suspended Solids [NA]	**1400**		mg/L	1	1.0	1.0	8H28015	EPA 160.2	09/04/08 13:18	FLT	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8I03019 - EPA 7470A

Blank (8I03019-BLK1) Prepared: 09/03/2008 11:35 Analyzed: 09/05/2008 10:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8I03019-BS1) Prepared: 09/03/2008 11:35 Analyzed: 09/05/2008 10:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.16		0.20	ug/L	5.00		103	87-123			

Matrix Spike (8I03019-MS1) Prepared: 09/03/2008 11:35 Analyzed: 09/05/2008 10:55

Source: C808446-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.86		0.20	ug/L	5.00	0.11 U	77	63-132			

Matrix Spike Dup (8I03019-MSD1) Prepared: 09/03/2008 11:35 Analyzed: 09/05/2008 10:58

Source: C808446-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.90		0.20	ug/L	5.00	0.11 U	78	63-132	1	10	

Post Spike (8I03019-PS1) Prepared: 09/03/2008 11:35 Analyzed: 09/05/2008 11:01

Source: C808446-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.68		0.20	ug/L	5.00	-0.05	75	0-200			

Batch 8I04001 - EPA 3005A

Blank (8I04001-BLK1) Prepared: 09/04/2008 06:33 Analyzed: 09/08/2008 10:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	17	U	100	ug/L							
Antimony	1.0	U	10.0	ug/L							
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.10	U	1.00	ug/L							
Boron	5.0	U	50.0	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Calcium	20.0	U	100	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	**4.30**	**J**	10.0	ug/L							J-01
Iron	22	U	50	ug/L							
Lead	1.9	U	10.0	ug/L							
Magnesium	23	U	100	ug/L							
Manganese	1.1	U	10.0	ug/L							
Molybdenum	2.5	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8I04001 - EPA 3005A

Blank (8I04001-BLK1) Continued Prepared: 09/04/2008 06:33 Analyzed: 09/09/2008 11:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Potassium	150	U	500	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Sodium	400	U	500	ug/L							
Thallium	4.8	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8I04001-BS1) Prepared: 09/04/2008 06:33 Analyzed: 09/09/2008 11:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5010		100	ug/L	5000		100	77-130			
Antimony	255		10.0	ug/L	250		102	82-119			
Arsenic	517		10.0	ug/L	500		103	82-117			
Barium	517		10.0	ug/L	500		103	72-125			
Beryllium	262		1.00	ug/L	250		105	75-121			
Boron	532		50.0	ug/L	500		106	75-122			
Cadmium	269		1.00	ug/L	250		108	72-120			
Calcium	5100		100	ug/L	5000		102	81-111			
Chromium	503		10.0	ug/L	500		101	78-119			
Cobalt	498		10.0	ug/L	500		100	76-117			
Copper	253	B	10.0	ug/L	250		101	80-117			
Iron	5080		50	ug/L	5000		102	84-133			
Lead	509		10.0	ug/L	500		102	72-121			
Magnesium	5370		100	ug/L	5000		107	81-117			
Manganese	250		10.0	ug/L	250		100	76-123			
Molybdenum	230		10.0	ug/L	250		92	81-110			
Nickel	526		10.0	ug/L	500		105	78-116			
Potassium	23300		500	ug/L	25000		93	84-112			
Selenium	522		10.0	ug/L	500		104	82-127			
Silver	48.9		10.0	ug/L	50.0		98	80-128			
Sodium	23200		500	ug/L	25000		93	81-120			
Thallium	255		10.0	ug/L	250		102	79-118			
Vanadium	243		10.0	ug/L	250		97	78-117			
Zinc	516		10.0	ug/L	500		103	80-120			

Matrix Spike (8I04001-MS1) Prepared: 09/04/2008 06:33 Analyzed: 09/09/2008 11:42

Source: C808131-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5090		100	ug/L	5000	143	99	78-125			
Antimony	250		10.0	ug/L	250	1.0 U	100	38-138			
Arsenic	516		10.0	ug/L	500	3.1	103	64-126			
Barium	1060		10.0	ug/L	500	543	102	74-119			
Beryllium	256		1.00	ug/L	250	0.10 U	102	70-131			
Boron	827		50.0	ug/L	500	295	106	77-114			
Cadmium	249		1.00	ug/L	250	0.36 U	100	68-121			
Calcium	264000		100	ug/L	5000	260000	82	63-131			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8I04001 - EPA 3005A

Matrix Spike (8I04001-MS1) Continued Prepared: 09/04/2008 06:33 Analyzed: 09/09/2008 11:42

Source: C808131-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	463		10.0	ug/L	500	1.0 U	93	73-120			
Cobalt	495		10.0	ug/L	500	31.9	93	76-120			
Copper	250	B	10.0	ug/L	250	2.60	99	75-123			
Iron	6380		50	ug/L	5000	1410	99	48-144			
Lead	475		10.0	ug/L	500	1.9 U	95	68-126			
Magnesium	158000		100	ug/L	5000	152000	120	59-129			
Manganese	6300		10.0	ug/L	250	6070	92	55-146			
Molybdenum	219		10.0	ug/L	250	2.5 U	87	72-118			
Nickel	501		10.0	ug/L	500	10.2	98	64-126			
Potassium	37900		500	ug/L	25000	8730	117	53-121			
Selenium	512		10.0	ug/L	500	2.7 U	102	65-129			
Silver	48.2		10.0	ug/L	50.0	1.9 U	96	69-121			
Sodium	62300		500	ug/L	25000	34800	110	29-171			
Thallium	242		10.0	ug/L	250	4.8 U	97	67-135			
Vanadium	194		10.0	ug/L	250	1.4 U	78	71-130			
Zinc	467		10.0	ug/L	500	3.8 U	93	63-131			

Matrix Spike Dup (8I04001-MSD1) Prepared: 09/04/2008 06:33 Analyzed: 09/09/2008 11:49

Source: C808131-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	5060		100	ug/L	5000	143	98	78-125	0.6	22	
Antimony	254		10.0	ug/L	250	1.0 U	102	38-138	2	30	
Arsenic	507		10.0	ug/L	500	3.1	101	64-126	2	12	
Barium	1040		10.0	ug/L	500	543	100	74-119	1	11	
Beryllium	254		1.00	ug/L	250	0.10 U	102	70-131	0.6	21	
Boron	818		50.0	ug/L	500	295	105	77-114	1	11	
Cadmium	248		1.00	ug/L	250	0.36 U	99	68-121	0.4	12	
Calcium	259000		100	ug/L	5000	260000	NR	63-131	2	22	QM-07
Chromium	460		10.0	ug/L	500	1.0 U	92	73-120	0.6	10	
Cobalt	496		10.0	ug/L	500	31.9	93	76-120	0.2	17	
Copper	248	B	10.0	ug/L	250	2.60	98	75-123	0.7	16	
Iron	6340		50	ug/L	5000	1410	98	48-144	0.7	23	
Lead	479		10.0	ug/L	500	1.9 U	96	68-126	0.9	19	
Magnesium	155000		100	ug/L	5000	152000	70	59-129	2	22	
Manganese	6200		10.0	ug/L	250	6070	50	55-146	2	19	QM-07
Molybdenum	222		10.0	ug/L	250	2.5 U	89	72-118	1	12	
Nickel	499		10.0	ug/L	500	10.2	98	64-126	0.4	12	
Potassium	37700		500	ug/L	25000	8730	116	53-121	0.6	20	
Selenium	522		10.0	ug/L	500	2.7 U	104	65-129	2	10	
Silver	47.5		10.0	ug/L	50.0	1.9 U	95	69-121	1	12	
Sodium	61700		500	ug/L	25000	34800	108	29-171	0.9	21	
Thallium	246		10.0	ug/L	250	4.8 U	99	67-135	2	13	
Vanadium	193		10.0	ug/L	250	1.4 U	77	71-130	0.7	16	
Zinc	467		10.0	ug/L	500	3.8 U	93	63-131	0.02	24	

Classical Chemistry Parameters - Quality Control

QUALITY CONTROL

Batch 8H26023 - NO PREP

Blank (8H26023-BLK1) Prepared: 08/27/2008 07:00 Analyzed: 08/27/2008 11:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	**0.044**	**J**	0.10	mg/L							

LCS (8H26023-BS1) Prepared: 08/27/2008 07:00 Analyzed: 08/27/2008 11:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3	B	0.10	mg/L	1.25		106	80-120			

Matrix Spike (8H26023-MS1) Prepared: 08/27/2008 07:00 Analyzed: 08/27/2008 12:15

Source: C808446-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.5	B	0.10	mg/L	1.28	0.049	111	80-120			

Matrix Spike Dup (8H26023-MSD1) Prepared: 08/27/2008 07:00 Analyzed: 08/27/2008 12:17

Source: C808446-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4	B	0.10	mg/L	1.28	0.049	108	80-120	2	25	

Batch 8H26024 - Same

Blank (8H26024-BLK1) Prepared: 08/26/2008 14:36 Analyzed: 08/26/2008 16:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.01	U	0.20	mg/L							
Sulfate as SO4	0.05	U	5.0	mg/L							

LCS (8H26024-BS1) Prepared: 08/26/2008 14:36 Analyzed: 08/26/2008 17:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.96		0.20	mg/L	1.00		96	90-110			
Sulfate as SO4	48		5.0	mg/L	50.0		97	90-110			

Matrix Spike (8H26024-MS1) Prepared: 08/26/2008 14:36 Analyzed: 08/26/2008 23:00

Source: C808584-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.1		0.20	mg/L	1.00	0.22	89	90-110			QM-07
Sulfate as SO4	80		5.0	mg/L	50.0	31	99	90-110			

Matrix Spike Dup (8H26024-MSD1) Prepared: 08/26/2008 14:36 Analyzed: 08/26/2008 23:26

Source: C808584-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	1.2		0.20	mg/L	1.00	0.22	93	90-110	4	10	
Sulfate as SO4	81		5.0	mg/L	50.0	31	101	90-110	0.9	10	

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8H26027 - NO PREP

Blank (8H26027-BLK1) Prepared: 08/27/2008 18:00 Analyzed: 08/28/2008 16:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (8H26027-BS1) Prepared: 08/27/2008 18:00 Analyzed: 08/28/2008 16:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	300		10	mg/L	300		99	90-110			

Duplicate (8H26027-DUP1) Prepared: 08/27/2008 18:00 Analyzed: 08/28/2008 16:55

Source: C808584-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	13000		10	mg/L		12000			7	10	

Batch 8H27005 - NO PREP

Blank (8H27005-BLK1) Prepared: 08/27/2008 07:33 Analyzed: 08/27/2008 10:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	**0.014**	**J**	0.10	mg/L							

LCS (8H27005-BS1) Prepared: 08/27/2008 07:33 Analyzed: 08/27/2008 10:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.93	B	0.10	mg/L	1.00		93	80-120			

Matrix Spike (8H27005-MS1) Prepared: 08/27/2008 07:33 Analyzed: 08/27/2008 10:13

Source: C808209-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.10	mg/L	1.00	0.033	98	80-120			

Matrix Spike Dup (8H27005-MSD1) Prepared: 08/27/2008 07:33 Analyzed: 08/27/2008 10:14

Source: C808209-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.10	mg/L	1.00	0.033	99	80-120	0.7	25	

Batch 8H27011 - NO PREP

Blank (8H27011-BLK1) Prepared: 08/27/2008 11:24 Analyzed: 08/27/2008 14:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	**3.4**	**JE**	15	mg/L							

LCS (8H27011-BS1) Prepared: 08/27/2008 11:24 Analyzed: 08/27/2008 14:47

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8H27011 - NO PREP

LCS (8H27011-BS1) Continued Prepared: 08/27/2008 11:24 Analyzed: 08/27/2008 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	96	B	15	mg/L	100		96	80-120			

Matrix Spike (8H27011-MS1) Prepared: 08/27/2008 11:24 Analyzed: 08/27/2008 14:49

Source: C809306-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	170	B	15	mg/L	100	76	96	80-120			

Matrix Spike Dup (8H27011-MSD1) Prepared: 08/27/2008 11:24 Analyzed: 08/27/2008 14:50

Source: C809306-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	170	B	15	mg/L	100	76	96	80-120	0.3	25	

Batch 8H27012 - NO PREP

Blank (8H27012-BLK1) Prepared: 08/27/2008 11:25 Analyzed: 08/27/2008 14:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	0.50	U	5.0	mg/L							

LCS (8H27012-BS1) Prepared: 08/27/2008 11:25 Analyzed: 08/27/2008 14:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100		5.0	mg/L	100		103	80-120			

Matrix Spike (8H27012-MS1) Prepared: 08/27/2008 11:25 Analyzed: 08/27/2008 14:26

Source: C809306-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	140		5.0	mg/L	100	46	95	80-120			

Matrix Spike Dup (8H27012-MSD1) Prepared: 08/27/2008 11:25 Analyzed: 08/27/2008 14:26

Source: C809306-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	150		5.0	mg/L	100	46	100	80-120	3	25	

Batch 8H28015 - NO PREP

Blank (8H28015-BLK1) Prepared: 08/28/2008 12:40 Analyzed: 09/04/2008 13:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (8H28015-BS1) Prepared: 08/28/2008 12:40 Analyzed: 09/04/2008 13:18

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8H28015 - NO PREP

LCS (8H28015-BS1) Continued Prepared: 08/28/2008 12:40 Analyzed: 09/04/2008 13:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	86		1.0	mg/L	80.0		108	82-119			

Duplicate (8H28015-DUP1) Prepared: 08/28/2008 12:40 Analyzed: 09/04/2008 13:18

Source: C808209-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	4800		1.0	mg/L		4800			0	10	

Batch 8I02026 - Same

Blank (8I02026-BLK1) Prepared: 09/03/2008 13:25 Analyzed: 09/04/2008 15:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8I02026-BS1) Prepared: 09/03/2008 13:25 Analyzed: 09/04/2008 15:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.7		0.10	mg/L	1.60		105	80-120			

Matrix Spike (8I02026-MS1) Prepared: 09/03/2008 13:25 Analyzed: 09/04/2008 15:27

Source: C807436-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.7		0.10	mg/L	1.60	0.050 U	104	80-120			

Matrix Spike Dup (8I02026-MSD1) Prepared: 09/03/2008 13:25 Analyzed: 09/04/2008 15:29

Source: C807436-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.7		0.10	mg/L	1.60	0.050 U	104	80-120	0.5	25	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Client Name: KHA	Project Number: 116436000.2
Address: 501 Independence Pkwy Suite 300	Project Name/Date: Battlefield Golf Club
City/State: Chesapeake VA 23320	PO A/Billing Info: 116436000.2
Tel: 757 548-7354 Fax: 757 609-3364	Reporting Contact: Mike I.
Sampler(s) Name, Affiliation (Print): Mike Iwashchenko / KHA	Billing Contact: Mike I
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

X Standard

__ Expedited

Due __/__/__

Lab Workorder: C809306

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp/Grab	Matrix (see codes)	Total # of Containers	Metals 6000-7000 Series: Al, Sb, As, Ba	Be, B, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni	Se, Ag, Tl, U, Zn, K, Na, Ca	Chloride SM 4500 Cl/E	Sulfate 504 Fluoride (300.0)	Nitrate/Nitrite as N 353.2	Phosphorous 365.4		Total Alkalinity 310.2	TSS 160.2 TDS 160.1	Sample Comments
	MW-3	8/25/08	1:36-1:52	G	GW		X	X	X	X	X	X	X		X	X	Fly-ASH

<-- Total # of Containers

Sample Not Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
				Briana Gregory	8/26/08 10:30
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler Ins & Temp on Receipt: 3 °C		Condition Upon Receipt: __ Acceptable __ Unacceptable	

Note: GW Groundwater SD Soil SE Sediment SW Surface Water WW Wastewater A/Ar O Other (detail in comments)

Preservation: Lime H PO N NaOH S NaOH NO NaOH O Other (detail in comments)

Note: All samples subject to [illegible] on the reverse of the form, unless prior written agreements exist.

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In order to quantitatively analyze the transport of Constituents of Concern (COC) through the water table aquifer, a calculation of groundwater velocity is required. The rate of groundwater flow, or seepage velocity of groundwater movement, beneath the site was determined by the following equation:

$$V_s = (K/n)(dh/dl)$$

where:

V_s	=	rate of groundwater flow (feet/day);
K	=	hydraulic conductivity (feet/day); and
n_e	=	estimated effective porosity factor for medium grained sands is 32% (0.32).
dh/dl	=	water table gradient (feet/feet);

On June 17, 2008, three rising-head permeability tests (slug test) were conducted in monitoring wells MW-1, MW-2, and MW-3 to determine the approximate hydraulic conductivity (K) of the unconfined water table aquifer. The slug tests were accomplished by withdrawing a volume (or slug) of water from each of the three monitoring wells. An electric submersible pump and purge tubing were used to evacuate 20 gallons of groundwater from within the well. Once a lower water level was attained within the slug test well, the rate of groundwater recovery was measured at specific time intervals using a Keck interface probe. Hydraulic conductivity was then calculated using the Bouwer-Rice solution for an unconfined aquifer by computer analysis via AQTESOLV, as developed by Glenn M. Duffield, 1989. According to the AQTESOLV instructions, "for most slug tests, one should use visual matching to obtain the most meaningful estimate of hydraulic conductivity with the Bouwer-Rice solution because visual matching gives you greater control over the range of data that you want to match with a straight line." Subsequently, visual matching was used to determine hydraulic conductivity instead of the automatic matching provided by the computer program. The following describes the values used to estimate groundwater flow velocity.

Hydraulic conductivity (K) is defined as the discharge of water through a cross-sectional area of an aquifer under a unit hydraulic gradient. Hydraulic conductivities for MW-1, MW-2 and MW-3 were determined by AQTESOLV to be 1.449 feet/day, 1.491 feet/ day and 2.116 feet/day, respectively.

Porosity (n) is defined as the part of the rock, or sediment media that is void space. Porosity is expressed as a percentage of void space versus the total volume of the media. Porosity values for sedimentary materials range from 26% in fine sands to 60% in silt and clay (Dominico and Swartz, 1988). An effective porosity (n_e) value of 32% is estimated for medium grained sands.

The groundwater gradient (dh/dl) across the site is illustrated as the potentiometric surface. Groundwater gradient equals the change in water table elevation divided by a distance where groundwater flow takes place from high to low potential. Distance is measured in the down-gradient direction. Monitoring well MW-1 is located 428.65 and 363.10 feet down-gradient of monitoring well MW-3 and MW-2, respectively. The average groundwater elevation of 5.62 feet for MW-1 minus the water elevation of 6.43 feet for MW-3 equals a change of 0.81 feet.

Subsequently, a groundwater gradient of 1.89×10^{-3} feet/feet was calculated between monitoring wells MW-1 and MW-3 for the four gauging events (Table 3). The average groundwater elevation of 5.62 feet for MW-1 minus the water elevation of 6.23 feet for MW-2 equals a change of 0.61 feet. Subsequently, a groundwater gradient of 1.68×10^{-3} feet/feet was calculated between monitoring wells MW-1 and MW-2 for the four gauging events (Table 3). Using the above values and recorded measurements, groundwater flow velocity for the three slug tests were calculated to equal:

MW-1	V_s	=	(K/n)(dh/dl)
		=	(1.449 feet/day / 0.32) (1.88×10^{-3} feet/feet)
	V_s	=	8.51×10^{-3} feet/day or 3.11 feet/year
MW-2	V_s	=	(K/n)(dh/dl)
		=	(1.491 feet/day / 0.32) (1.68×10^{-3} feet/feet)
	V_s	=	7.83×10^{-3} feet/day or 2.86 feet/year
MW-3	V_s	=	(K/n)(dh/dl)
		=	(2.116 feet/day / 0.32) (1.88×10^{-3} feet/feet)
	V_s	=	5.88×10^{-3} feet/day or 2.15 feet/year

As noted above, the average rate of groundwater flow velocity (V) for MW-1, MW-2, and MW-3 were calculated to be 8.51×10^{-3} feet/day, 7.83×10^{-3} feet/day, 5.88×10^{-3} feet/day, respectively. If 8.51×10^{-3} feet/day, 7.83×10^{-3} feet/day, 5.88×10^{-3} feet/day is each multiplied by 365.25 days/year, then V equals 3.11 feet/year for MW-1, 2.86 feet/year for MW-2, and 2.15 feet/year for MW-3. Thus, the average onsite seepage velocity (V_s) is calculated at 2.71 feet/year.

Fluctuations in groundwater flow direction, gradient, and velocity can occur at the site and are typically attributed to variations in the subsurface materials located beneath the site or seasonal variations in recharge and discharge. It should also be noted that the velocity of constituents of concern are generally lower than groundwater seepage velocity due to the effects of dispersion and absorption. Processes such as variation in geologic and lithologic conditions, organic carbon content, dilution, natural attenuation, and biodegradation will affect the migration rates.

TABLE 3. GROUNDWATER MONITORING DATA
1001 South Centerville Turnpike
Chesapeake, Virginia
KHA Project No.: 116436000

WELL I.D.	MW-1	MW-2	MW-3
Install Date:	5/15/2008	5/15/2008	5/15/2008
Gauging Date	Depth to Water	Depth to Water	Depth to Water
5/29/2008	5.00	3.75	2.17
6/11/2008	5.49	4.17	2.53
6/12/2008	5.54	4.25	2.62
6/17/2008	5.49	4.22	2.61
AVERAGE	5.38	4.10	2.48

Average onsite Depth to Water is **3.99**

WELL I.D.	MW-1	MW-2	MW-3
TOW Elev.	11.32	10.67	9.23
TOC ELEV.	11.00	10.33	8.91
Gauging Date	Water Elevation	Water Elevation	Water Elevation
5/29/2008	6.00	6.58	6.74
6/11/2008	5.51	6.16	6.38
6/12/2008	5.46	6.08	6.29
6/17/2008	5.51	6.11	6.30
AVERAGE	5.62	6.23	6.43

Average Onsite Water Elevation is **6.09**

Notes:
All groundwater data is presented in feet.
Depth to water is measured in feet from marked top of casing.
Monitor well MW-1 assumed arbitrary elevation of 11.00 feet NGVD.
TOW denotes Top of Well (manhole cover).
Top of casing (TOC) well survey event performed by KHA on May 30,

Spread Sheet for Slug Test Data Calculations MW-1

Static Water Table (Depth to Water from TOC):	5.49
Maximun draw-down depth (start of slug test measurements)	6.42
Depth to Well Bottom (Feet):	22
Initial Displacement (change in water level relative to static water table condition) (G6-G5=):	0.93

Well Casing Radii:
- 1-inch = 0.0667 feet
- 2-inch = 0.17 feet
- 4-inch =
- 6-inch =

Borehole Radius:
- Geoprobe Spoon = 0.1667 feet
- Sm. Hand Auger = 0.27 feet
- Lg. Hand Auger = 0.34 feet
- Hollow Stem Auger = 8.25 feet

Screen Length = Total length of screen interval for entire well.
Gravel Pack Porosity N(e) = 0.32 for medium grained sands
Water Column Height = Depth of well bottom to Static (G6-G4=) 16.51
Saturated Thickness = Estimated 20 feet for Coastal Plain.

Time (seconds)	Depth to Water (ft)	Time(sec)	Displacement
0	6.42	0	0.93
9	6.25	9	0.76
12	6.20	12	0.71
15	6.15	15	0.66
20	6.10	20	0.61
26	6.05	26	0.56
29	6.00	29	0.51
30	5.95	30	0.46
46	5.90	46	0.41
56	5.85	56	0.36
71	5.80	71	0.31
79	5.78	79	0.29
92	5.75	92	0.26
103	5.73	103	0.24
110	5.72	110	0.23
125	5.70	125	0.21
137	5.69	137	0.20
143	5.69	143	0.20
159	5.67	159	0.18
165	5.67	165	0.18
176	5.66	176	0.17
197	5.65	197	0.16
218	5.65	218	0.16
229	5.63	229	0.14
237	5.63	237	0.14
265	5.63	265	0.14
275	5.63	275	0.14
285	5.63	285	0.14

295	5.63	295	0.14
299	5.62	299	0.13
321	5.61	321	0.12
347	5.60	347	0.11
355	5.60	355	0.11
365	5.60	365	0.11
375	5.60	375	0.11
385	5.60	385	0.11
395	5.60	395	0.11
405	5.60	405	0.11
434	5.59	434	0.10
445	5.59	445	0.10
455	5.59	455	0.10
465	5.59	465	0.10
500	5.59	500	0.10
515	5.59	515	0.10
525	5.59	525	0.10
535	5.59	535	0.10
545	5.59	545	0.10
585	5.59	585	0.10
600	5.59	600	0.10
616	5.57	616	0.08
625	5.57	625	0.08
645	5.57	645	0.08
665	5.57	665	0.08
700	5.57	700	0.08
715	5.57	715	0.08
725	5.57	725	0.08
745	5.57	745	0.08
765	5.57	765	0.08
775	5.57	775	0.08
785	5.57	785	0.08
797	5.56	797	0.07
805	5.56	805	0.07
815	5.56	815	0.07
835	5.56	835	0.07
855	5.56	855	0.07
868	5.55	868	0.06
875	5.55	875	0.06
885	5.55	885	0.06
905	5.55	905	0.06
925	5.55	925	0.06
945	5.55	945	0.06
965	5.55	965	0.06
985	5.55	985	0.06
995	5.55	995	0.06
1005	5.55	1005	0.06
1045	5.55	1045	0.06
1065	5.55	1065	0.06
1085	5.55	1085	0.06
1100	5.55	1100	0.06

1115	5.55	1115	0.06
1135	5.55	1135	0.06
1165	5.55	1165	0.06
1185	5.55	1185	0.06
1200	5.55	1200	0.06
1225	5.55	1225	0.06
1245	5.55	1245	0.06
1255	5.55	1255	0.06
1265	5.55	1265	0.06
1285	5.55	1285	0.06
1300	5.55	1300	0.06
1316	5.53	1316	0.04
1335	5.53	1335	0.04
1356	5.53	1356	0.04
1385	5.53	1385	0.04
1400	5.53	1400	0.04
1415	5.53	1415	0.04
1435	5.53	1435	0.04
1445	5.53	1445	0.04
4685	5.53	4685	0.04
1500	5.53	1500	0.04
1535	5.53	1535	0.04
1565	5.53	1565	0.04
1600	5.53	1600	0.04
1615	5.53	1615	0.04
1625	5.53	1625	0.04
1645	5.53	1645	0.04
1655	5.53	1655	0.04
1685	5.53	1685	0.04
1700	5.53	1700	0.04
1715	5.53	1715	0.04
1725	5.53	1725	0.04
1745	5.53	1745	0.04
1765	5.53	1765	0.04
1775	5.53	1775	0.04
1786	5.53	1786	0.04
1800	5.53	1800	0.04
1815	5.53	1815	0.04
1835	5.53	1835	0.04
1845	5.53	1845	0.04
1865	5.53	1865	0.04
1900	5.53	1900	0.04
1915	5.53	1915	0.04
1935	5.53	1935	0.04
1965	5.53	1965	0.04
1985	5.53	1985	0.04
2000	5.53	2000	0.04
2074	5.52	2074	0.03
2085	5.52	2085	0.03
2100	5.52	2100	0.03
2135	5.52	2135	0.03

2165	5.52	2165	0.03
2185	5.52	2185	0.03
2200	5.52	2200	0.03
2225	5.52	2225	0.03
2265	5.52	2265	0.03
2285	5.52	2285	0.03
2300	5.52	2300	0.03
2315	5.52	2315	0.03
2335	5.52	2335	0.03
2345	5.52	2345	0.03
2365	5.52	2365	0.03
2385	5.52	2385	0.03
2400	5.52	2400	0.03

Data Set: Q:\Project Files\City of Chesapeake On-Call Env-116177000\Battlefield Golf Club at Centerville\Phase
Title: MW-1 SLUG TEST
Date: 06/23/08
Time: 16:10:51

PROJECT INFORMATION

Company: Kimley-Horn and Associates
Client: City of Chesapeake
Project: 116436000
Location: Battlefield Golf Course
Test Date: June 17, 2008
Test Well: MW-1

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: New Well

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1. ft
Static Water Column Height: 1. ft
Casing Radius: 0.1722 ft
Well Radius: 0.1979 ft
Well Skin Radius: 0.6875 ft
Screen Length: 20. ft
Total Well Penetration Depth: 22. ft
Corrected Casing Radius (Bouwer-Rice Method): 0.1697 ft
Gravel Pack Porosity: 0.32

No. of Observations: 142

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.93	965.	0.06
9.	0.76	985.	0.06
12.	0.71	995.	0.06
15.	0.66	1005.	0.06
20.	0.61	1045.	0.06
26.	0.56	1065.	0.06
29.	0.51	1085.	0.06
30.	0.46	1100.	0.06
46.	0.41	1115.	0.06
56.	0.36	1135.	0.06
71.	0.31	1165.	0.06
79.	0.29	1185.	0.06
92.	0.26	1200.	0.06
103.	0.24	1225.	0.06
110.	0.23	1245.	0.06
125.	0.21	1255.	0.06
137.	0.2	1265.	0.06
143.	0.2	1285.	0.06
159.	0.18	1300.	0.06
165.	0.18	1316.	0.04
176.	0.17	1335.	0.04
197.	0.16	1356.	0.04
218.	0.16	1385.	0.04
229.	0.14	1400.	0.04

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
237.	0.14	1415.	0.04
265.	0.14	1435.	0.04
275.	0.14	1445.	0.04
285.	0.14	1500.	0.04
295.	0.14	1535.	0.04
299.	0.13	1565.	0.04
321.	0.12	1600.	0.04
347.	0.11	1615.	0.04
355.	0.11	1625.	0.04
365.	0.11	1645.	0.04
375.	0.11	1655.	0.04
385.	0.11	1685.	0.04
395.	0.11	1700.	0.04
405.	0.11	1715.	0.04
434.	0.1	1725.	0.04
445.	0.1	1745.	0.04
455.	0.1	1765.	0.04
465.	0.1	1775.	0.04
500.	0.1	1786.	0.04
515.	0.1	1800.	0.04
525.	0.1	1815.	0.04
535.	0.1	1835.	0.04
545.	0.1	1845.	0.04
585.	0.1	1865.	0.04
600.	0.1	1900.	0.04
616.	0.08	1915.	0.04
625.	0.08	1935.	0.04
645.	0.08	1965.	0.04
665.	0.08	1985.	0.04
700.	0.08	2000.	0.04
715.	0.08	2074.	0.03
725.	0.08	2085.	0.03
745.	0.08	2100.	0.03
765.	0.08	2135.	0.03
775.	0.08	2165.	0.03
785.	0.08	2185.	0.03
797.	0.07	2200.	0.03
805.	0.07	2225.	0.03
815.	0.07	2265.	0.03
835.	0.07	2285.	0.03
855.	0.07	2300.	0.03
868.	0.06	2315.	0.03
875.	0.06	2335.	0.03
885.	0.06	2345.	0.03
905.	0.06	2365.	0.03
925.	0.06	2385.	0.03
945.	0.06	2400.	0.03

SOLUTION

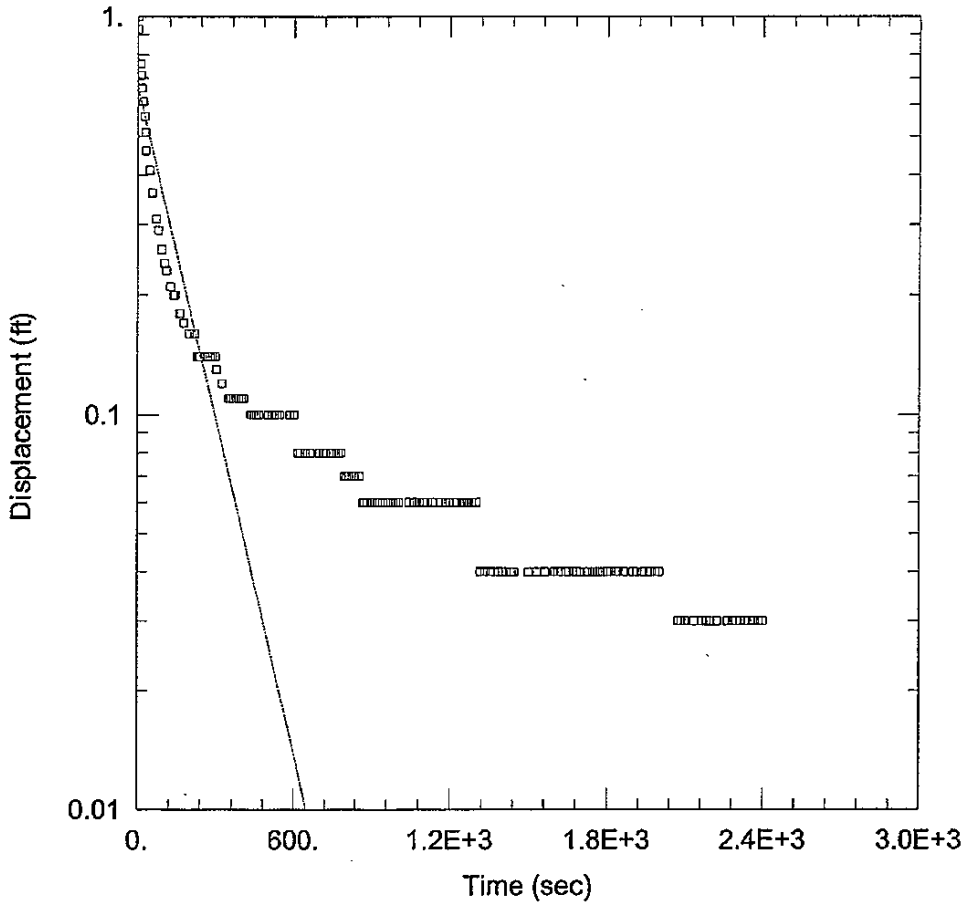
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 3.615

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.449	ft/day
y0	0.6616	ft

K = 0.0005112 cm/sec
T = K*b = 28.98 ft^2/day (0.3116 sq. cm/sec)



MW-1 SLUG TEST

Data Set: Q:\...\MW-1F.aqt
Date: 06/23/08 Time: 16:10:33

PROJECT INFORMATION

Company: Kimley-Horn and Associates
Client: City of Chesapeake
Project: 116436000
Location: Battlefield Golf Course
Test Well: MW-1
Test Date: June 17, 2008

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (New Well)

Initial Displacement: 1. ft
Total Well Penetration Depth: 22. ft
Casing Radius: 0.1722 ft
Static Water Column Height: 1. ft
Screen Length: 20. ft
Well Radius: 0.1979 ft
Gravel Pack Porosity: 0.32

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.449 ft/day
y0 = 0.6616 ft

Spread Sheet for Slug Test Data Calculations MW-2

Static Water Table (Depth to Water from TOC):	4.22
Maximun draw-down depth (start of slug test measurements)	4.75
Depth to Well Bottom (Feet):	22
Initial Displacement (change in water level relative to static water table condition) (G6-G5=):	0.53

Well Casing Radii:
- 1-inch = 0.0667 feet
- 2-inch = 0.17 feet
- 4-inch =
- 6-inch =

Borehole Radius:
- Geoprobe Spoon = 0.1667 feet
- Sm. Hand Auger = 0.27 feet
- Lg. Hand Auger = 0.34 feet
- Hollow Stem Auger = 8.25

Screen Length = Total length of screen interval for entire well.
Gravel Pack Porosity N(e) = 0.32 for medium grained sands
Water Column Height = Depth of well bottom to Static (G6-G4=) 17.78
Saturated Thickness = Estimated 20 feet for Coastal Plain.

Time (min:sec)	Depth to Water (ft)	Time	Displacement
0	4.75	0	0.53
12	4.53	12	0.31
16	4.45	16	0.23
23	4.40	23	0.18
38	4.38	38	0.16
52	4.36	52	0.14
56	4.53	56	0.31
74	4.34	74	0.12
99	4.33	99	0.11
105	4.33	105	0.11
115	4.33	115	0.11
125	4.33	125	0.11
130	4.32	130	0.10
145	4.32	145	0.10
165	4.32	165	0.10
195	4.32	195	0.10
201	4.30	201	0.08
215	4.30	215	0.08
230	4.30	230	0.08
242	4.29	242	0.07
255	4.29	255	0.07
275	4.29	275	0.07
295	4.29	295	0.07
300	4.29	300	0.07
315	4.29	315	0.07
335	4.29	335	0.07
345	4.29	345	0.07
358	4.28	358	0.06
365	4.28	365	0.06

385	4.28	385	0.06
405	4.28	405	0.06
425	4.28	425	0.06
445	4.28	445	0.06
465	4.28	465	0.06
485	4.28	485	0.06
500	4.28	500	0.06
518	4.27	518	0.05
535	4.27	535	0.05
545	4.27	545	0.05
585	4.27	585	0.05
600	4.27	600	0.05
615	4.27	615	0.05
625	4.27	625	0.05
645	4.27	645	0.05
665	4.27	665	0.05
685	4.27	685	0.05
700	4.27	700	0.05
715	4.27	715	0.05
725	4.27	725	0.05
752	4.26	752	0.04
765	4.26	765	0.04
775	4.26	775	0.04
795	4.26	795	0.04
800	4.26	800	0.04
815	4.26	815	0.04
825	4.26	825	0.04
845	4.26	845	0.04
865	4.26	865	0.04
885	4.26	885	0.04
900	4.26	900	0.04
915	4.26	915	0.04
935	4.26	935	0.04
965	4.26	965	0.04
985	4.26	985	0.04
1004	4.24	1004	0.02
1015	4.24	1015	0.02
1035	4.24	1035	0.02
1065	4.24	1065	0.02
1085	4.24	1085	0.02
1100	4.24	1100	0.02
1145	4.24	1145	0.02
1165	4.24	1165	0.02
1195	4.24	1195	0.02
1200	4.24	1200	0.02
1225	4.24	1225	0.02
1245	4.24	1245	0.02
1285	4.24	1285	0.02
1300	4.24	1300	0.02
1335	4.24	1335	0.02
1365	4.24	1365	0.02
1385	4.24	1385	0.02

1425	4.24	1425	0.02
1445	4.24	1445	0.02
1465	4.24	1465	0.02
1495	4.24	1495	0.02
1500	4.24	1500	0.02
1515	4.24	1515	0.02
1535	4.24	1535	0.02
1552	4.23	1552	0.01
1665	4.23	1665	0.01
1575	4.23	1575	0.01
1595	4.23	1595	0.01
1600	4.23	1600	0.01
1635	4.23	1635	0.01
1685	4.23	1685	0.01
1695	4.23	1695	0.01
1700	4.23	1700	0.01
1725	4.23	1725	0.01
1765	4.23	1765	0.01
1785	4.23	1785	0.01
1800	4.23	1800	0.01
1815	4.23	1815	0.01
1845	4.23	1845	0.01
1865	4.23	1865	0.01
1900	4.23	1900	0.01
1925	4.23	1925	0.01
1955	4.23	1955	0.01
1985	4.23	1985	0.01
2000	4.23	2000	0.01
2025	4.23	2025	0.01
2056	4.23	2056	0.01
2085	4.23	2085	0.01
2100	4.23	2100	0.01
2125	4.23	2125	0.01
2145	4.23	2145	0.01
2165	4.23	2165	0.01
2185	4.23	2185	0.01
2200	4.23	2200	0.01
2225	4.23	2225	0.01
2265	4.23	2265	0.01
2285	4.23	2285	0.01
2300	4.23	2300	0.01
2325	4.23	2325	0.01
2345	4.23	2345	0.01
2365	4.23	2365	0.01
2385	4.23	2385	0.01
2400	4.23	2400	0.01

The Error Log identifies errors detected in your data set.
Choose this view when you see the "Check Errors" indicator on the status bar.

No errors detected in data set.

Tips for Analyzing Aquifer Tests with AQTESOLV for Windows

1. Enter Test Data
   Choose options from the Edit menu to enter or modify test data.
2. Perform Diagnostic Analyses (Optional)
   Choose diagnostic flow plot and derivative plot options from the View menu.
3. Perform Curve Matching or Prediction
   Choose the Solution or Toolbox options from the Match menu to perform forward solution analys
   Choose the Automatic, Visual or Toolbox options from the Match menu to perform curve matchin
4. Analysis of Residuals (Optional)
   Choose residual plot and diagnostic report options from View menu to evaluate automatic curve f
5. Reporting
   Choose Format option from View menu to customize appearance of plots and reports.
   Choose Print Preview and Print options from File menu to obtain hardcopy output.

Data Set Summary

Slug Test
Total no. of observations: 127
Range of time readings in obs. well(s): 0 to 2400 sec
Range of displacement readings in obs. well(s): 0.01 to 0.53 ft

Data Set: Q:\Project Files\City of Chesapeake On-Call Env-116177000\Battlefield Golf Club at Centerville\Phase
Title: MW-2 SLUG TEST
Date: 06/23/08
Time: 16:11:15

PROJECT INFORMATION

Company: Kimley-Horn and Associates
Client: City of Chesapeake
Project: 116436000
Location: Battlefield Golf Course
Test Date: June 17, 2008
Test Well: MW-2

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-2

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.53 ft
Static Water Column Height: 4.22 ft
Casing Radius: 0.1722 ft
Well Radius: 0.1979 ft
Well Skin Radius: 0.6875 ft
Screen Length: 20. ft
Total Well Penetration Depth: 22. ft
Corrected Casing Radius (Bouwer-Rice Method): 0.1697 ft
Gravel Pack Porosity: 0.32

No. of Observations: 127

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.53	1004.	0.02
12.	0.31	1015.	0.02
16.	0.23	1035.	0.02
23.	0.18	1065.	0.02
38.	0.16	1085.	0.02
52.	0.14	1100.	0.02
56.	0.31	1145.	0.02
74.	0.12	1165.	0.02
99.	0.11	1195.	0.02
105.	0.11	1200.	0.02
115.	0.11	1225.	0.02
125.	0.11	1245.	0.02
130.	0.1	1285.	0.02
145.	0.1	1300.	0.02
165.	0.1	1335.	0.02
195.	0.1	1365.	0.02
201.	0.08	1385.	0.02
215.	0.08	1425.	0.02
230.	0.08	1445.	0.02
242.	0.07	1465.	0.02
255.	0.07	1495.	0.02
275.	0.07	1500.	0.02
295.	0.07	1515.	0.02
300.	0.07	1535.	0.02

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
315.	0.07	1552.	0.01
335.	0.07	1575.	0.01
345.	0.07	1595.	0.01
358.	0.06	1600.	0.01
365.	0.06	1635.	0.01
385.	0.06	1665.	0.01
405.	0.06	1685.	0.01
425.	0.06	1695.	0.01
445.	0.06	1700.	0.01
465.	0.06	1725.	0.01
485.	0.06	1765.	0.01
500.	0.06	1785.	0.01
518.	0.05	1800.	0.01
535.	0.05	1815.	0.01
545.	0.05	1845.	0.01
585.	0.05	1865.	0.01
600.	0.05	1900.	0.01
615.	0.05	1925.	0.01
625.	0.05	1955.	0.01
645.	0.05	1985.	0.01
665.	0.05	2000.	0.01
685.	0.05	2025.	0.01
700.	0.05	2056.	0.01
715.	0.05	2085.	0.01
725.	0.05	2100.	0.01
752.	0.04	2125.	0.01
765.	0.04	2145.	0.01
775.	0.04	2165.	0.01
795.	0.04	2185.	0.01
800.	0.04	2200.	0.01
815.	0.04	2225.	0.01
825.	0.04	2265.	0.01
845.	0.04	2285.	0.01
865.	0.04	2300.	0.01
885.	0.04	2325.	0.01
900.	0.04	2345.	0.01
915.	0.04	2365.	0.01
935.	0.04	2385.	0.01
965.	0.04	2400.	0.01
985.	0.04		

SOLUTION

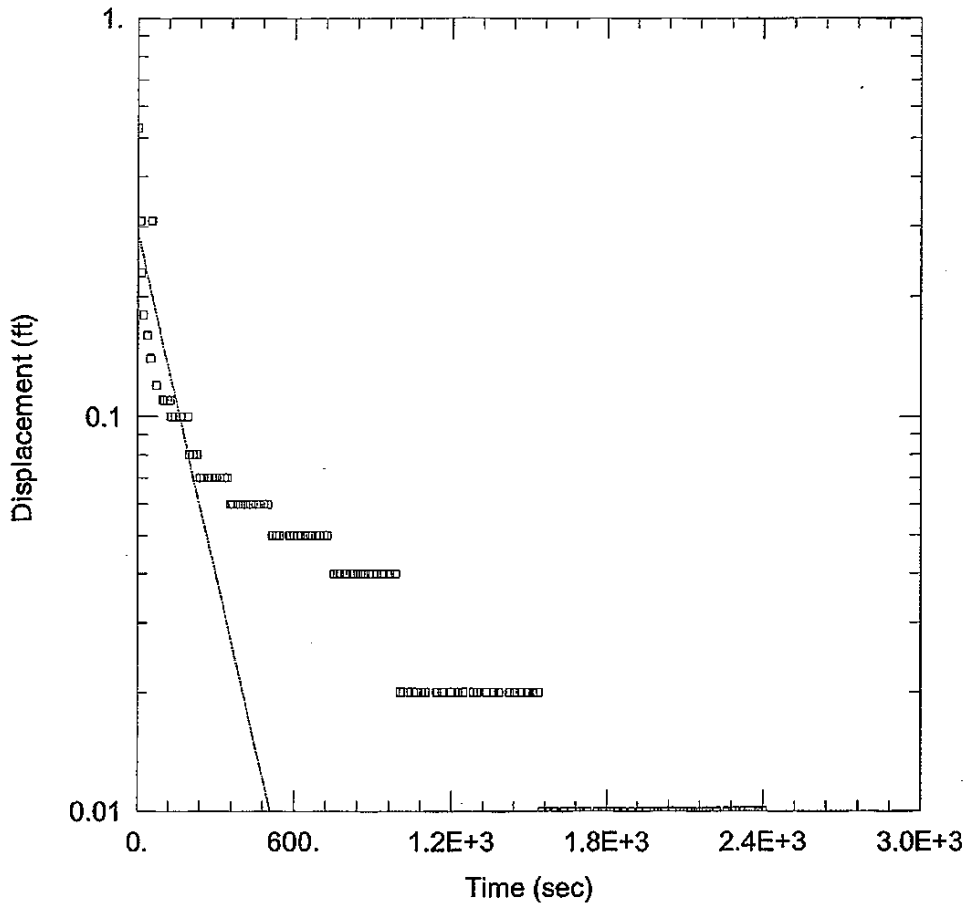
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 3.615

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.491	ft/day
y0	0.2922	ft

K = 0.0005259 cm/sec
T = K*b = 29.81 ft²/day (0.3206 sq. cm/sec)



MW-2 SLUG TEST

Data Set: Q:\...\MW-2.aqt
Date: 06/23/08 Time: 16:11:09

PROJECT INFORMATION

Company: Kimley-Horn and Associates
Client: City of Chesapeake
Project: 116436000
Location: Battlefield Golf Course
Test Well: MW-2
Test Date: June 17, 2008

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-2)

Initial Displacement: 0.53 ft
Total Well Penetration Depth: 22. ft
Casing Radius: 0.1722 ft
Static Water Column Height: 4.22 ft
Screen Length: 20. ft
Well Radius: 0.1979 ft
Gravel Pack Porosity: 0.32

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.491 ft/day
y0 = 0.2922 ft

Spread Sheet for Slug Test Data Calculations MW-3

Static Water Table (Depth to Water from TOC):	2.61
Maximun draw-down depth (start of slug test measurements)	3.35
Depth to Well Bottom (Feet):	22
Initial Displacement (change in water level relative to static water table condition) (G6-G5=):	0.74

Well Casing Radii:
- 1-inch = 0.0667 feet
- 2-inch = 0.17 feet
- 4-inch =
- 6-inch =

Borehole Radius:
- Geoprobe Spoon = 0.1667 feet
- Sm. Hand Auger = 0.27 feet
- Lg. Hand Auger = 0.34 feet
- Hollow Stem Auger = 8.25 feet

Screen Length = Total length of screen interval for entire well.
Gravel Pack Porosity N(e) = 0.32 for medium grained sands
Water Column Height = Depth of well bottom to Static (G6-G4=) 19.39
Saturated Thickness = Estimated 20 feet for Coastal Plain.

Time (min:sec)	Depth to Water (ft)	Time	Displacement
0	3.35	0	0.74
12	3.21	12	0.60
16	3.15	16	0.54
18	3.10	18	0.49
22	3.05	22	0.44
27	3.00	27	0.39
32	2.98	32	0.37
35	2.95	35	0.34
39	2.93	39	0.32
44	2.90	44	0.29
50	2.88	50	0.27
55	2.86	55	0.25
59	2.85	59	0.24
66	2.83	66	0.22
80	2.80	80	0.19
102	2.77	102	0.16
128	2.75	128	0.14
139	2.74	139	0.13
158	2.73	158	0.12
170	2.72	170	0.11
185	2.72	185	0.11
195	2.72	195	0.11
201	2.71	201	0.10
217	2.70	217	0.09
245	2.70	245	0.09
264	2.69	264	0.08
285	2.69	285	0.08
300	2.69	300	0.08
316	2.68	316	0.07

335	2.68	335	0.07
345	2.68	345	0.07
375	2.68	375	0.07
385	2.68	385	0.07
393	2.67	393	0.06
427	2.66	427	0.05
445	2.66	445	0.05
465	2.66	465	0.05
485	2.66	485	0.05
500	2.66	500	0.05
515	2.66	515	0.05
535	2.66	535	0.05
565	2.66	565	0.05
600	2.66	600	0.05
615	2.66	615	0.05
625	2.66	625	0.05
645	2.66	645	0.05
665	2.66	665	0.05
685	2.66	685	0.05
700	2.66	700	0.05
725	2.66	725	0.05
757	2.64	757	0.03
785	2.64	785	0.03
795	2.64	795	0.03
800	2.64	800	0.03
825	2.64	825	0.03
845	2.64	845	0.03
885	2.64	885	0.03
900	2.64	900	0.03
915	2.64	915	0.03
938	2.63	938	0.02
955	2.63	955	0.02
985	2.63	985	0.02
1000	2.63	1000	0.02
1025	2.63	1025	0.02
1045	2.63	1045	0.02
1065	2.63	1065	0.02
1085	2.63	1085	0.02
1100	2.63	1100	0.02
1125	2.63	1125	0.02
1145	2.62	1145	0.01
1165	2.62	1165	0.01
1185	2.62	1185	0.01
1200	2.62	1200	0.01
1225	2.62	1225	0.01
1245	2.62	1245	0.01
1285	2.62	1285	0.01
1300	2.62	1300	0.01
1335	2.62	1335	0.01
1355	2.62	1355	0.01
1385	2.62	1385	0.01
1400	2.62	1400	0.01

1425	2.62	1425	0.01
1455	2.62	1455	0.01
1485	2.62	1485	0.01
1500	2.62	1500	0.01
1525	2.62	1525	0.01
1555	2.62	1555	0.01
1585	2.62	1585	0.01
1600	2.62	1600	0.01
1625	2.62	1625	0.01
1645	2.62	1645	0.01
1685	2.62	1685	0.01
1700	2.62	1700	0.01
1725	2.62	1725	0.01
1750	2.62	1750	0.01
1760	2.62	1760	0.01
1785	2.62	1785	0.01
1800	2.62	1800	0.01
1825	2.62	1825	0.01
1856	2.61	1856	0.00

The Error Log identifies errors detected in your data set.
Choose this view when you see the "Check Errors" indicator on the status bar.

Correct The Following Errors Before Proceeding With Analysis
WARNING: Maximum displacement > initial displacement.

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   Choose Format option from View menu to customize appearance of plots and reports.
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Data Set Summary

Slug Test
Total no. of observations: 100
Range of time readings in obs. well(s): 0 to 1856 sec
Range of displacement readings in obs. well(s): 0 to 0.74 ft

Data Set: Q:\Project Files\City of Chesapeake On-Call Env-116177000\Battlefield Golf Club at Centerville\Phas
Title: MW-3 SLUG TEST
Date: 06/23/08
Time: 16:11:39

PROJECT INFORMATION

Company: Kimley-Horn and Associates
Client: City of Chesapeake
Project: 116436000
Location: Battlefield Golf Course
Test Date: June 17, 2008
Test Well: MW-3

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-3

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.53 ft
Static Water Column Height: 4.22 ft
Casing Radius: 0.1722 ft
Well Radius: 0.1979 ft
Well Skin Radius: 0.6875 ft
Screen Length: 20. ft
Total Well Penetration Depth: 22. ft
Corrected Casing Radius (Bouwer-Rice Method): 0.1697 ft
Gravel Pack Porosity: 0.32

No. of Observations: 100

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.74	757.	0.03
12.	0.6	785.	0.03
16.	0.54	795.	0.03
18.	0.49	800.	0.03
22.	0.44	825.	0.03
27.	0.39	845.	0.03
32.	0.37	885.	0.03
35.	0.34	900.	0.03
39.	0.32	915.	0.03
44.	0.29	938.	0.02
50.	0.27	955.	0.02
55.	0.25	985.	0.02
59.	0.24	1000.	0.02
66.	0.22	1025.	0.02
80.	0.19	1045.	0.02
102.	0.16	1065.	0.02
128.	0.14	1085.	0.02
139.	0.13	1100.	0.02
158.	0.12	1125.	0.02
170.	0.11	1145.	0.01
185.	0.11	1165.	0.01
195.	0.11	1185.	0.01
201.	0.1	1200.	0.01
217.	0.09	1225.	0.01

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
245.	0.09	1245.	0.01
264.	0.08	1285.	0.01
285.	0.08	1300.	0.01
300.	0.08	1335.	0.01
316.	0.07	1355.	0.01
335.	0.07	1385.	0.01
345.	0.07	1400.	0.01
375.	0.07	1425.	0.01
385.	0.07	1455.	0.01
393.	0.06	1485.	0.01
427.	0.05	1500.	0.01
445.	0.05	1525.	0.01
465.	0.05	1555.	0.01
485.	0.05	1585.	0.01
500.	0.05	1600.	0.01
515.	0.05	1625.	0.01
535.	0.05	1645.	0.01
565.	0.05	1685.	0.01
600.	0.05	1700.	0.01
615.	0.05	1725.	0.01
625.	0.05	1750.	0.01
645.	0.05	1760.	0.01
665.	0.05	1785.	0.01
685.	0.05	1800.	0.01
700.	0.05	1825.	0.01
725.	0.05	1856.	0.

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 3.615

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	2.116	ft/day
y0	0.604	ft

K = 0.0007465 cm/sec
T = K*b = 42.32 ft²/day (0.4551 sq. cm/sec)

Data Set:
Title: MW-3 SLUG TEST
Date: 06/23/08
Time: 15:43:09

PROJECT INFORMATION

Company: Kimley-Horn and Associates
Client: City of Chesapeake
Project: 116436000
Location: Battlefield Golf Course
Test Date: June 17, 2008
Test Well: MW-3

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-3

X Location: 0. ft
Y Location: 0. ft

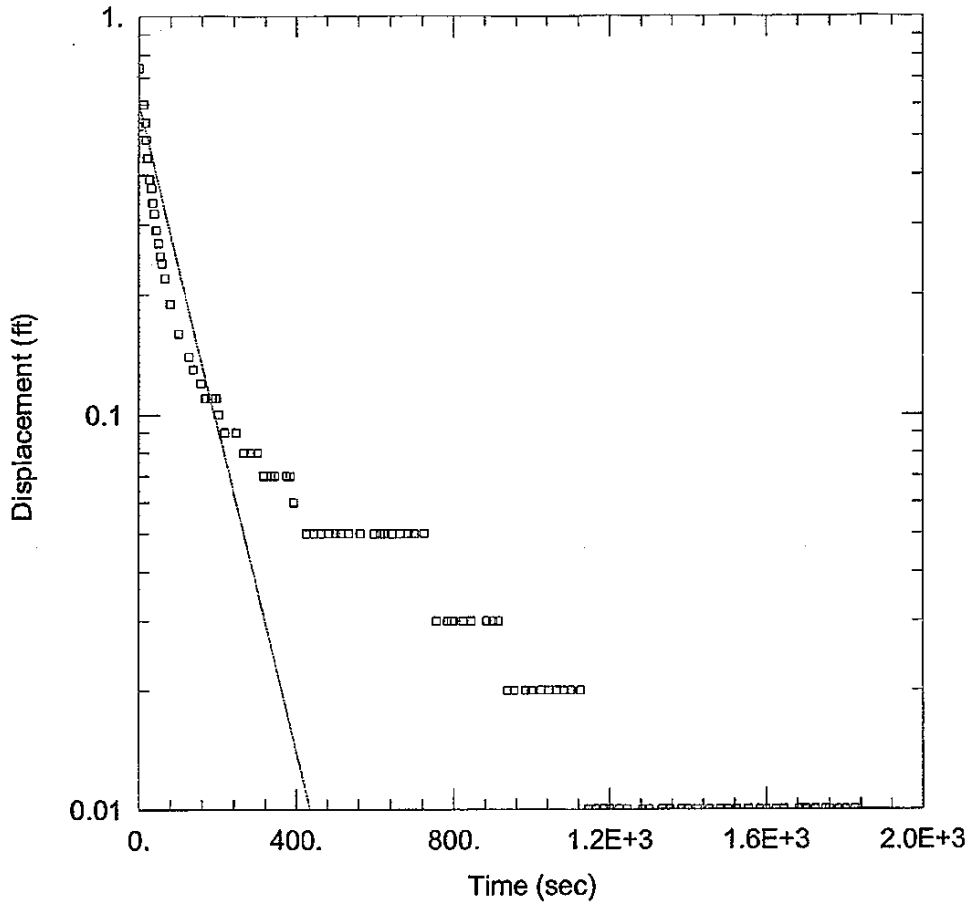
Initial Displacement: 0.53 ft
Static Water Column Height: 4.22 ft
Casing Radius: 0.1722 ft
Well Radius: 0.1979 ft
Well Skin Radius: 0.6875 ft
Screen Length: 20. ft
Total Well Penetration Depth: 22. ft

No. of Observations: 100

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.74	757.	0.03
12.	0.6	785.	0.03
16.	0.54	795.	0.03
18.	0.49	800.	0.03
22.	0.44	825.	0.03
27.	0.39	845.	0.03
32.	0.37	885.	0.03
35.	0.34	900.	0.03
39.	0.32	915.	0.03
44.	0.29	938.	0.02
50.	0.27	955.	0.02
55.	0.25	985.	0.02
59.	0.24	1000.	0.02
66.	0.22	1025.	0.02
80.	0.19	1045.	0.02
102.	0.16	1065.	0.02
128.	0.14	1085.	0.02
139.	0.13	1100.	0.02
158.	0.12	1125.	0.02
170.	0.11	1145.	0.01
185.	0.11	1165.	0.01
195.	0.11	1185.	0.01
201.	0.1	1200.	0.01
217.	0.09	1225.	0.01
245.	0.09	1245.	0.01
264.	0.08	1285.	0.01

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
285.	0.08	1300.	0.01
300.	0.08	1335.	0.01
316.	0.07	1355.	0.01
335.	0.07	1385.	0.01
345.	0.07	1400.	0.01
375.	0.07	1425.	0.01
385.	0.07	1455.	0.01
393.	0.06	1485.	0.01
427.	0.05	1500.	0.01
445.	0.05	1525.	0.01
465.	0.05	1555.	0.01
485.	0.05	1585.	0.01
500.	0.05	1600.	0.01
515.	0.05	1625.	0.01
535.	0.05	1645.	0.01
565.	0.05	1685.	0.01
600.	0.05	1700.	0.01
615.	0.05	1725.	0.01
625.	0.05	1750.	0.01
645.	0.05	1760.	0.01
665.	0.05	1785.	0.01
685.	0.05	1800.	0.01
700.	0.05	1825.	0.01
725.	0.05	1856.	0.



MW-3 SLUG TEST

Data Set: Q:\...\MW-3.aqt
Date: 06/23/08 Time: 16:11:32

PROJECT INFORMATION

Company: Kimley-Horn and Associates
Client: City of Chesapeake
Project: 116436000
Location: Battlefield Golf Course
Test Well: MW-3
Test Date: June 17, 2008

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-3)

Initial Displacement: 0.53 ft
Total Well Penetration Depth: 22. ft
Casing Radius: 0.1722 ft
Static Water Column Height: 4.22 ft
Screen Length: 20. ft
Well Radius: 0.1979 ft
Gravel Pack Porosity: 0.32

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.116 ft/day
y0 = 0.604 ft