

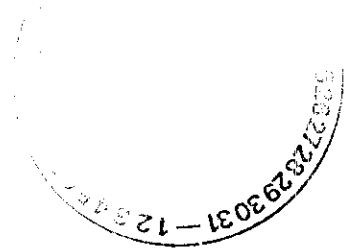


U. S. Steel  
600 Grant Street  
Pittsburgh, PA 15219-2749

Environmental  
Remediation

May 14, 2001

Mr. John Moeger  
Project Leader, Site Remediation  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194



Subject: Annual Inspection Report 2000 Follow-up  
Former Duluth Works Site  
URS Project No. 08USS141/46800-237

Dear John:

United States Steel (USS) is submitting this letter as a follow-up to the Annual Inspection Report 2000, dated January 9, 2001(2000 AIR) for the calendar year 2000 for the Operable Unit J (OUJ) and Wire Mill Pond (WMP) at the Former Duluth Works Site. The letter includes as Attachments:

- A revised Braun Intertec Corporation Analytical Report of Semi-Volatile Organic Compounds.
- A Visual Inspection Report for the Spring 2001 Inspection Event.
- Figure 1 which details the location and extent of the OUJ cap failure documented in the 2000 AIR and the Spring 2001 Inspection Event.

The revised Braun Intertec Corporation Analytical Report of Semi-Volatile Organic Compounds is for samples: Field Blank; CP-1; CP-2; CP-3; CP-4; WM-1; Field Duplicate; and Method Blank which were all collected on October 9, 2000. The report in the 2000 AIR incorrectly listed the Sample Result units as ug/l. The attached report rectifies the Sample Result units (as ng/l) and the attached report should replace the results for the corresponding samples in the 2000 AIR. As reported in the 2000 AIR, there were no exceedances of the analytical Performance Criteria in the Spring or Fall 2000 sampling events at either OUJ or the WMP.

As reported in the 2000 AIR, a minor cap slumping occurred at OUJ. This occurrence was thought to have been caused by a beaver dam artificially raising the Unnamed Creek water level creating over-saturation and subsequent slumping of the lower slope of the cap adjacent to the beaver dam. This issue was verbally communicated to the Minnesota Pollution Control Agency (MPCA) on October 18, 2000. As indicated in the attached Spring 2001 Visual Inspection Report and Figure 1, the slumping has become more extensive. The additional slumping was verbally communicated to the MPCA on May 2, 2001. The attached Spring 2001 Visual Inspection Report and Figure 1 documents the extent of the slumping.



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May 14, 2001  
Page 2

As a result of the more extensive slumping, USS has decided to implement a more aggressive response that will provide a long-term "fix" of potential future slumps. Figure 1 indicates the proposed repair of the OUJ cap. USS will submit more detailed proposed plans and specifications to repair the slumped areas and extend the gabion wall along the extent of the Unnamed Creek/OUJ berm for your review by May 25, 2001. USS will contract with a qualified contractor and submit a definitive schedule of events following your review of the plans and specifications.

The slumping is confined to the perimeter berm and does not appear to have impacted the integrity of the stabilized soil cover system. Therefore, the repair should be limited to: removal of the topsoil in the affected areas; placement of the 1-foot thick gabion stabilization basket, regrading/compacting of clay berm material; replacement of topsoil; and, revegetation.

As required on Page 7 in the June 1997 Response Action Contingency Plan Operable Unit J (Geraghty & Miller, Inc.), the slumped areas will be filled in to re-achieve the design grades, promote surface drainage and re-establish the vegetation. The cap will be reconstructed consistent with the procedures, methods and materials listed in the Response Action Plan (Geraghty & Miller, Inc., 1996).

If you have any questions regarding these matters, do not hesitate to contact Dean Stockwell at 612-373-6881 or myself at 412-433-5913.

Sincerely,

*Dean Stockwell*  
*for*

Anthony Nuzzo  
Manager Environmental Remediation

DDS:avd

Attachment

cc: Dean Stockwell, URS  
Susan Johnson, MPCA  
Andrew Streitz, MPCA  
Mark Elliot, MPCA

**TABLE 1**  
**Piezometer UTM Locations and Water Levels**  
**Former Duluth Works Hydrogeological Investigation**

Site ID	Northing	Easting	T.O.C. Elev. (FT.)	Water Level Elev. (FT)							
				1/30/01	2/15/01	3/14/01	4/24/01	5/11/01	6/15/01	8/6/01	8/31/01
PZ-W-1A	16960826.74	1840761.70	609.69	603.18	603.17	603.14	604.39	604.36	603.34	603.29	606.31
PZ-W-1B	16960832.14	1840758.64	609.87	603.48	603.46	603.40	601.72	604.67	603.73	603.69	603.69
PZ-W-1C	16960829.67	1840760.42	609.70	604.91	604.77	604.74	605.55	605.54	605.73	605.59	605.57
PZ-W-2A	16960819.82	1840341.06	611.36	606.83	606.76	606.75	609.40	608.35	608.62	608.07	607.88
PZ-W-2B	16960817.84	1840339.30	611.36	607.57	607.45	607.74	610.35	609.10	609.20	605.78	608.50
PZ-W-2C	16960816.22	1840337.67	611.19	610.39	Frozen	Frozen	Overflowing	Overflowing	Overflowing	Overflowing	Overflowing
PZ-W-3A	16960609.25	1840751.84	608.57	603.23	603.24	603.24	603.49	603.39	603.34	603.26	603.27
PZ-W-3B	16960608.52	1840755.15	608.54	603.29	603.30	603.32	603.59	603.45	603.47	603.28	603.38
PZ-W-3C	16960608.46	1840758.10	608.64	588.13	588.63	588.64	588.72	Plugged	Plugged	Plugged	Plugged
PZ-E-1A	16962254.69	1840259.51	608.83	605.37	605.27	605.30	606.37	606.18	606.12	604.70	604.92
PZ-E-1B	16962251.12	1840259.05	608.99	605.08	604.95	604.91	606.00	605.83	605.83	605.12	605.42
PZ-E-1C	16962249.43	1840258.51	608.86	604.12	603.93	603.76	605.02	604.86	605.16	604.77	604.77
PZ-U-1A	16965158.10	1839945.17	604.43	601.56	601.72	601.33	601.62	602.03	602.15	601.97	602.01
PZ-U-1B	16965156.10	1839944.54	604.82	601.65	601.67	601.37	602.23	602.28	602.35	601.98	602.17
PZ-U-1C	16965153.54	1839943.35	604.65	601.59	601.77	601.71	603.01	602.25	602.44	602.36	602.30
PZ-U-2A	16964391.88	1840435.89	605.30	602.40	602.46	602.71	602.25	601.67	601.91	601.62	601.68
PZ-U-2B	16964390.80	1840438.35	605.22	602.41	602.56	602.65	602.30	601.69	602.03	601.78	601.76
PZ-U-2C	16964390.05	1840440.79	605.26	600.91	600.19	600.36	601.39	601.35	601.84	601.86	601.87
PZ-U-3A	16963432.78	1839650.69	606.37	603.23	603.09	Frozen	603.75	602.77	602.51	601.98	601.96
PZ-U-3B	16963433.32	1839653.87	606.35	603.19	602.60	Frozen	603.14	602.83	603.00	602.67	602.97
PZ-U-3C	16963434.40	1839656.53	606.29	603.08	602.54	Frozen	603.08	602.88	603.13	602.81	603.09
MW-6	16962706.41	1838811.17	631.81	605.89	605.86	605.84	607.63	606.78	606.52	606.21	606.10
MW-8	16962434.44	1838946.37	643.17	617.67	617.09	617.04	617.96	619.29	619.34	618.25	618.27
MW-9	16961775.13	1839714.54	645.33	618.59	618.51	618.37	622.71	620.71	620.83	620.16	619.91
MW-10	16960697.21	1840090.71	650.96	614.56	614.43	614.24	616.38	617.93	618.47	617.92	617.61
RIVER											
BENCHMARK	16960809.92	1840984.08	603.72	Frozen	Frozen	Frozen	601.50	601.46	601.58	601.82	601.38

A = Shallow  
B = Intermediate  
C = Deep

TY003

**TABLE 1**  
**Piezometer UTM Locations and Water Levels**  
**Former Duluth Works Hydrogeological Investigation**

Site ID	Northing	Easting	T.O.C. Elev. (Ft.)	Water Level Elev. (FT)						
				1/30/01	2/15/01	3/14/01	4/24/01	5/11/01	6/15/01	8/6/01
PZ-W-1A	16960826.74	1840761.70	609.69	603.18	603.17	603.14	604.39	604.36	603.34	603.29
PZ-W-1B	16960832.14	1840758.64	609.87	603.48	603.46	603.40	601.72	604.67	603.73	603.69
PZ-W-1C	16960829.67	1840760.42	609.70	604.91	604.77	604.74	605.55	605.54	605.73	605.59
PZ-W-2A	16960819.82	1840341.06	611.36	606.83	606.76	606.75	609.40	608.35	608.62	608.07
PZ-W-2B	16960817.84	1840339.30	611.36	607.57	607.45	607.74	610.35	609.10	609.20	605.78
PZ-W-2C	16960816.22	1840337.67	611.19	610.39	Frozen	Frozen	Overflowing	Overflowing	Overflowing	Overflowing
PZ-W-3A	16960609.25	1840751.84	608.57	603.23	603.24	603.24	603.49	603.39	603.34	603.26
PZ-W-3B	16960608.52	1840755.15	608.54	603.29	603.30	603.32	603.59	603.45	603.47	603.28
PZ-W-3C	16960608.46	1840758.10	608.64	588.13	588.63	588.64	588.72	Plugged	Plugged	Plugged
PZ-E-1A	16962254.69	1840259.51	608.83	605.37	605.27	605.30	606.37	606.18	606.12	604.70
PZ-E-1B	16962251.12	1840259.05	608.99	605.08	604.95	604.91	606.00	605.83	605.83	605.12
PZ-E-1C	16962249.43	1840258.51	608.86	604.12	603.93	603.76	605.02	604.86	605.16	604.77
PZ-U-1A	16965158.10	1839945.17	604.43	601.56	601.72	601.33	601.62	602.03	602.15	601.97
PZ-U-1B	16965156.10	1839944.54	604.82	601.65	601.67	601.37	602.23	602.28	602.35	601.98
PZ-U-1C	16965153.54	1839943.35	604.65	601.59	601.77	601.71	603.01	602.25	602.44	602.36
PZ-U-2A	16964391.88	1840435.89	605.30	602.40	602.46	602.71	602.25	601.67	601.91	601.62
PZ-U-2B	16964390.80	1840438.35	605.22	602.41	602.56	602.65	602.30	601.69	602.03	601.78
PZ-U-2C	16964390.05	1840440.79	605.26	600.91	600.19	600.36	601.39	601.35	601.84	601.86
PZ-U-3A	16963432.78	1839650.69	606.37	603.23	603.09	Frozen	603.75	602.77	602.51	601.98
PZ-U-3B	16963433.32	1839653.87	606.35	603.19	602.60	Frozen	603.14	602.83	603.00	602.67
PZ-U-3C	16963434.40	1839656.53	606.29	603.08	602.54	Frozen	603.08	602.88	603.13	602.81
MW-6	16962706.41	1838811.17	631.81	605.89	605.86	605.84	607.63	606.78	606.52	606.21
MW-8	16962434.44	1838946.37	643.17	617.67	617.09	617.04	617.96	619.29	619.34	618.25
MW-9	16961775.13	1839714.54	645.33	618.59	618.51	618.37	622.71	620.71	620.83	620.16
MW-10	16960697.21	1840090.71	650.96	614.56	614.43	614.24	616.38	617.93	618.47	617.92
RIVER										
BENCHMARK	16960809.92	1840984.08	603.72	Frozen	Frozen	Frozen	601.50	601.46	601.58	601.82

A = Shallow  
B = Intermediate  
C = Deep

## VISUAL INSPECTION: US STEEL FORMER DULUTH WORKS SITE

**Date/Time:** 4/24/01 10:00

**Site Inspector:** Bill Keis; URS Corp.

**Weather Conditions/Temperature:** Sunny, calm, 45 °F. Note: The inspection was conducted after several days of heavy spring rains.

**Limiting Conditions (inaccessible areas, snow cover, etc.)** The semi-annual inspection was conducted by walking to each of the surface water collection locations, CP-1 – CP-4, WM-1 to visually assess the conditions. The entire perimeter of Wire Mill Pond was walked. The entire perimeter of OUJ was walked along with several transects over the top of OUJ. There were no limiting conditions in conducting this inspection.

### **UNNAMED CREEK:**

**OUJ Berm and Cap Integrity:** A road accessing the southwest portion of the OUJ Berm had eroded and washed approximately 80 feet along the western side of the OUJ Berm. The berm and cap were in excellent condition with the exception of two areas along the creek on the western side of the OUJ Berm. The slump identified in the October 2000 inspection had grown to approximately 20 feet X 20 feet with an approximately four foot downslope displacement. A second slump had developed approximately 120 feet north and east of the existing gabion wall (along the north facing slope adjacent to the retention pond). The headwall was approximately 150 feet long and had an approximately 1 ½ foot downslope displacement. Figure 1 shows the locations of these slumps and proposed control measures. Photographs 6-11 show the slumps. Due to recent heavy rains, the Unnamed Creek and it's tributaries were high and reddish tan from turbidity. No sheens were observed on any surface waters during the inspection.

Location	Visible Sheen	Flow Rate (MGD)
CP-2	None	NA
CP-3	None	NA
OUJ Berm Shoreline	None	NA
Coke Settling Basin Area (CP-1)	None	NA

MGD = Million Gallons per Day

### **WIRE MILL POND:**

**Inlet/Outlet Integrity:** The inlet and outlet are in very good shape.

**Health of Planted Vegetation:** Most species are still dormant. What vegetation is active appears to be very healthy. Vegetation exists around the entire perimeter with no apparent stressed areas.

**Visual Sheen:** The pond, inlet and outlet are reddish tan from turbidity due to recent heavy rains. No sheen was present on the main body of the pond or associated with vegetation near the edges.

Client: Northeast Technical Services, Inc.  
 Log-in: 00-07852  
 Project Number: CVXX-94-085A  
 PO Number: 3922.06  
 Client Reference: COC#9119  
 Matrix: Liquid  
 Lab Sample ID: 00-07852-01

Laboratory: Braun Intertec Corporation  
 Lab Contact/Phone: M. Lantz/952-942-4849  
 Sampler: Client  
 % Moisture: Not Applicable  
 MDL: Method Detection Limit  
 RL: Reporting Limit

Date Sampled: 10/09/00  
 Date Received: 10/12/00  
 Date Reported: 04/02/01

Client Sample ID/Description: Field Blank

Page: 1

Compound	Extract Method	Extract Date	Analysis Method	Analysis Date	Dilution Factor	MDL	RL	Sample Result
<b>Semi-Volatile Organic Compounds (GC/MS)</b>								
Acenaphthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.9	13	< 13 ng/l
Anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.7	13	< 13 ng/l
Benzo(a)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.8	13	< 13 ng/l
Benzo(b)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	13	< 13 ng/l
Benzo(k)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.5	13	< 13 ng/l
Benzo(a)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.8	13	< 13 ng/l
Chrysene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	13	< 13 ng/l
Dibenzo(a, h)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	13	< 13 ng/l
Fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	13	< 13 ng/l
Fluorene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	13	< 13 ng/l
Indeno(1,2,3-cd)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	13	< 13 ng/l
Naphthalene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	13	120 ng/l
Phenanthrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.2	13	< 13 ng/l
Pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.4	13	< 13 ng/l
<b>*** Semi-Volatile Surrogates ***</b>								
2-Fluorobiphenyl	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	72 ng/l
Nitrobenzene-d5	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	78 ng/l
Terphenyl-d14	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	84 ng/l

(Report continued on next page)

Client: Northeast Technical Services, Inc.  
 Log-in: 00-07852  
 Project Number: CVXX-94-085A  
 PO Number: 3922.06  
 Client Reference: COC#9119  
 Matrix: Liquid  
 Lab Sample ID: 00-07852-02

Laboratory: Braun Intertec Corporation  
 Lab Contact/Phone: M. Lanz/952-942-4849  
 Sampler: Client  
 % Moisture: Not Applicable  
 MDL: Method Detection Limit  
 RL: Reporting Limit

Date Sampled: 10/09/00  
 Date Received: 10/12/00  
 Date Reported: 04/02/01

Client Sample ID/Description: CP-1

Page: 2

Compound	Extract Method	Extract Date	Analysis Method	Analysis Date	Dilution Factor	MDL	RL	Sample Result
<b>Semi-Volatile Organic Compounds (GC/MS)</b>								
Acenaphthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.9	12	< 12 ng/l
Anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.7	12	< 12 ng/l
Benzo(a)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.8	12	< 12 ng/l
Benzo(b)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	< 12 ng/l
Benzo(k)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.5	12	< 12 ng/l
Benzo(a)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.8	12	< 12 ng/l
Chrysene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	< 12 ng/l
Dibenzo(a,h)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	< 12 ng/l
Fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	< 12 ng/l
Fluorene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	< 12 ng/l
Indeno(1,2,3-cd)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	< 12 ng/l
Naphthalene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	200 ng/l
Phenanthrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.2	12	< 12 ng/l
Pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.4	12	< 12 ng/l
<b>*** Semi-Volatile Surrogates ***</b>								
2-Fluorobiphenyl	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	68 % rec
Nitrobenzene-d5	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	73 % rec
Terphenyl-d14	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	85 % rec

(Report continued on next page)

Client: Northeast Technical Services, Inc.  
 Log-in: 00-07852  
 Project Number: CVXX-94-085A  
 PO Number: 3922.06  
 Client Reference: COC#9119  
 Matrix: Liquid  
 Lab Sample ID: 00-07852-03

Laboratory: Braun Intertec Corporation  
 Lab Contact/Phone: M. Lanz/952-942-4849  
 Sampler: Client  
 % Moisture: Not Applicable  
 MDL: Method Detection Limit  
 RL: Reporting Limit

Date Sampled: 10/09/00  
 Date Received: 10/12/00  
 Date Reported: 04/02/01

Client Sample ID/Description: CP-2

Page: 3

Compound	Extract Method	Extract Date	Analysis Method	Analysis Date	Dilution Factor	MDL	RL	Sample Result	
<b>Semi-Volatile Organic Compounds (GC/MS)</b>									
Acenaphthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.9	12	830	ng/l
Anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.7	12	270	ng/l
Benzo(a)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.8	12	330	ng/l
Benzo(b)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	190	ng/l
Benzo(k)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.5	12	68	ng/l
Benzo(a)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.8	12	210	ng/l
Chrysene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	290	ng/l
Dibenzo(a,h)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	53	ng/l
Fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/19/00	5.0	2.3	62	2100	ng/l
Fluorene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	880	ng/l
Indeno(1,2,3-cd)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	100	ng/l
Naphthalene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	29	ng/l
Phenanthrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.2	12	240	ng/l
Pyrene	SW-846 3510	10/16/00	SW-846 8270	10/19/00	5.0	2.4	62	1100	ng/l
<b>*** Semi-Volatile Surrogates ***</b>									
2-Fluorobiphenyl	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	72	% rec
Nitrobenzene-d5	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	74	% rec
Terphenyl-d14	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	83	% rec

gb The reporting limit (RL) was raised. A dilution of the sample was necessary due to high concentrations of this analyte.

(Report continued on next page)



Client: Northeast Technical Services, Inc.  
 Log-in: 00-07852  
 Project Number: CVXX-94-085A  
 PO Number: 3922.06  
 Client Reference: COC#9119  
 Matrix: Liquid  
 Lab Sample ID: 00-07852-04

Laboratory: Braun Intertec Corporation  
 Lab Contact/Phone: M. Lanz/952-942-4849  
 Sampler: Client  
 % Moisture: Not Applicable  
 MDL: Method Detection Limit  
 RL: Reporting Limit

Date Sampled: 10/09/00  
 Date Received: 10/12/00  
 Date Reported: 04/02/01

Client Sample ID/Description: CP-3

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Compound	Extract Method	Extract Date	Analysis Method	Analysis Date	Dilution Factor	MDL	RL	Sample Result	
<b>Semi-Volatile Organic Compounds (GC/MS)</b>									
Acenaphthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.9	13	67	ng/l
Anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.7	13	66	ng/l
Benzo(a)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.8	13	52	ng/l
Benzo(b)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	13	35	ng/l
Benzo(k)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.5	13	17	ng/l
Benzo(a)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.8	13	37	ng/l
Chrysene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	13	50	ng/l
Dibenzo(a,h)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	13	34	ng/l
Fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	13	450	ng/l
Fluorene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	13	200	ng/l
Indeno(1,2,3-cd)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	13	43	ng/l
Naphthalene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	13	21	ng/l
Phenanthrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.2	13	100	ng/l
Pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.4	13	210	ng/l
<b>*** Semi-Volatile Surrogates ***</b>									
2-Fluorobiphenyl	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	70	% rec
Nitrobenzene-d5	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	78	% rec
Terphenyl-d14	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	85	% rec

(Report continued on next page)

Client: Northeast Technical Services, Inc.  
 Log-in: 00-07852  
 Project Number: CVXX-94-085A  
 PO Number: 3922.06  
 Client Reference: COC#9119  
 Matrix: Liquid  
 Lab Sample ID: 00-07852-05

Laboratory: Braun Intertec Corporation  
 Lab Contact/Phone: M. Lanz/952-942-4849  
 Sampler: Client  
 % Moisture: Not Applicable  
 MDL: Method Detection Limit  
 RL: Reporting Limit

Date Sampled: 10/09/00  
 Date Received: 10/12/00  
 Date Reported: 04/02/01

Client Sample ID/Description: CP-4

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Compound	Extract Method	Extract Date	Analysis Method	Analysis Date	Dilution Factor	MDL	RL	Sample Result	
Semi-Volatile Organic Compounds (GC/MS)									
Acenaphthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.9	12	200	ng/l
Anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.7	12	98	ng/l
Benzo(a)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.8	12	120	ng/l
Benzo(b)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	71	ng/l
Benzo(k)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.5	12	38	ng/l
Benzo(a)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.8	12	88	ng/l
Chrysene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	120	ng/l
Dibenzo(a,h)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	37	ng/l
Fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	910	ng/l
Fluorene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	310	ng/l
Indeno(1,2,3-cd)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	62	ng/l
Naphthalene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	28	ng/l
Phenanthrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.2	12	110	ng/l
Pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.4	12	450	ng/l
*** Semi-Volatile Surrogates ***									
2-Fluorobiphenyl	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	74	% rec
Nitrobenzene-d5	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	81	% rec
Terphenyl-d14	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	80	% rec

(Report continued on next page)

Client: Northeast Technical Services, Inc.  
 Log-in: 00-07852  
 Project Number: CVXX-94-085A  
 PO Number: 3922.06  
 Client Reference: COC#9119  
 Matrix: Liquid  
 Lab Sample ID: 00-07852-06

Laboratory: Braun Intertec Corporation  
 Lab Contact/Phone: M. Lanz/952-942-4849  
 Sampler: Client  
 % Moisture: Not Applicable  
 MDL: Method Detection Limit  
 RL: Reporting Limit

Date Sampled: 10/09/00  
 Date Received: 10/12/00  
 Date Reported: 04/02/01

Client Sample ID/Description: WM-1

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Compound	Extract Method	Extract Date	Analysis Method	Analysis Date	Dilution Factor	MDL	RL	Sample Result	
<b>Semi-Volatile Organic Compounds (GC/MS)</b>									
Acenaphthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.9	12	620	ng/l
Anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.7	12	14	ng/l
Benzo(a)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.8	12	< 12	ng/l
Benzo(b)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	< 12	ng/l
Benzo(k)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.5	12	< 12	ng/l
Benzo(a)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.8	12	< 12	ng/l
Chrysene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	< 12	ng/l
Dibenzo(a,h)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	< 12	ng/l
Fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	28	ng/l
Fluorene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	250	ng/l
Indeno(1,2,3-cd)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	< 12	ng/l
Naphthalene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	440	ng/l
Phenanthrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.2	12	100	ng/l
Pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.4	12	19	ng/l
<b>*** Semi-Volatile Surrogates ***</b>									
2-Fluorobiphenyl	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	67	% rec
Nitrobenzene-d5	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	72	% rec
Terphenyl-d14	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	80	% rec

(Report continued on next page)

Client: Northeast Technical Services, Inc.  
 Log-in: 00-07852  
 Project Number: CVXX-94-085A  
 PO Number: 3922.06  
 Client Reference: COC#9119  
 Matrix: Liquid  
 Lab Sample ID: 00-07852-07

Laboratory: Braun Intertec Corporation  
 Lab Contact/Phone: M. Lanz/952-942-4849  
 Sampler: Client  
 % Moisture: Not Applicable  
 MDL: Method Detection Limit  
 RL: Reporting Limit

Date Sampled: 10/09/00  
 Date Received: 10/12/00  
 Date Reported: 04/02/01

Client Sample ID/Description: Field Duplicate

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Compound	Extract Method	Extract Date	Analysis Method	Analysis Date	Dilution Factor	MDL	RL	Sample Result	
<b>Semi-Volatile Organic Compounds (GC/MS)</b>									
Acenaphthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.9	12	640 ng/l	
Anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.7	12	14 ng/l	
Benzo(a)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.8	12	< 12 ng/l	
Benzo(b)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	< 12 ng/l	
Benzo(k)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.5	12	< 12 ng/l	
Benzo(a)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.8	12	< 12 ng/l	
Chrysene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	< 12 ng/l	
Dibenzo(a,h)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	< 12 ng/l	
Fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	28 ng/l	
Fluorene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	260 ng/l	
Indeno(1,2,3-cd)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	< 12 ng/l	
Naphthalene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	460 ng/l	
Phenanthrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.2	12	95 ng/l	
Pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.4	12	19 ng/l	
<b>*** Semi-Volatile Surrogates ***</b>									
2-Fluorobiphenyl	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	67 % rec	
Nitrobenzene-d5	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	75 % rec	
Terphenyl-d14	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	80 % rec	

(Report continued on next page)

Client: Northeast Technical Services, Inc.  
 Log-in: 00-07852  
 Project Number: CVXX-94-085A  
 PO Number: 3922.06  
 Client Reference: COC#9119  
 Matrix: Liquid  
 Lab Sample ID: 00-07852-08

Laboratory: Braun Intertec Corporation  
 Lab Contact/Phone: M. Lanz/952-942-4849  
 Sampler: Client  
 % Moisture: Not Applicable  
 MDL: Method Detection Limit  
 RL: Reporting Limit

Date Sampled: 10/09/00  
 Date Received: 10/12/00  
 Date Reported: 04/02/01

Client Sample ID/Description: Method Blank

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Compound	Extract Method	Extract Date	Analysis Method	Analysis Date	Dilution Factor	MDL	RL	Sample Result
Semi-Volatile Organic Compounds (GC/MS)								
Acenaphthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.9	12	< 12 ng/l
Anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.7	12	< 12 ng/l
Benzo(a)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.8	12	< 12 ng/l
Benzo(b)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	< 12 ng/l
Benzo(k)fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.5	12	< 12 ng/l
Benzo(a)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	1.8	12	< 12 ng/l
Chrysene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	4.5	12	< 12 ng/l
Dibenzo(a,h)anthracene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	< 12 ng/l
Fluoranthene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	< 12 ng/l
Fluorene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.3	12	< 12 ng/l
Indeno(1,2,3-cd)pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	< 12 ng/l
Naphthalene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	3.4	12	22 ng/l
Phenanthrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.2	12	< 12 ng/l
Pyrene	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	2.4	12	< 12 ng/l
*** Semi-Volatile Surrogates ***								
2-Fluorobiphenyl	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	52 % rec
Nitrobenzene-d5	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	70 % rec
Terphenyl-d14	SW-846 3510	10/16/00	SW-846 8270	10/18/00	1.0	-	-	84 % rec

(End of Report)