



November 14, 2012

Jergo LLC  
58 Tracey Street  
Buffalo, New York 14201

Attention: Mr. Giles Kavanagh

Cell Phone: (917) 213-2832  
Email: jergollc@gmail.com

RE: Preliminary Phase II Investigation Report;  
1100 Niagara Street; Buffalo, New York

Mr. Kavanagh:

This Preliminary Phase II Investigation Report (Phase II) provides an overview of the results of soil and water samples collected at the property located at 1100 Niagara Street in Buffalo, New York. The property is located at the northwest corner of the intersection of Niagara Street and Albany Street. To the east of the property is Niagara Street; to the west is a railroad easement and Interstate 190; to the north the building abuts Oliver Gear and Modern Heat Treatment; and to the south is vacant land.

## **PREVIOUS WORK**

GES completed a Phase I Environmental Site Assessment (ESA) in September of 2012, for the property and uncovered recognized and suspect environmental concerns inside and outside of the building and from adjacent properties in accordance with the ASTM Standard Practice E 1527. Based upon the nature of the available information reviewed and referenced in this Phase I ESA, the following RECs were found within the building:

- There was a spill that occurred in the storage building from a leaking 55 gallon drum of oil. While the oil was cleaned up, the staining on the floor and wall remains.
- There were approximately a dozen fluorescent light ballasts in an electric/tool room located in an upstairs room to the left of the main building entry way.

The following RECs were found outside of the building on the property:

- Soil as well as construction and demolition debris have been dumped along the building between the south wall of the storage area and Albany Street. Used medical syringes were also observed scattered among the debris piles. The origin of this material is from off-site and it is unknown if this material may have contamination associated with it.



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- There are two propane tanks on site near the front entry way to the building; a 20-pound cylinder just to the right of the entry way, and a 40 pound cylinder alongside of the office building near the entry way to the main building.

The following are suspect environmental conditions (SECs) that were observed or discovered within the interior of the building during the completion of this Phase I ESA:

- The interior brick building walls are stained a dark brownish color. This could have been from the use of a coating to seal the brick through time, or could be related to past industrial practices that occurred within the building.
- Industrial cleaning fluids were reportedly within the building immediately to right of the main building entry way.
- There are a number of sumps on the main floor of the building that have been filled in with either soil or concrete.
- There is a drain on the main floor of the building that may have historically received cleaning fluids from on-site industrial processes. It is unknown where this drain discharges.
- There is a sump under the mezzanine approximately two feet deep that is filled with sediment and water. The chemical nature of the sediment and water in this sump are unknown
- There is a shaft under the grain elevators/bins with standing water, sediment and refuse in it. The chemical nature of sediment and water are unknown.
- There is a drain in the basement boiler room that likely received condensate from the boiler. It is unknown where this drain discharges.

The following SEC was found outside of the building on the property:

- There are pole mounted transformers along the electric right of way along the south property boundary with Albany Street.

Subsequent to provision of these findings to Jergo LLC (Jergo), a meeting was scheduled with Mr. Martin Doster, PE of the New York State Department of Environmental Conservation (NYSDEC) to discuss the state Brownfield program.

## **OBJECTIVE**

Based on the findings of the Phase I ESA and the meeting with the NYSDEC, Jergo requested that Groundwater and Environmental Services, Inc. (GES) complete a preliminary Phase II investigation to evaluate if the property is a potential candidate for the New York State Brownfields program.

## **SCOPE OF WORK**

Based on the findings of the Phase I ESA and the meeting between Jergo, GES and the NYSDEC, Jergo requested GES complete a preliminary Phase II Investigation at 1100 Niagara Street with the following scope of work:



- Collection of four soil samples from debris piles along the southern property boundary for chemical analysis;
- Collection of a water and sediment sample from the sump under the mezzanine for chemical analysis; and
- Collection of a sample of residue on the interior walls of the main room of the building for chemical analysis.

Prior to field activities, GES developed a site specific health and safety plan (HASP) to assure that field work would be completed safely. Soil, sediment and water samples were collected using clean, decontaminated field sampling equipment. Soil, sediment and water samples were field screened with a photo-ionization detector (PID) for the presence of volatile organic compounds prior to sample collection.

On Thursday, October 11, 2012, field activities commenced. Samples were collected by a two-man sampling crew. Four shallow soil samples were collected using a hand auger from the debris piles at the locations noted on **Figure 1**. For each sample, soil samples were collected at several locations and composited into one sample within each pile as Soil Composite Sample SC – 1 through SC - 4.

A “grab” water sample (MSW – 6) was collected from the mezzanine sump using a clean decontaminated scoop (**Figure 1**). The sediment sample was collected at several locations within and around the mezzanine sump and composited into one sample for analysis (MSS-5). This sample appeared to be comprised primarily of “charred” wood chips and other “deleterious” material.

Last, a residue sample (or possibly paint) was from several locations along the interior wall behind the mezzanine of the main room (**Figure 1**). The sample was collected by scraping the residue with a stainless steel scraper onto a piece of clean paper that was placed on the floor under the wall area that was scraped. The residue material on the paper was then placed in the sample collection glass container. The composite sample was called sample (RS – 7) with composite sampling locations shown on **Figure 1**.

## **ANALYSIS OF SAMPLES**

Samples were placed in clean, dedicated glassware containers provided by the contract laboratory (Upstate Laboratories). The samples were sealed and placed on ice for shipment to the contract laboratory for analysis. Soil, sediment, water and the wall residue sample were then analyzed for the standard parameters associated with the completion of Phase II investigations as follows:

- Target Compound List volatile organic compounds (VOCs) using US Environmental Protection Agency (USEPA) Method SW 846 8260/5035;
- Target Compound List semi-volatile organic compounds (SVOCs) using USEPA Method SW 846 8270;
- Target Analyte List metals using USEPA Method SW 846 6010/6020/7451;
- Pesticides using USEPA Method SW 846 8081; and



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- Polychlorinated biphenyls (PCBs) using USEPA Method SW 846 8082.

Laboratory turnaround time was five days from receipt of the samples (standard turnaround time).

## **SAMPLE RESULTS**

The following provides a summary of the analytical results from the samples collected as part of this investigation. This information is tabulated on **Table 1**.

### ***Soil, Sediment and Residue Samples - Volatile Organic Compounds (VOCs)***

Only one VOC was detected out of the 56 VOCs that the soil, sediment and residue samples were analyzed for. Methylene chloride was detected at a concentration of 15.00 micrograms per kilogram (ug/kg) in the mezzanine sump sediment sample (MSS-5).

### ***Soil, Sediment and Residue Samples – Semi-volatile Organic Compounds (SVOCs)***

The soil, sediment and residue samples were analyzed for 67 SVOC compounds, of which 20 were detected. Five SVOCs were detected in soil sample SC – 1; eight SVOCs were detected in soil sample SC – 2; 16 SVOCs were detected in soil sample SC – 3, 16 SVOCs were also detected in SC - 4; 19 SVOCs were detected at high concentrations in the sediment sample collected from the mezzanine sump (MSS-5), and no SVOCs were detected in RS – 7, the wall residue sample (**Table 1**).

### ***Soil, Sediment and Residue Samples – Metals***

Organic matter, minerals and metals are a common constituent in soil. However, at many historic sites, metals occur at concentrations that can be harmful to human health and the environment. The soil, sediment and residue samples were analyzed for 22 metals, of which 20 metals were detected in the samples. Seventeen metals were detected in soil sample SC – 1; 18 metals were detected in soil sample SC – 2; 16 17 metals were detected in soil sample SC – 3, 17 metals were in SC - 4; 18 metals were detected in the sample collected from the mezzanine sump (MSS-5), and 18 metals were detected in RS – 7, the wall residue sample (**Table 1**).

### ***Soil and Sediment Samples – Pesticides***

The samples were analyzed for the presence of 21 different pesticides; of which seven pesticides were detected in the referenced samples. No pesticides were detected in SC – 1 or SC – 2. Five pesticides were detected in SC – 3; three pesticides were detected in SC – 4; and the wall residue sample was not analyzed for pesticides (**Table 1**).

### ***Soil, Sediment and Residue Samples – Polychlorinated Biphenyls (PCBs)***

There were no PCBs detected in the soils or sediment samples. The wall residue sample (RS – 7) was not analyzed for the presence of PCBs (**Table 1**).





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### ***Water Sample from Mezzanine Sump – Volatile Organic Compounds***

One VOC (acetone) was detected out of the 58 VOCs that the sample was analyzed for (**Table 2**).

### ***Water Sample from Mezzanine Sump – Semi-volatile Organic Compounds***

No SVOCs were detected in the water sample analyzed from the mezzanine sump (**Table 2**).

### ***Water Sample – Metals***

The water sample from the mezzanine sump was analyzed for the presence of 23 different metals; only seven metals were detected in the sample (**Table 2**).

### ***Water Sample – Pesticides***

Dieldrin was the only pesticide detected in the water from the mezzanine sump (**Table 2**).

### ***Water Sample – Polychlorinated Biphenyls***

PCBs were not detected in the water sample from the mezzanine sump (**Table 2**).

## **COMPARISON OF ANALYTICAL RESULTS TO APPLICABLE GUIDANCE VALUES**

### ***Comparison of Soil Analytical Results to NYSDEC Part 375 Soil Clean Up Objectives***

Subpart 375.6 applies to the development and implementation of remedial programs for soil and other media and includes soil clean up objective tables for various uses of remedial properties:

- Unrestricted Use – soil clean up objectives that represent the concentration of a contaminant in soil, which when achieved at a site, will require no use restrictions on the site for the protection of public health, groundwater and ecological resources due to the presence of contaminants in soil. The unrestricted soil cleanup objectives represent the lowest of the three values for protection of groundwater, ecological resources and public health.
- Restricted Use – soil cleanup objectives consist of four tracks: Residential Use; Restricted-Residential Use; Commercial Use; and, Industrial Use.
- Soil Cleanup Objectives for the Protection of Groundwater – applicable at restricted use sites where contamination has been identified in on-site soil by the remedial investigation and groundwater standards are, or are threatened to be, contravened by the presence of soil contamination at concentrations above the protection of groundwater soil cleanup objectives.
- Soil Cleanup Objectives for the protection of Ecological Resources – Applicable for upland soils at sites where terrestrial flora and fauna and the habitats that support them are identified.

For the purposes of this report, analytical results for the soil and sediment sample will be compared to Part 375 Restricted Residential Use Soil Cleanup Objectives. **Table 1**



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provides a summary of the analytical results as compared to 6 NYCRR Part 375 guidance. Compounds or metals that exceed the Part 375 standard are highlighted as a "grey" cell on the **Table 1**.

### **Soil Samples**

Soil pile samples SC – 1, SC – 2, SC – 3 and SC – 4 exceeded the Lead (SC-1, SC-3), Mercury (SC-4), Dieldrin (SC-4) soil cleanup objectives for restricted residential use (**Table 1**).

The following SVOCs soil cleanup objectives for restricted residential use were also exceeded: Benzo(a)anthracene (SC-3 and 4); Benzo(a)pyrene (SC-3 and 4), Benzo(b)fluoranthene (SC-2, 3 and 4), Benzo(k)fluoranthene (SC-3), Chrysene (SC-3 and 4), Dibenzo(a,h)anthracene (SC-4), and Ideno(1,2,3-C,D)pyrene (SC-3 and 4) (**Table 1**).

### **Sediment Sample**

The sediment sample from the mezzanine sump (MSS-5) exceeded the restricted residential use soil cleanup objectives for the metals Copper, Lead and Mercury. This sample also exceeded to soil cleanup objective for the pesticide Dieldrin. SVOCs exceeded the restricted residential soil cleanup objectives as follows; Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Ideno(1,2,3-C,D)pyrene, Napthalene, Phenanthrene and Pyrene (**Table 1**).

### **Wall Residual Sample**

This sample (RS-7) was only analyzed for metals and SVOCs. It exceeded the restricted residential use soil cleanup objectives for Cadmium, Lead, Zinc and Mercury. No SVOCs were detected in the sample (**Table 1**).<sup>1</sup>

### **Comparison of Water Analytical Results to NYSDEC T.O.G.S. 1.1.1 Guidance Values**

Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1) provides ambient water quality guidance values and groundwater effluent limitations where there are no standards. This guidance was be used for comparison of the water quality results of the mezzanine water sample (MSNW-6). Metals were detected in this sample below guidance values. The pesticide Dieldrin and the VOC Acetone exceeded the TOGS1.1.1 water standards. There were no SVOCs detected in this sample (**Table 2**).

## **CONCLUSIONS**

The Preliminary Phase II Investigation for the property at 1100 Niagara Street was completed in accordance with the proposal dated October 4, 2012. Analytical results for soil samples SC-1 through SC-4 show the presence of metals, a pesticide and SVOCs above the restricted residential soil cleanup objectives.

Sediment sample MSS-5 collected from the mezzanine sump significantly exceeded the restricted residential use soil cleanup objectives for several metals, a pesticide, and 14 SVOCs.





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This composite sample from the sump likely contains a mixture of materials that were used within the building including lead paint residue from the walls, and burned wood debris that was present in the sump.

The wall residue sample is most likely not residue from manufacturing processes. The dark grey-brown coating on the interior walls of the main building is likely to be lead based paint since there were significant concentrations of Cadmium, Lead, and Zinc that are present in the sample. The origin of Mercury in the sample is unknown.

The presence of Dieldrin and Acetone above TOGS 1.1.1 indicates the likely presence of pesticides use onsite as well as compound containing VOCs, possibly for cleaning purposes.

Based on the preliminary information collected, 1100 Niagara Street appears to be eligible for New York State Brownfields assistance for site cleanup.

### **RECOMMENDATIONS**

GES recommends a meeting with NYSDEC Region 9 personnel to present the findings of this preliminary investigation and to request that the property is placed into the New York State Brownfields program. Once it is accepted, additional investigative work at the property should take place to ascertain the nature and extent of soil and groundwater contamination that may or may not be present.

### **CLOSURE**

GES appreciates the opportunity to provide environmental consulting services to Jergo, LLC. Please contact the undersigned if you have questions or need additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Eric Popken', with a stylized flourish at the end.

Eric Popken  
Project Manager/Hydrogeologist

A handwritten signature in blue ink, appearing to read 'Norman K. Wohlabaugh', with a long, sweeping flourish extending to the right.

Norman K. Wohlabaugh, PG, CPG  
Site Operations Manager/Senior Geologist  
Groundwater and Environmental Services, Inc.

495 Aero Drive, Suite 3  
Cheektowaga, New York 14225

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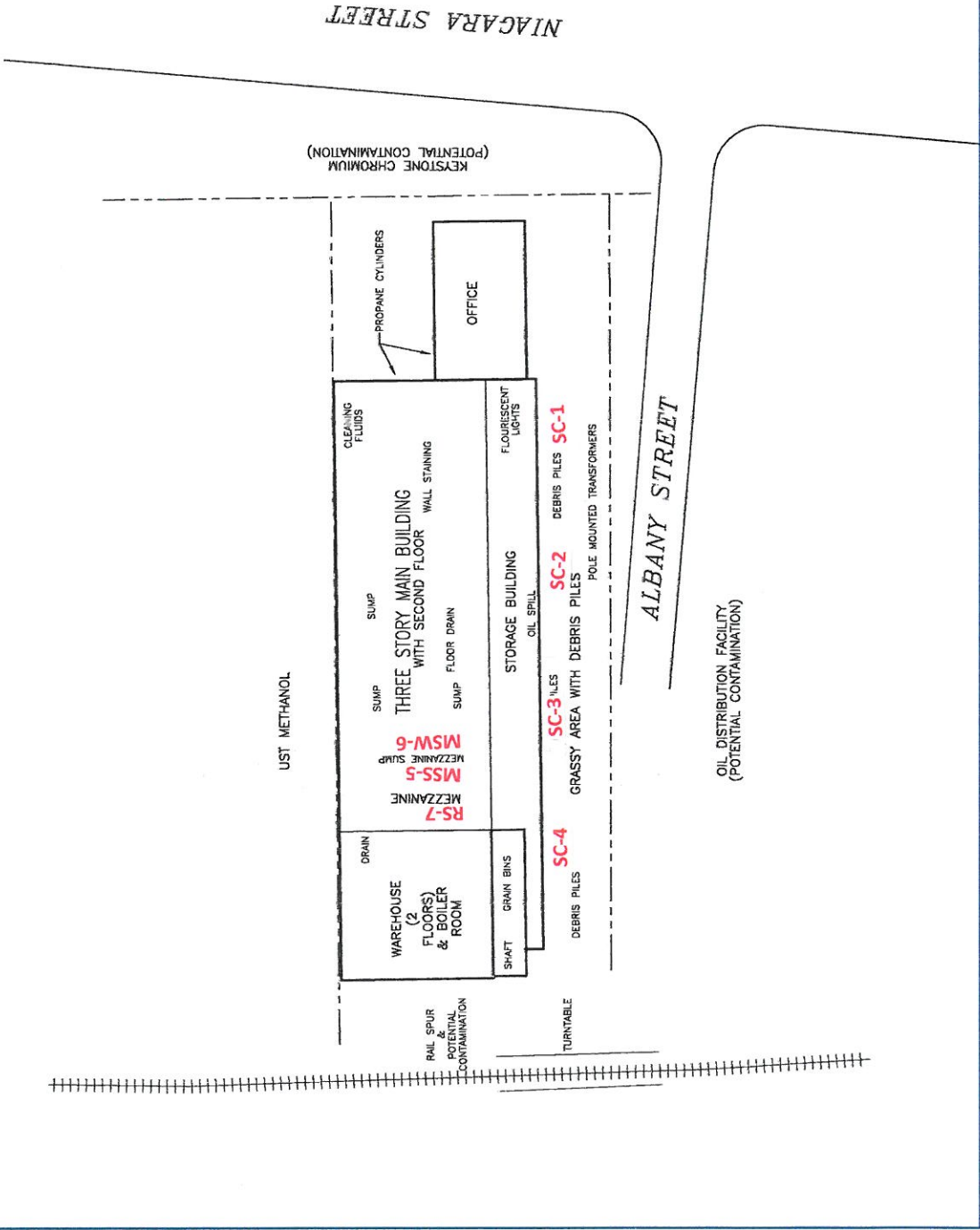


## FIGURES





**LEGEND**  
 - - - - - PROPERTY BOUNDARY  
 + + + + + RAILROAD TRACKS



<b>FIGURE 1: SAMPLING LOCATIONS</b>	
DRAFTED BY: E.M.E. (N.J.)	IERGO LLC 1100 NIAGARA STREET BUFFALO, NEW YORK
CHECKED BY:	
REVIEWED BY:	
NORTH	DATE 10-15-12
SCALE IN FEET 0 APPROXIMATE 50 FIGURE	

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## **TABLES**



**Table 1: Analysis of Soil, Sediment and residue Samples  
1100 Niagara Street  
Buffalo, New York**

Sample Name	**6 NYCRR Part 375 Soil Cleanup Objectives Restricted Residential	SC - 1	SC - 2	SC - 3	SC - 4	MSS-5	RS - 7
Sample Type		Soil	Soil	Soil	Soil	Sediment	Residue
Sample Depth		0-6"	0-6"	0-6"	0-6"	0-1"	Surf
Date		10/11/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012	10/11/2012
PID Reading (ppmv)		0.0	0.0	0.0	0.0	0.0	0.0
<b>Metals (mg/kg)</b>							
ALUMINUM	NS	9500	8700	7200	5500	5600	1500
ARSENIC	16	11	ND	8.5	4.5	9.7	66
BARIUM	400	210	150	160	130	260	640
BERYLLIUM	72	ND	1.3	ND	ND	ND	ND
CADMIUM	4.3	ND	1	ND	ND	3.6	230
CALCIUM	NS	30000	41000	72000	76000	74000	42000
CHROMIUM, TOTAL	290	19	16	12	12	43	11
COBALT	NS	7.7	6.6	4.2	3.3	ND	ND
COPPER	270	59	26	28	170	460	31
IRON	NS	18000	17000	13000	11000	34000	9400
LEAD	400	690	220	590	120	2200	58000
MAGNESIUM	NS	9600	12000	17000	20000	7300	8200
MANGANESE	2,000	380	400	510	430	360	1100
NICKEL	310	17	16	12	11	61	6.1
POTASSIUM	NS	1400	1300	1400	1400	950	590
SELENIUM	180	ND	ND	ND	ND	ND	35
SODIUM	NS	180	90	390	130	1200	10000
VANADIUM	NS	22	21	23	13	ND	34
ZINC	10,000	390	190	310	220	1400	40000
MERCURY	0.81	0.225	0.108	0.111	1.57	12.6	6.91
<b>Pesticides/Polychlorinated Biphenyls (mg/kg)</b>							
PCBs	1	ND	ND	ND	ND	ND	ND
4,4'-DDD	13	ND	ND	0.042	ND	0.240	NA
4,4'-DDE	8.9	ND	ND	ND	ND	1.500	NA
4,4'-DDT	7.9	ND	ND	0.140	0.057	3.600	NA
alpha-Chlordane	4.2	ND	ND	0.034	ND	ND	NA
gamma-Chlordane	NS	ND	ND	0.039	ND	ND	NA
Methoxychlor	NS	ND	ND	0.310	0.200	0.990	NA
Dieldrin	0.2	ND	ND	ND	1.000	12.000	NA
<b>Volatile Organic Compounds (mg/kg)</b>							
METHYLENE CHLORIDE	100	ND	ND	ND	ND	0.015	NA
						0.015	
<b>Semi-Volatile Organic Compounds (mg/kg)</b>							
2,4-DIMETHYLPHENOL	NS	ND	ND	ND	ND	9.70	ND
2-METHYLNAPHTHALENE	NS	ND	ND	ND	ND	83.00	ND
ACENAPHTHENE	100	ND	ND	1.80	0.81	120.00	ND
ACENAPHTHYLENE	100	ND	ND	0.25	ND	ND	ND
ANTHRACENE	100	ND	ND	4.20	1.90	200.00	ND
BENZO(A)ANTHRACENE	1.0	0.31	0.91	12.00	6.40	250.00	ND
BENZO(A)PYRENE	1.0	0.25	0.72	8.00	4.60	170.00	ND
BENZO(B)FLUORANTHENE	1.0	ND	1.20	15.00	8.60	240.00	ND
BENZO(G,H,I)PERYLENE	100	ND	ND	2.80	1.70	ND	ND
BENZO(K)FLUORANTHENE	3.9	ND	0.53	4.10	2.70	110.00	ND
BIPHENYL (DIPHENYL)	NS	ND	ND	ND	ND	19.00	ND
CARBAZOLE	NS	ND	0.72	2.50	0.98	80.00	ND
CHRYSENE	3.9	0.26	ND	8.20	4.70	170.00	ND
DIBENZ(A,H)ANTHRACENE	0.33	ND	ND	ND	0.56	20.00	ND
FLUORANTHENE	100	0.45	1.60	19.00	1.10	460.00	ND
FLUORENE	100	ND	ND	1.90	0.94	150.00	ND
INDENO(1,2,3-C,D)PYRENE	0.5	ND	ND	3.60	2.20	76.00	ND
NAPHTHALENE	100	ND	ND	0.60	0.25	200.00	ND
PHENANTHRENE	100	ND	1.00	16.00	8.20	800.00	ND
PYRENE	100	0.36	1.30	27.00	16.00	610.00	ND
		1.63	7.98	126.95	61.64	3767.7	0

All soil cleanup objectives are in mg/kg  
All analytical results are in mg/kg

NS = Not Specified  
ND = Not Detected  
NA = Not Analyzed for

**Table 2: Analysis of Mezzanine Sump Water Sample  
1100 Niagara Street  
Buffalo, New York**

Sample Name		NYSDEC TOGS 1.1.1 Groundwater Standards	MSW-6
Sample Type			Surface Water
Sample Date			10/11/2012
Depth to Water (ft below TOC)			Surface Water
<b>Metals (ug/L)</b>			
	BARIUM	<b>2,000</b>	1
	CALCIUM	<b>NS</b>	310
	LEAD	<b>50</b>	0.014
	MAGNESIUM	<b>35,000</b>	95
	MANGANESE	<b>NS</b>	0.15
	POTASSIUM	<b>NS</b>	7.4
	SODIUM	<b>NS</b>	240
<b>Pesticides/Polychlorinated Biphenyls (ug/L)</b>			
	PCBs	0.09	ND
	DIELDRIN	0.004	0.51
<b>Volatile Organic Compounds (ug/L)</b>			
	ACETONE	<b>50</b>	93
<b>Semi-Volatile Organic Compounds (ug/L)</b>			ND

**Notes:**

U = below laboratory detection limits

ug/L = micrograms per liter

\* TOGS 1.1.1 - 1 ug/L standard applies to total chlorinated Phenols

NR=Not Regulated by TOGS 1.1.1



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## **APPENDIX A – LABORATORY ANALYTICAL RESULTS**

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-001

**Client Sample ID:** SC-1  
**Collection Date:** 10/11/2012 12:00:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

Cooler Temp. at Receipt	<6	6		°C		10/11/2012 12:00:00 PM
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### PEST/PCB IN SOIL/SLUDGE BY EPA 8081A/8082

Lab Code: **8081A/8082\_S**

Analyst: **EA**

[Soil Prep/Sonication/Pesticides by EPA 3550 Prep Code: 3550\_PEST Prep Date: 10/17/2012 10:19:24 AM Prep By: DMD]

4,4'-DDD	ND	38		µg/Kg-dry	10	10/18/2012
4,4'-DDE	ND	38		µg/Kg-dry	10	10/18/2012
4,4'-DDT	ND	38		µg/Kg-dry	10	10/18/2012
Aldrin	ND	20		µg/Kg-dry	10	10/18/2012
alpha-BHC	ND	20		µg/Kg-dry	10	10/18/2012
alpha-Chlordane	ND	20		µg/Kg-dry	10	10/18/2012
Aroclor 1016	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1221	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1232	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1242	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1248	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1254	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1260	ND	380		µg/Kg-dry	10	10/18/2012
beta-BHC	ND	20		µg/Kg-dry	10	10/18/2012
delta-BHC	ND	20		µg/Kg-dry	10	10/18/2012
Dieldrin	ND	38		µg/Kg-dry	10	10/18/2012
Endosulfan I	ND	20		µg/Kg-dry	10	10/18/2012
Endosulfan II	ND	38		µg/Kg-dry	10	10/18/2012
Endosulfan sulfate	ND	38		µg/Kg-dry	10	10/18/2012
Endrin	ND	38		µg/Kg-dry	10	10/18/2012
Endrin aldehyde	ND	38		µg/Kg-dry	10	10/18/2012
Endrin ketone	ND	38		µg/Kg-dry	10	10/18/2012
gamma-BHC	ND	20		µg/Kg-dry	10	10/18/2012
gamma-Chlordane	ND	20		µg/Kg-dry	10	10/18/2012
Heptachlor	ND	20		µg/Kg-dry	10	10/18/2012
Heptachlor epoxide	ND	20		µg/Kg-dry	10	10/18/2012
Methoxychlor	ND	200		µg/Kg-dry	10	10/18/2012
Toxaphene	ND	2000		µg/Kg-dry	10	10/18/2012

#### NOTES:

The reporting limits were raised due to matrix interference.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-001

**Client Sample ID:** SC-1  
**Collection Date:** 10/11/2012 12:00:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

Aluminum	9500	5.5		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Barium	210	33		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Beryllium	ND	0.55		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Cadmium	ND	0.55		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Calcium	30000	55		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Chromium	19	5.5		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Cobalt	7.7	4.0		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Copper	59	5.5		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Iron	18000	3.3		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Lead	690	11		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Magnesium	9600	55		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Manganese	380	2.2		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Nickel	17	3.3		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Potassium	1400	55		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Silver	ND	5.5		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Sodium	180	55		mg/Kg-dry	1	10/16/2012 5:50:24 PM
Vanadium	22	33	J	mg/Kg-dry	1	10/16/2012 5:50:24 PM
Zinc	390	1.1		mg/Kg-dry	1	10/16/2012 5:50:24 PM

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

Antimony	ND	5.5	Q	mg/Kg-dry	10	10/18/2012 10:56:23 AM
Arsenic	11	5.5	Q	mg/Kg-dry	10	10/18/2012 10:56:23 AM
Selenium	ND	3.3		mg/Kg-dry	10	10/18/2012 10:56:23 AM
Thallium	ND	3.3		mg/Kg-dry	10	10/18/2012 10:56:23 AM

**NOTES:**

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]

Mercury	0.225	0.111		mg/Kg-dry	1	10/16/2012 2:53:24 PM
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

(3+4)-Methylphenol	ND	980	Q	µg/Kg-dry	5	10/17/2012 5:03:00 PM
1,2,4,5-Tetrachlorobenzene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-001

**Client Sample ID:** SC-1  
**Collection Date:** 10/11/2012 12:00:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

1,2,4-Trichlorobenzene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2,4,5-Trichlorophenol	ND	1900		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2,4,6-Trichlorophenol	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2,4-Dichlorophenol	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2,4-Dimethylphenol	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2,4-Dinitrophenol	ND	1900		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2,4-Dinitrotoluene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2,6-Dinitrotoluene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2-Chloronaphthalene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2-Chlorophenol	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2-Methylnaphthalene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2-Methylphenol	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2-Nitroaniline	ND	1900		µg/Kg-dry	5	10/17/2012 5:03:00 PM
2-Nitrophenol	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
3,3'-Dichlorobenzidine	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
3-Nitroaniline	ND	1900		µg/Kg-dry	5	10/17/2012 5:03:00 PM
4,6-Dinitro-2-methylphenol	ND	1900		µg/Kg-dry	5	10/17/2012 5:03:00 PM
4-Bromophenyl phenyl ether	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
4-Chloro-3-methylphenol	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
4-Chloroaniline	ND	980	Q	µg/Kg-dry	5	10/17/2012 5:03:00 PM
4-Chlorophenyl phenyl ether	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
4-Nitroaniline	ND	1900		µg/Kg-dry	5	10/17/2012 5:03:00 PM
4-Nitrophenol	ND	1900		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Acenaphthene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Acenaphthylene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Acetophenone	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Anthracene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Atrazine	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Benz(a)anthracene	310	980	J	µg/Kg-dry	5	10/17/2012 5:03:00 PM
Benzaldehyde	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Benzo(a)pyrene	250	980	J	µg/Kg-dry	5	10/17/2012 5:03:00 PM
Benzo(b)fluoranthene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Benzo(g,h,i)perylene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Benzo(k)fluoranthene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Biphenyl	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Bis(2-chloroethoxy)methane	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Bis(2-chloroethyl)ether	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

Page 3 of 40

**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-001

**Client Sample ID:** SC-1  
**Collection Date:** 10/11/2012 12:00:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

Bis(2-chloroisopropyl)ether	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Bis(2-ethylhexyl)phthalate	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Butyl benzyl phthalate	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Caprolactam	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Carbazole	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Chrysene	260	980	J	µg/Kg-dry	5	10/17/2012 5:03:00 PM
Di-n-butyl phthalate	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Di-n-octyl phthalate	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Dibenz(a,h)anthracene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Dibenzofuran	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Diethyl phthalate	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Dimethyl phthalate	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Fluoranthene	450	980	J	µg/Kg-dry	5	10/17/2012 5:03:00 PM
Fluorene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Hexachlorobenzene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Hexachlorobutadiene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Hexachlorocyclopentadiene	ND	980	Q	µg/Kg-dry	5	10/17/2012 5:03:00 PM
Hexachloroethane	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Indeno(1,2,3-cd)pyrene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Isophorone	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
N-Nitrosodi-n-propylamine	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
N-Nitrosodiphenylamine	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Naphthalene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Nitrobenzene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Pentachlorophenol	ND	1900		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Phenanthrene	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Phenol	ND	980		µg/Kg-dry	5	10/17/2012 5:03:00 PM
Pyrene	360	980	J	µg/Kg-dry	5	10/17/2012 5:03:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

1,2,3-Trichlorobenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,2,4-Trichlorobenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,2,4-Trimethylbenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM

#### Approved By:

#### Date:

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-001

**Client Sample ID:** SC-1  
**Collection Date:** 10/11/2012 12:00:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

1,2-Dibromo-3-chloropropane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,2-Dibromoethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,2-Dichlorobenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,3,5-Trimethylbenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,3-Dichlorobenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,4-Dichlorobenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,4-Dioxane	ND	4600		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Bromochloromethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Cyclohexane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Dichlorodifluoromethane	ND	230	Q	µg/Kg-dry	2	10/15/2012 3:28:00 PM
Freon-113	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Isopropylbenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Methyl Acetate	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Methyl tert-butyl ether	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Methylcyclohexane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
n-Butylbenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
n-Propylbenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
sec-Butylbenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
tert-Butylbenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Trichlorofluoromethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Chloromethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Vinyl chloride	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Bromomethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Chloroethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,1-Dichloroethene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Carbon disulfide	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Methylene chloride	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
trans-1,2-Dichloroethene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,1-Dichloroethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
cis-1,2-Dichloroethene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Chloroform	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,1,1-Trichloroethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Carbon tetrachloride	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Benzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,2-Dichloroethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Trichloroethene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,2-Dichloropropane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-001

**Client Sample ID:** SC-1  
**Collection Date:** 10/11/2012 12:00:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

Bromodichloromethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
4-Methyl-2-pentanone	ND	460		µg/Kg-dry	2	10/15/2012 3:28:00 PM
cis-1,3-Dichloropropene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Toluene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
trans-1,3-Dichloropropene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,1,2-Trichloroethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
2-Hexanone	ND	460		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Tetrachloroethene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Dibromochloromethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Chlorobenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Ethylbenzene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
m,p-Xylene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
o-Xylene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Styrene	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
Bromoform	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM
1,1,2,2-Tetrachloroethane	ND	230		µg/Kg-dry	2	10/15/2012 3:28:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

Low quality control recoveries were observed at a lower dilution.

Elevated detection limits due to sample not being collected in accordance with USEPA Method 5035A low level sampling specifications.

### PERCENT MOISTURE BY ASTM D2216

Lab Code: PMOIST

Analyst: DEB

Percent Moisture	13.5	0.0100		wt%	1	10/16/2012
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Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-002

**Client Sample ID:** SC-2  
**Collection Date:** 10/11/2012 12:15:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

Cooler Temp. at Receipt	<6	6		°C		10/11/2012 12:15:00 PM
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### PEST/PCB IN SOIL/SLUDGE BY EPA 8081A/8082

Lab Code: **8081A/8082\_S**

Analyst: **EA**

[Soil Prep/Sonication/Pesticides by EPA 3550 Prep Code: 3550\_PEST Prep Date: 10/17/2012 10:19:24 AM Prep By: DMD]

4,4'-DDD	ND	40		µg/Kg-dry	10	10/18/2012
4,4'-DDE	ND	40		µg/Kg-dry	10	10/18/2012
4,4'-DDT	ND	40		µg/Kg-dry	10	10/18/2012
Aldrin	ND	20		µg/Kg-dry	10	10/18/2012
alpha-BHC	ND	20		µg/Kg-dry	10	10/18/2012
alpha-Chlordane	ND	20		µg/Kg-dry	10	10/18/2012
Aroclor 1016	ND	400		µg/Kg-dry	10	10/18/2012
Aroclor 1221	ND	400		µg/Kg-dry	10	10/18/2012
Aroclor 1232	ND	400		µg/Kg-dry	10	10/18/2012
Aroclor 1242	ND	400		µg/Kg-dry	10	10/18/2012
Aroclor 1248	ND	400		µg/Kg-dry	10	10/18/2012
Aroclor 1254	ND	400		µg/Kg-dry	10	10/18/2012
Aroclor 1260	ND	400		µg/Kg-dry	10	10/18/2012
beta-BHC	ND	20		µg/Kg-dry	10	10/18/2012
delta-BHC	ND	20		µg/Kg-dry	10	10/18/2012
Dieldrin	ND	40		µg/Kg-dry	10	10/18/2012
Endosulfan I	ND	20		µg/Kg-dry	10	10/18/2012
Endosulfan II	ND	40		µg/Kg-dry	10	10/18/2012
Endosulfan sulfate	ND	40		µg/Kg-dry	10	10/18/2012
Endrin	ND	40		µg/Kg-dry	10	10/18/2012
Endrin aldehyde	ND	40		µg/Kg-dry	10	10/18/2012
Endrin ketone	ND	40		µg/Kg-dry	10	10/18/2012
gamma-BHC	ND	20		µg/Kg-dry	10	10/18/2012
gamma-Chlordane	ND	20		µg/Kg-dry	10	10/18/2012
Heptachlor	ND	20		µg/Kg-dry	10	10/18/2012
Heptachlor epoxide	ND	20		µg/Kg-dry	10	10/18/2012
Methoxychlor	ND	200		µg/Kg-dry	10	10/18/2012
Toxaphene	ND	2000		µg/Kg-dry	10	10/18/2012

#### NOTES:

The reporting limits were raised due to matrix interference.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

Page 7 of 40

**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
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- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-002

**Client Sample ID:** SC-2  
**Collection Date:** 10/11/2012 12:15:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

Aluminum	8700	5.3		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Barium	150	32		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Beryllium	1.3	0.53		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Cadmium	1.0	0.53		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Calcium	41000	53		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Chromium	16	5.3		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Cobalt	6.6	3.8		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Copper	26	5.3		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Iron	17000	3.2		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Lead	220	11		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Magnesium	12000	260		mg/Kg-dry	5	10/19/2012 3:15:25 PM
Manganese	400	2.1		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Nickel	16	3.2		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Potassium	1300	53		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Silver	ND	5.3		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Sodium	90	53		mg/Kg-dry	1	10/16/2012 5:57:22 PM
Vanadium	21	32	J	mg/Kg-dry	1	10/16/2012 5:57:22 PM
Zinc	190	1.1		mg/Kg-dry	1	10/16/2012 5:57:22 PM

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

Antimony	ND	5.3	Q	mg/Kg-dry	10	10/18/2012 10:56:23 AM
Arsenic	ND	5.3	Q	mg/Kg-dry	10	10/18/2012 10:56:23 AM
Selenium	ND	3.2		mg/Kg-dry	10	10/18/2012 10:56:23 AM
Thallium	ND	3.2		mg/Kg-dry	10	10/18/2012 10:56:23 AM

**NOTES:**

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]

Mercury	0.108	0.115	J	mg/Kg-dry	1	10/16/2012 2:55:35 PM
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

(3+4)-Methylphenol	ND	1000	Q	µg/Kg-dry	5	10/17/2012 5:27:00 PM
1,2,4,5-Tetrachlorobenzene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-002

**Client Sample ID:** SC-2  
**Collection Date:** 10/11/2012 12:15:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

1,2,4-Trichlorobenzene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2,4,5-Trichlorophenol	ND	2000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2,4,6-Trichlorophenol	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2,4-Dichlorophenol	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2,4-Dimethylphenol	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2,4-Dinitrophenol	ND	2000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2,4-Dinitrotoluene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2,6-Dinitrotoluene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2-Chloronaphthalene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2-Chlorophenol	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2-Methylnaphthalene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2-Methylphenol	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2-Nitroaniline	ND	2000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
2-Nitrophenol	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
3,3'-Dichlorobenzidine	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
3-Nitroaniline	ND	2000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
4,6-Dinitro-2-methylphenol	ND	2000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
4-Bromophenyl phenyl ether	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
4-Chloro-3-methylphenol	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
4-Chloroaniline	ND	1000	Q	µg/Kg-dry	5	10/17/2012 5:27:00 PM
4-Chlorophenyl phenyl ether	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
4-Nitroaniline	ND	2000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
4-Nitrophenol	ND	2000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Acenaphthene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Acenaphthylene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Acetophenone	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Anthracene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Atrazine	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Benz(a)anthracene	910	1000	J	µg/Kg-dry	5	10/17/2012 5:27:00 PM
Benzaldehyde	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Benzo(a)pyrene	720	1000	J	µg/Kg-dry	5	10/17/2012 5:27:00 PM
Benzo(b)fluoranthene	1200	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Benzo(g,h,i)perylene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Benzo(k)fluoranthene	530	1000	J	µg/Kg-dry	5	10/17/2012 5:27:00 PM
Biphenyl	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Bis(2-chloroethoxy)methane	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Bis(2-chloroethyl)ether	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-002

**Client Sample ID:** SC-2  
**Collection Date:** 10/11/2012 12:15:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

Bis(2-chloroisopropyl)ether	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Bis(2-ethylhexyl)phthalate	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Butyl benzyl phthalate	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Caprolactam	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Carbazole	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Chrysene	720	1000	J	µg/Kg-dry	5	10/17/2012 5:27:00 PM
Di-n-butyl phthalate	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Di-n-octyl phthalate	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Dibenz(a,h)anthracene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Dibenzofuran	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Diethyl phthalate	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Dimethyl phthalate	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Fluoranthene	1600	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Fluorene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Hexachlorobenzene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Hexachlorobutadiene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Hexachlorocyclopentadiene	ND	1000	Q	µg/Kg-dry	5	10/17/2012 5:27:00 PM
Hexachloroethane	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Indeno(1,2,3-cd)pyrene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Isophorone	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
N-Nitrosodi-n-propylamine	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
N-Nitrosodiphenylamine	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Naphthalene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Nitrobenzene	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Pentachlorophenol	ND	2000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Phenanthrene	1000	1000	J	µg/Kg-dry	5	10/17/2012 5:27:00 PM
Phenol	ND	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM
Pyrene	1300	1000		µg/Kg-dry	5	10/17/2012 5:27:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

1,2,3-Trichlorobenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,2,4-Trichlorobenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,2,4-Trimethylbenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM

#### Approved By:

#### Date:

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-002

**Client Sample ID:** SC-2  
**Collection Date:** 10/11/2012 12:15:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL</b>						
				Lab Code: <b>8260_05_S</b>		Analyst: <b>KMP</b>
1,2-Dibromo-3-chloropropane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,2-Dibromoethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,2-Dichlorobenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,3,5-Trimethylbenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,3-Dichlorobenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,4-Dichlorobenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,4-Dioxane	ND	4800		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Bromochloromethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Cyclohexane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Dichlorodifluoromethane	ND	240	Q	µg/Kg-dry	2	10/15/2012 4:09:00 PM
Freon-113	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Isopropylbenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Methyl Acetate	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Methyl tert-butyl ether	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Methylcyclohexane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
n-Butylbenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
n-Propylbenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
sec-Butylbenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
tert-Butylbenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Trichlorofluoromethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Chloromethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Vinyl chloride	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Bromomethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Chloroethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,1-Dichloroethene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Carbon disulfide	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Methylene chloride	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
trans-1,2-Dichloroethene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,1-Dichloroethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
cis-1,2-Dichloroethene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Chloroform	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,1,1-Trichloroethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Carbon tetrachloride	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Benzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,2-Dichloroethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Trichloroethene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,2-Dichloropropane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

CLIENT: Groundwater & Environmental Services

Client Sample ID: SC-2

Lab Order: U1210333

Collection Date: 10/11/2012 12:15:00 PM

Project: 0901516 - 1100 Niagara Street

Lab ID: U1210333-002

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

Bromodichloromethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
4-Methyl-2-pentanone	ND	480		µg/Kg-dry	2	10/15/2012 4:09:00 PM
cis-1,3-Dichloropropene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Toluene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
trans-1,3-Dichloropropene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,1,2-Trichloroethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
2-Hexanone	ND	480		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Tetrachloroethene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Dibromochloromethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Chlorobenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Ethylbenzene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
m,p-Xylene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
o-Xylene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Styrene	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
Bromoform	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM
1,1,2,2-Tetrachloroethane	ND	240		µg/Kg-dry	2	10/15/2012 4:09:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

Low quality control recoveries were observed at a lower dilution.

Elevated detection limits due to sample not being collected in accordance with USEPA Method 5035A low level sampling specifications.

### PERCENT MOISTURE BY ASTM D2216

Lab Code: PMOIST

Analyst: DEB

Percent Moisture	16.7	0.0100		wt%	1	10/16/2012
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Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-003

**Client Sample ID:** SC-3  
**Collection Date:** 10/11/2012 12:30:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

Cooler Temp. at Receipt	<6	6		°C		10/11/2012 12:30:00 PM
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### PEST/PCB IN SOIL/SLUDGE BY EPA 8081A/8082

Lab Code: **8081A/8082\_S**

Analyst: **EA**

[Soil Prep/Sonication/Pesticides by EPA 3550 Prep Code: 3550\_PEST Prep Date: 10/17/2012 10:19:24 AM Prep By: DMD]

4,4'-DDD	42	41		µg/Kg-dry	10	10/18/2012
4,4'-DDE	ND	41		µg/Kg-dry	10	10/18/2012
4,4'-DDT	140	100	Q	µg/Kg-dry	25	10/18/2012
Aldrin	ND	21		µg/Kg-dry	10	10/18/2012
alpha-BHC	ND	21		µg/Kg-dry	10	10/18/2012
alpha-Chlordane	34	21		µg/Kg-dry	10	10/18/2012
Aroclor 1016	ND	410		µg/Kg-dry	10	10/18/2012
Aroclor 1221	ND	410		µg/Kg-dry	10	10/18/2012
Aroclor 1232	ND	410		µg/Kg-dry	10	10/18/2012
Aroclor 1242	ND	410		µg/Kg-dry	10	10/18/2012
Aroclor 1248	ND	410		µg/Kg-dry	10	10/18/2012
Aroclor 1254	ND	410		µg/Kg-dry	10	10/18/2012
Aroclor 1260	ND	410		µg/Kg-dry	10	10/18/2012
beta-BHC	ND	21		µg/Kg-dry	10	10/18/2012
delta-BHC	ND	21		µg/Kg-dry	10	10/18/2012
Dieldrin	ND	41		µg/Kg-dry	10	10/18/2012
Endosulfan I	ND	21		µg/Kg-dry	10	10/18/2012
Endosulfan II	ND	41		µg/Kg-dry	10	10/18/2012
Endosulfan sulfate	ND	41		µg/Kg-dry	10	10/18/2012
Endrin	ND	41		µg/Kg-dry	10	10/18/2012
Endrin aldehyde	ND	41		µg/Kg-dry	10	10/18/2012
Endrin ketone	ND	41		µg/Kg-dry	10	10/18/2012
gamma-BHC	ND	21		µg/Kg-dry	10	10/18/2012
gamma-Chlordane	39	21		µg/Kg-dry	10	10/18/2012
Heptachlor	ND	21		µg/Kg-dry	10	10/18/2012
Heptachlor epoxide	ND	21		µg/Kg-dry	10	10/18/2012
Methoxychlor	310	210		µg/Kg-dry	10	10/18/2012
Toxaphene	ND	2100		µg/Kg-dry	10	10/18/2012

#### NOTES:

The reporting limits were raised due to the high concentration of target compounds.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

<b>CLIENT:</b>	Groundwater & Environmental Services	<b>Client Sample ID:</b>	SC-3
<b>Lab Order:</b>	U1210333	<b>Collection Date:</b>	10/11/2012 12:30:00 PM
<b>Project:</b>	0901516 - 1100 Niagara Street		
<b>Lab ID:</b>	U1210333-003	<b>Matrix:</b>	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B	Prep Code: 3050_I	Prep Date: 10/15/2012 9:53:44 AM	Prep By: ARO]
Aluminum	7200	5.9	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Barium	160	35	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Beryllium	ND	0.59	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Cadmium	ND	0.59	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Calcium	72000	290	mg/Kg-dry 5 10/19/2012 3:37:51 PM
Chromium	12	5.9	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Cobalt	4.2	4.2	J mg/Kg-dry 1 10/16/2012 6:04:22 PM
Copper	28	5.9	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Iron	13000	3.5	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Lead	590	12	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Magnesium	17000	290	mg/Kg-dry 5 10/19/2012 3:37:51 PM
Manganese	510	2.3	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Nickel	12	3.5	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Potassium	1400	59	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Silver	ND	5.9	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Sodium	390	59	mg/Kg-dry 1 10/16/2012 6:04:22 PM
Vanadium	23	35	J mg/Kg-dry 1 10/16/2012 6:04:22 PM
Zinc	310	1.2	mg/Kg-dry 1 10/16/2012 6:04:22 PM

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B	Prep Code: 3050_I	Prep Date: 10/15/2012 9:53:44 AM	Prep By: ARO]
Antimony	ND	5.9	Q mg/Kg-dry 10 10/18/2012 10:56:23 AM
Arsenic	8.5	5.9	Q mg/Kg-dry 10 10/18/2012 10:56:23 AM
Selenium	ND	3.5	mg/Kg-dry 10 10/18/2012 10:56:23 AM
Thallium	ND	3.5	mg/Kg-dry 10 10/18/2012 10:56:23 AM

**NOTES:**

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

[Total Mercury Prep - Soil/Solid/Waste by 7471A	Prep Code: 7471APR	Prep Date: 10/15/2012 11:09:29 AM	Prep By: ARO]
Mercury	0.111	0.112	J mg/Kg-dry 1 10/16/2012 2:57:50 PM

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B	Prep Code: 3550_BNA	Prep Date: 10/16/2012 11:08:23 AM	Prep By: DMD]
(3+4)-Methylphenol	ND	1100	Q µg/Kg-dry 5 10/17/2012 5:51:00 PM
1,2,4,5-Tetrachlorobenzene	ND	1100	µg/Kg-dry 5 10/17/2012 5:51:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

#	Accreditation not offered by NYS DOH for this parameter
**	Value exceeds Maximum Contaminant Value
E	Value above quantitation range
J	Analyte detected below quantitation limits
Q	Outlying QC recoveries were associated with this parameter

*	Low Level
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-003

**Client Sample ID:** SC-3  
**Collection Date:** 10/11/2012 12:30:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

1,2,4-Trichlorobenzene	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2,4,5-Trichlorophenol	ND	2000		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2,4,6-Trichlorophenol	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2,4-Dichlorophenol	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2,4-Dimethylphenol	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2,4-Dinitrophenol	ND	2000		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2,4-Dinitrotoluene	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2,6-Dinitrotoluene	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2-Chloronaphthalene	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2-Chlorophenol	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2-Methylnaphthalene	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2-Methylphenol	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2-Nitroaniline	ND	2000		µg/Kg-dry	5	10/17/2012 5:51:00 PM
2-Nitrophenol	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
3,3'-Dichlorobenzidine	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
3-Nitroaniline	ND	2000		µg/Kg-dry	5	10/17/2012 5:51:00 PM
4,6-Dinitro-2-methylphenol	ND	2000		µg/Kg-dry	5	10/17/2012 5:51:00 PM
4-Bromophenyl phenyl ether	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
4-Chloro-3-methylphenol	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
4-Chloroaniline	ND	1100	Q	µg/Kg-dry	5	10/17/2012 5:51:00 PM
4-Chlorophenyl phenyl ether	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
4-Nitroaniline	ND	2000		µg/Kg-dry	5	10/17/2012 5:51:00 PM
4-Nitrophenol	ND	2000		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Acenaphthene	1800	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Acenaphthylene	250	1100	J	µg/Kg-dry	5	10/17/2012 5:51:00 PM
Acetophenone	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Anthracene	4200	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Atrazine	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Benz(a)anthracene	12000	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Benzaldehyde	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Benzo(a)pyrene	8000	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Benzo(b)fluoranthene	15000	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Benzo(g,h,i)perylene	2800	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Benzo(k)fluoranthene	4100	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Biphenyl	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Bis(2-chloroethoxy)methane	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Bis(2-chloroethyl)ether	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-003

**Client Sample ID:** SC-3  
**Collection Date:** 10/11/2012 12:30:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

Bis(2-chloroisopropyl)ether	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Bis(2-ethylhexyl)phthalate	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Butyl benzyl phthalate	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Caprolactam	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Carbazole	2500	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Chrysene	8200	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Di-n-butyl phthalate	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Di-n-octyl phthalate	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Dibenz(a,h)anthracene	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Dibenzofuran	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Diethyl phthalate	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Dimethyl phthalate	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Fluoranthene	19000	2100		µg/Kg-dry	10	10/18/2012 8:59:00 PM
Fluorene	1900	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Hexachlorobenzene	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Hexachlorobutadiene	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Hexachlorocyclopentadiene	ND	1100	Q	µg/Kg-dry	5	10/17/2012 5:51:00 PM
Hexachloroethane	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Indeno(1,2,3-cd)pyrene	3600	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Isophorone	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
N-Nitrosodi-n-propylamine	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
N-Nitrosodiphenylamine	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Naphthalene	600	1100	J	µg/Kg-dry	5	10/17/2012 5:51:00 PM
Nitrobenzene	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Pentachlorophenol	ND	2000		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Phenanthrene	16000	2100		µg/Kg-dry	10	10/18/2012 8:59:00 PM
Phenol	ND	1100		µg/Kg-dry	5	10/17/2012 5:51:00 PM
Pyrene	27000	2100		µg/Kg-dry	10	10/18/2012 8:59:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: **8260\_05\_S**

Analyst: **KMP**

1,2,3-Trichlorobenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,2,4-Trichlorobenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,2,4-Trimethylbenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM

#### Approved By:

#### Date:

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-003

**Client Sample ID:** SC-3  
**Collection Date:** 10/11/2012 12:30:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL</b>						
				Lab Code: <b>8260_05_S</b>		Analyst: <b>KMP</b>
1,2-Dibromo-3-chloropropane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,2-Dibromoethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,2-Dichlorobenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,3,5-Trimethylbenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,3-Dichlorobenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,4-Dichlorobenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,4-Dioxane	ND	4900		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Bromochloromethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Cyclohexane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Dichlorodifluoromethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Freon-113	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Isopropylbenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Methyl Acetate	ND	250	Q	µg/Kg-dry	2	10/16/2012 4:30:00 PM
Methyl tert-butyl ether	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Methylcyclohexane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
n-Butylbenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
n-Propylbenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
sec-Butylbenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
tert-Butylbenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Trichlorofluoromethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Chloromethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Vinyl chloride	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Bromomethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Chloroethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,1-Dichloroethene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Carbon disulfide	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Methylene chloride	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
trans-1,2-Dichloroethene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,1-Dichloroethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
cis-1,2-Dichloroethene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Chloroform	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,1,1-Trichloroethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Carbon tetrachloride	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Benzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,2-Dichloroethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Trichloroethene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,2-Dichloropropane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-003

**Client Sample ID:** SC-3  
**Collection Date:** 10/11/2012 12:30:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

Bromodichloromethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
4-Methyl-2-pentanone	ND	490		µg/Kg-dry	2	10/16/2012 4:30:00 PM
cis-1,3-Dichloropropene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Toluene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
trans-1,3-Dichloropropene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,1,2-Trichloroethane	ND	250	Q	µg/Kg-dry	2	10/16/2012 4:30:00 PM
2-Hexanone	ND	490	Q	µg/Kg-dry	2	10/16/2012 4:30:00 PM
Tetrachloroethene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Dibromochloromethane	ND	250	Q	µg/Kg-dry	2	10/16/2012 4:30:00 PM
Chlorobenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Ethylbenzene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
m,p-Xylene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
o-Xylene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Styrene	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
Bromoform	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM
1,1,2,2-Tetrachloroethane	ND	250		µg/Kg-dry	2	10/16/2012 4:30:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

Internal standard recoveries failed low established QC limits. Subsequent re-analysis yielded similar results.

Elevated detection limits due to sample not being collected in accordance with USEPA Method 5035A low level sampling specifications.

### PERCENT MOISTURE BY ASTM D2216

Lab Code: PMOIST

Analyst: DEB

Percent Moisture	19.1	0.0100		wt%	1	10/16/2012
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Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004

**Client Sample ID:** SC-4  
**Collection Date:** 10/11/2012 12:40:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

Cooler Temp. at Receipt	<6	6		°C		10/11/2012 12:40:00 PM
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### PEST/PCB IN SOIL/SLUDGE BY EPA 8081A/8082

Lab Code: **8081A/8082\_S**

Analyst: **EA**

[Soil Prep/Sonication/Pesticides by EPA 3550 Prep Code: 3550\_PEST Prep Date: 10/17/2012 10:19:24 AM Prep By: DMD]

4,4'-DDD	ND	38		µg/Kg-dry	10	10/18/2012
4,4'-DDE	ND	38		µg/Kg-dry	10	10/18/2012
4,4'-DDT	57	38		µg/Kg-dry	10	10/18/2012
Aldrin	ND	19		µg/Kg-dry	10	10/18/2012
alpha-BHC	ND	19		µg/Kg-dry	10	10/18/2012
alpha-Chlordane	ND	19		µg/Kg-dry	10	10/18/2012
Aroclor 1016	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1221	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1232	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1242	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1248	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1254	ND	380		µg/Kg-dry	10	10/18/2012
Aroclor 1260	ND	380		µg/Kg-dry	10	10/18/2012
beta-BHC	ND	19		µg/Kg-dry	10	10/18/2012
delta-BHC	ND	19		µg/Kg-dry	10	10/18/2012
Dieldrin	1000	95	Q	µg/Kg-dry	25	10/18/2012
Endosulfan I	ND	19		µg/Kg-dry	10	10/18/2012
Endosulfan II	ND	38		µg/Kg-dry	10	10/18/2012
Endosulfan sulfate	ND	38		µg/Kg-dry	10	10/18/2012
Endrin	ND	38		µg/Kg-dry	10	10/18/2012
Endrin aldehyde	ND	38		µg/Kg-dry	10	10/18/2012
Endrin ketone	ND	38		µg/Kg-dry	10	10/18/2012
gamma-BHC	ND	19		µg/Kg-dry	10	10/18/2012
gamma-Chlordane	ND	19		µg/Kg-dry	10	10/18/2012
Heptachlor	ND	19		µg/Kg-dry	10	10/18/2012
Heptachlor epoxide	ND	19		µg/Kg-dry	10	10/18/2012
Methoxychlor	200	190		µg/Kg-dry	10	10/18/2012
Toxaphene	ND	1900		µg/Kg-dry	10	10/18/2012

#### NOTES:

The reporting limits were raised due to the high concentration of target compounds.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services      **Client Sample ID:** SC-4  
**Lab Order:** U1210333      **Collection Date:** 10/11/2012 12:40:00 PM  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004      **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]						
Aluminum	5500	4.3		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Barium	130	26		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Beryllium	ND	0.43		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Cadmium	ND	0.43		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Calcium	76000	220		mg/Kg-dry	5	10/19/2012 3:46:07 PM
Chromium	12	4.3		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Cobalt	3.3	3.1		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Copper	170	4.3		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Iron	11000	2.6		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Lead	120	8.6		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Magnesium	20000	220		mg/Kg-dry	5	10/19/2012 3:46:07 PM
Manganese	430	1.7		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Nickel	11	2.6		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Potassium	1400	43		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Silver	ND	4.3		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Sodium	130	43		mg/Kg-dry	1	10/16/2012 6:11:19 PM
Vanadium	13	26	J	mg/Kg-dry	1	10/16/2012 6:11:19 PM
Zinc	220	0.86		mg/Kg-dry	1	10/16/2012 6:11:19 PM

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]						
Antimony	ND	4.3	Q	mg/Kg-dry	10	10/18/2012 10:56:23 AM
Arsenic	4.5	4.3	Q	mg/Kg-dry	10	10/18/2012 10:56:23 AM
Selenium	ND	2.6		mg/Kg-dry	10	10/18/2012 10:56:23 AM
Thallium	ND	2.6		mg/Kg-dry	10	10/18/2012 10:56:23 AM

**NOTES:**

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]						
Mercury	1.57	0.102		mg/Kg-dry	1	10/16/2012 3:00:19 PM

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]						
(3+4)-Methylphenol	ND	970	Q	µg/Kg-dry	5	10/17/2012 7:03:00 PM
1,2,4,5-Tetrachlorobenzene	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004

**Client Sample ID:** SC-4  
**Collection Date:** 10/11/2012 12:40:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

1,2,4-Trichlorobenzene	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2,4,5-Trichlorophenol	ND	1900		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2,4,6-Trichlorophenol	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2,4-Dichlorophenol	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2,4-Dimethylphenol	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2,4-Dinitrophenol	ND	1900		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2,4-Dinitrotoluene	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2,6-Dinitrotoluene	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2-Chloronaphthalene	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2-Chlorophenol	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2-Methylnaphthalene	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2-Methylphenol	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2-Nitroaniline	ND	1900		µg/Kg-dry	5	10/17/2012 7:03:00 PM
2-Nitrophenol	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
3,3'-Dichlorobenzidine	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
3-Nitroaniline	ND	1900		µg/Kg-dry	5	10/17/2012 7:03:00 PM
4,6-Dinitro-2-methylphenol	ND	1900		µg/Kg-dry	5	10/17/2012 7:03:00 PM
4-Bromophenyl phenyl ether	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
4-Chloro-3-methylphenol	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
4-Chloroaniline	ND	970	Q	µg/Kg-dry	5	10/17/2012 7:03:00 PM
4-Chlorophenyl phenyl ether	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
4-Nitroaniline	ND	1900		µg/Kg-dry	5	10/17/2012 7:03:00 PM
4-Nitrophenol	ND	1900		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Acenaphthene	810	970	J	µg/Kg-dry	5	10/17/2012 7:03:00 PM
Acenaphthylene	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Acetophenone	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Anthracene	1900	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Atrazine	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Benz(a)anthracene	6400	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Benzaldehyde	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Benzo(a)pyrene	4600	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Benzo(b)fluoranthene	8600	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Benzo(g,h,i)perylene	1700	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Benzo(k)fluoranthene	2700	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Biphenyl	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Bis(2-chloroethoxy)methane	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Bis(2-chloroethyl)ether	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004

**Client Sample ID:** SC-4  
**Collection Date:** 10/11/2012 12:40:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

Bis(2-chloroisopropyl)ether	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Bis(2-ethylhexyl)phthalate	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Butyl benzyl phthalate	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Caprolactam	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Carbazole	980	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Chrysene	4700	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Di-n-butyl phthalate	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Di-n-octyl phthalate	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Dibenz(a,h)anthracene	560	970	J	µg/Kg-dry	5	10/17/2012 7:03:00 PM
Dibenzofuran	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Diethyl phthalate	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Dimethyl phthalate	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Fluoranthene	11000	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Fluorene	940	970	J	µg/Kg-dry	5	10/17/2012 7:03:00 PM
Hexachlorobenzene	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Hexachlorobutadiene	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Hexachlorocyclopentadiene	ND	970	Q	µg/Kg-dry	5	10/17/2012 7:03:00 PM
Hexachloroethane	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Indeno(1,2,3-cd)pyrene	2200	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Isophorone	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
N-Nitrosodi-n-propylamine	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
N-Nitrosodiphenylamine	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Naphthalene	250	970	J	µg/Kg-dry	5	10/17/2012 7:03:00 PM
Nitrobenzene	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Pentachlorophenol	ND	1900		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Phenanthrene	8200	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Phenol	ND	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM
Pyrene	16000	970		µg/Kg-dry	5	10/17/2012 7:03:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

1,2,3-Trichlorobenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,2,4-Trichlorobenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,2,4-Trimethylbenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM

#### Approved By:

#### Date:

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004

**Client Sample ID:** SC-4  
**Collection Date:** 10/11/2012 12:40:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL</b>						
				Lab Code: <b>8260_05_S</b>		Analyst: <b>KMP</b>
1,2-Dibromo-3-chloropropane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,2-Dibromoethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,2-Dichlorobenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,3,5-Trimethylbenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,3-Dichlorobenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,4-Dichlorobenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,4-Dioxane	ND	4600		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Bromochloromethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Cyclohexane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Dichlorodifluoromethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Freon-113	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Isopropylbenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Methyl Acetate	ND	230	Q	µg/Kg-dry	2	10/18/2012 2:03:00 PM
Methyl tert-butyl ether	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Methylcyclohexane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
n-Butylbenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
n-Propylbenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
sec-Butylbenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
tert-Butylbenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Trichlorofluoromethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Chloromethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Vinyl chloride	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Bromomethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Chloroethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,1-Dichloroethene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Carbon disulfide	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Methylene chloride	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
trans-1,2-Dichloroethene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,1-Dichloroethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
cis-1,2-Dichloroethene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Chloroform	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,1,1-Trichloroethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Carbon tetrachloride	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Benzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,2-Dichloroethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Trichloroethene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,2-Dichloropropane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-004

**Client Sample ID:** SC-4  
**Collection Date:** 10/11/2012 12:40:00 PM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: **8260\_05\_S**

Analyst: **KMP**

Bromodichloromethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
4-Methyl-2-pentanone	ND	460		µg/Kg-dry	2	10/18/2012 2:03:00 PM
cis-1,3-Dichloropropene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Toluene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
trans-1,3-Dichloropropene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,1,2-Trichloroethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
2-Hexanone	ND	460		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Tetrachloroethene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Dibromochloromethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Chlorobenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Ethylbenzene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
m,p-Xylene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
o-Xylene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Styrene	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
Bromoform	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM
1,1,2,2-Tetrachloroethane	ND	230		µg/Kg-dry	2	10/18/2012 2:03:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

Low quality control recoveries were observed at a lower dilution.

Elevated detection limits due to sample not being collected in accordance with USEPA Method 5035A low level sampling specifications.

### PERCENT MOISTURE BY ASTM D2216

Lab Code: **PMOIST**

Analyst: **DEB**

Percent Moisture	12.7	0.0100		wt%	1	10/16/2012
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Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

Cooler Temp. at Receipt	<6	6		°C		10/11/2012 10:20:00 AM
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### PEST/PCB IN SOIL/SLUDGE BY EPA 8081A/8082

Lab Code: **8081A/8082\_S**

Analyst: **EA**

[Soil Prep/Sonication/Pesticides by EPA 3550 Prep Code: 3550\_PEST Prep Date: 10/17/2012 10:19:24 AM Prep By: DMD]

4,4'-DDD	240	120		µg/Kg-dry	25	10/18/2012
4,4'-DDE	1500	120		µg/Kg-dry	25	10/18/2012
4,4'-DDT	3600	460		µg/Kg-dry	100	10/18/2012
Aldrin	ND	60		µg/Kg-dry	25	10/18/2012
alpha-BHC	ND	60		µg/Kg-dry	25	10/18/2012
alpha-Chlordane	ND	60		µg/Kg-dry	25	10/18/2012
Aroclor 1016	ND	1200		µg/Kg-dry	25	10/18/2012
Aroclor 1221	ND	1200		µg/Kg-dry	25	10/18/2012
Aroclor 1232	ND	1200		µg/Kg-dry	25	10/18/2012
Aroclor 1242	ND	1200		µg/Kg-dry	25	10/18/2012
Aroclor 1248	ND	1200		µg/Kg-dry	25	10/18/2012
Aroclor 1254	ND	1200		µg/Kg-dry	25	10/18/2012
Aroclor 1260	ND	1200		µg/Kg-dry	25	10/18/2012
beta-BHC	ND	60		µg/Kg-dry	25	10/18/2012
delta-BHC	ND	60		µg/Kg-dry	25	10/18/2012
Dieldrin	12000	4600		µg/Kg-dry	1000	10/18/2012
Endosulfan I	ND	60		µg/Kg-dry	25	10/18/2012
Endosulfan II	ND	120		µg/Kg-dry	25	10/18/2012
Endosulfan sulfate	ND	120		µg/Kg-dry	25	10/18/2012
Endrin	ND	120		µg/Kg-dry	25	10/18/2012
Endrin aldehyde	ND	120		µg/Kg-dry	25	10/18/2012
Endrin ketone	ND	120		µg/Kg-dry	25	10/18/2012
gamma-BHC	ND	60		µg/Kg-dry	25	10/18/2012
gamma-Chlordane	ND	60		µg/Kg-dry	25	10/18/2012
Heptachlor	ND	60		µg/Kg-dry	25	10/18/2012
Heptachlor epoxide	ND	60		µg/Kg-dry	25	10/18/2012
Methoxychlor	990	600	Q	µg/Kg-dry	25	10/18/2012
Toxaphene	ND	6000		µg/Kg-dry	25	10/18/2012

#### NOTES:

The reporting limits were raised due to the high concentration of target compounds.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: **6010B-S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

Aluminum	5600	33		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Barium	260	200		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Beryllium	ND	3.3		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Cadmium	3.6	3.3		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Calcium	74000	330		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Chromium	43	33		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Cobalt	ND	24		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Copper	460	33		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Iron	34000	20		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Lead	2200	66		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Magnesium	7300	330		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Manganese	360	13		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Nickel	61	20		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Potassium	950	330		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Silver	ND	33		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Sodium	1200	330		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Vanadium	ND	200		mg/Kg-dry	5	10/16/2012 6:18:19 PM
Zinc	1400	6.6		mg/Kg-dry	5	10/16/2012 6:18:19 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: **6020\_S**

Analyst: **ALW**

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

Antimony	ND	6.6	Q	mg/Kg-dry	10	10/18/2012 10:56:23 AM
Arsenic	9.7	6.6		mg/Kg-dry	10	10/18/2012 10:56:23 AM
Selenium	ND	4.0		mg/Kg-dry	10	10/18/2012 10:56:23 AM
Thallium	ND	4.0		mg/Kg-dry	10	10/18/2012 10:56:23 AM

#### NOTES:

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: **7471A**

Analyst: **LET**

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]

Mercury	12.6	0.656		mg/Kg-dry	5	10/16/2012 3:52:35 PM
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: **8270\_05\_S**

Analyst: **LD**

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

#### Approved By:

#### Date:

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>TCL-SEMIVOLATILE ORGANICS BY EPA 8270D</b>						
[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550_BNA			Lab Code: <b>8270_05_S</b>		Analyst: <b>LD</b>	
Prep Date: 10/16/2012 11:08:23 AM			Prep By: DMD]			
(3+4)-Methylphenol	ND	48000	Q	µg/Kg-dry	100	10/17/2012 7:27:00 PM
1,2,4,5-Tetrachlorobenzene	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
1,2,4-Trichlorobenzene	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2,4,5-Trichlorophenol	ND	93000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2,4,6-Trichlorophenol	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2,4-Dichlorophenol	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2,4-Dimethylphenol	9700	48000	J	µg/Kg-dry	100	10/17/2012 7:27:00 PM
2,4-Dinitrophenol	ND	93000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2,4-Dinitrotoluene	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2,6-Dinitrotoluene	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2-Chloronaphthalene	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2-Chlorophenol	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2-Methylnaphthalene	83000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2-Methylphenol	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2-Nitroaniline	ND	93000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
2-Nitrophenol	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
3,3'-Dichlorobenzidine	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
3-Nitroaniline	ND	93000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
4,6-Dinitro-2-methylphenol	ND	93000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
4-Bromophenyl phenyl ether	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
4-Chloro-3-methylphenol	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
4-Chloroaniline	ND	48000	Q	µg/Kg-dry	100	10/17/2012 7:27:00 PM
4-Chlorophenyl phenyl ether	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
4-Nitroaniline	ND	93000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
4-Nitrophenol	ND	93000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Acenaphthene	120000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Acenaphthylene	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Acetophenone	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Anthracene	200000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Atrazine	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Benz(a)anthracene	250000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Benzaldehyde	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Benzo(a)pyrene	170000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Benzo(b)fluoranthene	240000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Benzo(g,h,i)perylene	63000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Benzo(k)fluoranthene	110000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Biphenyl	19000	48000	J	µg/Kg-dry	100	10/17/2012 7:27:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

Bis(2-chloroethoxy)methane	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Bis(2-chloroethyl)ether	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Bis(2-chloroisopropyl)ether	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Bis(2-ethylhexyl)phthalate	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Butyl benzyl phthalate	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Caprolactam	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Carbazole	80000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Chrysene	170000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Di-n-butyl phthalate	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Di-n-octyl phthalate	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Dibenz(a,h)anthracene	20000	48000	J	µg/Kg-dry	100	10/17/2012 7:27:00 PM
Dibenzofuran	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Diethyl phthalate	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Dimethyl phthalate	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Fluoranthene	460000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Fluorene	150000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Hexachlorobenzene	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Hexachlorobutadiene	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Hexachlorocyclopentadiene	ND	48000	Q	µg/Kg-dry	100	10/17/2012 7:27:00 PM
Hexachloroethane	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Indeno(1,2,3-cd)pyrene	76000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Isophorone	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
N-Nitrosodi-n-propylamine	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
N-Nitrosodiphenylamine	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Naphthalene	200000	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Nitrobenzene	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Pentachlorophenol	ND	93000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Phenanthrene	800000	96000		µg/Kg-dry	200	10/18/2012 9:23:00 PM
Phenol	ND	48000		µg/Kg-dry	100	10/17/2012 7:27:00 PM
Pyrene	610000	96000		µg/Kg-dry	200	10/18/2012 9:23:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

1,2,3-Trichlorobenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
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#### Approved By:

#### Date:

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL</b>						
				Lab Code: <b>8260_05_S</b>		Analyst: <b>KMP</b>
1,2,4-Trichlorobenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,2,4-Trimethylbenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,2-Dibromo-3-chloropropane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,2-Dibromoethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,2-Dichlorobenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,3,5-Trimethylbenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,3-Dichlorobenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,4-Dichlorobenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,4-Dioxane	ND	5600		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Bromochloromethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Cyclohexane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Dichlorodifluoromethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Freon-113	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Isopropylbenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Methyl Acetate	ND	280	Q	µg/Kg-dry	2	10/18/2012 2:44:00 PM
Methyl tert-butyl ether	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Methylcyclohexane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
n-Butylbenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
n-Propylbenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
sec-Butylbenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
tert-Butylbenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Trichlorofluoromethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Chloromethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Vinyl chloride	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Bromomethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Chloroethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,1-Dichloroethene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Carbon disulfide	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Methylene chloride	15	280	J	µg/Kg-dry	2	10/18/2012 2:44:00 PM
trans-1,2-Dichloroethene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,1-Dichloroethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
cis-1,2-Dichloroethene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Chloroform	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,1,1-Trichloroethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Carbon tetrachloride	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Benzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,2-Dichloroethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-005

**Client Sample ID:** MSS-5  
**Collection Date:** 10/11/2012 10:20:00 AM  
**Matrix:** SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### METHOD 5035/8260B 2005 LIST VOLATILES IN SOIL

Lab Code: 8260\_05\_S

Analyst: KMP

Trichloroethene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,2-Dichloropropane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Bromodichloromethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
4-Methyl-2-pentanone	ND	560		µg/Kg-dry	2	10/18/2012 2:44:00 PM
cis-1,3-Dichloropropene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Toluene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
trans-1,3-Dichloropropene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,1,2-Trichloroethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
2-Hexanone	ND	560		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Tetrachloroethene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Dibromochloromethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Chlorobenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Ethylbenzene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
m,p-Xylene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
o-Xylene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Styrene	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
Bromoform	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM
1,1,2,2-Tetrachloroethane	ND	280		µg/Kg-dry	2	10/18/2012 2:44:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

Internal standard recoveries failed low established QC limits. Subsequent re-analysis yielded similar results.

Elevated detection limits due to sample not being collected in accordance with USEPA Method 5035A low level sampling specifications.

### PERCENT MOISTURE BY ASTM D2216

Lab Code: PMOIST

Analyst: DEB

Percent Moisture	29.0	0.0100		wt%	1	10/16/2012
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Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### FIELD PARAMETERS

Lab Code: **FIELD**

Analyst:

Cooler Temp. at Receipt	<6	6		°C		10/11/2012 10:10:00 AM
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### PEST/PCB WASTEWATERS BY EPA 8081A/8082

Lab Code: **8081A/8082\_W**

Analyst: **EA**

[AqPrep Sep Funnel: Pest/PCB by EPA 3510C Prep Code: 3510\_PEST Prep Date: 10/17/2012 8:12:23 AM Prep By: DMD]

4,4'-DDD	ND	0.21		µg/L	2	10/18/2012
4,4'-DDE	ND	0.21		µg/L	2	10/18/2012
4,4'-DDT	ND	0.21		µg/L	2	10/18/2012
Aldrin	ND	0.11		µg/L	2	10/18/2012
alpha-BHC	ND	0.11		µg/L	2	10/18/2012
alpha-Chlordane	ND	0.11		µg/L	2	10/18/2012
Aroclor 1016	ND	2.1		µg/L	2	10/18/2012
Aroclor 1221	ND	2.1		µg/L	2	10/18/2012
Aroclor 1232	ND	2.1		µg/L	2	10/18/2012
Aroclor 1242	ND	2.1		µg/L	2	10/18/2012
Aroclor 1248	ND	2.1		µg/L	2	10/18/2012
Aroclor 1254	ND	2.1		µg/L	2	10/18/2012
Aroclor 1260	ND	2.1		µg/L	2	10/18/2012
beta-BHC	ND	0.21		µg/L	2	10/18/2012
delta-BHC	ND	0.21		µg/L	2	10/18/2012
Dieldrin	0.51	0.21		µg/L	2	10/18/2012
Endosulfan I	ND	0.11		µg/L	2	10/18/2012
Endosulfan II	ND	0.21		µg/L	2	10/18/2012
Endosulfan sulfate	ND	0.21		µg/L	2	10/18/2012
Endrin	ND	0.21		µg/L	2	10/18/2012
Endrin aldehyde	ND	0.21		µg/L	2	10/18/2012
Endrin ketone	ND	0.21		µg/L	2	10/18/2012
gamma-BHC	ND	0.11		µg/L	2	10/18/2012
gamma-Chlordane	ND	0.11		µg/L	2	10/18/2012
Heptachlor	ND	0.11		µg/L	2	10/18/2012
Heptachlor epoxide	ND	0.11		µg/L	2	10/18/2012
Methoxychlor	ND	1.1		µg/L	2	10/18/2012
Toxaphene	ND	11		µg/L	2	10/18/2012

#### NOTES:

The reporting limits were raised due to matrix interference.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

Page 31 of 40

**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
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B Analyte detected in the associated Method Blank  
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ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### ICP METALS, TOTAL BY EPA 200.7

Lab Code: **200.7WT**

Analyst: **MRA**

[AqPrep ICP - EPA 3005A Prep Code: 200.7TPR Prep Date: 10/15/2012 8:28:09 AM Prep By: ARO]

Aluminum	ND	0.25		mg/L	5	10/16/2012 3:04:01 PM
Barium	1.0	1.5	QJ	mg/L	5	10/16/2012 3:04:01 PM
Beryllium	ND	0.025		mg/L	5	10/16/2012 3:04:01 PM
Cadmium	ND	0.025		mg/L	5	10/16/2012 3:04:01 PM
Calcium	310	2.5		mg/L	5	10/16/2012 3:04:01 PM
Chromium	ND	0.25		mg/L	5	10/16/2012 3:04:01 PM
Cobalt	ND	0.25		mg/L	5	10/16/2012 3:04:01 PM
Copper	ND	0.10		mg/L	5	10/16/2012 3:04:01 PM
Iron	ND	0.15	Q	mg/L	5	10/16/2012 3:04:01 PM
Lead*	ND	0.015		mg/L	5	10/16/2012 3:04:01 PM
Magnesium	95	2.5	Q	mg/L	5	10/16/2012 3:04:01 PM
Manganese	0.15	0.10		mg/L	5	10/16/2012 3:04:01 PM
Nickel	ND	0.15		mg/L	5	10/16/2012 3:04:01 PM
Potassium	7.4	2.5		mg/L	5	10/16/2012 3:04:01 PM
Silver	ND	0.050		mg/L	1	10/16/2012 11:12:40 AM
Sodium	240	2.5		mg/L	5	10/16/2012 3:04:01 PM
Vanadium	ND	1.5		mg/L	5	10/16/2012 3:04:01 PM
Zinc	ND	0.050		mg/L	5	10/16/2012 3:04:01 PM

**NOTES:**

The reporting limits were raised due to matrix interference.  
 Sample preserved in lab on 10/12/12 at 9:44am.

### ICP-MS METALS, TOTALS BY EPA 200.8

Lab Code: **200.8**

Analyst: **LET**

[AqPrep ICP-MS - EPA 3005A Prep Code: 200.8TPR Prep Date: 10/15/2012 9:03:15 AM Prep By: ARO]

Antimony	ND	0.015		mg/L	5	10/19/2012 11:52:00 AM
Arsenic	ND	0.050		mg/L	5	10/19/2012 11:52:00 AM
Lead	0.014	0.0050		mg/L	5	10/19/2012 11:52:00 AM
Selenium	ND	0.025		mg/L	5	10/19/2012 11:52:00 AM
Thallium	ND	0.015		mg/L	5	10/19/2012 11:52:00 AM

**NOTES:**

The reporting limits were raised due to matrix interference.  
 Analytical Note: Sample preserved in laboratory on 10/12/12 at 9:44AM.

### TOTAL MERCURY WATERS BY EPA 245.2

Lab Code: **245.2WT**

Analyst: **LET**

[Hg Total Prep by 245.2 Prep Code: 245.2TPR Prep Date: 10/16/2012 9:20:02 AM Prep By: ARO]

Mercury	ND	0.0004		mg/L	1	10/16/2012 3:23:38 PM
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Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>TCL-SEMIVOLATILE ORGANICS BY EPA 8270D</b>						
			Lab Code: <b>8270_05_W</b>		Analyst: <b>LD</b>	
[AqPrep Sep Funnel:BNA by EPA 3510C Prep Code: 3510_BNA Prep Date: 10/12/2012 1:25:46 PM Prep By: DMD]						
(3+4)-Methylphenol	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
1,2,4,5-Tetrachlorobenzene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
1,2,4-Trichlorobenzene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	10/15/2012 8:33:00 PM
2,4,6-Trichlorophenol	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
2,4-Dichlorophenol	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
2,4-Dimethylphenol	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
2,4-Dinitrophenol	ND	11		µg/L	1	10/15/2012 8:33:00 PM
2,4-Dinitrotoluene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
2,6-Dinitrotoluene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
2-Chloronaphthalene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
2-Chlorophenol	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
2-Methylnaphthalene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
2-Methylphenol	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
2-Nitroaniline	ND	11		µg/L	1	10/15/2012 8:33:00 PM
2-Nitrophenol	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
3,3'-Dichlorobenzidine	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
3-Nitroaniline	ND	11		µg/L	1	10/15/2012 8:33:00 PM
4,6-Dinitro-2-methylphenol	ND	11		µg/L	1	10/15/2012 8:33:00 PM
4-Bromophenyl phenyl ether	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
4-Chloro-3-methylphenol	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
4-Chloroaniline	ND	5.5	Q	µg/L	1	10/15/2012 8:33:00 PM
4-Chlorophenyl phenyl ether	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
4-Nitroaniline	ND	11		µg/L	1	10/15/2012 8:33:00 PM
4-Nitrophenol	ND	11	Q	µg/L	1	10/15/2012 8:33:00 PM
Acenaphthene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Acenaphthylene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Acetophenone	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Anthracene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Atrazine	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Benz(a)anthracene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Benzaldehyde	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Benzo(a)pyrene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Benzo(b)fluoranthene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Benzo(g,h,i)perylene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Benzo(k)fluoranthene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Biphenyl	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_W

Analyst: LD

[AqPrep Sep Funnel:BNA by EPA 3510C Prep Code: 3510\_BNA Prep Date: 10/12/2012 1:25:46 PM Prep By: DMD]

Bis(2-chloroethoxy)methane	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Bis(2-chloroethyl)ether	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Bis(2-chloroisopropyl)ether	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Bis(2-ethylhexyl)phthalate	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Butyl benzyl phthalate	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Caprolactam	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Carbazole	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Chrysene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Di-n-butyl phthalate	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Di-n-octyl phthalate	ND	5.5	Q	µg/L	1	10/15/2012 8:33:00 PM
Dibenz(a,h)anthracene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Dibenzofuran	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Diethyl phthalate	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Dimethyl phthalate	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Fluoranthene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Fluorene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Hexachlorobenzene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Hexachlorobutadiene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Hexachlorocyclopentadiene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Hexachloroethane	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Indeno(1,2,3-cd)pyrene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Isophorone	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
N-Nitrosodi-n-propylamine	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
N-Nitrosodiphenylamine	ND	5.5	Q	µg/L	1	10/15/2012 8:33:00 PM
Naphthalene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Nitrobenzene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Pentachlorophenol	ND	11		µg/L	1	10/15/2012 8:33:00 PM
Phenanthrene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM
Phenol	ND	5.5	Q	µg/L	1	10/15/2012 8:33:00 PM
Pyrene	ND	5.5		µg/L	1	10/15/2012 8:33:00 PM

### METHOD 5030/8260B 2005 LIST VOLATILES - WATER

Lab Code: 8260\_05\_W

Analyst: EMZ

1,1,1-Trichloroethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,1,2,2-Tetrachloroethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,1,2-Trichloroethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM

### Approved By:

### Date:

Page 34 of 40

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 \*\* Value exceeds Maximum Contaminant Value  
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 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>METHOD 5030/8260B 2005 LIST VOLATILES - WATER</b>						
				Lab Code: <b>8260_05_W</b>		Analyst: <b>EMZ</b>
1,1-Dichloroethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,1-Dichloroethene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,2,3-Trichlorobenzene	ND	25	Q	µg/L	5	10/17/2012 9:49:00 PM
1,2,4-Trichlorobenzene	ND	25	Q	µg/L	5	10/17/2012 9:49:00 PM
1,2,4-Trimethylbenzene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,2-Dibromo-3-chloropropane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,2-Dibromoethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,2-Dichlorobenzene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,2-Dichloroethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,2-Dichloropropane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,3,5-Trimethylbenzene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,3-Dichlorobenzene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,4-Dichlorobenzene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
1,4-Dioxane	ND	500		µg/L	5	10/17/2012 9:49:00 PM
2-Butanone	ND	50		µg/L	5	10/17/2012 9:49:00 PM
2-Hexanone	ND	50	Q	µg/L	5	10/17/2012 9:49:00 PM
4-Methyl-2-pentanone	ND	50		µg/L	5	10/17/2012 9:49:00 PM
Acetone	93	50		µg/L	5	10/17/2012 9:49:00 PM
Benzene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Bromochloromethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Bromodichloromethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Bromoform	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Bromomethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Carbon disulfide	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Carbon tetrachloride	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Chlorobenzene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Chloroethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Chloroform	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Chloromethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
cis-1,2-Dichloroethene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
cis-1,3-Dichloropropene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Cyclohexane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Dibromochloromethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Dichlorodifluoromethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Ethylbenzene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Freon-113	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Isopropylbenzene	ND	25	Q	µg/L	5	10/17/2012 9:49:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:** # Accreditation not offered by NYS DOH for this parameter  
 \*\* Value exceeds Maximum Contaminant Value  
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 J Analyte detected below quantitation limits  
 Q Outlying QC recoveries were associated with this parameter

\* Low Level  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-006

**Client Sample ID:** MSW-6  
**Collection Date:** 10/11/2012 10:10:00 AM  
**Matrix:** WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### METHOD 5030/8260B 2005 LIST VOLATILES - WATER

Lab Code: 8260\_05\_W

Analyst: EMZ

m,p-Xylene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Methyl Acetate	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Methyl tert-butyl ether	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Methylcyclohexane	ND	25	Q	µg/L	5	10/17/2012 9:49:00 PM
Methylene chloride	ND	25		µg/L	5	10/17/2012 9:49:00 PM
n-Butylbenzene	ND	25	Q	µg/L	5	10/17/2012 9:49:00 PM
n-Propylbenzene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
o-Xylene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
sec-Butylbenzene	ND	25	Q	µg/L	5	10/17/2012 9:49:00 PM
Styrene	ND	25	Q	µg/L	5	10/17/2012 9:49:00 PM
tert-Butylbenzene	ND	25	Q	µg/L	5	10/17/2012 9:49:00 PM
Tetrachloroethene	ND	25	Q	µg/L	5	10/17/2012 9:49:00 PM
Toluene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
trans-1,2-Dichloroethene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
trans-1,3-Dichloropropene	ND	25	Q	µg/L	5	10/17/2012 9:49:00 PM
Trichloroethene	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Trichlorofluoromethane	ND	25		µg/L	5	10/17/2012 9:49:00 PM
Vinyl chloride	ND	25		µg/L	5	10/17/2012 9:49:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.  
 Sample foamed during purging procedure.

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

- # Accreditation not offered by NYS DOH for this parameter
- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Q Outlying QC recoveries were associated with this parameter

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

CLIENT: Groundwater & Environmental Services

Client Sample ID: RS-7

Lab Order: U1210333

Collection Date: 10/11/2012 10:45:00 AM

Project: 0901516 - 1100 Niagara Street

Lab ID: U1210333-007

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### FIELD PARAMETERS

Lab Code: FIELD

Analyst:

Cooler Temp. at Receipt	<6	6		°C		10/11/2012 10:45:00 AM
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### SOIL AND SOLID METALS ICP BY EPA 6010B

Lab Code: 6010B-S

Analyst: ALW

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

Aluminum	1500	4.9		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Barium	640	29		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Beryllium	ND	0.49		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Cadmium	230	0.49		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Calcium	42000	49		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Chromium	11	4.9		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Cobalt	ND	3.5		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Copper	31	4.9		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Iron	9400	2.9		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Lead	59000	250	Q	mg/Kg-dry	25	10/20/2012 3:22:13 PM
Magnesium	8200	49		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Manganese	1100	2.0		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Nickel	6.1	2.9		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Potassium	590	49		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Silver	4.2	4.9	J	mg/Kg-dry	1	10/16/2012 6:25:04 PM
Sodium	10000	49		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Vanadium	34	29		mg/Kg-dry	1	10/16/2012 6:25:04 PM
Zinc	75000	25	Q	mg/Kg-dry	25	10/20/2012 3:22:13 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

### SOIL AND SOLID METALS ICP-MS BY EPA 6020

Lab Code: 6020\_S

Analyst: ALW

[Solid Prep Total Metals by EPA 3050B Prep Code: 3050\_I Prep Date: 10/15/2012 9:53:44 AM Prep By: ARO]

Antimony	ND	12	Q	mg/Kg-dry	25	10/18/2012 10:56:23 AM
Arsenic	66	12		mg/Kg-dry	25	10/18/2012 10:56:23 AM
Selenium	35	7.4		mg/Kg-dry	25	10/18/2012 10:56:23 AM
Thallium	ND	7.4		mg/Kg-dry	25	10/18/2012 10:56:23 AM

#### NOTES:

The reporting limits were raised due to matrix interference.

### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: 7471A

Analyst: LET

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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Qualifiers: # Accreditation not offered by NYS DOH for this parameter  
\*\* Value exceeds Maximum Contaminant Value  
E Value above quantitation range  
J Analyte detected below quantitation limits  
Q Outlying QC recoveries were associated with this parameter

\* Low Level  
B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-007

**Client Sample ID:** RS-7  
**Collection Date:** 10/11/2012 10:45:00 AM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TOTAL MERCURY - SOIL/SOLID/WASTE BY EPA 7471A

Lab Code: 7471A

Analyst: LET

[Total Mercury Prep - Soil/Solid/Waste by 7471A Prep Code: 7471APR Prep Date: 10/15/2012 11:09:29 AM Prep By: ARO]  
 Mercury 6.91 0.474 mg/Kg-dry 5 10/16/2012 3:55:29 PM

### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

(3+4)-Methylphenol	ND	70000	Q	µg/Kg-dry	100	10/17/2012 7:50:00 PM
1,2,4,5-Tetrachlorobenzene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
1,2,4-Trichlorobenzene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2,4,5-Trichlorophenol	ND	140000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2,4,6-Trichlorophenol	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2,4-Dichlorophenol	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2,4-Dimethylphenol	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2,4-Dinitrophenol	ND	140000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2,4-Dinitrotoluene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2,6-Dinitrotoluene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2-Chloronaphthalene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2-Chlorophenol	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2-Methylnaphthalene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2-Methylphenol	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2-Nitroaniline	ND	140000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
2-Nitrophenol	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
3,3'-Dichlorobenzidine	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
3-Nitroaniline	ND	140000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
4,6-Dinitro-2-methylphenol	ND	140000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
4-Bromophenyl phenyl ether	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
4-Chloro-3-methylphenol	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
4-Chloroaniline	ND	70000	Q	µg/Kg-dry	100	10/17/2012 7:50:00 PM
4-Chlorophenyl phenyl ether	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
4-Nitroaniline	ND	140000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
4-Nitrophenol	ND	140000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Acenaphthene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Acenaphthylene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Acetophenone	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Anthracene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Atrazine	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Benz(a)anthracene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Benzaldehyde	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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**Qualifiers:**

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# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

**CLIENT:** Groundwater & Environmental Services  
**Lab Order:** U1210333  
**Project:** 0901516 - 1100 Niagara Street  
**Lab ID:** U1210333-007

**Client Sample ID:** RS-7  
**Collection Date:** 10/11/2012 10:45:00 AM  
**Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### TCL-SEMIVOLATILE ORGANICS BY EPA 8270D

Lab Code: 8270\_05\_S

Analyst: LD

[Soil Pr. Sonication BNA by EPA 3550B Prep Code: 3550\_BNA Prep Date: 10/16/2012 11:08:23 AM Prep By: DMD]

Benzo(a)pyrene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Benzo(b)fluoranthene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Benzo(g,h,i)perylene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Benzo(k)fluoranthene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Biphenyl	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Bis(2-chloroethoxy)methane	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Bis(2-chloroethyl)ether	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Bis(2-chloroisopropyl)ether	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Bis(2-ethylhexyl)phthalate	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Butyl benzyl phthalate	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Caprolactam	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Carbazole	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Chrysene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Di-n-butyl phthalate	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Di-n-octyl phthalate	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Dibenz(a,h)anthracene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Dibenzofuran	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Diethyl phthalate	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Dimethyl phthalate	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Fluoranthene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Fluorene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Hexachlorobenzene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Hexachlorobutadiene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Hexachlorocyclopentadiene	ND	70000	Q	µg/Kg-dry	100	10/17/2012 7:50:00 PM
Hexachloroethane	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Indeno(1,2,3-cd)pyrene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Isophorone	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
N-Nitrosodi-n-propylamine	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
N-Nitrosodiphenylamine	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Naphthalene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Nitrobenzene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Pentachlorophenol	ND	140000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Phenanthrene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Phenol	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM
Pyrene	ND	70000		µg/Kg-dry	100	10/17/2012 7:50:00 PM

#### NOTES:

The reporting limits were raised due to matrix interference.

#### Approved By:

#### Date:

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 S Spike Recovery outside accepted recovery limits



# Upstate Laboratories, Inc.

## Analytical Report

Date: 23-Oct-12

CLIENT: Groundwater & Environmental Services

Client Sample ID: RS-7

Lab Order: U1210333

Collection Date: 10/11/2012 10:45:00 AM

Project: 0901516 - 1100 Niagara Street

Lab ID: U1210333-007

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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### PERCENT MOISTURE BY ASTM D2216

Lab Code: PMOIST

Analyst: DEB

Percent Moisture	2.36	0.0100		wt%	1	10/16/2012
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Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

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