

**INTEGRATED ASSESSMENT REPORT
BUCKBEE-MEARS
30 KELLOGG ROAD
CORTLAND, NEW YORK**

CERCLIS ID No.: NYN000205908

VOLUME 1 OF 2

EPA Contract No.: EP-S5-06-04
W.O. No.: 20405.012.013.0475.00
Document Control No.: 475-2A-ADPE

August 2009

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Prepared by:

Region 2 Site Assessment Team 2
Weston Solutions, Inc.
Edison, New Jersey 08837

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SUBMITTED BY:



Gerald V. Gilliland, P.G.
SAT 2 Project Manager

Date: August 5, 2009



W. Scott Butterfield, CHMM
SAT 2 Program Manager

Date: August 5, 2009

SITE SUMMARY

The Buckbee-Mears (BM) site (CERCLIS ID No. NYN000205908) is a former manufacturer of aperture masks for use in cathode ray tube (CRT) monitors [Ref. 1, p. 1; 2, p. 3; 3, p.5; 4, pp. 59, 110]. The BM facility occupies approximately 50 acres of property in a mixed industrial, commercial, and residential area [Ref. 2, pp. 3, 10; 4, p. 127]. The site is bordered to the north by Kellogg Road; to the east by an agricultural field; and to the south and west by a wooded area. The geographic coordinates of the site are 42.59158° N latitude and 76.15969° W longitude [Ref. 2, p. 3; 5, pp. 1-2; 6, p. 1]. A Site Location Map is presented in Figure 1 [Ref. 7, Figure 1].

The BM facility is owned by International Electron Devices (USA), LLC (hereinafter referred to as 'IED'), which purchased the facility from BMC Industries, Inc. in October 2004 [Ref. 4, pp. 32, 42-43, 128, 130; 8, p. 62]. There were several buildings on site, including a former manufacturing building, a flammable storage building, a hazardous waste storage garage, a waste treatment system containing three clarifiers, and a sludge dewatering unit; an asphalt-paved parking area; and a gravel parking area [Ref. 2, p. 3; 3, pp. 5, 291; 4, p. 31]. The site is surrounded by a gated chain-link fence, and both pedestrian and vehicular access is restricted. In addition, 24-hour security is currently in place with access to the facility through a gate fronting Kellogg Road [Ref. 2, p. 3; 3, p. 5; 7, Figure 2; 9, pp. 3, 4]. The site layout as of early 2007 can be seen in Figure 2 [Ref. 7, Figure 2].

Prior to 1973, the BM site consisted of agricultural land. From approximately 1973 until May 2005, the facility manufactured aperture masks for use in CRT monitors. IED closed the facility in May 2005 due to a lack of funding and abandoned the site [Ref. 2, p. 3; 3, p.5; 4, pp. 32, 42, 59, 110]. Chemicals used during former operations and subsequently abandoned on site included ferric chloride, hydrochloric acid, sodium and potassium hydroxide, anhydrous ammonia, chromic acid, nitric acid, sulfuric acid, chlorine (liquid and gas), and proprietary oxidizing compounds [Ref. 3, p. 5; 4, pp. 3-12]. Process chemicals were stored on site in 18 bulk storage tanks, and were conveyed to the manufacturing process equipment through approximately 350,000 linear feet of chemical feed lines. Wastes generated by on-site manufacturing processes were either treated by the waste treatment system, or were transported off site for disposal [Ref. 2, p. 3]. At the time of active operations at the site, Buckbee-Mears was classified as a Large Quantity Generator (LQG) of hazardous waste under the Resource Conservation and Recovery Act (RCRA) [Ref. 8, pp. 57-61]. Releases of hazardous materials and violations of hazardous waste regulations have been documented at the site [Ref. 4, pp. 17-28, 42-49; 8, pp. 1-63].

In July 2006, the Cortland Police Department (CPD) responded to a report of vandalism and became concerned when they discovered the large amount of chemicals that had been abandoned at the site. The CPD subsequently notified New York Department of Environmental Conservation (NYSDEC) of their findings [Ref. 4, pp. 8, 32]. On July 27, 2006, representatives from NYSDEC, CPD, Cortland Fire Department (CFD), and U.S. Environmental Protection Agency (EPA) conducted a site visit that resulted in the determination of an EPA removal action due to the high potential for a chemical release [Ref. 4, pp. 8-9, 17-28, 32].

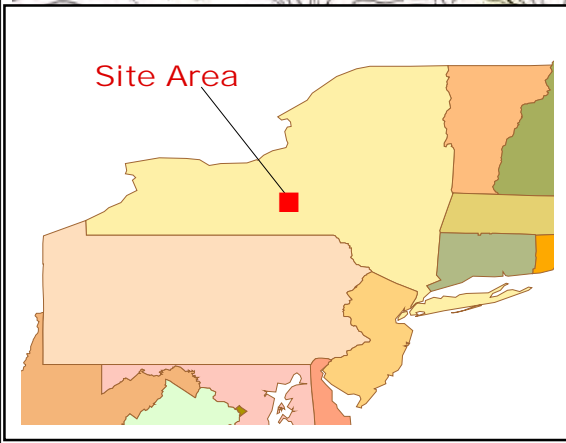
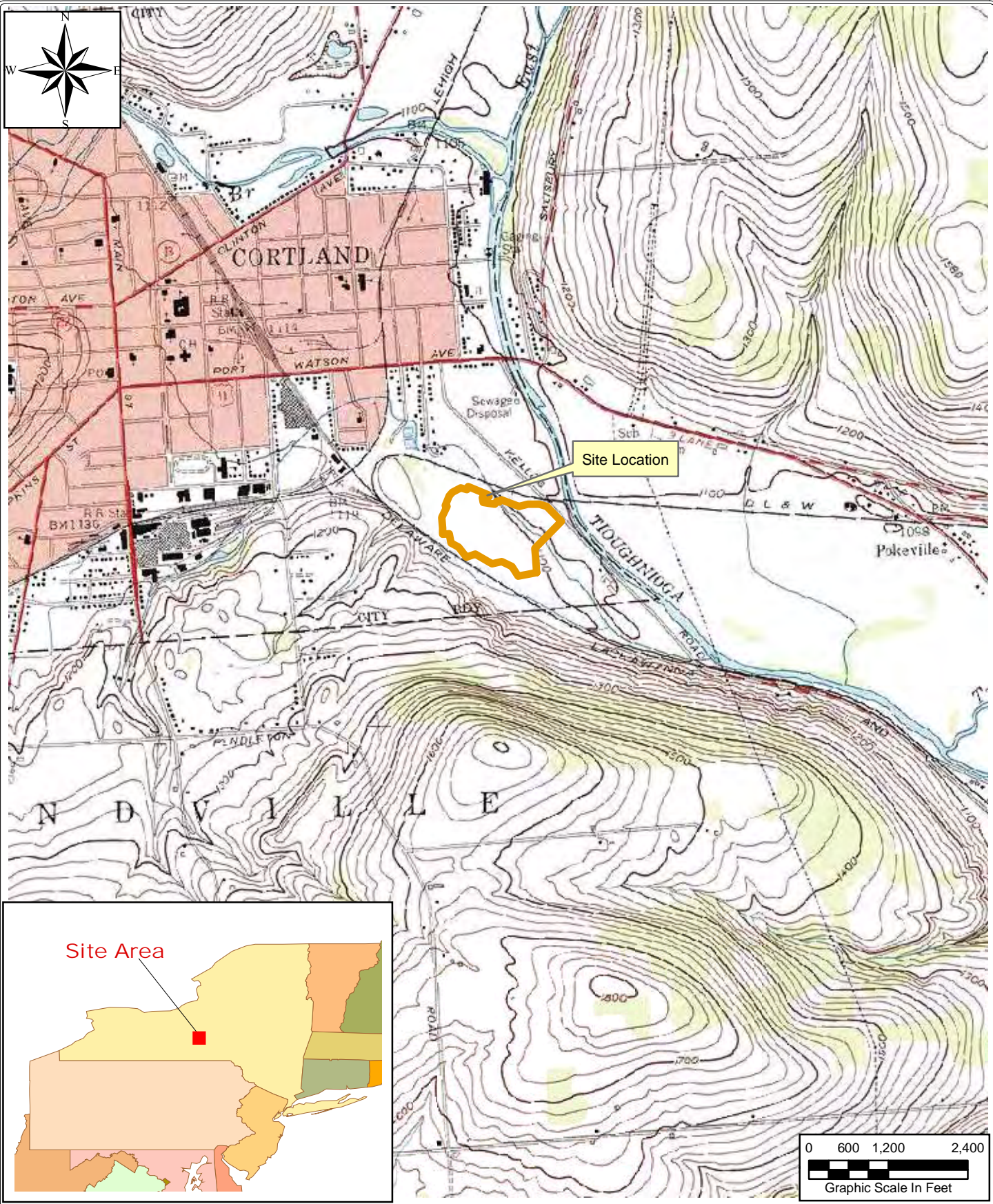
During the July 2006 site visit, numerous hazardous substances were observed to be present in drums, tanks and cylinders throughout the abandoned facility. On August 1, 2006, NYSDEC formally requested that EPA conduct a CERCLA removal action [Ref. 4, pp. 14-15]. In January

2007, EPA initiated a Removal Action at the site. Removal activities conducted to date have included but are not limited to the following: inventory of all on-site chemicals and hazardous wastes, disposal of more than 6,000 containers of chemical wastes, emptying and disposal of 17 of the 18 bulk chemical storage tanks, removal of approximately 153,000 linear feet of chemical feed lines, and demolition of two on-site buildings. Hazardous substances removed from the site have included hydrochloric acid, sulfuric acid, chromic acid, and anhydrous ammonia [Ref. 3, p. 5; 4, pp. 31-35, 121-132; 9, p. 2].

In August 2007, as part of the EPA removal activities, Region 2 Removal Support Team (RST) personnel collected water and sludge samples from several sumps located within the manufacturing buildings. Analytical results of the water samples indicated the presence of chromium, lead, and mercury at concentrations above detection limits. Analytical results of the sludge samples indicated the presence of arsenic and chromium at concentrations above the detection limit. The highest chromium concentrations were detected in samples collected from Building 2, which has since been demolished. In addition, RST personnel collected concrete, solid waste, dust, and wipe samples from the site. Analytical results of the waste, dust, and wipe samples indicated the presence of arsenic, barium, chromium, lead, and mercury at concentrations above detection limits in all media. Chromium concentrations in concrete core samples ranged up to 19,000 milligrams per kilogram (mg/kg) in a sample collected from Room 5-139 in Building 5. RST presented the investigation results to EPA in the "Final Sampling and Analysis Report" dated January 2008 [Ref. 3, pp. 1, 5-24, 291]. EPA encountered mold in Building 5 during the removal action. Workers are required to wear dust masks when entering the building for periods up to 15 minutes, and respirators for periods greater than 15 minutes [Ref. 9, p. 13].

From November 17-20 and December 2-4, 2008, the Region 2 Site Assessment Team 2 (SAT 2) conducted an Integrated Assessment (IA) sampling event at the BM site. SAT 2 installed shallow diameter driven wells (SDDW), and collected surface soil, subsurface soil, ground water, surface water, sediment, and drinking water samples to determine the priority for further action for this site under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). In addition, SAT 2 completed a surface geophysics investigation and wetlands delineation over portions of the site. SAT 2 logged sample locations, well survey information (i.e., location and elevation), and on-site wetland locations electronically using Global Positioning System (GPS) equipment in accordance with the EPA Region 2 GPS Standard Operating Procedures. For surveying the locations and elevations inside Building 5, WESTON integrated the GPS unit with a mechanical total station. Upon completion of the field activities, WESTON performed post-processing and transferred the GPS data to maps using Geographic Information Systems (GIS). Location and elevation data for monitoring wells are presented in Table 1, while location data for boreholes and sediment/surface water samples are presented in Tables 2 and 3, respectively. Ground water contours based on well elevation data and depth-to-water measurements are presented in Figure 2, which also depicts delineated wetlands [Ref. 7, Figure 2; 9, pp. 10-110, 148, 151-155; 10, pp. 2-23; 11, pp. 4-11].

The IA analytical results confirmed that chromium is the primary contaminant of concern at the BM site (see Part III) and indicated that there are observed releases to ground water and surface water (see Parts III and IV).



LEGEND:

Site Location

National Geographic TOPO! U.S. Geologic Survey (USGS). 7.5 Minute Series (Topographic) Quadrangles: Cortland, NY, 1955.

PROJECT:

Buckbee-Mears

CLIENT NAME:

EPA

TITLE:

Site Location Map
Buckbee-Mears
City of Cortland
Cortland County, NY

WESTON
SOLUTIONS

DATE:

March 2009

FIGURE #:

1



LEGEND:

PROJECT:

Buckbee-Mears

CLIENT NAME:

EPA

TITLE:

Groundwater Contours and Delineated Wetlands
November and December 2008
Buckbee-Mears
City of Cortland
Cortland County, NY

DATE:

August 2009

FIGURE #:

2

WESTON SOLUTIONS

Table 1
Monitoring Well Locations and Elevations
Buckbee-Mears, Cortland, NY

Monitoring Well	Coordinates (top of inner casing)				Well Elevations (feet above mean sea level)		Depth to Ground Water (feet below top of inner casing)	Ground Water Elevation (feet above mean sea level) ⁽¹⁾
	Northing	Easting	Latitude	Longitude	Top of Inner Casing	Ground Surface		
BM-MW01	954295.2631	1800247.367	42.59360786	-76.16212443	1,106.55	1,106.79	4.15	1,102.4
BM-MW02	953456.6496	1800328.788	42.59130236	-76.16191137	1,104.50	1,104.72	1.86	1,102.6
BM-MW03	953809.4814	1800496.889	42.59225648	-76.16125018	1,104.40	1,104.63	2.92	1,101.5
BM-MW04	953400.065	1800528.93	42.59113152	-76.16117478	1,109.15	1,109.43	6.99	1,102.2
BM-MW05	953540.079	1800696.424	42.59150223	-76.16053843	1,107.86	1,108.06	6.26	1,101.6
BM-MW06	953773.9598	1800875.046	42.59212941	-76.15985082	1,106.18	1,106.47	5.52	1,100.7
BM-MW07	953418.8385	1801256.624	42.59112585	-76.15847276	1,108.71	1,108.95	10.05	1,098.7
BM-MW08	953325.6894	1801490.065	42.59085213	-76.15761651	1,105.71	1,106.04	7.80	1,097.9
BM-MW09	953007.7862	1801594.183	42.58997239	-76.15726402	1,103.03	1,103.11	4.96	1,098.1
BM-MW10	953732.7816	1801775.002	42.59194579	-76.15651597	1,102.76	1,103.01	5.52	1,097.2
BM-MW11	953488.1365	1801442.108	42.59130125	-76.15777717	1,103.65	1,093.2 ⁽²⁾	5.89	1,097.8

Notes:

(1) Ground water elevation = Inner casing elevation - Depth to ground water (at time of sampling)

(2) Do not use elevation, unable to post-process

Table 2
Borehole Locations (other than monitoring wells)
Buckbee-Mears, Cortland, NY

Borehole ⁽¹⁾	Coordinates			
	Northing	Easting	Latitude	Longitude
BM-S12	952789.15	1801552.585	42.58937626	-76.15744162
BM-S13	953556.79	1800507.927	42.59156284	-76.16123606
BM-S14	953473.548	1800518.862	42.59133377	-76.16120433
BM-S15	953524.529	1800400.782	42.5914828	-76.16163704
BM-S16	953814.574	1800715.447	42.59225328	-76.16043869
BM-S17	953358.028	1800738.866	42.59099979	-76.1604003
BM-S18	953841.721	1801146.025	42.59229389	-76.15883816
BM-S19	953597.188	1800945.504	42.59163924	-76.15960818
BM-S20	953208.0592	1801009.538	42.59056739	-76.15941195
BM-S21/S31	953397.7121	1800889.496	42.59109676	-76.15983719
BM-S22	953165.247	1801152.347	42.5904388	-76.15888663
BM-S23	953097.964	1801300.947	42.59024266	-76.15834243
BM-S24	953644.794	1801198.207	42.59174991	-76.15866548
BM-S25	953751.16	1801305.215	42.59203311	-76.15825713
BM-S26	953828.855	1801564.537	42.59222573	-76.15728667
BM-S27	953694.7545	1801787.102	42.59184059	-76.15647512
BM-S28	953203.7974	1801354.039	42.59052864	-76.15813418
BM-S29	954098.674	1800495.118	42.59304946	-76.16122603
BM-S30	953881.141	1800262.626	42.59247132	-76.16211179
BM-S32	952667.325	1801506.478	42.58904589	-76.15762565
BM-S33	952739.832	1801612.227	42.58923636	-76.15722558

Note:

(1) Boreholes are listed according to the surface soil sample IDs.

Table 3
Sediment/Surface Water Sample Locations
Buckbee-Mears, Cortland, NY

Sample Location	Coordinates			
	Northing	Easting	Latitude	Longitude
BM-SD01/SW01	954257.464	1800866.068	42.59345567	-76.15983274
BM-SD02/SD10/SW02/SW10	953516.1501	1801548.971	42.59136966	-76.15737769
BM-SD03/SW03	953309.7177	1801665.486	42.59079455	-76.15696734
BM-SD04/SW04	952959.6602	1801891.944	42.58981704	-76.15616436
BM-SD05/SW05	952795.3092	1802071.641	42.58935233	-76.15551513
BM-SD06/SW06	953601.0829	1801722.618	42.59158885	-76.15672436
BM-SD07/SW07	953302.9134	1801825.678	42.5907633	-76.15637369
BM-SD08/SW08	952962.5323	1801584.903	42.58984905	-76.15730327
BM-SD09/SW09	952932.1534	1801678.714	42.58975839	-76.15695843
BM-SD11	955583.791	1801430.95	42.5970475	-76.15759564
BM-SD12	954295.414	1801926.245	42.59347639	-76.1558949
BM-SD13	953953.814	1802007.383	42.59253349	-76.15563021
BM-SD14	953335.897	1802380.34	42.59081009	-76.15431219
BM-SD15	951531.65	1804249.121	42.58571638	-76.1475711

SITE ASSESSMENT REPORT: INTEGRATED ASSESSMENT

PART I: SITE INFORMATION

1. Site Name/Alias Buckbee-Mears
Street 30 Kellogg Road
City Cortland State New York Zip 13045
2. County Cortland County Code 023 Congressional District 25
3. CERCLIS ID NO. NYN000205908
4. Block No. _____ Lot No. _____
5. Latitude 42.59158° N Longitude 76.15970° W
USGS Quad(s) Cortland, NY
6. Approximate size of site 50 acres
7. Owner International Electron Devices (USA), LLC Telephone No. unknown
Street c/o Nationwide Information Services, Inc.
52 James Street, 5th Floor
City Albany State New York Zip 12207
8. Operator N/A Telephone No. _____
Street _____
City _____ State _____ Zip _____
9. Type of Ownership
☒ Private ☐ Federal ☐ State
☐ County ☐ Municipal ☐ Unknown ☐ Other _____
10. Owner/Operator Notification on File
☒ RCRA 3001 unknown Date _____ ☐ CERCLA 103c Date _____
☐ None ☐ Unknown

11. Permit Information

<u>Permit</u>	<u>Permit No.</u>	<u>Date Issued</u>	<u>Expiration Date</u>
RCRA LQG	NYD010783967	unknown	unknown
NYS Chemical Bulk Storage	7-000148	unknown	unknown
Air State Facility	7-1102-00006/00079	01/05/2005	01/05/2010

12. Site Status

☐ Active ☒ Inactive ☐ Unknown

13. Years of Operation: The site was operational from approximately 1973 until 2005.

14. Identify the types of waste sources (e.g., landfill, surface impoundment, piles, stained soil, above- or below-ground tanks or containers, land treatment, etc.) on site. Initiate as many waste unit numbers as needed to identify all waste sources on site.

a) Waste Sources

Waste Unit No.	Waste Source Type	Facility Name for Unit
1	Other	Waste Materials
2	Tanks and containers other than drums	WWTP Clarifiers
3	Contaminated soil	Contaminated Soil

b) Other Areas of Concern

EPA encountered mold in Building 5 during the removal action. Workers are required to wear dust masks when entering the building for periods up to 15 minutes, and respirators for periods greater than 15 minutes.

[Ref. 9, p. 13]

15. Describe the regulatory history of the site, including the scope and objectives of any previous response actions, investigations and litigation by State, Local and Federal agencies (indicate type, affiliation, date of investigations).

- **Air State Facility Permit** – Request by Buckbee-Mears to change the facility name on the Air State Facility Permit, NYSDEC ID #7-1102-00006/00079. Approved by NYSDEC March 24, 2005 [Ref. 4, pp. 63-120].
- **Notice of Violation of Environmental Conservation Law** – Issued by NYSDEC on October 4, 2006. Numerous violations of the Environmental Conservation Law were cited, including improper storage of hazardous materials, failure to properly secure the facility, and failure to remove product and properly close out-of-service aboveground storage tanks (AST) and underground storage tanks (UST). These violations were observed during the inspection of the facility on July 27, 2006 [Ref. 4, pp. 17-29].

- **Notice of Hearing, RCRA Case Number CO 7-20070223-11** – Issued by NYSDEC on February 26, 2007 for violations discovered during the July 27, 2006 facility inspection [Ref. 4, pp. 37-58].
- **Notice of Potential Liability, Demand for Costs, and Request for Information** – Issued on March 2, 2007 by EPA to Buckbee-Mears notifying the Company of their status as a potential responsible party (PRP) and the potential for liability under CERCLA for the costs incurred for response actions taken at the facility [Ref. 4, pp. 59-62].
- **RST Sampling** – From August 10-30, 2007, RST 2 collected ground water samples and sludge samples from recharged slumps located throughout the facility. Concrete samples from the floor and contaminated areas throughout the facility, solid waste samples from throughout the facility, dust samples from the ventilation shafts in Building 1, and wipe samples from stains on the equipment and walls throughout the facility were also collected. All samples were analyzed for RCRA metals [Ref. 3, pp. 5-13, 291].
- **EPA Removal Action** – In January 2007, EPA initiated a Removal Action at the site. Removal activities conducted to date have included but are not limited to the following: inventory of all on-site chemicals and hazardous wastes, disposal of more than 6,000 containers of chemical wastes, emptying and disposal of 17 of the 18 bulk chemical storage tanks, removal of approximately 153,000 linear feet of chemical feed lines, and demolition of two on-site buildings. Hazardous substances removed from the site have included hydrochloric acid, sulfuric acid, chromic acid, and anhydrous ammonia. The Removal Action is ongoing [Ref. 3, p. 5; 4, pp. 31-35, 121-132; 9, p. 2].
- **Preliminary Assessment** – The Buckbee-Mears site was added to the list of CERCLA hazardous waste sites after clean-up activities initiated by the site's former owners failed to secure and stabilize the site. SAT 2 conducted a site reconnaissance in July 2008 and prepared a PA Report in September 2008 to assess current site conditions, to select potential sample locations, and to determine the viability of further action for this site under CERCLA [Ref. 2, pp. 1-10; 9, pp. 2-8].
- **IA Sampling** – From November 17-20 and December 2-4, 2008, SAT 2 conducted Integrated Assessment (IA) sampling at the BM site. SAT 2 installed monitoring wells and collected surface soil, subsurface soil, ground water, surface water, sediment, and drinking water samples to determine the priority for further action for this site under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) [Ref. 9, pp. 10-110; 10, pp. 2-23]. SAT 2 also completed a surface geophysics investigation and wetlands delineation over portions of the site [Ref. 7, Figure 3; 9, pp. 10-18, 148-155; 11, pp. 4-11].

a) Is the site or any waste source subject to Petroleum Exclusion? Identify petroleum products and by products that justify this decision.

BM is a former manufacturer of aperture masks for use in CRT monitors that utilized several different chemicals including ferric chloride, hydrochloric acid, sodium and potassium hydroxide, anhydrous ammonia, chromic acid, nitric acid, sulfuric acid, chlorine (liquid and gas), and proprietary oxidizing compounds in their manufacturing processes. Neither the site nor any waste source is subject to Petroleum Exclusion provisions.

[Ref. 2, p. 3; 3, p.5; 4, pp. 3-12, 32, 42, 59, 110]

- b) Has normal farming application of pesticides registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) occurred at the site? Have pesticides been produced or stored at the site? Have there been any leaks or spills of pesticides on site?

Based on available background information, the site is known to have been used for agricultural purposes prior to construction of the existing facility in 1973. Pesticides regulated under FIFRA are not known to have been applied to the site. Pesticides are not known to have been produced or stored at the site, nor have there been any spills or leaks of pesticides on the site.

[Ref. 2, p. 3; 4, pp. 3-9; 8, pp. 1-63]

- c) Is the site or any waste source subject to Resource Conservation and Recovery Act (RCRA) Subtitle C (briefly explain)?

BM is considered a LQG of hazardous waste under RCRA, ID number NYD010783967. Neither the site nor any waste source is subject to RCRA Subtitle C.

[Ref. 8, pp. 1-63]

- d) Is the site or any waste source maintained under the authority of the Nuclear Regulatory Commission (NRC)?

Neither the site nor any waste source is maintained under the authority of the NRC.

[Ref. 8, pp. 1-63]

16. Do any conditions exist on site which would warrant immediate or emergency action?

EPA has been conducting a Removal Action at the site since January 2007.

[Ref. 4, pp. 31-32; 9, pp. 2-6]

17. Information available from:

Contact	<u>Dennis Munhall</u>	Agency	<u>USEPA</u>	Telephone No.:	<u>212-637-4343</u>
Preparer	<u>Gerald Gilliland</u>	Agency	<u>Region 2 SAT 2</u>	Date:	<u>August 2009</u>

PART II: WASTE SOURCE INFORMATION

For each of the waste units identified in Part I, complete the following items.

Waste Unit 1 - Waste Materials (sludge, water, building materials)

Source Type

<u> </u> Landfill	<u> </u> Contaminated Soil
<u> </u> Surface Impoundment	<u> </u> Pile
<u> </u> Drums	<u> </u> Land Treatment
<u> </u> Tanks/Containers	<u> X </u> Other

Description:

1. Describe the types of containers, impoundments, or other storage systems (i.e., concrete - lined surface impoundments) and any labels that may be present.

In August 2007, as part of the EPA removal activities, Region 2 RST personnel collected water and sludge samples from several sumps located within the manufacturing buildings. Analytical results of the water samples indicated the presence of chromium, lead, and mercury at concentrations above detection limits. Analytical results of the sludge samples indicated the presence of arsenic and chromium at concentrations above the detection limit. The highest chromium concentrations were detected in samples collected from Building 2, which has since been demolished. In addition, RST personnel collected concrete, solid waste, dust, and wipe samples from the site. Analytical results of the waste, dust, and wipe samples indicated the presence of arsenic, barium, chromium, lead, and mercury at concentrations above detection limits in all media. Chromium concentrations in concrete core samples ranged up to 19,000 parts per million (ppm) in a sample collected from Room 5-139 in Building 5.

[Ref. 3, pp. 5-24, 291]

2. Describe the physical condition of the containers or storage systems (i.e., rusted and/or bulging drums).

Buildings 1 and 2 have been demolished, but the building slabs and some debris from the demolition currently remain on site. Building 5 remains on the site.

[Ref. 3, p. 5; 4, pp. 31-35, 121-132; 9, p. 2]

3. Describe any secondary containment that may be present (e.g., drums on concrete pad in building or aboveground tank surrounded by berm).

In January 2007, EPA initiated a Removal Action at the site. Removal activities conducted to date have included but are not limited to the following: inventory of all on-site chemicals and hazardous wastes, disposal of more than 6,000 containers of chemical wastes, emptying and disposal of 17 of the 18 bulk chemical storage tanks, removal of approximately 153,000 linear feet of chemical feed lines, and demolition of two on-site buildings. Hazardous substances removed from the site have included hydrochloric acid, sulfuric acid, chromic acid, and anhydrous ammonia.

[Ref. 3, p. 5; 4, pp. 31-35, 121-132; 9, p. 2]

Hazardous Waste Quantity

The majority of the waste materials have been removed from the site through EPA removal activities, but an undetermined quantity remains behind.

[Ref. 3, p. 5; 4, pp. 31-35, 121-132; 9, p. 2]

Hazardous Substances/Physical State

The following site-related hazardous substances were detected in waste samples at the BM site:

- Chromium
- Lead
- Mercury
- Arsenic
- Barium

The physical states associated with this source are solid and liquid.

[Ref. 3, pp. 5-24, 291]

PART II: WASTE SOURCE INFORMATION

For each of the waste units identified in Part I, complete the following items.

Waste Unit 2 - WWTP Clarifier Tanks

Source Type

<u> </u> Landfill	<u> </u> Contaminated Soil
<u> </u> Surface Impoundment	<u> </u> Pile
<u> </u> Drums	<u> </u> Land Treatment
<u> X </u> Tanks/Containers	<u> </u> Other

Description:

1. Describe the types of containers, impoundments, or other storage systems (i.e., concrete - lined surface impoundments) and any labels that may be present.

The BM facility operated an on-site wastewater pretreatment plant (WWTP), which received aperture mask process wastewater and non-process wastewaters. Following pH adjustment in neutralization tanks, most solids were removed from the wastewaters through flocculation and gravitational settling in the open-top, concrete clarifier tanks. The treated wastewater was discharged to the City of Cortland Publicly Owned Treatment Works (POTW) and was subject to standards limiting the concentrations of specific pollutants that can be discharged to a POTW. The available documentation provided wastestream data for the period from 1990 to 2003 and indicated that chromium, lead, arsenic, and cadmium were contained in the wastestream.

[Ref. 2, p. 3; 3, p. 291; 7, Figures 2-3; 9, pp. 6, 134; 30, pp. 2-3; 31, pp. 4-8]

2. Describe the physical condition of the containers or storage systems (i.e., rusted and/or bulging drums).

The clarifier consists of open-top, concrete tanks. According to a 1994 NYSDEC inspection, a thick floating sludge blanket washed over the clarifier tank at times, causing an effluent chromium violation.

[Ref. 2, p. 3; 3, p. 291; 7, Figures 2-3; 9, pp. 6, 134; 30, pp. 2-3, 75, 82, 88-89, 138]

3. Describe any secondary containment that may be present (e.g., drums on concrete pad in building or aboveground tank surrounded by berm).

Based on a 1994 inspection, NYSDEC indicated that a thick floating sludge blanket washed over the clarifier tank at times, causing an effluent chromium violation. There is no secondary containment associated with the clarifier tanks.

[Ref. 7, Figure 3; 9, pp. 6, 28, 134, 159; 30, pp. 2-3, 75, 82, 88-89, 138]

Hazardous Waste Quantity

Buckbee-Mears reported that 6,355,612 tons (12,711,224,000 pounds) of hazardous wastewater passed through the WWTP from 1990 to 2003. This mass (W) is divided by 5,000 to assign the value of 2,455,545 for hazardous wastestream quantity.

[Ref. 19, pp. 51590-51591; 31, p. 4]

Hazardous Substances/Physical State

The following hazardous substances are associated with the WWTP:

- Chromium
- Lead
- Arsenic
- Cadmium

The physical state associated with this source is liquid.

[Ref. 31, pp. 4-8]

PART II: WASTE SOURCE INFORMATION

For each of the waste units identified in Part I, complete the following items.

Waste Unit 3 - Contaminated Soil

Source Type

<u> </u> Landfill	<u> X </u> Contaminated Soil
<u> </u> Surface Impoundment	<u> </u> Pile
<u> </u> Drums	<u> </u> Land Treatment
<u> </u> Tanks/Containers	<u> </u> Other

Description:

1. Describe the types of containers, impoundments, or other storage systems (i.e., concrete - lined surface impoundments) and any labels that may be present.

The IA analytical results show that chromium and mercury are present in soil at the BM site. Chromium was detected significantly above background (13.2 J and 13.7 J milligrams per kilogram [mg/kg] in samples BM-S01 and BM-SS01, respectively; J = estimated) in thirteen surface soil samples and one subsurface soil sample. The highest chromium concentrations were detected in surface samples BM-S14 (10,900 mg/kg), BM-S04 (5,250 J mg/kg), and BM-S13 (3,430 mg/kg), which were all collected directly beneath the slab of former Building 1. Mercury was detected significantly above background (0.024 U mg/kg in sample BM-SS01; U = not detected) in subsurface sample BM-SS24 (0.10 mg/kg).

The contaminated soil mostly lies beneath the former manufacturing areas in Building 5 and former Building 1, indicating that the apparent source of soil contaminants is the historical manufacturing operations.

[Ref. 7, Figure 3; 14, pp. 40, 43, 45, 60, 62, 71, 74-75, 78, 110-113, 115, 131, 136, 142]

2. Describe the physical condition of the containers or storage systems (i.e., rusted and/or bulging drums).

There is no containment of the contaminated soil at the BM site, as evidenced by the IA boring logs that show no liner throughout the site. The areas where contaminated soil was encountered are mostly covered by impermeable materials such as asphalt or concrete.

[Ref. 7, Figure 3; 9, pp. 33-95]

3. Describe any secondary containment that may be present (e.g., drums on concrete pad in building or aboveground tank surrounded by berm).

As stated above, there is no liner in the areas where soil contaminants were detected. Secondary containment is not applicable to the evaluation of contaminated soil.

[Ref. 7, Figure 3; 9, pp. 33-95; 19, pp. 51596-51597]

Hazardous Waste Quantity

The area of contaminated soil has not been fully delineated. Therefore, the hazardous waste quantity is an unknown area greater than zero square feet.

[Tables 16-17; Ref. 7, Figure 3; Ref. 19, pp. 51590-51591]

Hazardous Substances/Physical State

The following site-related hazardous substances were detected in soil samples at the BM site:

- Chromium
- Mercury

The physical state associated with this source is solid.

[Ref. 14, pp. 40, 43, 45, 60, 62, 71, 74-75, 78, 110-113, 115, 131, 136, 142]

PART III. SAMPLING RESULTS

EXISTING ANALYTICAL DATA

August 2007 – From August 10-30, 2007, RST personnel collected water and sludge samples from several sumps located within the manufacturing buildings. All samples were analyzed for RCRA metals. Analytical results of the water samples indicated the presence of chromium, lead, and mercury at concentrations above detection limits. Analytical results of the sludge samples indicated the presence of arsenic and chromium at concentrations above the detection limit. The highest chromium concentrations were detected in samples collected from Building 2, which has since been demolished. In addition, RST personnel collected concrete, solid waste, dust, and wipe samples from the site for RCRA metals analysis. Analytical results of the waste, dust, and wipe samples indicated the presence of arsenic, barium, chromium, lead, and mercury at concentrations above detection limits in all media. Chromium concentrations in concrete core samples ranged up to 19,000 mg/kg in a sample collected from Room 5-139 in Building 5.

[Ref. 3, pp. 5-24, 291]

INTEGRATED ASSESSMENT SAMPLING RESULTS

From November 17-20 and December 2-4, 2008, SAT 2 personnel conducted a sampling event at the BM site. SAT 2 collected surface soil, subsurface soil, ground water, surface water, sediment, and drinking water samples to determine the priority for further action for this site under CERCLA. A total of 33 surface soil (including one duplicate sample), 33 subsurface soil (including two duplicate samples), 14 ground water (including one duplicate sample), 10 surface water (including one duplicate sample), 15 sediment (including one duplicate sample), and 3 drinking water samples (including one duplicate sample) were collected from the site.

The samples collected by SAT 2 from the BM site were analyzed for Target Compound List (TCL) Organics (volatile organic compounds [VOC], semivolatile organic compounds [SVOC], pesticides, and Aroclors [i.e., PCBs]) through the EPA Contract Laboratory Program (CLP). The solid samples and rinsate blank BM-RIN01 (soil sampling equipment) were analyzed for Target Analyte List (TAL) Inorganics (including mercury and cyanide) through CLP. All other aqueous samples were analyzed for TAL Inorganics (including mercury and cyanide), Hexavalent Chromium, and Dissolved TAL Inorganics at the EPA Region 2 DESA laboratory. The sample portion designated for Dissolved TAL Inorganics analysis had been field-filtered through a 0.45-micron filter by the sampling team. Sediment samples were analyzed for Grain-Size Distribution and Total Organic Carbon (TOC) at the EPA Region 2 DESA laboratory.

Soil sample collection began with retrieval of continuous soil cores from soil borings advanced to a maximum depth of 15 feet using direct-push technology. SAT 2 then used dedicated, disposable En Core[®] sampling devices, plastic scoops, and aluminum trays to collect soil samples for lab analysis from the soil cores. Surface soil samples were collected from the 0- to 2-foot interval as measured from the top of the soil column at each borehole, and subsurface soil samples were collected from 2-foot intervals where visual observations suggested potential contamination, or at the 2-foot interval

just above the saturated zone as displayed in the soil core. SAT 2 was unable to collect subsurface soil sample BM-SS14 due to equipment refusal at 2 feet below grade.

Upon completion of soil retrieval at 11 locations, SAT 2 installed small-diameter driven wells (SDDW) in the boreholes, and developed the wells with a peristaltic pump. SAT 2 collected ground water samples from the monitoring wells in accordance with EPA Region 2's Ground Water Sampling Procedure, Low Stress (Low Flow) Purging and Sampling dated March 1998. Wells were purged using a bladder pump with dedicated, disposable bladders and sample tubing. During well purging, the following field indicator parameters were measured with in-line analyzers and recorded periodically: depth-to-water, flow rate, pH, temperature, dissolved oxygen (DO), conductivity, and turbidity. Wells were purged until turbidity fell below 50 NTU and indicator parameters stabilized for three consecutive readings, or for at least 4 hours if turbidity exceeded 50 NTU. After collection of VOC sample fractions, the dedicated, disposable sample tubing was connected to a peristaltic pump for faster collection of other sample fractions. The bladder pumps were decontaminated before and after sampling events, as well as between well sampling locations. In addition to the ground water samples from the SDDWs, SAT 2 collected water samples from two open wells near the wastewater treatment plant clarifier. These grab samples were collected with dedicated, disposable bailers.

SAT 2 collected surface water samples directly into the required containers, without the use of sampling devices, by submerging the bottle. At each specific location where both surface water and sediment samples were collected, surface water samples were collected prior to sediment samples. SAT 2 used dedicated, disposable En Core[®] sampling devices, plastic scoops, and aluminum trays to collect sediment samples at depths of 0 to 3 inches, allowing any excess surface water to drain from the sampling device. All remaining sediment, not used for laboratory analysis, was discarded at the sampling location. SAT 2 performed sediment and surface water sampling activities in a downstream-to-upstream direction.

SAT 2 collected drinking water samples from sampling spigots directly into the proper sampling bottles. The sampling spigots were chosen to reflect raw well water prior to treatment or filtration. The spigots were allowed to run for 15 minutes prior to sampling.

[Ref. 9, pp. 10-111, 139-161; 10, pp. 1-91]

The organic analytical results indicated that organic contaminants are not a concern at the BM site. The only VOC detected above sample quantitation limits (SQL) in surface soil samples was methylene chloride in samples BM-S07 (5.8 micrograms per kilogram [$\mu\text{g/kg}$] and BM-S26 (5.2 $\mu\text{g/kg}$). The only VOCs detected above SQLs in on-site subsurface soil samples were acetone (320 $\mu\text{g/kg}$) and 2-butanone (34 $\mu\text{g/kg}$) in sample BM-SS24. Methylene chloride, acetone, and 2-butanone are common lab chemicals that are not known to be associated with site operations. In addition, 1,1,1-trichloroethane (TCA) was detected in background sample BM-SS01 (10 $\mu\text{g/kg}$). The only VOC detected in ground water samples was 1,1,1-TCA in background sample BM-GW01 (7.8 $\mu\text{g/L}$). VOCs were not detected in surface water or sediment samples collected at the site. VOC analytical results are presented in Tables 4 through 8.

Although some SVOCs were detected above SQLs in a few samples from the BM site, they are ubiquitous at the detected concentrations and are not known to be attributable to site operations. Polycyclic aromatic hydrocarbons (PAH) were detected above SQLs in two surface soil samples, phthalates were detected above SQLs in six surface and two subsurface soil samples, and phenol was detected above SQLs in two subsurface soil samples. The only SVOC detected in ground water samples was phenanthrene in sample BM-GW06 (6.7 µg/L), collected beneath the parking lot. PAHs such as phenanthrene are common constituents of asphalt. PAHs were detected in sediment samples, but the highest concentrations were found in sample BM-SD13 collected from Tioughnioga River under a railroad trestle. SVOCs were not detected above SQLs in surface water samples collected at the site. SVOC analytical results are presented in Tables 9 through 13.

Pesticides were not detected above SQLs in soil, ground water, or surface water samples collected at the site. A few pesticides were detected in sediment sample BM-SD03 from Perplexity Creek and from sediment samples collected from Tioughnioga River, but the compounds are not attributable to site operations. PCBs were not detected above SQLs in surface soil, ground water, or surface water samples. The only PCB detected above SQLs in subsurface soil was Aroclor-1254 in sample BM-SS21 (42 µg/kg). The only PCBs detected above SQLs in sediment were Aroclor-1248 (72 µg/kg) and Aroclor-1254 (64 µg/kg) in sample BM-SD13, which was collected from Tioughnioga River under a railroad trestle. Pesticide and PCB analytical results are presented in Tables 14 through 18.

[Ref. 16, all pages]

The inorganic analytical results confirmed that chromium is the primary contaminant of concern at the site. Chromium was detected significantly above background (13.2 J and 13.7 J milligrams per kilogram [mg/kg] in samples BM-S01 and BM-SS01, respectively; J = estimated) in thirteen surface soil samples and one subsurface soil sample. The highest chromium concentrations were detected in surface samples BM-S14 (10,900 mg/kg), BM-S04 (5,250 J mg/kg), and BM-S13 (3,430 mg/kg), which were all collected directly beneath the slab of former Building 1. Mercury was detected significantly above background (0.024 U mg/kg in sample BM-SS01; U = not detected) in subsurface sample BM-SS24 (0.10 mg/kg). There were no other inorganic constituents detected significantly above background in soil samples collected at the BM site.

Chromium was detected above SQLs and significantly above background in ground water samples BM-GW04 (former Building 1 slab), BM-GW06 (parking lot), and BM-GW07 (Building 5), with individual concentrations ranging from 98 µg/L (BM-GW06) to 9,400 µg/L (BM-GW07 and duplicate BM-GW13). It should be noted that hexavalent chromium concentrations exceeded total chromium concentrations, likely due to the positive contribution of interfering species detected using the colorimetric procedure. Arsenic was detected above SQLs and significantly above background in ground water samples BM-GW05 (between Building 5 and former Building 1), BM-GW06, and BM-GW10 (gravel lot), with individual concentrations ranging from 1.4 µg/L (BM-GW06) to 19 µg/L (BM-GW05). Background concentrations of chromium and arsenic in sample BM-GW01 were 3.2 µg/L and 1.0 U µg/L, respectively.

Chromium, arsenic, and lead were detected above SQLs and significantly above background in surface water samples BM-SW02, its duplicate BM-SW10, and BM-SW07. Observed release concentrations of chromium ranged from 4.9 µg/L to 5.2 µg/L, while arsenic concentrations ranged

from 1.6 µg/L to 1.9 µg/L and lead was detected at 7.5 µg/L to 9.4 µg/L. Hexavalent chromium was detected in samples BM-SW02 (25 µg/L) and its duplicate BM-SW10 (16 µg/L). Chromium (2.0 U µg/L), hexavalent chromium (10 U µg/L), and arsenic (1.0 U µg/L) were not detected in background sample BM-SW01, and lead was detected at 1.2 µg/L.

Site-related inorganic constituents were not detected significantly above background in the open-well samples, drinking water samples, or sediment samples collected at the BM site. The inorganic analytical results are presented in Tables 19 through 23.

[Ref. 14, all pages; 15, all pages]

Table 4, Page 1 of 6
Volatile Organic Compounds - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S01	BM-S02	BM-S03	BM-S04	BM-S05	BM-S06
EPA Sample No.	B5685	B5686	B5687	B5688	B5689	B5690
Date:	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008
Compound (µg/kg)						
Dichlorodifluoromethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Chloromethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Vinyl chloride	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Bromomethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Chloroethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Trichlorofluoromethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,1-Dichloroethene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Acetone	8.3 U	9.0 U	8.9 U	8.7 U	10 U	8.1 U
Carbon disulfide	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Methyl acetate	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Methylene chloride	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	6.0 U
trans-1,2-Dichloroethene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Methyl tert-butyl ether	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,1-Dichloroethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
cis-1,2-Dichloroethene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
2-Butanone	8.3 U	9.0 U	8.9 U	8.7 U	10 U	8.1 U
Bromochloromethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Chloroform	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,1,1-Trichloroethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Cyclohexane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Carbon tetrachloride	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Benzene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,2-Dichloroethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Methylcyclohexane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,2-Dichloropropane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Bromodichloromethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
cis-1,3-Dichloropropene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
4-Methyl-2-pentanone	8.3 U	9.0 U	8.9 U	8.7 U	10 U	8.1 U
Toluene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
trans-1,3-Dichloropropene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,1,2-Trichloroethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Tetrachloroethene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
2-Hexanone	8.3 U	9.0 U	8.9 U	8.7 U	10 U	8.1 U
Dibromochloromethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,2-Dibromoethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Chlorobenzene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Ethylbenzene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
o-Xylene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
m,p-Xylene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Styrene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
Bromoform	4.1 U	4.5 U	- R	- R	- R	- R
Isopropylbenzene	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,1,2,2-Tetrachloroethane	4.1 U	4.5 U	4.4 U	4.4 U	5.2 U	4.0 U
1,3-Dichlorobenzene	4.1 U	4.5 U	- R	- R	- R	- R
1,4-Dichlorobenzene	4.1 U	4.5 U	- R	- R	- R	- R
1,2-Dichlorobenzene	4.1 U	4.5 U	- R	- R	- R	- R
1,2-Dibromo-3-chloropropane	4.1 U	4.5 U	- R	- R	- R	- R
1,2,4-Trichlorobenzene	4.1 U	4.5 U	- R	- R	- R	- R
1,2,3-Trichlorobenzene	4.1 U	4.5 U	- R	- R	- R	- R

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 4, Page 2 of 6
Volatile Organic Compounds - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S07	BM-S08	BM-S09	BM-S10	BM-S11	BM-S12
EPA Sample No.	B5691	B5692	B5693	B5694	B5695	B5696
Date:	11/18/2008	11/18/2008	11/17/2008	11/18/2008	11/17/2008	11/20/2008
Compound (µg/kg)						
Dichlorodifluoromethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Chloromethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Vinyl chloride	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Bromomethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Chloroethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Trichlorofluoromethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
1,1-Dichloroethene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Acetone	8.9 U	11 U	11 U	9.5 U	10 U	10 U
Carbon disulfide	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Methyl acetate	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Methylene chloride	5.8	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
trans-1,2-Dichloroethene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Methyl tert-butyl ether	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
1,1-Dichloroethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
cis-1,2-Dichloroethene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
2-Butanone	8.9 U	11 U	11 U	9.5 U	10 U	10 U
Bromochloromethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Chloroform	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
1,1,1-Trichloroethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Cyclohexane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Carbon tetrachloride	4.5 U	5.4 UJ	5.4 U	4.7 UJ	5.1 U	5.1 UJ
Benzene	4.5 U	5.4 UJ	5.4 U	4.7 UJ	5.1 U	5.1 U
1,2-Dichloroethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Methylcyclohexane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
1,2-Dichloropropane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Bromodichloromethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
cis-1,3-Dichloropropene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
4-Methyl-2-pentanone	8.9 U	11 U	11 U	9.5 U	10 U	10 U
Toluene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
trans-1,3-Dichloropropene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
1,1,2-Trichloroethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Tetrachloroethene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
2-Hexanone	8.9 U	11 U	11 U	9.5 U	10 U	10 U
Dibromochloromethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
1,2-Dibromoethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Chlorobenzene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Ethylbenzene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
o-Xylene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
m,p-Xylene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Styrene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
Bromoform	4.5 U	5.4 U	- R	4.7 U	- R	5.1 U
Isopropylbenzene	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
1,1,2,2-Tetrachloroethane	4.5 U	5.4 U	5.4 U	4.7 U	5.1 U	5.1 U
1,3-Dichlorobenzene	4.5 U	5.4 U	- R	4.7 U	- R	5.1 U
1,4-Dichlorobenzene	4.5 U	5.4 U	- R	4.7 U	- R	5.1 U
1,2-Dichlorobenzene	4.5 U	5.4 U	- R	4.7 U	- R	5.1 U
1,2-Dibromo-3-chloropropane	4.5 U	5.4 U	- R	4.7 U	- R	5.1 U
1,2,4-Trichlorobenzene	4.5 U	5.4 U	- R	4.7 U	- R	5.1 U
1,2,3-Trichlorobenzene	4.5 U	5.4 U	- R	4.7 U	- R	5.1 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 4, Page 3 of 6
Volatile Organic Compounds - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S13	BM-S14	BM-S15	BM-S16	BM-S17	BM-S18
EPA Sample No.	B5697	B5698	B5699	B56A0	B56A1	B56A2
Date:	11/20/2008	11/20/2008	11/19/2008	11/20/2008	11/20/2008	11/19/2008
Compound (µg/kg)						
Dichlorodifluoromethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Chloromethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Vinyl chloride	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Bromomethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Chloroethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Trichlorofluoromethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,1-Dichloroethene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Acetone	8.8 U	9.6 U	9.6 U	9.2 U	10 U	9.0 U
Carbon disulfide	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Methyl acetate	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Methylene chloride	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
trans-1,2-Dichloroethene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Methyl tert-butyl ether	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,1-Dichloroethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
cis-1,2-Dichloroethene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
2-Butanone	8.8 U	9.6 U	9.6 U	9.2 U	10 U	9.0 U
Bromochloromethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Chloroform	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,1,1-Trichloroethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Cyclohexane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Carbon tetrachloride	4.4 UJ	4.8 UJ	4.8 U	4.6 UJ	5.2 UJ	4.5 U
Benzene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,2-Dichloroethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Methylcyclohexane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,2-Dichloropropane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Bromodichloromethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
cis-1,3-Dichloropropene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
4-Methyl-2-pentanone	8.8 U	9.6 U	9.6 U	9.2 U	10 U	9.0 U
Toluene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
trans-1,3-Dichloropropene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,1,2-Trichloroethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Tetrachloroethene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
2-Hexanone	8.8 U	9.6 U	9.6 U	9.2 U	10 U	9.0 U
Dibromochloromethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,2-Dibromoethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Chlorobenzene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Ethylbenzene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
o-Xylene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
m,p-Xylene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Styrene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Bromoform	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
Isopropylbenzene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,1,2,2-Tetrachloroethane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,3-Dichlorobenzene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,4-Dichlorobenzene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,2-Dichlorobenzene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,2-Dibromo-3-chloropropane	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,2,4-Trichlorobenzene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U
1,2,3-Trichlorobenzene	4.4 U	4.8 U	4.8 U	4.6 U	5.2 U	4.5 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 4, Page 4 of 6
Volatile Organic Compounds - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S19	BM-S20	BM-S21	BM-S31	BM-S22	BM-S23
EPA Sample No.	B56A3	B56A4	B56A5	B56B5	B56A6	B56A7
Date:	11/19/2008	11/18/2008	11/18/2008	11/18/2008	11/19/2008	11/19/2008
Compound (µg/kg)				Dup. (S21)		
Dichlorodifluoromethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Chloromethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Vinyl chloride	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Bromomethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Chloroethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Trichlorofluoromethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
1,1-Dichloroethene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Acetone	8.6 U	8.0 U	8.9 U	8.4 U	9.0 U	9.3 U
Carbon disulfide	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Methyl acetate	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Methylene chloride	4.3 U	4.0 U	4.5 U	4.2 U	5.5 U	4.0 J
trans-1,2-Dichloroethene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Methyl tert-butyl ether	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
1,1-Dichloroethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
cis-1,2-Dichloroethene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
2-Butanone	8.6 U	8.0 U	8.9 U	8.4 U	9.0 U	9.3 U
Bromochloromethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Chloroform	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
1,1,1-Trichloroethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Cyclohexane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Carbon tetrachloride	4.3 U	4.0 UJ	4.5 UJ	4.2 U	4.5 U	4.7 U
Benzene	4.3 U	4.0 UJ	4.5 UJ	4.2 U	4.5 U	4.7 U
1,2-Dichloroethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Methylcyclohexane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
1,2-Dichloropropane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Bromodichloromethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
cis-1,3-Dichloropropene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 UJ	4.7 U
4-Methyl-2-pentanone	8.6 U	8.0 U	8.9 U	8.4 U	9.0 U	9.3 U
Toluene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
trans-1,3-Dichloropropene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 UJ	4.7 U
1,1,2-Trichloroethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 UJ	4.7 U
Tetrachloroethene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
2-Hexanone	8.6 U	8.0 U	8.9 U	8.4 U	9.0 U	9.3 U
Dibromochloromethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
1,2-Dibromoethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Chlorobenzene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Ethylbenzene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
o-Xylene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
m,p-Xylene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Styrene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
Bromoform	4.3 U	4.0 U	4.5 U	4.2 U	- R	- R
Isopropylbenzene	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
1,1,2,2-Tetrachloroethane	4.3 U	4.0 U	4.5 U	4.2 U	4.5 U	4.7 U
1,3-Dichlorobenzene	4.3 U	4.0 U	4.5 U	4.2 U	- R	- R
1,4-Dichlorobenzene	4.3 U	4.0 U	4.5 U	4.2 U	- R	- R
1,2-Dichlorobenzene	4.3 U	4.0 U	4.5 U	4.2 U	- R	- R
1,2-Dibromo-3-chloropropane	4.3 U	4.0 U	4.5 U	4.2 U	- R	- R
1,2,4-Trichlorobenzene	4.3 U	4.0 U	4.5 U	4.2 U	- R	- R
1,2,3-Trichlorobenzene	4.3 U	4.0 U	4.5 U	4.2 U	- R	- R

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 4, Page 5 of 6
Volatile Organic Compounds - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S24	BM-S25	BM-S26	BM-S27	BM-S28	BM-S29
EPA Sample No.	B56A8	B56A9	B56B0	B56B1	B56B2	B56B3
Date:	11/19/2008	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/19/2008
Compound (µg/kg)						
Dichlorodifluoromethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Chloromethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Vinyl chloride	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Bromomethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Chloroethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Trichlorofluoromethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
1,1-Dichloroethene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Acetone	8.5 U	8.4 U	8.9 U	11 U	7.9 U	9.9 U
Carbon disulfide	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Methyl acetate	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Methylene chloride	2.9 J	3.6 J	5.2	5.5 U	3.9 U	5.0 U
trans-1,2-Dichloroethene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Methyl tert-butyl ether	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
1,1-Dichloroethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
cis-1,2-Dichloroethene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
2-Butanone	8.5 U	8.4 U	8.9 U	11 U	7.9 U	9.9 U
Bromochloromethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Chloroform	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
1,1,1-Trichloroethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Cyclohexane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Carbon tetrachloride	4.2 U	4.2 U	4.4 U	5.5 UJ	3.9 UJ	5.0 U
Benzene	4.2 U	4.2 U	4.4 U	5.5 UJ	3.9 UJ	5.0 U
1,2-Dichloroethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Methylcyclohexane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
1,2-Dichloropropane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Bromodichloromethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
cis-1,3-Dichloropropene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
4-Methyl-2-pentanone	8.5 U	8.4 U	8.9 U	11 U	7.9 U	9.9 U
Toluene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
trans-1,3-Dichloropropene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
1,1,2-Trichloroethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Tetrachloroethene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
2-Hexanone	8.5 U	8.4 U	8.9 U	11 U	7.9 U	9.9 U
Dibromochloromethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
1,2-Dibromoethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Chlorobenzene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Ethylbenzene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
o-Xylene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
m,p-Xylene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Styrene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
Bromoform	- R	- R	- R	5.5 U	3.9 U	5.0 U
Isopropylbenzene	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
1,1,2,2-Tetrachloroethane	4.2 U	4.2 U	4.4 U	5.5 U	3.9 U	5.0 U
1,3-Dichlorobenzene	- R	- R	- R	5.5 U	3.9 U	5.0 U
1,4-Dichlorobenzene	- R	- R	- R	5.5 U	3.9 U	5.0 U
1,2-Dichlorobenzene	- R	- R	- R	5.5 U	3.9 U	5.0 U
1,2-Dibromo-3-chloropropane	- R	- R	- R	5.5 U	3.9 U	5.0 U
1,2,4-Trichlorobenzene	- R	- R	- R	5.5 U	3.9 U	5.0 U
1,2,3-Trichlorobenzene	- R	- R	- R	5.5 U	3.9 U	5.0 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 4, Page 6 of 6
Volatile Organic Compounds - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S30	BM-S32	BM-S33
EPA Sample No.	B56B4	B56Q3	B56Q5
Date:	11/19/2008	11/20/2008	11/20/2008
Compound (µg/kg)			
Dichlorodifluoromethane	4.9 U	4.7 U	6.1 U
Chloromethane	4.9 U	4.7 U	6.1 U
Vinyl chloride	4.9 U	4.7 U	6.1 U
Bromomethane	4.9 U	4.7 U	6.1 U
Chloroethane	4.9 U	4.7 U	6.1 U
Trichlorofluoromethane	4.9 U	4.7 U	6.1 U
1,1-Dichloroethene	4.9 U	4.7 U	6.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9 U	4.7 U	6.1 U
Acetone	9.8 U	9.4 U	12 U
Carbon disulfide	4.9 U	4.7 U	6.1 U
Methyl acetate	4.9 U	4.7 U	6.1 U
Methylene chloride	4.9 U	4.7 U	6.1 U
trans-1,2-Dichloroethene	4.9 U	4.7 U	6.1 U
Methyl tert-butyl ether	4.9 U	4.7 U	6.1 U
1,1-Dichloroethane	4.9 U	4.7 U	6.1 U
cis-1,2-Dichloroethene	4.9 U	4.7 U	6.1 U
2-Butanone	9.8 U	9.4 U	12 U
Bromochloromethane	4.9 U	4.7 U	6.1 U
Chloroform	4.9 U	4.7 U	6.1 U
1,1,1-Trichloroethane	4.9 U	4.7 U	6.1 U
Cyclohexane	4.9 U	4.7 U	6.1 U
Carbon tetrachloride	4.9 U	4.7 UJ	6.1 UJ
Benzene	4.9 U	4.7 U	6.1 U
1,2-Dichloroethane	4.9 U	4.7 U	6.1 U
1,4-Dioxane	- R	- R	- R
Trichloroethene	4.9 U	4.7 U	6.1 U
Methylcyclohexane	4.9 U	4.7 U	6.1 U
1,2-Dichloropropane	4.9 U	4.7 U	6.1 U
Bromodichloromethane	4.9 U	4.7 U	6.1 U
cis-1,3-Dichloropropene	4.9 U	4.7 U	6.1 U
4-Methyl-2-pentanone	9.8 U	9.4 U	12 U
Toluene	4.9 U	4.7 U	6.1 U
trans-1,3-Dichloropropene	4.9 U	4.7 U	6.1 U
1,1,2-Trichloroethane	4.9 U	4.7 U	6.1 U
Tetrachloroethene	4.9 U	4.7 U	6.1 U
2-Hexanone	9.8 U	9.4 U	12 U
Dibromochloromethane	4.9 U	4.7 U	6.1 U
1,2-Dibromoethane	4.9 U	4.7 U	6.1 U
Chlorobenzene	4.9 U	4.7 U	6.1 U
Ethylbenzene	4.9 U	4.7 U	6.1 U
o-Xylene	4.9 U	4.7 U	6.1 U
m,p-Xylene	4.9 U	4.7 U	6.1 U
Styrene	4.9 U	4.7 U	6.1 U
Bromoform	4.9 U	4.7 U	6.1 U
Isopropylbenzene	4.9 U	4.7 U	6.1 U
1,1,2,2-Tetrachloroethane	4.9 U	4.7 U	6.1 U
1,3-Dichlorobenzene	4.9 U	4.7 U	6.1 U
1,4-Dichlorobenzene	4.9 U	4.7 U	6.1 U
1,2-Dichlorobenzene	4.9 U	4.7 U	6.1 U
1,2-Dibromo-3-chloropropane	4.9 U	4.7 U	6.1 U
1,2,4-Trichlorobenzene	4.9 U	4.7 U	6.1 U
1,2,3-Trichlorobenzene	4.9 U	4.7 U	6.1 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 5, Page 1 of 6
Volatile Organic Compounds - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS01	BM-SS02	BM-SS03	BM-SS04	BM-SS05	BM-SS06
EPA Sample No.	B56B6	B56B7	B56B8	B56B9	B56C0	B56C1
Date:	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008
Compound (µg/kg)						
Dichlorodifluoromethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Chloromethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Vinyl chloride	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Bromomethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Chloroethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Trichlorofluoromethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,1-Dichloroethene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Acetone	8.8 U	9.3 U	9.8 U	9.5 U	9.8 U	11 U
Carbon disulfide	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Methyl acetate	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Methylene chloride	4.4 U	4.6 U	4.2 J	4.8 U	4.9 U	5.7 U
trans-1,2-Dichloroethene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Methyl tert-butyl ether	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,1-Dichloroethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
cis-1,2-Dichloroethene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
2-Butanone	8.8 U	9.3 U	9.8 U	9.5 U	9.8 U	11 U
Bromochloromethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Chloroform	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,1,1-Trichloroethane	10	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Cyclohexane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Carbon tetrachloride	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Benzene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,2-Dichloroethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	3.0 J	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Methylcyclohexane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,2-Dichloropropane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Bromodichloromethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
cis-1,3-Dichloropropene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
4-Methyl-2-pentanone	8.8 U	9.3 U	9.8 U	9.5 U	9.8 U	11 U
Toluene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
trans-1,3-Dichloropropene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,1,2-Trichloroethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Tetrachloroethene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
2-Hexanone	8.8 U	9.3 U	9.8 U	9.5 U	9.8 U	11 U
Dibromochloromethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,2-Dibromoethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Chlorobenzene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Ethylbenzene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
o-Xylene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
m,p-Xylene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Styrene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
Bromoform	- R	- R	4.9 U	4.8 U	4.9 U	- R
Isopropylbenzene	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,1,2,2-Tetrachloroethane	4.4 U	4.6 U	4.9 U	4.8 U	4.9 U	5.7 U
1,3-Dichlorobenzene	- R	- R	4.9 U	4.8 U	4.9 U	- R
1,4-Dichlorobenzene	- R	- R	4.9 U	4.8 U	4.9 U	- R
1,2-Dichlorobenzene	- R	- R	4.9 U	4.8 U	4.9 U	- R
1,2-Dibromo-3-chloropropane	- R	- R	4.9 U	4.8 U	4.9 U	- R
1,2,4-Trichlorobenzene	- R	- R	4.9 U	4.8 U	4.9 U	- R
1,2,3-Trichlorobenzene	- R	- R	4.9 U	4.8 U	4.9 U	- R

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 5, Page 2 of 6
Volatile Organic Compounds - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS07	BM-SS08	BM-SS09	BM-SS10	BM-SS11	BM-SS12
EPA Sample No.	B56C2	B56C3	B56C4	B56C5	B56C6	B56C7
Date:	11/18/2008	11/18/2008	11/17/2008	11/18/2008	11/17/2008	11/20/2008
Compound (µg/kg)						
Dichlorodifluoromethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Chloromethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Vinyl chloride	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Bromomethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Chloroethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Trichlorofluoromethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
1,1-Dichloroethene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Acetone	9.9 U	8.7 U	9.8 U	9.8 U	10 U	11 U
Carbon disulfide	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Methyl acetate	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Methylene chloride	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
trans-1,2-Dichloroethene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Methyl tert-butyl ether	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
1,1-Dichloroethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
cis-1,2-Dichloroethene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
2-Butanone	9.9 U	8.7 U	9.8 U	9.8 U	10 U	11 U
Bromochloromethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Chloroform	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
1,1,1-Trichloroethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Cyclohexane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
Carbon tetrachloride	4.9 UJ	4.4 UJ	4.9 U	4.9 UJ	5.1 U	5.3 UJ
Benzene	4.9 UJ	4.4 UJ	4.9 U	4.9 UJ	5.1 U	5.3 UJ
1,2-Dichloroethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
Methylcyclohexane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
1,2-Dichloropropane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
Bromodichloromethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
cis-1,3-Dichloropropene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
4-Methyl-2-pentanone	9.9 U	8.7 U	9.8 U	9.8 U	10 U	11 U
Toluene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
trans-1,3-Dichloropropene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
1,1,2-Trichloroethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Tetrachloroethene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
2-Hexanone	9.9 U	8.7 U	9.8 U	9.8 U	10 U	11 U
Dibromochloromethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
1,2-Dibromoethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Chlorobenzene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
Ethylbenzene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
o-Xylene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
m,p-Xylene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
Styrene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
Bromoform	4.9 U	4.4 U	- R	4.9 U	- R	5.3 U
Isopropylbenzene	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 UJ
1,1,2,2-Tetrachloroethane	4.9 U	4.4 U	4.9 U	4.9 U	5.1 U	5.3 U
1,3-Dichlorobenzene	4.9 U	4.4 U	- R	4.9 U	- R	5.3 U
1,4-Dichlorobenzene	4.9 U	4.4 U	- R	4.9 U	- R	5.3 U
1,2-Dichlorobenzene	4.9 U	4.4 U	- R	4.9 U	- R	5.3 U
1,2-Dibromo-3-chloropropane	4.9 U	4.4 U	- R	4.9 U	- R	5.3 U
1,2,4-Trichlorobenzene	4.9 U	4.4 U	- R	4.9 U	- R	5.3 U
1,2,3-Trichlorobenzene	4.9 U	4.4 U	- R	4.9 U	- R	5.3 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 5, Page 3 of 6
Volatile Organic Compounds - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS13	BM-SS15	BM-SS16	BM-SS17	BM-SS18	BM-SS19
EPA Sample No.	B56C8	B56D0	B56D1	B56D2	B56D3	B56D4
Date:	11/20/2008	11/19/2008	11/20/2008	11/20/2008	11/19/2008	11/19/2008
Compound (µg/kg)						
Dichlorodifluoromethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Chloromethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Vinyl chloride	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Bromomethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Chloroethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Trichlorofluoromethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
1,1-Dichloroethene	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Acetone	8.7 U	9.0 U	9.2 U	11 U	8.2 U	9.6 U
Carbon disulfide	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Methyl acetate	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Methylene chloride	4.3 U	3.0 J	4.6 U	5.4 U	3.1 J	3.7 J
trans-1,2-Dichloroethene	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Methyl tert-butyl ether	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
1,1-Dichloroethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
cis-1,2-Dichloroethene	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
2-Butanone	8.7 U	9.0 U	9.2 U	11 U	8.2 U	9.6 U
Bromochloromethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Chloroform	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
1,1,1-Trichloroethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Cyclohexane	4.3 UJ	4.5 U	4.6 UJ	5.4 UJ	4.1 U	4.8 U
Carbon tetrachloride	4.3 UJ	4.5 U	4.6 UJ	5.4 UJ	4.1 U	4.8 U
Benzene	4.3 UJ	4.5 U	4.6 UJ	5.4 UJ	4.1 U	4.8 U
1,2-Dichloroethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	4.3 UJ	4.5 U	4.6 UJ	5.4 U	4.1 U	4.8 U
Methylcyclohexane	4.3 UJ	4.5 U	4.6 UJ	5.4 UJ	4.1 U	4.8 U
1,2-Dichloropropane	4.3 UJ	4.5 U	4.6 UJ	5.4 UJ	4.1 U	4.8 U
Bromodichloromethane	4.3 UJ	4.5 U	4.6 UJ	5.4 UJ	4.1 U	4.8 U
cis-1,3-Dichloropropene	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
4-Methyl-2-pentanone	8.7 U	9.0 U	9.2 U	11 U	8.2 U	9.6 U
Toluene	4.3 UJ	4.5 U	4.6 UJ	5.4 U	4.1 U	4.8 U
trans-1,3-Dichloropropene	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
1,1,2-Trichloroethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Tetrachloroethene	4.3 UJ	4.5 U	4.6 UJ	5.4 U	4.1 U	4.8 U
2-Hexanone	8.7 U	9.0 U	9.2 U	11 U	8.2 U	9.6 U
Dibromochloromethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
1,2-Dibromoethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Chlorobenzene	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
Ethylbenzene	4.3 UJ	4.5 U	4.6 UJ	5.4 U	4.1 U	4.8 U
o-Xylene	4.3 UJ	4.5 U	4.6 UJ	5.4 U	4.1 U	4.8 U
m,p-Xylene	4.3 UJ	4.5 U	4.6 UJ	5.4 U	4.1 U	4.8 U
Styrene	4.3 UJ	4.5 U	4.6 UJ	5.4 U	4.1 U	4.8 U
Bromoform	4.3 U	- R	4.6 U	5.4 U	- R	4.8 U
Isopropylbenzene	4.3 UJ	4.5 U	4.6 UJ	5.4 U	4.1 U	4.8 U
1,1,2,2-Tetrachloroethane	4.3 U	4.5 U	4.6 U	5.4 U	4.1 U	4.8 U
1,3-Dichlorobenzene	4.3 U	- R	4.6 U	5.4 U	- R	4.8 U
1,4-Dichlorobenzene	4.3 U	- R	4.6 U	5.4 U	- R	4.8 U
1,2-Dichlorobenzene	4.3 U	- R	4.6 U	5.4 U	- R	4.8 U
1,2-Dibromo-3-chloropropane	4.3 U	- R	4.6 U	5.4 U	- R	4.8 U
1,2,4-Trichlorobenzene	4.3 U	- R	4.6 U	5.4 U	- R	4.8 U
1,2,3-Trichlorobenzene	4.3 U	- R	4.6 U	5.4 U	- R	4.8 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 5, Page 4 of 6
Volatile Organic Compounds - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS20	BM-SS21	BM-SS31	BM-SS22	BM-SS32	BM-SS23
EPA Sample No.	B56D5	B56D6	B56E6	B56D7	B56E7	B56D8
Date:	11/18/2008	11/18/2008	11/18/2008	11/19/2008	11/19/2008	11/19/2008
Compound (µg/kg)			Dup. (SS21)		Dup. (SS22)	
Dichlorodifluoromethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Chloromethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Vinyl chloride	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Bromomethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Chloroethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Trichlorofluoromethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
1,1-Dichloroethene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Acetone	9.6 U	8.8 U	9.3 U	7.4 U	9.2 U	9.7 U
Carbon disulfide	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Methyl acetate	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Methylene chloride	4.8 U	4.4 U	4.6 U	3.6 J	4.6 U	4.9 U
trans-1,2-Dichloroethene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Methyl tert-butyl ether	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
1,1-Dichloroethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
cis-1,2-Dichloroethene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
2-Butanone	9.6 U	8.8 U	9.3 U	7.4 U	9.2 U	9.7 U
Bromochloromethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Chloroform	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
1,1,1-Trichloroethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Cyclohexane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Carbon tetrachloride	4.8 UJ	4.4 UJ	4.6 U	3.7 U	4.6 UJ	4.9 U
Benzene	4.8 UJ	4.4 UJ	4.6 U	3.7 U	4.6 U	4.9 U
1,2-Dichloroethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Methylcyclohexane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
1,2-Dichloropropane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Bromodichloromethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
cis-1,3-Dichloropropene	4.8 U	4.4 U	4.6 U	3.7 UJ	4.6 U	4.9 U
4-Methyl-2-pentanone	9.6 U	8.8 U	9.3 U	7.4 U	9.2 U	9.7 U
Toluene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
trans-1,3-Dichloropropene	4.8 U	4.4 U	4.6 U	3.7 UJ	4.6 U	4.9 U
1,1,2-Trichloroethane	4.8 U	4.4 U	4.6 U	3.7 UJ	4.6 U	4.9 U
Tetrachloroethene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
2-Hexanone	9.6 U	8.8 U	9.3 U	7.4 U	9.2 U	9.7 U
Dibromochloromethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
1,2-Dibromoethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Chlorobenzene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Ethylbenzene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
o-Xylene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
m,p-Xylene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Styrene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
Bromoform	4.8 U	4.4 U	4.6 U	- R	4.6 U	4.9 U
Isopropylbenzene	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
1,1,2,2-Tetrachloroethane	4.8 U	4.4 U	4.6 U	3.7 U	4.6 U	4.9 U
1,3-Dichlorobenzene	4.8 U	4.4 U	4.6 U	- R	4.6 U	4.9 U
1,4-Dichlorobenzene	4.8 U	4.4 U	4.6 U	- R	4.6 U	4.9 U
1,2-Dichlorobenzene	4.8 U	4.4 U	4.6 U	- R	4.6 U	4.9 U
1,2-Dibromo-3-chloropropane	4.8 U	4.4 U	4.6 U	- R	4.6 U	4.9 U
1,2,4-Trichlorobenzene	4.8 U	4.4 U	4.6 U	- R	4.6 U	4.9 U
1,2,3-Trichlorobenzene	4.8 U	4.4 U	4.6 U	- R	4.6 U	4.9 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 5, Page 5 of 6
Volatile Organic Compounds - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS24	BM-SS25	BM-SS26	BM-SS27	BM-SS28	BM-SS29
EPA Sample No.	B56D9	B56E0	B56E1	B56E2	B56E3	B56E4
Date:	11/19/2008	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/19/2008
Compound (µg/kg)						
Dichlorodifluoromethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Chloromethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Vinyl chloride	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Bromomethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Chloroethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Trichlorofluoromethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
1,1-Dichloroethene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Acetone	320	8.6 U	11 U	8.6 U	9.8 U	9.5 U
Carbon disulfide	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Methyl acetate	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Methylene chloride	3.8 J	3.0 J	4.4 J	4.3 U	4.9 U	4.7 U
trans-1,2-Dichloroethene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Methyl tert-butyl ether	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
1,1-Dichloroethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
cis-1,2-Dichloroethene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
2-Butanone	34	8.6 U	11 U	8.6 U	9.8 U	9.5 U
Bromochloromethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Chloroform	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
1,1,1-Trichloroethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Cyclohexane	5.6 U	4.3 U	5.3 UJ	4.3 U	4.9 U	4.7 U
Carbon tetrachloride	5.6 U	4.3 U	5.3 U	4.3 UJ	4.9 U	4.7 UJ
Benzene	5.6 U	4.3 U	5.3 UJ	4.3 UJ	4.9 U	4.7 U
1,2-Dichloroethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Methylcyclohexane	5.6 U	4.3 U	5.3 UJ	4.3 U	4.9 U	4.7 U
1,2-Dichloropropane	5.6 U	4.3 U	5.3 UJ	4.3 U	4.9 U	4.7 U
Bromodichloromethane	5.6 U	4.3 U	5.3 UJ	4.3 U	4.9 U	4.7 U
cis-1,3-Dichloropropene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
4-Methyl-2-pentanone	11 U	8.6 U	11 U	8.6 U	9.8 U	9.5 U
Toluene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
trans-1,3-Dichloropropene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
1,1,2-Trichloroethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Tetrachloroethene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
2-Hexanone	11 U	8.6 U	11 U	8.6 U	9.8 U	9.5 U
Dibromochloromethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
1,2-Dibromoethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Chlorobenzene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Ethylbenzene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
o-Xylene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
m,p-Xylene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Styrene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
Bromoform	- R	- R	5.3 U	4.3 U	4.9 U	4.7 U
Isopropylbenzene	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
1,1,2,2-Tetrachloroethane	5.6 U	4.3 U	5.3 U	4.3 U	4.9 U	4.7 U
1,3-Dichlorobenzene	- R	- R	5.3 U	4.3 U	4.9 U	4.7 U
1,4-Dichlorobenzene	- R	- R	5.3 U	4.3 U	4.9 U	4.7 U
1,2-Dichlorobenzene	- R	- R	5.3 U	4.3 U	4.9 U	4.7 U
1,2-Dibromo-3-chloropropane	- R	- R	5.3 U	4.3 U	4.9 U	4.7 U
1,2,4-Trichlorobenzene	- R	- R	5.3 U	4.3 U	4.9 U	4.7 U
1,2,3-Trichlorobenzene	- R	- R	5.3 U	4.3 U	4.9 U	4.7 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 5, Page 6 of 6
Volatile Organic Compounds - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS30	BM-SS32	BM-SS33
EPA Sample No.	B56E5	B56Q4	B56Q6
Date:	11/19/2008	11/20/2008	11/20/2008
Compound (µg/kg)			
Dichlorodifluoromethane	4.2 U	5.6 U	4.6 U
Chloromethane	4.2 U	5.6 U	4.6 U
Vinyl chloride	4.2 U	5.6 U	4.6 U
Bromomethane	4.2 U	5.6 U	4.6 U
Chloroethane	4.2 U	5.6 U	4.6 U
Trichlorofluoromethane	4.2 U	5.6 U	4.6 U
1,1-Dichloroethene	4.2 U	5.6 U	4.6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.2 U	5.6 U	4.6 U
Acetone	8.4 U	11 U	9.2 U
Carbon disulfide	4.2 U	5.6 U	4.6 U
Methyl acetate	4.2 U	5.6 U	4.6 U
Methylene chloride	4.0 J	5.6 U	4.6 U
trans-1,2-Dichloroethene	4.2 U	5.6 U	4.6 U
Methyl tert-butyl ether	4.2 U	5.6 U	4.6 U
1,1-Dichloroethane	4.2 U	5.6 U	4.6 U
cis-1,2-Dichloroethene	4.2 U	5.6 U	4.6 U
2-Butanone	8.4 U	11 U	9.2 U
Bromochloromethane	4.2 U	5.6 U	4.6 U
Chloroform	4.2 U	5.6 U	4.6 U
1,1,1-Trichloroethane	4.2 U	5.6 U	4.6 U
Cyclohexane	4.2 U	5.6 U	4.6 U
Carbon tetrachloride	4.2 U	5.6 UJ	4.6 UJ
Benzene	4.2 U	5.6 U	4.6 U
1,2-Dichloroethane	4.2 U	5.6 U	4.6 U
1,4-Dioxane	- R	- R	- R
Trichloroethene	4.2 U	5.6 U	4.6 U
Methylcyclohexane	4.2 U	5.6 U	4.6 U
1,2-Dichloropropane	4.2 U	5.6 U	4.6 U
Bromodichloromethane	4.2 U	5.6 U	4.6 U
cis-1,3-Dichloropropene	4.2 U	5.6 U	4.6 U
4-Methyl-2-pentanone	8.4 U	11 U	9.2 U
Toluene	4.2 U	5.6 U	4.6 U
trans-1,3-Dichloropropene	4.2 U	5.6 U	4.6 U
1,1,2-Trichloroethane	4.2 U	5.6 U	4.6 U
Tetrachloroethene	4.2 U	5.6 U	4.6 U
2-Hexanone	8.4 U	11 U	9.2 U
Dibromochloromethane	4.2 U	5.6 U	4.6 U
1,2-Dibromoethane	4.2 U	5.6 U	4.6 U
Chlorobenzene	4.2 U	5.6 U	4.6 U
Ethylbenzene	4.2 U	5.6 U	4.6 U
o-Xylene	4.2 U	5.6 U	4.6 U
m,p-Xylene	4.2 U	5.6 U	4.6 U
Styrene	4.2 U	5.6 U	4.6 U
Bromoform	- R	- R	4.6 U
Isopropylbenzene	4.2 U	5.6 U	4.6 U
1,1,2,2-Tetrachloroethane	4.2 U	5.6 U	4.6 U
1,3-Dichlorobenzene	- R	- R	4.6 U
1,4-Dichlorobenzene	- R	- R	4.6 U
1,2-Dichlorobenzene	- R	- R	4.6 U
1,2-Dibromo-3-chloropropane	- R	- R	4.6 U
1,2,4-Trichlorobenzene	- R	- R	4.6 U
1,2,3-Trichlorobenzene	- R	- R	4.6 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 6, Page 1 of 3
Volatile Organic Compounds - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW01	BM-GW02	BM-GW03	BM-GW04	BM-GW05	BM-GW06
EPA Sample No.	B56E8	B56E9	B56F0	B56F1	B56F2	B56F3
Date:	12/2/2008	12/2/2008	12/2/2008	12/4/2008	12/4/2008	12/2/2008
Compound (µg/L)						
Dichlorodifluoromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	7.8	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	3.1 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
m,p-Xylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

Table 6, Page 2 of 3
Volatile Organic Compounds - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW07	BM-GW13	BM-GW08	BM-GW09	BM-GW10	BM-GW11
EPA Sample No.	B56F4	B56G0	B56F5	B56F6	B56F7	B56F8
Date:	12/4/2008	12/4/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008
Compound (µg/L)		Dup. (GW07)				
Dichlorodifluoromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	- R	- R	- R	- R	- R	- R
Trichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
m,p-Xylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

Table 6, Page 3 of 3
Volatile Organic Compounds - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW12	BM-GW14	BM-DW01	BM-DW02	BM-DW03
EPA Sample No.	B56F9	B56G4	B56G1	B56G2	B56G3
Date:	12/4/2008	12/4/2008	12/2/2008	12/2/2008	11/19/2008
Compound (µg/L)	Dup. (DW01)				
Dichlorodifluoromethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Vinyl chloride	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Chloroethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Trichlorofluoromethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Acetone	10 U	10 U	10 U	10 U	5.00 U
Carbon disulfide	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Methyl acetate	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Methylene chloride	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
trans-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Methyl tert-butyl ether	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
cis-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
2-Butanone	10 U	10 U	10 U	10 U	5.0 U
Bromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Chloroform	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Cyclohexane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Carbon tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Benzene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,4-Dioxane	- R	- R	- R	- R	
Trichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Methylcyclohexane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	5.0 U
Toluene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
2-Hexanone	10 U	10 U	10 U	10 U	5.0 U
Dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,2-Dibromoethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
o-Xylene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
m,p-Xylene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
Isopropylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,3-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,4-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,2-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,2-Dibromo-3-chloropropane	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,2,4-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U
1,2,3-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U

U - Compound not detected at the limit shown
R - Result rejected as unusable
J - Estimated concentration

Table 7, Page 1 of 3
Volatile Organic Compounds - Sediment
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SD01	BM-SD02	BM-SD10	BM-SD03	BM-SD04
EPA Sample No.	B56G5	B56G6	B56H4	B56G7	B56G8
Date:	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/3/2008
Compound (µg/kg)			Dup. (SD02)		
Dichlorodifluoromethane	9.8 U	11 U	12 U	9.8 U	9.3 U
Chloromethane	9.8 U	11 U	12 U	9.8 U	9.3 U
Vinyl chloride	9.8 U	11 U	12 UJ	9.8 UJ	9.3 U
Bromomethane	9.8 U	11 U	12 U	9.8 U	9.3 U
Chloroethane	9.8 U	11 U	12 U	9.8 U	9.3 U
Trichlorofluoromethane	9.8 U	11 U	12 U	9.8 U	9.3 U
1,1-Dichloroethene	9.8 U	11 U	12 U	9.8 U	9.3 U
1,1,2-Trichloro-1,2,2-trifluoroethane	9.8 U	11 U	12 U	9.8 U	9.3 U
Acetone	20 U	23 UJ	25 U	20 UJ	19 U
Carbon disulfide	9.8 U	11 U	12 U	9.8 U	9.3 U
Methyl acetate	9.8 U	11 U	12 U	9.8 U	9.3 U
Methylene chloride	9.8 U	11 U	12 U	9.8 U	9.3 U
trans-1,2-Dichloroethene	9.8 U	11 U	12 U	9.8 U	9.3 U
Methyl tert-butyl ether	9.8 U	11 U	12 U	9.8 U	9.3 U
1,1-Dichloroethane	9.8 U	11 U	12 U	9.8 U	9.3 U
cis-1,2-Dichloroethene	9.8 U	11 U	12 U	9.8 U	9.3 U
2-Butanone	20 U	23 UJ	25 U	20 UJ	19 U
Bromochloromethane	9.8 U	11 U	12 U	9.8 U	9.3 U
Chloroform	9.8 U	11 U	12 U	9.8 U	9.3 U
1,1,1-Trichloroethane	9.8 U	- R	12 U	- R	9.3 U
Cyclohexane	9.8 U	- R	12 UJ	- R	9.3 U
Carbon tetrachloride	9.8 UJ	- R	12 UJ	- R	9.3 UJ
Benzene	9.8 U	- R	12 UJ	- R	9.3 U
1,2-Dichloroethane	9.8 U	11 U	12 U	9.8 U	9.3 U
1,4-Dioxane	- R	- R	- R	- R	- R
Trichloroethene	9.8 U	- R	12 U	- R	9.3 U
Methylcyclohexane	9.8 U	- R	12 UJ	- R	9.3 U
1,2-Dichloropropane	9.8 U	- R	12 UJ	- R	9.3 U
Bromodichloromethane	9.8 U	- R	12 UJ	- R	9.3 U
cis-1,3-Dichloropropene	9.8 U	- R	12 U	- R	9.3 U
4-Methyl-2-pentanone	20 U	- R	25 U	- R	19 U
Toluene	9.8 U	- R	12 U	- R	9.3 U
trans-1,3-Dichloropropene	9.8 U	- R	12 U	- R	9.3 U
1,1,2-Trichloroethane	9.8 U	- R	12 U	- R	9.3 U
Tetrachloroethene	9.8 U	- R	12 U	- R	9.3 U
2-Hexanone	20 U	- R	25 U	- R	19 U
Dibromochloromethane	9.8 U	- R	12 U	- R	9.3 U
1,2-Dibromoethane	9.8 U	- R	12 U	- R	9.3 U
Chlorobenzene	9.8 U	- R	12 U	- R	9.3 U
Ethylbenzene	9.8 U	- R	12 U	- R	9.3 U
o-Xylene	9.8 U	- R	12 U	- R	9.3 U
m,p-Xylene	9.8 U	- R	12 U	- R	9.3 U
Styrene	9.8 U	- R	12 U	- R	9.3 U
Bromoform	- R	- R	12 U	- R	9.3 U
Isopropylbenzene	9.8 U	- R	12 U	- R	9.3 U
1,1,2,2-Tetrachloroethane	9.8 U	- R	12 U	- R	9.3 U
1,3-Dichlorobenzene	- R	- R	12 U	- R	9.3 U
1,4-Dichlorobenzene	- R	- R	12 U	- R	9.3 U
1,2-Dichlorobenzene	- R	- R	12 U	- R	9.3 U
1,2-Dibromo-3-chloropropane	- R	- R	12 U	- R	9.3 U
1,2,4-Trichlorobenzene	- R	- R	12 U	- R	9.3 U
1,2,3-Trichlorobenzene	- R	- R	12 U	- R	9.3 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 7, Page 2 of 3
Volatile Organic Compounds - Sediment
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SD05	BM-SD06	BM-SD07	BM-SD08	BM-SD09
EPA Sample No.	B56G9	B56H0	B56H1	B56H2	B56H3
Date:	12/3/2008	12/4/2008	12/3/2008	12/3/2008	12/3/2008
Compound (µg/kg)					
Dichlorodifluoromethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Chloromethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Vinyl chloride	12 U	7.8 U	8.2 U	7.1 UJ	7.7 U
Bromomethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Chloroethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Trichlorofluoromethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
1,1-Dichloroethene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
1,1,2-Trichloro-1,2,2-trifluoroethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Acetone	24 U	16 U	16 U	14 U	15 U
Carbon disulfide	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Methyl acetate	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Methylene chloride	12 U	7.8 U	8.2 U	7.1 U	7.7 U
trans-1,2-Dichloroethene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Methyl tert-butyl ether	12 U	7.8 U	8.2 U	7.1 U	7.7 U
1,1-Dichloroethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
cis-1,2-Dichloroethene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
2-Butanone	24 U	16 U	16 U	14 U	15 U
Bromochloromethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Chloroform	12 U	7.8 U	8.2 U	7.1 U	7.7 U
1,1,1-Trichloroethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Cyclohexane	12 U	7.8 UJ	8.2 U	7.1 UJ	7.7 U
Carbon tetrachloride	12 UJ	7.8 UJ	8.2 UJ	7.1 UJ	7.7 UJ
Benzene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
1,2-Dichloroethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
1,4-Dioxane	- R	- R	- R	- R	- R
Trichloroethene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Methylcyclohexane	12 U	7.8 UJ	8.2 U	7.1 UJ	7.7 U
1,2-Dichloropropane	12 U	7.8 UJ	8.2 U	7.1 UJ	7.7 U
Bromodichloromethane	12 U	7.8 UJ	8.2 U	7.1 UJ	7.7 U
cis-1,3-Dichloropropene	12 U	7.8 U	8.2 U	7.1 U	7.7 UJ
4-Methyl-2-pentanone	24 U	16 U	16 U	14 U	15 U
Toluene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
trans-1,3-Dichloropropene	12 U	7.8 U	8.2 U	7.1 U	7.7 UJ
1,1,2-Trichloroethane	12 U	7.8 U	8.2 U	7.1 U	7.7 UJ
Tetrachloroethene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
2-Hexanone	24 U	16 U	16 U	14 U	15 U
Dibromochloromethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
1,2-Dibromoethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Chlorobenzene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Ethylbenzene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
o-Xylene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
m,p-Xylene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Styrene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
Bromoform	- R	7.8 U	- R	7.1 U	7.7 U
Isopropylbenzene	12 U	7.8 U	8.2 U	7.1 U	7.7 U
1,1,2,2-Tetrachloroethane	12 U	7.8 U	8.2 U	7.1 U	7.7 U
1,3-Dichlorobenzene	- R	7.8 U	- R	7.1 U	7.7 U
1,4-Dichlorobenzene	- R	7.8 U	- R	7.1 U	7.7 U
1,2-Dichlorobenzene	- R	7.8 U	- R	7.1 U	7.7 U
1,2-Dibromo-3-chloropropane	- R	7.8 U	- R	7.1 U	7.7 U
1,2,4-Trichlorobenzene	- R	7.8 U	- R	7.1 U	7.7 U
1,2,3-Trichlorobenzene	- R	7.8 U	- R	7.1 U	7.7 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 7, Page 3 of 3
Volatile Organic Compounds - Sediment
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SD11	BM-SD12	BM-SD13	BM-SD14	BM-SD15
EPA Sample No.	B56H5	B56H6	B56H7	B56H8	B56H9
Date:	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008
Compound (µg/kg)					
Dichlorodifluoromethane	8.9 U	11 U	9.3 U	7.9 U	15 U
Chloromethane	8.9 U	11 U	9.3 U	7.9 U	15 U
Vinyl chloride	8.9 U	11 U	9.3 U	7.9 U	15 U
Bromomethane	8.9 U	11 U	9.3 U	7.9 U	15 U
Chloroethane	8.9 U	11 U	9.3 U	7.9 U	15 U
Trichlorofluoromethane	8.9 U	11 U	9.3 U	7.9 U	15 U
1,1-Dichloroethene	8.9 U	11 U	9.3 U	7.9 U	15 U
1,1,2-Trichloro-1,2,2-trifluoroethane	8.9 U	11 U	9.3 U	7.9 U	15 U
Acetone	18 U	23 U	19 U	16 U	30 U
Carbon disulfide	8.9 U	11 U	9.3 U	7.9 U	15 U
Methyl acetate	8.9 U	11 U	9.3 U	7.9 U	15 U
Methylene chloride	8.9 U	11 U	9.3 U	9.4 U	15 U
trans-1,2-Dichloroethene	8.9 U	11 U	9.3 U	7.9 U	15 U
Methyl tert-butyl ether	8.9 U	11 U	9.3 U	7.9 U	15 U
1,1-Dichloroethane	8.9 U	11 U	9.3 U	7.9 U	15 U
cis-1,2-Dichloroethene	8.9 U	11 U	9.3 U	7.9 U	15 U
2-Butanone	18 U	23 U	19 U	16 U	30 U
Bromochloromethane	8.9 U	11 U	9.3 U	7.9 U	15 U
Chloroform	8.9 U	11 U	9.3 U	7.9 U	15 U
1,1,1-Trichloroethane	8.9 U	11 U	9.3 U	7.9 U	15 U
Cyclohexane	8.9 U	11 U	9.3 U	7.9 U	15 U
Carbon tetrachloride	8.9 U	11 U	9.3 U	7.9 U	15 U
Benzene	8.9 U	11 U	9.3 U	7.9 U	15 U
1,2-Dichloroethane	8.9 U	11 U	9.3 U	7.9 U	15 U
1,4-Dioxane	- R	- R	- R	- R	- R
Trichloroethene	8.9 U	11 U	9.3 U	7.9 U	15 U
Methylcyclohexane	8.9 U	11 U	9.3 U	7.9 U	15 U
1,2-Dichloropropane	8.9 U	11 U	9.3 U	7.9 U	15 U
Bromodichloromethane	8.9 U	11 U	9.3 U	7.9 U	15 U
cis-1,3-Dichloropropene	8.9 U	11 U	9.3 U	7.9 U	15 U
4-Methyl-2-pentanone	18 U	23 U	19 U	16 U	30 U
Toluene	8.9 U	11 U	9.3 U	7.9 U	15 U
trans-1,3-Dichloropropene	8.9 U	11 U	9.3 U	7.9 U	15 U
1,1,2-Trichloroethane	8.9 U	11 U	9.3 U	7.9 U	15 U
Tetrachloroethene	8.9 U	11 U	9.3 U	7.9 U	15 U
2-Hexanone	18 U	23 U	19 U	16 U	30 U
Dibromochloromethane	8.9 U	11 U	9.3 U	7.9 U	15 U
1,2-Dibromoethane	8.9 U	11 U	9.3 U	7.9 U	15 U
Chlorobenzene	8.9 U	11 U	9.3 U	7.9 U	15 U
Ethylbenzene	8.9 U	11 U	9.3 U	7.9 U	15 U
o-Xylene	8.9 U	11 U	9.3 U	7.9 U	15 U
m,p-Xylene	8.9 U	11 U	9.3 U	7.9 U	15 U
Styrene	8.9 U	11 U	9.3 U	7.9 U	15 U
Bromoform	8.9 U	- R	- R	- R	- R
Isopropylbenzene	8.9 U	11 U	9.3 U	7.9 U	15 U
1,1,2,2-Tetrachloroethane	8.9 U	11 U	9.3 U	7.9 U	15 U
1,3-Dichlorobenzene	8.9 U	- R	- R	- R	- R
1,4-Dichlorobenzene	8.9 U	- R	- R	- R	- R
1,2-Dichlorobenzene	8.9 U	- R	- R	- R	- R
1,2-Dibromo-3-chloropropane	8.9 U	- R	- R	- R	- R
1,2,4-Trichlorobenzene	8.9 U	- R	- R	- R	- R
1,2,3-Trichlorobenzene	8.9 U	- R	- R	- R	- R

U - Compound not detected at the limit shown

R - Result rejected as unusable

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 8, Page 1 of 2
Volatile Organic Compounds - Surface Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SW01	BM-SW02	BM-SW10	BM-SW03	BM-SW04
EPA Sample No.	B56J0	B56J1	B56J9	B56J2	B56J3
Date:	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/3/2008
Compound (µg/L)			Dup. (SW02)		
Dichlorodifluoromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	- R	- R	- R	- R	- R
Trichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U
Toluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
m,p-Xylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

Table 8, Page 2 of 2
Volatile Organic Compounds - Surface Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SW05	BM-SW06	BM-SW07	BM-SW08	BM-SW09
EPA Sample No.	B56J4	B56J5	B56J6	B56J7	B56J8
Date:	12/3/2008	12/4/2008	12/3/2008	12/3/2008	12/3/2008
Compound (µg/L)					
Dichlorodifluoromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	10 U	10 U	10 U	10 U	10 U
Bromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	- R	- R	- R	- R	- R
Trichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U
Toluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
m,p-Xylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

U - Compound not detected at the limit shown
R - Result rejected as unusable

Table 9, Page 1 of 4
Semivolatile Organic Compounds - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S01	BM-S02	BM-S03	BM-S04	BM-S05	BM-S06	BM-S07	BM-S08	BM-S09
EPA Sample No.	B5685	B5686	B5687	B5688	B5689	B5690	B5691	B5692	B5693
Date:	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/18/2008	11/18/2008	11/17/2008
Compound (µg/kg)									
Benzaldehyde	190 U	200 U	180 U	1,100	74 J	180 U	180 U	25 J	190 U
Phenol	190 U	200 U	180 U	84 J	200 U	180 U	180 U	210 UJ	190 U
Bis(2-chloroethyl)ether	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
2-Chlorophenol	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
2-Methylphenol	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
2,2'-Oxybis(1-chloropropane)	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Acetophenone	190 U	200 U	180 U	200	200 U	180 U	180 U	210 UJ	190 U
4-Methylphenol	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
N-Nitroso-di-n-propylamine	190 UJ	200 UJ	180 UJ	190 U	200 UJ	180 U	180 U	210 UJ	190 U
Hexachloroethane	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Nitrobenzene	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Isophorone	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
2-Nitrophenol	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
2,4-Dimethylphenol	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Bis(2-chloroethoxy)methane	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
2,4-Dichlorophenol	190 UJ	200 UJ	180 UJ	190 U	200 UJ	180 U	180 U	210 UJ	190 U
Naphthalene	190 U	200 U	180 U	21 J	200 U	180 U	180 U	210 UJ	190 U
4-Chloroaniline	190 U	200 U	180 U	190 UJ	200 UJ	180 U	180 U	210 UJ	190 U
Hexachlorobutadiene	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Caprolactam	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
4-Chloro-3-methylphenol	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
2-Methylnaphthalene	190 U	200 U	180 U	190 UJ	200 U	180 U	180 U	210 UJ	190 U
Hexachlorocyclopentadiene	190 U	200 U	180 U	190 UJ	200 UJ	180 U	180 U	210 UJ	190 U
2,4,6-Trichlorophenol	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
2,4,5-Trichlorophenol	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
1,1'-Biphenyl	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
2-Chloronaphthalene	190 U	200 U	180 U	190 UJ	200 U	180 U	180 U	210 UJ	190 U
2-Nitroaniline	360 U	390 U	360 U	360 U	390 U	360 U	360 U	410 UJ	360 U
Dimethylphthalate	190 U	200 U	180 U	47 J	200 U	180 U	180 U	210 UJ	190 U
2,6-Dinitrotoluene	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Acenaphthylene	190 U	200 U	180 U	190 UJ	200 U	180 U	180 U	210 UJ	190 U
3-Nitroaniline	360 U	390 U	360 U	360 U	390 U	360 U	360 U	410 UJ	360 U
Acenaphthene	190 U	200 U	180 U	73 J	200 U	180 U	180 U	210 UJ	190 U
2,4-Dinitrophenol	360 U	390 U	360 U	360 U	390 U	360 UJ	360 U	410 UJ	360 UJ
4-Nitrophenol	360 U	390 U	360 U	360 U	390 U	360 U	360 U	410 UJ	360 U
Dibenzofuran	190 U	200 U	180 U	64 J	200 U	180 U	180 U	210 UJ	190 U
2,4-Dinitrotoluene	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Diethylphthalate	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Fluorene	190 U	200 U	180 U	100 J	200 U	180 U	180 U	210 UJ	190 U
4-Chlorophenyl-phenylether	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
4-Nitroaniline	360 U	390 U	360 U	360 U	390 U	360 U	360 U	410 UJ	360 U
4,6-Dinitro-2-methylphenol	360 U	390 U	360 U	360 U	390 U	360 U	360 U	410 UJ	360 U
N-Nitrosodiphenylamine	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
1,2,4,5-Tetrachlorobenzene	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
4-Bromophenyl-phenylether	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Hexachlorobenzene	190 U	200 U	180 U	190 UJ	200 U	180 U	180 UJ	210 UJ	190 U
Atrazine	190 U	200 U	180 U	190 UJ	200 U	180 U	180 UJ	210 UJ	190 U
Pentachlorophenol	360 U	390 U	360 U	360 UJ	390 U	360 UJ	360 UJ	410 UJ	360 UJ
Phenanthrene	190 U	200 U	180 U	1,200 J	200 U	19 J	180 UJ	210 UJ	190 U
Anthracene	190 U	200 U	180 U	190 UJ	200 U	180 U	180 UJ	210 UJ	190 U
Carbazole	190 U	200 U	180 U	100 J	200 U	180 U	180 U	210 UJ	190 U
Di-n-butylphthalate	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Fluoranthene	190 U	200 U	180 U	2,200 J	200 U	100 J	180 U	21 J	190 U
Pyrene	190 U	28 J	180 U	770 J	30 J	71 J	180 U	210 UJ	190 U
Butylbenzylphthalate	190 U	200 U	180 U	2,200	88 J	180 U	180 U	40 J	190 U
3,3'-Dichlorobenzidine	190 U	200 U	180 U	190 UJ	200 UJ	180 U	180 U	210 UJ	190 U
Benzo(a)anthracene	190 U	200 U	180 U	160 J	23 J	42 J	180 U	210 UJ	190 U
Chrysene	190 U	200 U	180 U	610 J	28 J	51 J	180 U	210 UJ	190 UJ
Bis(2-ethylhexyl)phthalate	190 U	200 U	210	58 J	250	210	180 U	210 UJ	53 J
Di-n-octylphthalate	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U
Benzo(b)fluoranthene	190 U	200 U	180 U	1,200 J	200 U	48 J	180 UJ	210 UJ	190 U
Benzo(k)fluoranthene	190 U	200 U	180 U	410 J	200 U	180 U	180 UJ	210 UJ	190 U
Benzo(a)pyrene	190 U	200 U	180 U	190 UJ	200 U	29 J	180 UJ	210 UJ	190 U
Indeno(1,2,3-cd)pyrene	190 U	200 U	180 U	420 J	200 U	180 U	180 UJ	210 UJ	190 U
Dibenzo(a,h)anthracene	190 U	200 U	180 U	43 J	200 U	180 U	180 UJ	210 UJ	190 U
Benzo(g,h,i)perylene	190 U	200 U	180 U	380 J	200 U	180 U	180 UJ	210 UJ	190 U
2,3,4,6-Tetrachlorophenol	190 U	200 U	180 U	190 U	200 U	180 U	180 U	210 UJ	190 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 9, Page 2 of 4
Semivolatile Organic Compounds - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S10	BM-S11	BM-S12	BM-S13	BM-S14	BM-S15	BM-S16	BM-S17
EPA Sample No.	B5694	B5695	B5696	B5697	B5698	B5699	B56A0	B56A1
Date:	11/18/2008	11/17/2008	11/20/2008	11/20/2008	11/20/2008	11/19/2008	11/20/2008	11/20/2008
Compound (µg/kg)								
Benzaldehyde	190 U	190 U	200 U	59 J	230	180 U	180 U	67 J
Phenol	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
Bis(2-chloroethyl)ether	190 U	190 U	200 UJ	180 UJ	200 U	180 U	180 U	200 U
2-Chlorophenol	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
2-Methylphenol	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
2,2'-Oxybis(1-chloropropane)	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
Acetophenone	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
4-Methylphenol	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
N-Nitroso-di-n-propylamine	190 U	190 U	200 U	180 U	200 U	180 UJ	180 U	200 U
Hexachloroethane	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
Nitrobenzene	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
Isophorone	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
2-Nitrophenol	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
2,4-Dimethylphenol	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
Bis(2-chloroethoxy)methane	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
2,4-Dichlorophenol	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
Naphthalene	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
4-Chloroaniline	190 U	190 U	200 U	180 UJ	200 UJ	180 U	180 UJ	200 U
Hexachlorobutadiene	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
Caprolactam	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
4-Chloro-3-methylphenol	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
2-Methylnaphthalene	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
Hexachlorocyclopentadiene	190 U	190 U	200 U	180 UJ	200 UJ	180 U	180 UJ	200 U
2,4,6-Trichlorophenol	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
2,4,5-Trichlorophenol	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
1,1'-Biphenyl	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
2-Chloronaphthalene	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
2-Nitroaniline	370 U	360 U	380 U	350 U	390 U	360 U	350 U	390 U
Dimethylphthalate	190 U	190 U	200 U	180 U	110 J	180 U	180 U	200 U
2,6-Dinitrotoluene	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
Acenaphthylene	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
3-Nitroaniline	370 U	360 U	380 U	350 U	390 U	360 U	350 U	390 U
Acenaphthene	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
2,4-Dinitrophenol	370 U	360 UJ	380 U	350 U	390 UJ	360 U	350 U	390 U
4-Nitrophenol	370 U	360 U	380 U	350 U	390 U	360 U	350 U	390 U
Dibenzofuran	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 UJ
2,4-Dinitrotoluene	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
Diethylphthalate	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
Fluorene	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 UJ
4-Chlorophenyl-phenylether	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 UJ
4-Nitroaniline	370 U	360 U	380 U	350 U	390 U	360 U	350 U	390 U
4,6-Dinitro-2-methylphenol	370 U	360 U	380 U	350 U	390 UJ	360 U	350 U	390 U
N-Nitrosodiphenylamine	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
1,2,4,5-Tetrachlorobenzene	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U
4-Bromophenyl-phenylether	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 UJ
Hexachlorobenzene	190 U	190 U	200 U	180 UJ	200 U	180 U	180 UJ	200 U
Atrazine	190 U	190 U	200 U	180 UJ	200 U	180 U	180 UJ	200 U
Pentachlorophenol	370 UJ	360 UJ	380 U	350 UJ	390 U	360 U	350 U	390 U
Phenanthrene	24 J	190 U	200 U	180 UJ	82 J	180 U	180 UJ	200 U
Anthracene	190 U	190 U	200 U	180 UJ	200 U	180 U	180 UJ	200 U
Carbazole	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 UJ
Di-n-butylphthalate	190 U	190 U	200 U	180 U	200 U	180 U	180 U	200 U
Fluoranthene	77 J	190 U	76 J	180 UJ	110 J	180 U	23 J	200 UJ
Pyrene	61 J	190 U	45 J	180 UJ	55 J	180 U	180 U	200 UJ
Butylbenzylphthalate	190 U	190 U	200 U	180 U	160 J	180 U	180 U	130 J
3,3'-Dichlorobenzidine	190 U	190 U	200 U	180 UJ	200 UJ	180 U	180 UJ	200 U
Benzo(a)anthracene	40 J	190 U	32 J	180 UJ	34 J	180 U	180 U	200 UJ
Chrysene	54 J	190 UJ	40 J	180 UJ	110 J	180 U	20 J	200 UJ
Bis(2-ethylhexyl)phthalate	190 U	37 J	200 U	63 J	1,300 J	180 U	180 U	60 J
Di-n-octylphthalate	190 U	190 U	200 U	180 U	200 U	- R	180 U	200 U
Benzo(b)fluoranthene	64 J	190 U	67 J	180 UJ	53 J	- R	23 J	200 UJ
Benzo(k)fluoranthene	28 J	190 U	23 J	180 UJ	200 UJ	- R	180 UJ	200 UJ
Benzo(a)pyrene	44 J	190 U	39 J	180 UJ	200 UJ	- R	180 UJ	200 UJ
Indeno(1,2,3-cd)pyrene	30 J	190 U	24 J	180 UJ	200 UJ	- R	180 UJ	200 UJ
Dibenzo(a,h)anthracene	190 U	190 U	200 U	180 UJ	200 UJ	- R	180 UJ	200 UJ
Benzo(g,h,i)perylene	36 J	190 U	23 J	180 UJ	200 UJ	- R	180 UJ	200 UJ
2,3,4,6-Tetrachlorophenol	190 U	190 U	200 U	180 UJ	200 U	180 U	180 U	200 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 9, Page 3 of 4
Semivolatile Organic Compounds - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S18	BM-S19	BM-S20	BM-S21	BM-S31	BM-S22	BM-S23	BM-S24
EPA Sample No.	B56A2	B56A3	B56A4	B56A5	B56B5	B56A6	B56A7	B56A8
Date:	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/18/2008	11/19/2008	11/19/2008	11/19/2008
Compound (µg/kg)					Dup. (S21)			
Benzaldehyde	180 U	180 U	56 J	180 U	67 J	180 UJ	180 U	180 U
Phenol	180 U	180 U	87 J	180 U	180 U	160 J	180 UJ	180 U
Bis(2-chloroethyl)ether	180 U	180 U	180 U	180 U	180 U	180 UJ	180 UJ	180 U
2-Chlorophenol	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2-Methylphenol	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2,2'-Oxybis(1-chloropropane)	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
Acetophenone	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
4-Methylphenol	180 U	180 U	92 J	180 U	180 U	180 UJ	180 U	180 U
N-Nitroso-di-n-propylamine	180 U	180 U	180 UJ	180 UJ	180 U	180 UJ	180 U	180 U
Hexachloroethane	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
Nitrobenzene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
Isophorone	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2-Nitrophenol	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2,4-Dimethylphenol	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
Bis(2-chloroethoxy)methane	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2,4-Dichlorophenol	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
Naphthalene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
4-Chloroaniline	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	180 UJ	180 U
Hexachlorobutadiene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
Caprolactam	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
4-Chloro-3-methylphenol	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2-Methylnaphthalene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
Hexachlorocyclopentadiene	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	180 UJ	180 U
2,4,6-Trichlorophenol	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2,4,5-Trichlorophenol	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
1,1'-Biphenyl	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2-Chloronaphthalene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2-Nitroaniline	350 U	350 U	360 U	360 U	360 U	350 UJ	350 U	360 U
Dimethylphthalate	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2,6-Dinitrotoluene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
Acenaphthylene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
3-Nitroaniline	350 U	350 U	360 U	360 U	360 U	350 UJ	350 U	360 U
Acenaphthene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2,4-Dinitrophenol	350 U	350 U	360 U	360 U	360 U	350 UJ	350 UJ	360 U
4-Nitrophenol	350 U	350 U	360 U	360 U	360 U	350 UJ	350 U	360 U
Dibenzofuran	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
2,4-Dinitrotoluene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
Diethylphthalate	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
Fluorene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
4-Chlorophenyl-phenylether	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
4-Nitroaniline	350 U	350 U	360 U	360 U	360 U	350 UJ	350 U	360 U
4,6-Dinitro-2-methylphenol	350 U	350 U	360 U	360 U	360 U	350 UJ	- R	360 U
N-Nitrosodiphenylamine	180 U	180 U	180 U	180 U	180 U	180 UJ	- R	180 U
1,2,4,5-Tetrachlorobenzene	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U
4-Bromophenyl-phenylether	180 U	180 U	180 U	180 U	180 U	180 UJ	- R	180 U
Hexachlorobenzene	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	- R	180 U
Atrazine	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	- R	180 U
Pentachlorophenol	350 UJ	350 UJ	360 U	360 U	360 UJ	350 UJ	- R	360 UJ
Phenanthrene	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	28 J	180 U
Anthracene	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	- R	180 U
Carbazole	180 U	180 U	180 U	180 U	180 U	180 UJ	- R	180 U
Di-n-butylphthalate	180 U	180 U	180 U	180 U	180 U	180 UJ	- R	180 U
Fluoranthene	180 U	180 U	180 UJ	180 U	180 U	22 J	- R	180 UJ
Pyrene	180 U	180 U	180 UJ	180 U	180 U	20 J	49 J	180 UJ
Butylbenzylphthalate	21 J	180 U	180 U	180 U	180 U	24 J	420 J	180 U
3,3'-Dichlorobenzidine	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	- R	180 U
Benzo(a)anthracene	180 U	180 U	180 UJ	180 U	180 U	180 UJ	21 J	180 UJ
Chrysene	180 U	180 U	180 UJ	180 U	180 U	180 UJ	58 J	180 UJ
Bis(2-ethylhexyl)phthalate	73 J	180 U	180 U	180 U	180 U	310 J	150 J	180 U
Di-n-octylphthalate	180 U	180 U	180 U	180 U	180 U	310 J	- R	180 U
Benzo(b)fluoranthene	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	- R	180 U
Benzo(k)fluoranthene	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	- R	180 U
Benzo(a)pyrene	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	- R	180 U
Indeno(1,2,3-cd)pyrene	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	- R	180 U
Dibenzo(a,h)anthracene	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	- R	180 U
Benzo(g,h,i)perylene	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	- R	180 U
2,3,4,6-Tetrachlorophenol	180 U	180 U	180 U	180 U	180 U	180 UJ	180 U	180 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 9, Page 4 of 4
Semivolatile Organic Compounds - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S25	BM-S26	BM-S27	BM-S28	BM-S29	BM-S30	BM-S32	BM-S33
EPA Sample No.	B56A9	B56B0	B56B1	B56B2	B56B3	B56B4	B56Q3	B56Q5
Date:	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/19/2008	11/19/2008	11/20/2008	11/20/2008
Compound (µg/kg)								
Benzaldehyde	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Phenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Bis(2-chloroethyl)ether	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2-Chlorophenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2-Methylphenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2,2'-Oxybis(1-chloropropane)	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Acetophenone	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
4-Methylphenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
N-Nitroso-di-n-propylamine	180 U	190 U	200 UJ	180 U	190 U	200 U	190 U	210 U
Hexachloroethane	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Nitrobenzene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Isophorone	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2-Nitrophenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2,4-Dimethylphenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Bis(2-chloroethoxy)methane	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2,4-Dichlorophenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Naphthalene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
4-Chloroaniline	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Hexachlorobutadiene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Caprolactam	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
4-Chloro-3-methylphenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2-Methylnaphthalene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Hexachlorocyclopentadiene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2,4,6-Trichlorophenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2,4,5-Trichlorophenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
1,1'-Biphenyl	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2-Chloronaphthalene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2-Nitroaniline	360 U	360 U	390 U	350 U	370 U	390 U	360 U	400 U
Dimethylphthalate	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2,6-Dinitrotoluene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Acenaphthylene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
3-Nitroaniline	360 U	360 U	390 U	350 U	370 U	390 U	360 U	400 U
Acenaphthene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2,4-Dinitrophenol	360 U	360 U	390 U	350 U	370 U	390 U	360 UJ	400 U
4-Nitrophenol	360 U	360 U	390 U	350 U	370 U	390 U	360 U	400 U
Dibenzofuran	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
2,4-Dinitrotoluene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Diethylphthalate	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Fluorene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
4-Chlorophenyl-phenylether	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
4-Nitroaniline	360 U	360 U	390 U	350 U	370 U	390 U	360 U	400 U
4,6-Dinitro-2-methylphenol	360 U	360 U	390 U	350 U	370 U	390 U	360 UJ	400 U
N-Nitrosodiphenylamine	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
1,2,4,5-Tetrachlorobenzene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
4-Bromophenyl-phenylether	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Hexachlorobenzene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Atrazine	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Pentachlorophenol	360 UJ	360 UJ	390 U	350 UJ	370 UJ	390 UJ	360 U	400 U
Phenanthrene	180 U	190 U	260	180 U	190 U	200 U	30 J	210 U
Anthracene	180 U	190 U	49 J	180 U	190 U	200 U	190 U	210 U
Carbazole	180 U	190 U	36 J	180 U	190 U	200 U	190 U	210 U
Di-n-butylphthalate	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Fluoranthene	180 U	190 U	900	180 U	190 U	37 J	92 J	39 J
Pyrene	180 U	190 U	820	180 U	190 U	28 J	63 J	31 J
Butylbenzylphthalate	180 U	190 U	200 U	180 U	190 U	77 J	190 U	210 U
3,3'-Dichlorobenzidine	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Benzo(a)anthracene	180 U	190 U	450	180 U	190 U	200 U	48 J	25 J
Chrysene	180 U	190 U	560	180 U	190 U	200 U	170 J	31 J
Bis(2-ethylhexyl)phthalate	38 J	190 U	200 U	180 U	190 U	61 J	190 U	210 U
Di-n-octylphthalate	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Benzo(b)fluoranthene	180 U	190 U	870	180 U	190 U	27 J	100 J	34 J
Benzo(k)fluoranthene	180 U	190 U	310	180 U	190 U	200 U	56 J	210 U
Benzo(a)pyrene	180 U	190 U	490	180 U	190 U	200 U	71 J	21 J
Indeno(1,2,3-cd)pyrene	180 U	190 U	340	180 U	190 U	200 U	65 J	210 U
Dibenzo(a,h)anthracene	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U
Benzo(g,h,i)perylene	180 U	190 U	360	180 U	190 U	200 U	120 J	210 U
2,3,4,6-Tetrachlorophenol	180 U	190 U	200 U	180 U	190 U	200 U	190 U	210 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 10, Page 1 of 4
Semivolatile Organic Compounds - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS01	BM-SS02	BM-SS03	BM-SS04	BM-SS05	BM-SS06	BM-SS07	BM-SS08	BM-SS09
EPA Sample No.	B56B6	B56B7	B56B8	B56B9	B56C0	B56C1	B56C2	B56C3	B56C4
Date:	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/18/2008	11/18/2008	11/17/2008
Compound (µg/kg)									
Benzaldehyde	190 U	190 U	190 U	180 U	89 J	210 U	200 U	190 U	200 U
Phenol	190 U	190 U	28 J	180 U	210 U	210 U	200 U	190 U	200 U
Bis(2-chloroethyl)ether	190 U	190 U	190 UJ	180 U	210 U	210 U	200 U	190 U	200 U
2-Chlorophenol	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2-Methylphenol	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2,2'-Oxybis(1-chloropropane)	190 U	190 U	190 UJ	180 U	210 U	210 U	200 U	190 U	200 U
Acetophenone	190 U	190 U	190 UJ	180 U	210 U	210 U	200 U	190 U	200 U
4-Methylphenol	190 U	190 U	33 J	180 U	210 U	210 U	200 U	190 U	200 U
N-Nitroso-di-n-propylamine	190 UJ	190 UJ	190 UJ	180 UJ	210 UJ	210 U	200 UJ	190 UJ	200 U
Hexachloroethane	190 U	190 U	190 UJ	180 U	210 U	210 U	200 U	190 U	200 U
Nitrobenzene	190 U	190 U	190 UJ	180 U	210 U	210 U	200 U	190 U	200 U
Isophorone	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2-Nitrophenol	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2,4-Dimethylphenol	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Bis(2-chloroethoxy)methane	190 U	190 U	190 UJ	180 U	210 U	210 U	200 U	190 U	200 U
2,4-Dichlorophenol	190 UJ	190 UJ	190 U	180 UJ	210 UJ	210 U	200 U	190 U	200 U
Naphthalene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
4-Chloroaniline	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Hexachlorobutadiene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Caprolactam	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
4-Chloro-3-methylphenol	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2-Methylnaphthalene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Hexachlorocyclopentadiene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2,4,6-Trichlorophenol	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2,4,5-Trichlorophenol	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
1,1'-Biphenyl	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2-Chloronaphthalene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2-Nitroaniline	370 U	360 U	370 U	350 U	400 U	410 U	400 U	370 U	390 U
Dimethylphthalate	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2,6-Dinitrotoluene	190 U	190 U	190 UJ	180 U	210 U	210 U	200 U	190 U	200 U
Acenaphthylene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
3-Nitroaniline	370 U	360 U	370 U	350 U	400 U	410 U	400 U	370 U	390 U
Acenaphthene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2,4-Dinitrophenol	370 U	360 U	370 U	350 U	400 U	410 UJ	400 U	370 U	390 UJ
4-Nitrophenol	370 U	360 U	370 U	350 U	400 U	410 U	400 U	370 U	390 U
Dibenzofuran	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2,4-Dinitrotoluene	190 U	190 U	190 UJ	180 U	210 U	210 U	200 U	190 U	200 U
Diethylphthalate	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Fluorene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
4-Chlorophenyl-phenylether	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
4-Nitroaniline	370 U	360 U	370 U	350 U	400 U	410 U	400 U	370 U	390 U
4,6-Dinitro-2-methylphenol	370 U	360 U	370 U	350 U	400 U	410 U	400 U	370 U	390 U
N-Nitrosodiphenylamine	190 U	190 U	190 UJ	180 U	210 U	210 U	200 U	190 U	200 U
1,2,4,5-Tetrachlorobenzene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
4-Bromophenyl-phenylether	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Hexachlorobenzene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Atrazine	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Pentachlorophenol	370 U	360 U	370 UJ	350 U	400 U	410 UJ	400 U	370 U	390 UJ
Phenanthrene	190 U	190 U	190 U	180 U	68 J	210 U	200 U	190 U	200 U
Anthracene	190 U	190 U	190 U	180 U	21 J	210 U	200 U	190 U	200 U
Carbazole	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Di-n-butylphthalate	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Fluoranthene	190 U	190 U	190 U	180 U	96 J	210 U	200 U	36 J	200 U
Pyrene	190 U	190 U	190 U	180 U	93 J	210 U	200 U	32 J	200 U
Butylbenzylphthalate	190 U	190 U	51 J	180 U	210 U	210 U	200 U	190 U	200 U
3,3'-Dichlorobenzidine	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Benzo(a)anthracene	190 U	190 U	190 U	180 U	44 J	210 U	200 U	190 U	200 U
Chrysene	190 U	190 U	190 U	180 U	39 J	210 UJ	200 U	23 J	200 UJ
Bis(2-ethylhexyl)phthalate	190 U	67 J	700	180 U	370	75 J	200 U	190 U	41 J
Di-n-octylphthalate	190 U	190 U	25 J	180 U	210 U	210 U	200 U	190 U	200 U
Benzo(b)fluoranthene	190 U	190 U	190 U	180 U	68 J	210 U	200 U	37 J	200 U
Benzo(k)fluoranthene	190 U	190 U	190 U	180 U	26 J	210 U	200 U	190 U	200 U
Benzo(a)pyrene	190 U	190 U	190 U	180 U	42 J	210 U	200 U	190 U	200 U
Indeno(1,2,3-cd)pyrene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Dibenzo(a,h)anthracene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
Benzo(g,h,i)perylene	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U
2,3,4,6-Tetrachlorophenol	190 U	190 U	190 U	180 U	210 U	210 U	200 U	190 U	200 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 10, Page 2 of 4
Semivolatile Organic Compounds - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS10	BM-SS11	BM-SS12	BM-SS13	BM-SS15	BM-SS16	BM-SS17	BM-SS18
EPA Sample No.	B56C5	B56C6	B56C7	B56C8	B56D0	B56D1	B56D2	B56D3
Date:	11/18/2008	11/17/2008	11/20/2008	11/20/2008	11/19/2008	11/20/2008	11/20/2008	11/19/2008
Compound (µg/kg)								
Benzaldehyde	200 U	190 U	210 U	190 UJ	190 UJ	190 U	110 J	190 U
Phenol	200 U	190 U	210 U	190 UJ	200 J	190 U	230 U	190 U
Bis(2-chloroethyl)ether	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2-Chlorophenol	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2-Methylphenol	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2,2'-Oxybis(1-chloropropane)	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Acetophenone	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
4-Methylphenol	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
N-Nitroso-di-n-propylamine	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Hexachloroethane	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Nitrobenzene	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Isophorone	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2-Nitrophenol	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2,4-Dimethylphenol	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Bis(2-chloroethoxy)methane	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2,4-Dichlorophenol	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Naphthalene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
4-Chloroaniline	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 UJ	190 U
Hexachlorobutadiene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Caprolactam	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
4-Chloro-3-methylphenol	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2-Methylnaphthalene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Hexachlorocyclopentadiene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 UJ	190 U
2,4,6-Trichlorophenol	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2,4,5-Trichlorophenol	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
1,1'-Biphenyl	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2-Chloronaphthalene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2-Nitroaniline	390 U	370 U	400 U	370 UJ	370 UJ	370 U	440 U	370 U
Dimethylphthalate	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2,6-Dinitrotoluene	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Acenaphthylene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
3-Nitroaniline	390 U	370 U	400 U	370 UJ	370 UJ	370 U	440 U	370 U
Acenaphthene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2,4-Dinitrophenol	390 U	370 UJ	400 U	370 UJ	370 UJ	370 U	440 U	370 U
4-Nitrophenol	390 U	370 U	400 U	370 UJ	370 UJ	370 U	440 U	370 U
Dibenzofuran	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
2,4-Dinitrotoluene	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Diethylphthalate	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Fluorene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
4-Chlorophenyl-phenylether	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
4-Nitroaniline	390 U	370 U	400 U	370 UJ	370 UJ	370 U	440 U	370 U
4,6-Dinitro-2-methylphenol	390 U	370 U	400 U	370 UJ	370 UJ	370 U	440 U	370 U
N-Nitrosodiphenylamine	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
1,2,4,5-Tetrachlorobenzene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
4-Bromophenyl-phenylether	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Hexachlorobenzene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Atrazine	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Pentachlorophenol	390 UJ	370 UJ	400 U	370 UJ	370 UJ	370 U	440 U	370 UJ
Phenanthrene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Anthracene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Carbazole	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Di-n-butylphthalate	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Fluoranthene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Pyrene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Butylbenzylphthalate	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
3,3'-Dichlorobenzidine	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 UJ	190 U
Benzo(a)anthracene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Chrysene	200 U	190 UJ	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Bis(2-ethylhexyl)phthalate	200 U	36 J	210 U	190 UJ	33 J	190 U	230 U	32 J
Di-n-octylphthalate	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U
Benzo(b)fluoranthene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 UJ
Benzo(k)fluoranthene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 UJ
Benzo(a)pyrene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 UJ
Indeno(1,2,3-cd)pyrene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 UJ
Dibenzo(a,h)anthracene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 UJ
Benzo(g,h,i)perylene	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 UJ
2,3,4,6-Tetrachlorophenol	200 U	190 U	210 U	190 UJ	190 UJ	190 U	230 U	190 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 10, Page 3 of 4
Semivolatile Organic Compounds - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS19	BM-SS20	BM-SS21	BM-SS31	BM-SS22	BM-SS32	BM-SS23	BM-SS24
EPA Sample No.	B56D4	B56D5	B56D6	B56E6	B56D7	B56E7	B56D8	B56D9
Date:	11/19/2008	11/18/2008	11/18/2008	11/18/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008
Compound (µg/kg)	Dup. (SS21)			Dup. (SS22)				
Benzaldehyde	200 U	58 J	180 U	180 U	190 U	180 U	200 U	220 U
Phenol	200 U	230 J	180 U	180 U	190 U	180 U	200 U	220 U
Bis(2-chloroethyl)ether	200 U	190 UJ	180 U	180 U	190 U	180 UJ	200 UJ	220 U
2-Chlorophenol	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2-Methylphenol	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2,2'-Oxybis(1-chloropropane)	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Acetophenone	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
4-Methylphenol	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
N-Nitroso-di-n-propylamine	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Hexachloroethane	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Nitrobenzene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Isophorone	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2-Nitrophenol	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2,4-Dimethylphenol	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Bis(2-chloroethoxy)methane	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2,4-Dichlorophenol	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Naphthalene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
4-Chloroaniline	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Hexachlorobutadiene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Caprolactam	200 UJ	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
4-Chloro-3-methylphenol	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2-Methylnaphthalene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Hexachlorocyclopentadiene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2,4,6-Trichlorophenol	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2,4,5-Trichlorophenol	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
1,1'-Biphenyl	200 UJ	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2-Chloronaphthalene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2-Nitroaniline	390 U	380 UJ	350 U	350 U	370 U	360 U	390 U	420 U
Dimethylphthalate	200 UJ	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2,6-Dinitrotoluene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Acenaphthylene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
3-Nitroaniline	390 U	380 UJ	350 U	350 U	370 U	360 U	390 U	420 U
Acenaphthene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2,4-Dinitrophenol	390 U	380 UJ	350 U	350 U	370 U	360 U	390 U	420 U
4-Nitrophenol	390 U	380 UJ	350 U	350 U	370 U	360 U	390 U	420 U
Dibenzofuran	200 UJ	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
2,4-Dinitrotoluene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Diethylphthalate	200 UJ	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Fluorene	200 UJ	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
4-Chlorophenyl-phenylether	200 UJ	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
4-Nitroaniline	390 U	380 UJ	350 U	350 U	370 U	360 U	390 U	420 U
4,6-Dinitro-2-methylphenol	390 U	380 UJ	350 U	350 U	370 U	360 U	390 U	420 U
N-Nitrosodiphenylamine	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
1,2,4,5-Tetrachlorobenzene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
4-Bromophenyl-phenylether	200 UJ	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Hexachlorobenzene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Atrazine	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Pentachlorophenol	390 UJ	380 UJ	350 UJ	350 UJ	370 UJ	360 U	390 U	420 UJ
Phenanthrene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Anthracene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Carbazole	200 UJ	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Di-n-butylphthalate	200 UJ	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U
Fluoranthene	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	30 J
Pyrene	200 U	190 UJ	180 U	180 U	190 U	180 U	- R	220 UJ
Butylbenzylphthalate	200 UJ	190 UJ	180 U	180 U	190 U	180 U	- R	220 U
3,3'-Dichlorobenzidine	200 U	190 UJ	180 U	180 U	190 U	180 U	- R	220 U
Benzo(a)anthracene	200 U	190 UJ	180 U	180 U	190 U	180 U	- R	220 UJ
Chrysene	200 U	190 UJ	180 U	180 U	190 U	180 U	- R	23 J
Bis(2-ethylhexyl)phthalate	39 J	190 UJ	180 U	180 U	190 U	180 U	- R	220 U
Di-n-octylphthalate	200 UJ	190 UJ	180 U	180 U	190 U	180 U	- R	220 U
Benzo(b)fluoranthene	200 U	190 UJ	180 U	180 U	190 U	180 UJ	- R	25 J
Benzo(k)fluoranthene	200 U	190 UJ	180 U	180 U	190 U	180 U	- R	220 U
Benzo(a)pyrene	200 U	190 UJ	180 U	180 U	190 U	180 U	- R	220 U
Indeno(1,2,3-cd)pyrene	200 U	190 UJ	180 U	180 U	190 U	180 U	- R	220 U
Dibenzo(a,h)anthracene	200 U	190 UJ	180 U	180 U	190 U	180 U	- R	220 U
Benzo(g,h,i)perylene	200 U	190 UJ	180 U	180 U	190 U	180 UJ	- R	220 U
2,3,4,6-Tetrachlorophenol	200 U	190 UJ	180 U	180 U	190 U	180 U	200 U	220 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 10, Page 4 of 4
Semivolatile Organic Compounds - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS25	BM-SS26	BM-SS27	BM-SS28	BM-SS29	BM-SS30	BM-SS32	BM-SS33
EPA Sample No.	B56E0	B56E1	B56E2	B56E3	B56E4	B56E5	B56Q4	B56Q6
Date:	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/19/2008	11/19/2008	11/20/2008	11/20/2008
Compound (µg/kg)								
Benzaldehyde	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Phenol	190 J	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Bis(2-chloroethyl)ether	180 UJ	200 U	200 U	200 U	200 UJ	190 U	210 U	190 U
2-Chlorophenol	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2-Methylphenol	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2,2'-Oxybis(1-chloropropane)	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Acetophenone	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
4-Methylphenol	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
N-Nitroso-di-n-propylamine	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Hexachloroethane	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Nitrobenzene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Isophorone	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2-Nitrophenol	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2,4-Dimethylphenol	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Bis(2-chloroethoxy)methane	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2,4-Dichlorophenol	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Naphthalene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
4-Chloroaniline	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Hexachlorobutadiene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Caprolactam	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
4-Chloro-3-methylphenol	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2-Methylnaphthalene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Hexachlorocyclopentadiene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2,4,6-Trichlorophenol	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2,4,5-Trichlorophenol	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
1,1'-Biphenyl	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2-Chloronaphthalene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2-Nitroaniline	360 UJ	380 U	390 U	390 U	390 U	370 U	400 U	370 U
Dimethylphthalate	180 UJ	200 U	200 U	200 U	200 U	190 U	46 J	190 U
2,6-Dinitrotoluene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Acenaphthylene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
3-Nitroaniline	360 UJ	380 U	390 U	390 U	390 U	370 U	400 U	370 U
Acenaphthene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2,4-Dinitrophenol	360 UJ	380 U	390 U	390 U	390 U	370 U	400 U	370 UJ
4-Nitrophenol	360 UJ	380 U	390 U	390 U	390 U	370 U	400 U	370 U
Dibenzofuran	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
2,4-Dinitrotoluene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Diethylphthalate	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Fluorene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
4-Chlorophenyl-phenylether	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
4-Nitroaniline	360 UJ	380 U	390 U	390 U	390 U	370 U	400 U	370 U
4,6-Dinitro-2-methylphenol	360 UJ	380 U	390 U	390 U	390 U	370 U	400 U	370 UJ
N-Nitrosodiphenylamine	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
1,2,4,5-Tetrachlorobenzene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
4-Bromophenyl-phenylether	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Hexachlorobenzene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Atrazine	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Pentachlorophenol	360 UJ	380 UJ	390 UJ	390 UJ	390 U	370 UJ	400 U	370 U
Phenanthrene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Anthracene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Carbazole	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Di-n-butylphthalate	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Fluoranthene	180 UJ	200 U	200 U	200 U	200 U	190 U	28 J	190 U
Pyrene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 UJ
Butylbenzylphthalate	180 UJ	32 J	200 U	200 U	200 U	190 U	210 U	190 U
3,3'-Dichlorobenzidine	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Benzo(a)anthracene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Chrysene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Bis(2-ethylhexyl)phthalate	35 J	57 J	200 U	200 U	200 U	19 J	48 J	190 U
Di-n-octylphthalate	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Benzo(b)fluoranthene	180 UJ	200 U	200 U	200 U	200 UJ	190 U	210 U	190 U
Benzo(k)fluoranthene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Benzo(a)pyrene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Indeno(1,2,3-cd)pyrene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Dibenzo(a,h)anthracene	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U
Benzo(g,h,i)perylene	180 UJ	200 U	200 U	200 U	200 UJ	190 U	210 U	190 U
2,3,4,6-Tetrachlorophenol	180 UJ	200 U	200 U	200 U	200 U	190 U	210 U	190 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 11, Page 1 of 2
Semivolatile Organic Compounds - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW01	BM-GW02	BM-GW03	BM-GW04	BM-GW05	BM-GW06	BM-GW07	BM-GW13	BM-GW08
EPA Sample No.	B56E8	B56E9	B56F0	B56F1	B56F2	B56F3	B56F4	B56G0	B56F5
Date:	12/2/2008	12/2/2008	12/2/2008	12/4/2008	12/4/2008	12/2/2008	12/4/2008	12/4/2008	12/3/2008
Compound (µg/L)	Dup. (GW07)								
Benzaldehyde	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-chloroethyl)ether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,2'-Oxybis(1-chloropropane)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetophenone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitroso-di-n-propylamine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitrophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-chloroethoxy)methane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.8 J	5.0 U	5.0 U	5.0 U
4-Chloroaniline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Caprolactam	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.2 J	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1'-Biphenyl	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitroaniline	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 J	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.87 J	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.4 J	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenylether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitroaniline	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4,5-Tetrachlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Bromophenyl-phenylether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Atrazine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	5.0 U	1.0 J	5.0 U	5.0 U	5.0 U	6.7	5.0 U	5.0 U	5.0 U
Anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.6 J	5.0 U	5.0 U	5.0 U
Carbazole	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.65 J	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	5.0 U	0.80 J	5.0 U	5.0 U	5.0 U	4.6 J	5.0 U	5.0 U	5.0 U
Pyrene	5.0 U	0.74 J	5.0 U	5.0 U	5.0 U	3.8 J	5.0 U	5.0 U	5.0 U
Butylbenzylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.5 J	5.0 U	5.0 U	5.0 U
Chrysene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.4 J	5.0 U	5.0 U	5.0 U
Bis(2-ethylhexyl)phthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-octylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.1 J	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.80 J	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3 J	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.58 J	5.0 U	5.0 U	5.0 U
Dibenzo(a,h)anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.71 J	5.0 U	5.0 U	5.0 U
2,3,4,6-Tetrachlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

U - Compound not detected at the limit shown
J - Estimated concentration

Table 11, Page 2 of 2
Semivolatile Organic Compounds - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW09	BM-GW10	BM-GW11	BM-GW12	BM-GW14	BM-DW01	BM-DW02	BM-DW03
EPA Sample No.	B56F6	B56F7	B56F8	B56F9	B56G4	B56G1	B56G2	B56G3
Date:	12/3/2008	12/3/2008	12/3/2008	12/4/2008	12/4/2008	12/2/2008	12/2/2008	11/19/2008
Compound (µg/L)	Dup. (DW01)							
Benzaldehyde	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-chloroethyl)ether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,2'-Oxybis(1-chloropropane)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetophenone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitroso-di-n-propylamine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitrophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-chloroethoxy)methane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Caprolactam	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1'-Biphenyl	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitroaniline	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenylether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitroaniline	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4,5-Tetrachlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Bromophenyl-phenylether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Atrazine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbazole	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Butylbenzylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-ethylhexyl)phthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-octylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzo(a,h)anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,3,4,6-Tetrachlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

U - Compound not detected at the limit shown
J - Estimated concentration

Table 12, Page 1 of 2
Semivolatile Organic Compounds - Sediment
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SD01	BM-SD02	BM-SD10	BM-SD03	BM-SD04	BM-SD05	BM-SD06	BM-SD07
EPA Sample No.	B56G5	B56G6	B56H4	B56G7	B56G8	B56G9	B56H0	B56H1
Date:	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/3/2008	12/3/2008	12/4/2008	12/3/2008
Compound (µg/kg)	Dup. (SD02)							
Benzaldehyde	120 J	110 J	150 J	100 J	310 U	60 J	66 J	54 J
Phenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Bis(2-chloroethyl)ether	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2-Chlorophenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2-Methylphenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2,2'-Oxybis(1-chloropropane)	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Acetophenone	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
4-Methylphenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
N-Nitroso-di-n-propylamine	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Hexachloroethane	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Nitrobenzene	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Isophorone	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2-Nitrophenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2,4-Dimethylphenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Bis(2-chloroethoxy)methane	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2,4-Dichlorophenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Naphthalene	44 J	400 U	420 U	350 U	310 U	420 U	290 U	280 U
4-Chloroaniline	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Hexachlorobutadiene	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Caprolactam	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
4-Chloro-3-methylphenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2-Methylnaphthalene	69 J	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Hexachlorocyclopentadiene	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2,4,6-Trichlorophenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2,4,5-Trichlorophenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
1,1'-Biphenyl	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2-Chloronaphthalene	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2-Nitroaniline	650 U	780 U	810 U	670 U	600 U	820 U	570 U	530 U
Dimethylphthalate	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2,6-Dinitrotoluene	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Acenaphthylene	70 J	41 J	420 U	80 J	310 U	110 J	290 U	280 U
3-Nitroaniline	650 U	780 U	810 U	670 U	600 U	820 U	570 U	530 U
Acenaphthene	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2,4-Dinitrophenol	650 U	780 U	810 U	670 U	600 U	820 U	570 U	530 U
4-Nitrophenol	650 U	780 U	810 U	670 U	600 U	820 U	570 U	530 U
Dibenzofuran	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
2,4-Dinitrotoluene	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Diethylphthalate	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Fluorene	34 J	400 U	420 U	350 U	310 U	52 J	290 U	280 U
4-Chlorophenyl-phenylether	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
4-Nitroaniline	650 U	780 U	810 U	670 U	600 U	820 U	570 U	530 U
4,6-Dinitro-2-methylphenol	650 U	780 U	810 U	670 U	600 U	820 U	570 U	530 U
N-Nitrosodiphenylamine	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
1,2,4,5-Tetrachlorobenzene	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
4-Bromophenyl-phenylether	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Hexachlorobenzene	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Atrazine	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Pentachlorophenol	650 U	780 U	810 U	670 U	600 U	820 U	570 U	530 U
Phenanthrene	490	270 J	280 J	550	120 J	710	290 U	78 J
Anthracene	120 J	55 J	55 J	110 J	31 J	170 J	290 U	280 U
Carbazole	73 J	42 J	44 J	84 J	310 U	83 J	290 U	280 U
Di-n-butylphthalate	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Fluoranthene	1,200	790	830	1,500	280 J	1,600	31 J	190 J
Pyrene	1,200	750	800	1,300	270 J	1,600	29 J	200 J
Butylbenzylphthalate	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
3,3'-Dichlorobenzidine	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Benzo(a)anthracene	600	380 J	430	700	140 J	790	290 U	110 J
Chrysene	920	560	550	1,000	160 J	1,100	290 U	140 J
Bis(2-ethylhexyl)phthalate	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Di-n-octylphthalate	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U
Benzo(b)fluoranthene	970	700	600	1,300	150 J	1,200	290 U	140 J
Benzo(k)fluoranthene	440	270 J	450	500	120 J	580	290 U	57 J
Benzo(a)pyrene	690	460	470	850	140 J	880	290 U	100 J
Indeno(1,2,3-cd)pyrene	460	320 J	330 J	600	77 J	570	290 U	62 J
Dibenzo(a,h)anthracene	140 J	94 J	99 J	180 J	310 U	170 J	290 U	280 U
Benzo(g,h,i)perylene	530	380 J	380 J	730	88 J	660	290 U	70 J
2,3,4,6-Tetrachlorophenol	340 U	400 U	420 U	350 U	310 U	420 U	290 U	280 U

U - Compound not detected at the limit shown

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 12, Page 2 of 2
Semivolatile Organic Compounds - Sediment
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SD08	BM-SD09	BM-SD11	BM-SD12	BM-SD13	BM-SD14	BM-SD15
EPA Sample No.	B56H2	B56H3	B56H5	B56H6	B56H7	B56H8	B56H9
Date:	12/3/2008	12/3/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008
Compound (µg/kg)							
Benzaldehyde	240 U	280 U	90 J	60 J	56 J	260 U	570
Phenol	240 U	280 U	30 J	340 U	250 U	260 U	390 U
Bis(2-chloroethyl)ether	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2-Chlorophenol	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2-Methylphenol	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2,2'-Oxybis(1-chloropropane)	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Acetophenone	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
4-Methylphenol	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
N-Nitroso-di-n-propylamine	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Hexachloroethane	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Nitrobenzene	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Isophorone	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2-Nitrophenol	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2,4-Dimethylphenol	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Bis(2-chloroethoxy)methane	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2,4-Dichlorophenol	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Naphthalene	240 U	280 U	260 UJ	340 U	110 J	260 U	390 U
4-Chloroaniline	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Hexachlorobutadiene	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Caprolactam	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
4-Chloro-3-methylphenol	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2-Methylnaphthalene	240 U	280 U	260 UJ	340 U	78 J	260 U	390 U
Hexachlorocyclopentadiene	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2,4,6-Trichlorophenol	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2,4,5-Trichlorophenol	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
1,1'-Biphenyl	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2-Chloronaphthalene	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2-Nitroaniline	470 U	550 U	510 UJ	650 U	490 U	500 U	760 U
Dimethylphthalate	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
2,6-Dinitrotoluene	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Acenaphthylene	240 U	280 U	120 J	73 J	360	82 J	360 J
3-Nitroaniline	470 U	550 U	510 UJ	650 U	490 U	500 U	760 U
Acenaphthene	240 U	280 U	54 J	52 J	220 J	37 J	44 J
2,4-Dinitrophenol	470 U	550 U	510 UJ	650 UJ	490 UJ	500 UJ	760 UJ
4-Nitrophenol	470 U	550 U	510 UJ	650 U	490 U	500 U	760 U
Dibenzofuran	240 U	280 U	260 UJ	340 U	170 J	260 U	390 U
2,4-Dinitrotoluene	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Diethylphthalate	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Fluorene	240 U	280 U	81 J	66 J	320	55 J	82 J
4-Chlorophenyl-phenylether	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
4-Nitroaniline	470 U	550 U	510 UJ	650 U	490 U	500 U	760 U
4,6-Dinitro-2-methylphenol	470 U	550 U	510 UJ	650 U	490 U	500 U	760 U
N-Nitrosodiphenylamine	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
1,2,4,5-Tetrachlorobenzene	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
4-Bromophenyl-phenylether	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Hexachlorobenzene	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Atrazine	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Pentachlorophenol	470 U	550 U	510 UJ	650 UJ	490 UJ	500 UJ	760 UJ
Phenanthrene	240 U	280 U	1,100 J	1,100	5,000 J	670	1,100
Anthracene	240 U	280 U	310 J	190 J	910	150 J	340 J
Carbazole	240 U	280 U	94 J	140 J	550	70 J	130 J
Di-n-butylphthalate	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Fluoranthene	240 U	280 U	2,600 J	3,400	14,000	2,100	4,000
Pyrene	240 U	280 U	2,100 J	2,300	9,300	1,500	2,500
Butylbenzylphthalate	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
3,3'-Dichlorobenzidine	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Benzo(a)anthracene	240 U	280 U	1,300 J	1,100	3,200	800	1,500
Chrysene	240 U	280 U	1,300 J	1,500 J	3,900 J	930 J	1,900 J
Bis(2-ethylhexyl)phthalate	240 U	280 U	290 J	300 J	160 J	95 J	170 J
Di-n-octylphthalate	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U
Benzo(b)fluoranthene	240 U	280 U	1,600 J	1,700	6,300	1,000	2,500
Benzo(k)fluoranthene	240 U	280 U	580 J	940	2,800	560	980
Benzo(a)pyrene	240 U	280 U	1,200 J	1,200	2,700	720	1,500
Indeno(1,2,3-cd)pyrene	240 U	280 U	730 J	790	2,000	470	1,100
Dibenzo(a,h)anthracene	240 U	280 U	220 J	230 J	730	160 J	350 J
Benzo(g,h,i)perylene	240 U	280 U	830 J	220 J	400	110 J	250 J
2,3,4,6-Tetrachlorophenol	240 U	280 U	260 UJ	340 U	250 U	260 U	390 U

U - Compound not detected at the limit shown

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 13, Page 1 of 2
Semivolatile Organic Compounds - Surface Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SW01	BM-SW02	BM-SW10	BM-SW03	BM-SW04
EPA Sample No.	B56J0	B56J1	B56J9	B56J2	B56J3
Date:	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/3/2008
Compound (µg/L)	Dup. (SW02)				
Benzaldehyde	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-chloroethyl)ether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,2'-Oxybis(1-chloropropane)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetophenone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitroso-di-n-propylamine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitrophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-chloroethoxy)methane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Caprolactam	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1'-Biphenyl	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitroaniline	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	10 U	10 U	10 U	10 U	10 U
Acenaphthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenylether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitroaniline	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4,5-Tetrachlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Bromophenyl-phenylether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Atrazine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	10 U	10 U	10 U	10 U	10 U
Phenanthrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbazole	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	5.0 U	5.0 U	5.0 U	0.51 J	5.0 U
Pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Butylbenzylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-ethylhexyl)phthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-octylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzo(a,h)anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,3,4,6-Tetrachlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

U - Compound not detected at the limit shown
J - Estimated concentration

Table 13, Page 2 of 2
Semivolatile Organic Compounds - Surface Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SW05	BM-SW06	BM-SW07	BM-SW08	BM-SW09
EPA Sample No.	B56J4	B56J5	B56J6	B56J7	B56J8
Date:	12/3/2008	12/4/2008	12/3/2008	12/3/2008	12/3/2008
Compound (µg/L)					
Benzaldehyde	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-chloroethyl)ether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,2'-Oxybis(1-chloropropane)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetophenone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitroso-di-n-propylamine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitrophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-chloroethoxy)methane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Caprolactam	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1'-Biphenyl	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitroaniline	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	10 U	10 U	10 U	10 U	10 U
Acenaphthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenylether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitroaniline	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4,5-Tetrachlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Bromophenyl-phenylether	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Atrazine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	10 U	10 U	10 U	10 U	10 U
Phenanthrene	5.0 U	5.0 U	5.0 U	5.0 U	0.75 J
Anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbazole	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	0.54 J
Pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Butylbenzylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-ethylhexyl)phthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-octylphthalate	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzo(a,h)anthracene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,3,4,6-Tetrachlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

U - Compound not detected at the limit shown
J - Estimated concentration

Table 14, Page 1 of 6
Pesticides/Aroclors - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S01	BM-S02	BM-S03	BM-S04	BM-S05	BM-S06
EPA Sample No.	B5685	B5686	B5687	B5688	B5689	B5690
Date:	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008
Compound (µg/kg)						
alpha-BHC	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
beta-BHC	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
delta-BHC	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
gamma-BHC (Lindane)	1.9 U	2.0 U	1.9 UJ	1.9 U	2.0 U	1.9 U
Heptachlor	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Aldrin	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Heptachlor epoxide	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Endosulfan I	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Dieldrin	3.7 U	3.9 U	3.6 U	3.6 U	3.9 U	3.6 U
4,4'-DDE	- R	- R	- R	- R	- R	- R
Endrin	3.7 U	3.9 U	3.6 U	3.6 U	3.9 U	3.6 U
Endosulfan II	3.7 U	3.9 U	3.6 U	3.6 U	3.9 U	3.6 U
4,4'-DDD	3.7 U	3.9 U	3.6 U	3.6 U	3.9 U	3.6 U
Endosulfan sulfate	3.7 U	3.9 U	3.6 U	3.6 U	3.9 U	3.6 U
4,4'-DDT	3.7 U	3.9 U	3.6 U	3.3 J	3.9 U	3.6 U
Methoxychlor	19 UJ	20 UJ	19 UJ	19 UJ	20 UJ	19 UJ
Endrin ketone	3.7 U	3.9 U	3.6 U	3.6 U	3.9 U	3.6 U
Endrin aldehyde	3.7 U	3.9 U	2.8 J	2.5 J	3.9 U	3.6 U
alpha-Chlordane	1.9 U	2.0 U	1.9 U	1.8 J	2.0 U	1.9 U
gamma-Chlordane	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Toxaphene	190 U	200 U	190 U	190 U	200 U	190 U
Aroclor-1016	36 U	38 U	36 UJ	36 UJ	39 U	36 U
Aroclor-1221	36 U	38 U	36 UJ	36 UJ	39 U	36 U
Aroclor-1232	36 U	38 U	36 UJ	36 UJ	39 U	36 U
Aroclor-1242	36 U	38 U	36 UJ	36 UJ	39 U	36 U
Aroclor-1248	36 U	38 U	36 UJ	36 UJ	39 U	36 U
Aroclor-1254	36 U	38 U	36 UJ	36 UJ	39 U	36 U
Aroclor-1260	36 U	38 U	36 UJ	36 UJ	39 U	36 U
Aroclor-1262	36 U	38 U	36 UJ	36 UJ	39 U	36 U
Aroclor-1268	36 U	38 U	36 UJ	36 UJ	39 U	36 U

U - Compound not detected

R - Result rejected as unusable

J - Estimated concentration

UJ - Not quantifiable above CRQL, or QA/QC requirements not met

JN - Presumptive evidence for presence of compound at an estimated value

Table 14, Page 2 of 6
Pesticides/Aroclors - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S07	BM-S08	BM-S09	BM-S10	BM-S11	BM-S12
EPA Sample No.	B5691	B5692	B5693	B5694	B5695	B5696
Date:	11/18/2008	11/18/2008	11/17/2008	11/18/2008	11/17/2008	11/20/2008
Compound (µg/kg)						
alpha-BHC	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2.0 U
beta-BHC	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2.0 U
delta-BHC	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2.0 U
gamma-BHC (Lindane)	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2.0 U
Heptachlor	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2.0 U
Aldrin	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2.0 U
Heptachlor epoxide	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2.0 U
Endosulfan I	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2.0 U
Dieldrin	3.5 U	4.1 U	3.6 U	3.7 U	3.6 U	3.8 U
4,4'-DDE	3.5 U	4.1 U	- R	3.7 U	- R	3.8 U
Endrin	3.5 UJ	4.1 UJ	3.6 U	3.7 UJ	3.6 U	3.8 U
Endosulfan II	3.5 U	4.1 U	3.6 U	3.7 U	3.6 U	3.8 U
4,4'-DDD	3.5 U	4.1 U	3.6 U	3.7 U	3.6 U	3.8 U
Endosulfan sulfate	3.5 U	4.1 U	3.6 U	3.7 U	3.6 U	3.8 U
4,4'-DDT	3.5 U	4.1 U	3.6 U	3.7 U	3.6 U	3.8 U
Methoxychlor	18 U	21 U	19 UJ	19 U	19 UJ	20 U
Endrin ketone	3.5 U	4.1 U	3.6 U	3.7 U	3.6 U	3.8 U
Endrin aldehyde	3.5 U	4.1 U	3.6 U	3.7 U	3.6 U	3.8 U
alpha-Chlordane	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2.0 U
gamma-Chlordane	1.8 U	2.1 U	1.9 U	1.9 U	1.9 U	2.0 U
Toxaphene	180 U	210 U	190 U	190 U	190 U	200 U
Aroclor-1016	36 UJ	41 U	36 U	37 U	36 U	37 U
Aroclor-1221	36 UJ	41 U	36 U	37 U	36 U	37 U
Aroclor-1232	36 UJ	41 U	36 U	37 U	36 U	37 U
Aroclor-1242	36 UJ	41 U	36 U	37 U	36 U	37 U
Aroclor-1248	36 UJ	41 U	36 U	37 U	36 U	37 U
Aroclor-1254	36 UJ	41 U	36 U	37 U	36 U	37 U
Aroclor-1260	36 UJ	41 U	36 U	37 U	36 U	37 U
Aroclor-1262	36 UJ	41 U	36 U	37 U	36 U	37 U
Aroclor-1268	36 UJ	41 U	36 U	37 U	36 U	37 U

U - Compound not detected

R - Result rejected as unusable

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UJ - Not quantifiable above CRQL, or QA/QC requirements not met

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Table 14, Page 3 of 6
Pesticides/Aroclors - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S13	BM-S14	BM-S15	BM-S16	BM-S17	BM-S18
EPA Sample No.	B5697	B5698	B5699	B56A0	B56A1	B56A2
Date:	11/20/2008	11/20/2008	11/19/2008	11/20/2008	11/20/2008	11/19/2008
Compound (µg/kg)						
alpha-BHC	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U
beta-BHC	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U
delta-BHC	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U
gamma-BHC (Lindane)	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U
Heptachlor	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U
Aldrin	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U
Heptachlor epoxide	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U
Endosulfan I	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U
Dieldrin	3.5 U	3.9 U	3.6 U	3.5 U	4.0 U	3.5 U
4,4'-DDE	3.5 U	1.4 JN	3.6 U	- R	- R	3.5 U
Endrin	3.5 U	3.9 U	3.6 UJ	3.5 U	4.0 U	3.5 UJ
Endosulfan II	3.5 U	3.9 U	3.6 U	3.5 U	4.0 U	3.5 U
4,4'-DDD	3.5 U	3.9 U	3.6 U	3.5 U	4.0 U	3.5 U
Endosulfan sulfate	3.5 U	3.9 U	3.6 U	3.5 U	4.0 U	3.5 U
4,4'-DDT	3.5 U	2.4 J	3.6 U	3.5 U	4.0 U	3.5 U
Methoxychlor	18 U	20 U	19 U	18 U	20 U	18 U
Endrin ketone	3.5 U	3.9 U	3.6 U	3.5 U	4.0 U	3.5 U
Endrin aldehyde	3.5 U	3.0 J	3.6 U	3.5 U	4.0 U	3.5 U
alpha-Chlordane	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U
gamma-Chlordane	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U
Toxaphene	180 U	200 U	190 U	180 U	200 U	180 U
Aroclor-1016	35 U	38 U	36 U	34 U	39 U	35 U
Aroclor-1221	35 U	38 U	36 U	34 U	39 U	35 U
Aroclor-1232	35 U	38 U	36 U	34 U	39 U	35 U
Aroclor-1242	35 U	38 U	36 U	34 U	39 U	35 U
Aroclor-1248	35 U	38 U	36 U	34 U	39 U	35 U
Aroclor-1254	35 U	21 J	36 U	34 U	39 U	35 U
Aroclor-1260	35 U	38 U	36 U	34 U	39 U	35 U
Aroclor-1262	35 U	38 U	36 U	34 U	39 U	35 U
Aroclor-1268	35 U	38 U	36 U	34 U	39 U	35 U

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Table 14, Page 4 of 6
Pesticides/Aroclors - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S19	BM-S20	BM-S21	BM-S31	BM-S22	BM-S23
EPA Sample No.	B56A3	B56A4	B56A5	B56B5	B56A6	B56A7
Date:	11/19/2008	11/18/2008	11/18/2008	11/18/2008	11/19/2008	11/19/2008
Compound (µg/kg)				Dup. (S21)		
alpha-BHC	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 U
beta-BHC	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 U
delta-BHC	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 U
gamma-BHC (Lindane)	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 UJ
Heptachlor	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 U
Aldrin	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 U
Heptachlor epoxide	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 U
Endosulfan I	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 U
Dieldrin	3.5 U	3.6 U	3.6 U	3.6 U	3.5 UJ	3.5 U
4,4'-DDE	3.5 U	3.6 U	3.6 U	3.6 U	3.5 UJ	3.5 U
Endrin	3.5 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.5 UJ	3.5 U
Endosulfan II	3.5 U	3.6 U	3.6 U	3.6 U	3.5 UJ	3.5 U
4,4'-DDD	3.5 U	3.6 U	3.6 U	3.6 U	3.5 UJ	3.5 U
Endosulfan sulfate	3.5 U	3.6 U	3.6 U	3.6 U	3.5 UJ	3.5 U
4,4'-DDT	3.5 U	3.6 U	3.6 U	3.6 U	3.5 UJ	3.5 U
Methoxychlor	18 U	18 U	18 U	18 U	18 UJ	18 U
Endrin ketone	3.5 U	3.6 U	3.6 U	3.6 U	3.5 UJ	3.5 U
Endrin aldehyde	3.5 U	3.6 U	3.6 U	3.6 U	3.5 UJ	3.5 U
alpha-Chlordane	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 U
gamma-Chlordane	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 U
Toxaphene	180 U	180 U	180 U	180 U	180 UJ	180 U
Aroclor-1016	35 U	35 U	35 U	36 U	35 U	35 U
Aroclor-1221	35 U	35 U	35 U	36 U	35 U	35 U
Aroclor-1232	35 U	35 U	35 U	36 U	35 U	35 U
Aroclor-1242	35 U	35 U	35 U	36 U	35 U	35 U
Aroclor-1248	35 U	35 U	35 U	36 U	35 U	35 U
Aroclor-1254	35 U	35 U	35 U	31 J	35 U	35 U
Aroclor-1260	35 U	35 U	35 U	36 U	35 U	35 U
Aroclor-1262	35 U	35 U	35 U	36 U	35 U	35 U
Aroclor-1268	35 U	35 U	35 U	36 U	35 U	35 U

U - Compound not detected

R - Result rejected as unusable

J - Estimated concentration

UJ - Not quantifiable above CRQL, or QA/QC requirements not met

JN - Presumptive evidence for presence of compound at an estimated value

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Pesticides/Aroclors - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S24	BM-S25	BM-S26	BM-S27	BM-S28	BM-S29
EPA Sample No.	B56A8	B56A9	B56B0	B56B1	B56B2	B56B3
Date:	11/19/2008	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/19/2008
Compound (µg/kg)						
alpha-BHC	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U
beta-BHC	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U
delta-BHC	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U
gamma-BHC (Lindane)	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U
Heptachlor	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U
Aldrin	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U
Heptachlor epoxide	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U
Endosulfan I	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U
Dieldrin	3.6 U	3.5 U	3.6 U	3.9 U	3.5 U	3.6 U
4,4'-DDE	3.6 U	3.5 U	3.6 U	3.9 U	3.5 U	3.6 U
Endrin	3.6 U	3.5 U	3.6 U	3.9 UJ	3.5 UJ	3.6 U
Endosulfan II	3.6 U	3.5 U	3.6 U	3.9 U	3.5 U	3.6 U
4,4'-DDD	3.6 U	3.5 U	3.6 U	3.9 U	3.5 U	3.6 U
Endosulfan sulfate	3.6 U	3.5 U	3.6 U	3.9 U	3.5 U	3.6 U
4,4'-DDT	3.6 U	3.5 U	3.6 U	3.9 U	3.5 U	3.6 U
Methoxychlor	18 U	18 U	19 U	20 U	18 U	19 U
Endrin ketone	3.6 U	3.5 U	3.6 U	3.9 U	3.5 U	3.6 U
Endrin aldehyde	3.6 U	3.5 U	3.6 U	3.9 U	3.5 U	3.6 U
alpha-Chlordane	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U
gamma-Chlordane	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U
Toxaphene	180 U	180 U	190 U	200 U	180 U	190 U
Aroclor-1016	35 U	36 U	36 U	39 U	36 U	35 U
Aroclor-1221	35 U	36 U	36 U	39 U	36 U	35 U
Aroclor-1232	35 U	36 U	36 U	39 U	36 U	35 U
Aroclor-1242	35 U	36 U	36 U	39 U	36 U	35 U
Aroclor-1248	35 U	36 U	36 U	39 U	36 U	35 U
Aroclor-1254	35 U	36 U	36 U	39 U	36 U	35 U
Aroclor-1260	35 U	36 U	36 U	39 U	36 U	35 U
Aroclor-1262	35 U	36 U	36 U	39 U	36 U	35 U
Aroclor-1268	35 U	36 U	36 U	39 U	36 U	35 U

U - Compound not detected

R - Result rejected as unusable

J - Estimated concentration

UJ - Not quantifiable above CRQL, or QA/QC requirements not met

JN - Presumptive evidence for presence of compound at an estimated value

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Pesticides/Aroclors - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S30	BM-S32	BM-S33
EPA Sample No.	B56B4	B56Q3	B56Q5
Date:	11/19/2008	11/20/2008	11/20/2008
Compound (µg/kg)			
alpha-BHC	2.0 U	1.9 U	2.1 U
beta-BHC	2.0 U	1.9 U	2.1 U
delta-BHC	2.0 U	1.9 U	2.1 U
gamma-BHC (Lindane)	2.0 U	1.9 U	2.1 U
Heptachlor	2.0 U	1.9 U	2.1 U
Aldrin	2.0 U	1.9 U	2.1 U
Heptachlor epoxide	2.0 U	1.9 U	2.1 U
Endosulfan I	2.0 U	1.9 U	2.1 U
Dieldrin	3.9 U	3.6 U	4.0 U
4,4'-DDE	3.9 U	- R	- R
Endrin	3.9 U	3.6 U	4.0 U
Endosulfan II	3.9 U	3.6 U	4.0 U
4,4'-DDD	3.9 U	3.6 U	4.0 U
Endosulfan sulfate	3.9 U	3.6 U	4.0 U
4,4'-DDT	3.9 U	3.6 U	4.0 U
Methoxychlor	20 U	19 U	21 U
Endrin ketone	3.9 U	3.6 U	4.0 U
Endrin aldehyde	3.9 U	3.6 U	4.0 U
alpha-Chlordane	2.0 U	1.9 U	2.1 U
gamma-Chlordane	2.0 U	1.9 U	2.1 U
Toxaphene	200 U	190 U	210 U
Aroclor-1016	39 U	37 U	40 U
Aroclor-1221	39 U	37 U	40 U
Aroclor-1232	39 U	37 U	40 U
Aroclor-1242	39 U	37 U	40 U
Aroclor-1248	39 U	37 U	40 U
Aroclor-1254	39 U	37 U	40 U
Aroclor-1260	39 U	37 U	40 U
Aroclor-1262	39 U	37 U	40 U
Aroclor-1268	39 U	37 U	40 U

U - Compound not detected

R - Result rejected as unusable

J - Estimated concentration

UJ - Not quantifiable above CRQL, or QA/QC requirements not met

JN - Presumptive evidence for presence of compound at an estimated value

Table 15, Page 1 of 6
Pesticides/Aroclors - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS01	BM-SS02	BM-SS03	BM-SS04	BM-SS05	BM-SS06
EPA Sample No.	B56B6	B56B7	B56B8	B56B9	B56C0	B56C1
Date:	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008
Compound (µg/kg)						
alpha-BHC	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U	2.1 U
beta-BHC	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U	2.1 U
delta-BHC	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U	2.1 U
gamma-BHC (Lindane)	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U	2.1 U
Heptachlor	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U	2.1 U
Aldrin	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U	2.1 U
Heptachlor epoxide	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U	2.1 U
Endosulfan I	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U	2.1 U
Dieldrin	3.7 U	3.7 U	3.7 U	3.6 U	4.0 U	4.2 U
4,4'-DDE	- R	- R	3.7 U	- R	- R	- R
Endrin	3.7 U	3.7 U	3.7 UJ	3.6 U	4.0 U	4.2 U
Endosulfan II	3.7 U	3.7 U	3.7 U	3.6 U	4.0 U	4.2 U
4,4'-DDD	3.7 U	3.7 U	3.7 U	3.6 U	4.0 U	4.2 U
Endosulfan sulfate	3.7 U	3.7 U	3.7 U	3.6 U	4.0 U	4.2 U
4,4'-DDT	3.7 U	3.7 U	3.7 U	3.6 U	2.7 J	4.2 U
Methoxychlor	19 UJ	19 UJ	19 U	18 UJ	21 UJ	21 UJ
Endrin ketone	3.7 U	3.7 U	3.7 U	3.6 U	4.0 U	4.2 U
Endrin aldehyde	3.7 U	3.7 U	3.7 U	3.6 U	4.0 U	4.2 U
alpha-Chlordane	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U	2.1 U
gamma-Chlordane	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U	2.1 U
Toxaphene	190 U	190 U	190 U	180 U	210 U	210 U
Aroclor-1016	36 U	36 U	37 U	36 U	40 U	40 U
Aroclor-1221	36 U	36 U	37 U	36 U	40 U	40 U
Aroclor-1232	36 U	36 U	37 U	36 U	40 U	40 U
Aroclor-1242	36 U	36 U	37 U	36 U	40 U	40 U
Aroclor-1248	36 U	36 U	37 U	36 U	40 U	40 U
Aroclor-1254	36 U	36 U	37 U	36 U	40 UJ	40 U
Aroclor-1260	36 U	36 U	37 U	36 U	40 U	40 U
Aroclor-1262	36 U	36 U	37 U	36 U	40 U	40 U
Aroclor-1268	36 U	36 U	37 U	36 U	40 U	40 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 15, Page 2 of 6
Pesticides/Aroclors - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS07	BM-SS08	BM-SS09	BM-SS10	BM-SS11	BM-SS12
EPA Sample No.	B56C2	B56C3	B56C4	B56C5	B56C6	B56C7
Date:	11/18/2008	11/18/2008	11/17/2008	11/18/2008	11/17/2008	11/20/2008
Compound (µg/kg)						
alpha-BHC	2.0 U	2.0 U	2.0 UJ	2.0 U	1.9 U	2.1 U
beta-BHC	2.0 U	2.0 U	2.0 UJ	2.0 U	1.9 U	2.1 U
delta-BHC	2.0 U	2.0 U	2.0 UJ	2.0 U	1.9 U	2.1 U
gamma-BHC (Lindane)	2.0 U	2.0 U	2.0 UJ	2.0 U	1.9 U	2.1 U
Heptachlor	2.0 U	2.0 U	2.0 UJ	2.0 U	1.9 U	2.1 U
Aldrin	2.0 U	2.0 U	2.0 UJ	2.0 U	1.9 U	2.1 U
Heptachlor epoxide	2.0 U	2.0 U	2.0 UJ	2.0 U	1.9 U	2.1 U
Endosulfan I	2.0 U	2.0 U	2.0 UJ	2.0 U	1.9 U	2.1 U
Dieldrin	3.9 U	3.8 U	3.9 UJ	3.9 U	3.7 U	4 U
4,4'-DDE	3.9 U	3.8 U	- R	3.9 U	- R	- R
Endrin	3.9 UJ	3.8 UJ	3.9 UJ	3.9 UJ	3.7 U	4 U
Endosulfan II	3.9 U	3.8 U	3.9 UJ	3.9 U	3.7 U	4 U
4,4'-DDD	3.9 U	3.8 U	3.9 UJ	3.9 U	3.7 U	4 U
Endosulfan sulfate	3.9 U	3.8 U	3.9 UJ	3.9 U	3.7 U	4 U
4,4'-DDT	3.9 U	3.8 U	3.9 UJ	3.9 U	3.7 U	4 U
Methoxychlor	20 U	20 U	20 UJ	20 U	19 UJ	21 U
Endrin ketone	3.9 U	3.8 U	3.9 UJ	3.9 U	3.7 U	4 U
Endrin aldehyde	3.9 U	3.8 U	3.9 UJ	3.9 U	3.7 U	4 U
alpha-Chlordane	2.0 U	2.0 U	2.0 UJ	2.0 U	1.9 U	2.1 U
gamma-Chlordane	2.0 U	2.0 U	2.0 UJ	2.0 U	1.9 U	2.1 U
Toxaphene	200 U	200 U	200 UJ	200 U	190 U	210 U
Aroclor-1016	39 U	37 UJ	39 U	38 U	38 U	40 U
Aroclor-1221	39 U	37 UJ	39 U	38 U	38 U	40 U
Aroclor-1232	39 U	37 UJ	39 U	38 U	38 U	40 U
Aroclor-1242	39 U	37 UJ	39 U	38 U	38 U	40 U
Aroclor-1248	39 U	37 UJ	39 U	38 U	38 U	40 U
Aroclor-1254	39 U	37 UJ	39 U	38 U	38 U	40 U
Aroclor-1260	39 U	37 UJ	39 U	38 U	38 U	40 U
Aroclor-1262	39 U	37 UJ	39 U	38 U	38 U	40 U
Aroclor-1268	39 U	37 UJ	39 U	38 U	38 U	40 U

U - Compound not detected at the limit shown

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Table 15, Page 3 of 6
Pesticides/Aroclors - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS13	BM-SS15	BM-SS16	BM-SS17	BM-SS18	BM-SS19
EPA Sample No.	B56C8	B56D0	B56D1	B56D2	B56D3	B56D4
Date:	11/20/2008	11/19/2008	11/20/2008	11/20/2008	11/19/2008	11/19/2008
Compound (µg/kg)						
alpha-BHC	1.9 U	1.9 U	1.9 U	2.3 U	1.9 U	2.0 U
beta-BHC	1.9 U	1.9 U	1.9 U	2.3 U	1.9 U	2.0 U
delta-BHC	1.9 U	1.9 U	1.9 U	2.3 U	1.9 U	2.0 U
gamma-BHC (Lindane)	1.9 U	1.9 U	1.9 U	2.3 U	1.9 U	2.0 U
Heptachlor	1.9 U	1.9 U	1.9 U	2.3 U	1.9 U	2.0 U
Aldrin	1.9 U	1.9 U	1.9 U	2.3 U	1.9 U	2.0 U
Heptachlor epoxide	1.9 U	1.9 U	1.9 U	2.3 U	1.9 U	2.0 U
Endosulfan I	1.9 U	1.9 U	1.9 U	2.3 U	1.9 U	2.0 U
Dieldrin	3.6 U	3.8 U	3.7 U	4.4 U	3.6 U	3.9 U
4,4'-DDE	- R	3.8 U	- R	- R	3.6 U	3.9 U
Endrin	3.6 U	3.8 U	3.7 U	4.4 U	3.6 U	3.9 U
Endosulfan II	3.6 U	3.8 U	3.7 U	4.4 U	3.6 U	3.9 U
4,4'-DDD	3.6 U	3.8 U	3.7 U	4.4 U	3.6 U	3.9 U
Endosulfan sulfate	3.6 U	3.8 U	3.7 U	4.4 U	3.6 U	3.9 U
4,4'-DDT	3.6 U	3.8 U	3.7 U	4.4 U	3.6 U	3.9 U
Methoxychlor	19 U	19 U	19 U	23 U	19 U	20 U
Endrin ketone	3.6 U	3.8 U	3.7 U	4.4 U	3.6 U	3.9 U
Endrin aldehyde	3.6 U	3.8 U	3.7 U	4.4 U	3.6 U	3.9 U
alpha-Chlordane	1.9 U	1.9 U	1.9 U	2.3 U	1.9 U	2.0 U
gamma-Chlordane	1.9 U	1.9 U	1.9 U	2.3 U	1.9 U	2.0 U
Toxaphene	190 U	190 U	190 U	230 U	190 U	200 U
Aroclor-1016	36 U	38 U	37 U	44 U	36 U	38 U
Aroclor-1221	36 U	38 U	37 U	44 U	36 U	38 U
Aroclor-1232	36 U	38 U	37 U	44 U	36 U	38 U
Aroclor-1242	36 U	38 U	37 U	44 U	36 U	38 U
Aroclor-1248	36 U	38 U	37 U	44 U	36 U	38 U
Aroclor-1254	36 U	38 U	37 U	44 U	36 U	38 U
Aroclor-1260	36 U	38 U	37 U	44 U	36 U	38 U
Aroclor-1262	36 U	38 U	37 U	44 U	36 U	38 U
Aroclor-1268	36 U	38 U	37 U	44 U	36 U	38 U

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Table 15, Page 4 of 6
Pesticides/Aroclors - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS20	BM-SS21	BM-SS31	BM-SS22	BM-SS32	BM-SS23
EPA Sample No.	B56D5	B56D6	B56E6	B56D7	B56E7	B56D8
Date:	11/18/2008	11/18/2008	11/18/2008	11/19/2008	11/19/2008	11/19/2008
Compound (µg/kg)			Dup. (SS21)		Dup. (SS22)	
alpha-BHC	1.9 U	1.8 U	1.8 U	1.9 UJ	1.8 U	2.0 U
beta-BHC	1.9 U	1.8 U	1.8 U	1.9 UJ	1.8 U	2.0 U
delta-BHC	1.9 U	1.8 U	1.8 U	1.9 UJ	1.8 U	2.0 U
gamma-BHC (Lindane)	1.9 U	1.8 U	1.8 U	1.9 UJ	1.8 U	2.0 U
Heptachlor	1.9 U	1.8 U	1.8 U	1.9 UJ	1.8 U	2.0 U
Aldrin	1.9 U	1.8 U	1.8 U	1.9 UJ	1.8 U	2.0 U
Heptachlor epoxide	1.9 U	1.8 U	1.8 U	1.9 UJ	1.8 U	2.0 U
Endosulfan I	1.9 U	1.8 U	1.8 U	1.9 UJ	1.8 U	2.0 U
Dieldrin	3.8 U	3.5 U	3.5 U	3.6 UJ	3.6 U	3.9 U
4,4'-DDE	3.8 U	3.5 U	3.5 U	3.6 UJ	3.6 U	- R
Endrin	3.8 UJ	3.5 UJ	3.5 UJ	3.6 UJ	3.6 U	3.9 U
Endosulfan II	3.8 U	3.5 U	3.5 U	3.6 UJ	3.6 U	3.9 U
4,4'-DDD	3.8 U	3.5 U	3.5 U	3.6 UJ	3.6 U	3.9 U
Endosulfan sulfate	3.8 U	3.5 U	3.5 U	3.6 UJ	3.6 U	3.9 U
4,4'-DDT	3.8 U	3.5 U	3.5 U	3.6 UJ	3.6 U	3.9 U
Methoxychlor	19 U	18 U	18 U	19 UJ	18 U	20 U
Endrin ketone	3.8 U	3.5 U	3.5 U	3.6 UJ	3.6 U	3.9 U
Endrin aldehyde	3.8 U	3.5 U	3.5 U	3.6 UJ	3.6 U	3.9 U
alpha-Chlordane	1.9 U	1.8 U	1.8 U	1.9 UJ	1.8 U	2.0 U
gamma-Chlordane	1.9 U	1.8 U	1.8 U	1.9 UJ	1.8 U	1.2 J
Toxaphene	190 U	180 U	180 U	190 UJ	180 U	200 U
Aroclor-1016	38 U	35 U	35 U	36 U	36 U	39 U
Aroclor-1221	38 U	35 U	35 U	36 U	36 U	39 U
Aroclor-1232	38 U	35 U	35 U	36 U	36 U	39 U
Aroclor-1242	38 U	35 U	35 U	36 U	36 U	39 U
Aroclor-1248	38 U	35 U	35 U	36 U	36 U	39 U
Aroclor-1254	38 U	42	35 U	36 U	36 U	39 U
Aroclor-1260	38 U	35 U	35 U	36 U	36 U	39 U
Aroclor-1262	38 U	35 U	35 U	36 U	36 U	39 U
Aroclor-1268	38 U	35 U	35 U	36 U	36 U	39 U

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Table 15, Page 5 of 6
Pesticides/Aroclors - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS24	BM-SS25	BM-SS26	BM-SS27	BM-SS28	BM-SS29
EPA Sample No.	B56D9	B56E0	B56E1	B56E2	B56E3	B56E4
Date:	11/19/2008	11/19/2008	11/19/2008	11/18/2008	11/18/2008	11/19/2008
Compound (µg/kg)						
alpha-BHC	2.2 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
beta-BHC	2.2 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
delta-BHC	2.2 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
gamma-BHC (Lindane)	2.2 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Heptachlor	2.2 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Aldrin	2.2 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Heptachlor epoxide	2.2 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Endosulfan I	2.2 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Dieldrin	4.2 U	3.6 U	3.8 U	3.9 U	3.9 U	3.9 U
4,4'-DDE	4.2 U	3.6 U	3.8 U	3.9 U	3.9 U	3.9 U
Endrin	4.2 U	3.6 U	3.8 U	3.9 UJ	3.9 UJ	3.9 U
Endosulfan II	4.2 U	3.6 U	3.8 U	3.9 U	3.9 U	3.9 U
4,4'-DDD	4.2 U	3.6 U	3.8 U	3.9 U	3.9 U	3.9 U
Endosulfan sulfate	4.2 U	3.6 U	3.8 U	3.9 U	3.9 U	3.9 U
4,4'-DDT	4.2 U	3.6 U	3.8 U	3.9 U	3.9 U	3.9 U
Methoxychlor	22 U	18 U	20 U	20 U	20 U	20 U
Endrin ketone	4.2 U	3.6 U	3.8 U	3.9 U	3.9 U	3.9 U
Endrin aldehyde	4.2 U	3.6 U	3.8 U	3.9 U	3.9 U	3.9 U
alpha-Chlordane	2.2 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
gamma-Chlordane	2.2 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Toxaphene	220 U	180 U	200 U	200 U	200 U	200 U
Aroclor-1016	41 U	35 U	38 U	39 U	39 U	39 U
Aroclor-1221	41 U	35 U	38 U	39 U	39 U	39 U
Aroclor-1232	41 U	35 U	38 U	39 U	39 U	39 U
Aroclor-1242	41 U	35 U	38 U	39 U	39 U	39 U
Aroclor-1248	41 U	35 U	38 U	39 U	39 U	39 U
Aroclor-1254	41 U	35 U	38 U	22 J	24 J	39 U
Aroclor-1260	41 U	35 U	38 U	39 U	39 U	39 U
Aroclor-1262	41 U	35 U	38 U	39 U	39 U	39 U
Aroclor-1268	41 U	35 U	38 U	39 U	39 U	39 U

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Pesticides/Aroclors - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS30	BM-SS32	BM-SS33
EPA Sample No.	B56E5	B56Q4	B56Q6
Date:	11/19/2008	11/20/2008	11/20/2008
Compound (µg/kg)			
alpha-BHC	1.9 U	2.1 U	1.9 U
beta-BHC	1.9 U	2.1 U	1.9 U
delta-BHC	1.9 U	2.1 U	1.9 U
gamma-BHC (Lindane)	1.9 U	2.1 U	1.9 U
Heptachlor	1.9 U	2.1 U	1.9 U
Aldrin	1.9 U	2.1 U	1.9 U
Heptachlor epoxide	1.9 U	2.1 U	1.9 U
Endosulfan I	1.9 U	2.1 U	1.9 U
Dieldrin	3.7 U	4 U	3.7 U
4,4'-DDE	3.7 U	- R	- R
Endrin	3.7 U	4 U	3.7 U
Endosulfan II	3.7 U	4 U	3.7 U
4,4'-DDD	3.7 U	4 U	3.7 U
Endosulfan sulfate	3.7 U	4 U	3.7 U
4,4'-DDT	3.7 U	4 U	3.7 U
Methoxychlor	19 U	21 U	19 U
Endrin ketone	3.7 U	4 U	3.7 U
Endrin aldehyde	3.7 U	4 U	3.7 U
alpha-Chlordane	1.9 U	2.1 U	1.9 U
gamma-Chlordane	1.9 U	2.1 U	1.9 U
Toxaphene	190 U	210 U	190 U
Aroclor-1016	36 U	40 U	36 U
Aroclor-1221	36 U	40 U	36 U
Aroclor-1232	36 U	40 U	36 U
Aroclor-1242	36 U	40 U	36 U
Aroclor-1248	36 U	40 U	36 U
Aroclor-1254	36 U	40 U	36 U
Aroclor-1260	36 U	40 U	36 U
Aroclor-1262	36 U	40 U	36 U
Aroclor-1268	36 U	40 U	36 U

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Table 16, Page 1 of 3
Pesticides/Aroclors - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW01	BM-GW02	BM-GW03	BM-GW04	BM-GW05	BM-GW06
EPA Sample No.	B56E8	B56E9	B56F0	B56F1	B56F2	B56F3
Date:	12/2/2008	12/2/2008	12/2/2008	12/4/2008	12/4/2008	12/2/2008
Compound (µg/L)						
alpha-BHC	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	0.050 UJ	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U
Heptachlor	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II	0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor	0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Endrin ketone	0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde	0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
alpha-Chlordane	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Aroclor-1016	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1262	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1268	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U

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Table 16, Page 2 of 3
Pesticides/Aroclors - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW07	BM-GW13	BM-GW08	BM-GW09	BM-GW10	BM-GW11
EPA Sample No.	B56F4	B56G0	B56F5	B56F6	B56F7	B56F8
Date:	12/4/2008	12/4/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008
Compound (µg/L)		Dup. (GW07)				
alpha-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Endrin ketone	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
alpha-Chlordane	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Aroclor-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1262	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1268	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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Table 16, Page 3 of 3
Pesticides/Aroclors - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW12	BM-GW14	BM-DW01	BM-DW02	BM-DW03
EPA Sample No.	B56F9	B56G4	B56G1	B56G2	B56G3
Date:	12/4/2008	12/4/2008	12/2/2008	12/2/2008	11/19/2008
Compound (µg/L)				Dup. (DW01)	
alpha-BHC	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
beta-BHC	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
delta-BHC	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
gamma-BHC (Lindane)	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Heptachlor	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Aldrin	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Heptachlor epoxide	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan I	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Dieldrin	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U
Endrin	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U
Endosulfan II	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U
Endosulfan sulfate	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U
Methoxychlor	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
Endrin ketone	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U
Endrin aldehyde	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U
alpha-Chlordane	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
gamma-Chlordane	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Toxaphene	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
Aroclor-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1262	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1268	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

U - Compound not detected at the limit shown

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 17, Page 1 of 3
Pesticides/Aroclors - Sediment
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SD01	BM-SD02	BM-SD10	BM-SD03	BM-SD04
EPA Sample No.	B56G5	B56G6	B56H4	B56G7	B56G8
Date:	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/3/2008
Compound (µg/kg)			Dup. (SD02)		
alpha-BHC	3.4 U	4.0 U	4.2 U	3.4 U	3.1 U
beta-BHC	3.4 U	4.0 U	4.2 U	3.4 U	3.1 U
delta-BHC	3.4 U	4.0 U	4.2 U	3.4 U	3.1 U
gamma-BHC (Lindane)	3.4 U	4.0 U	4.2 U	3.4 U	3.1 U
Heptachlor	3.4 U	4.0 U	4.2 U	3.4 U	3.1 U
Aldrin	3.4 U	4.0 U	4.2 U	3.4 U	3.1 U
Heptachlor epoxide	3.4 U	4.0 U	4.2 U	3.4 U	3.1 U
Endosulfan I	3.4 U	4.0 U	4.2 U	3.4 U	3.1 U
Dieldrin	6.6 U	7.7 U	8.1 U	6.6 U	6 U
4,4'-DDE	6.6 U	7.7 U	8.1 U	6.6 U	6 U
Endrin	6.6 U	7.7 U	8.1 U	6.6 U	6 U
Endosulfan II	6.6 U	7.7 U	8.1 U	6.6 U	6 U
4,4'-DDD	6.6 U	7.7 U	8.1 U	6.6 U	6 U
Endosulfan sulfate	6.6 U	7.7 U	8.1 U	7.2	6 U
4,4'-DDT	6.6 U	7.7 U	8.1 U	6.6 U	6 U
Methoxychlor	34 U	40 U	42 U	34 U	31 U
Endrin ketone	6.6 U	7.7 U	8.1 U	6.6 U	6 U
Endrin aldehyde	6.6 U	7.7 U	8.1 U	6.6 U	6 U
alpha-Chlordane	3.4 U	4.0 U	4.2 U	3.4 U	3.1 U
gamma-Chlordane	3.4 U	4.0 U	4.2 U	3.4 U	3.1 U
Toxaphene	340 U	400 U	420 U	340 U	310 U
Aroclor-1016	66 U	78 U	82 U	67 U	61 U
Aroclor-1221	66 U	78 U	82 U	67 U	61 U
Aroclor-1232	66 U	78 U	82 U	67 U	61 U
Aroclor-1242	66 U	78 U	82 U	67 U	61 U
Aroclor-1248	54 J	78 U	82 U	67 U	61 U
Aroclor-1254	66 U	78 U	82 U	67 U	61 U
Aroclor-1260	66 U	78 U	82 U	67 U	61 U
Aroclor-1262	66 U	78 U	82 U	67 U	61 U
Aroclor-1268	66 U	78 U	82 U	67 U	61 U

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J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 17, Page 2 of 3
Pesticides/Aroclors - Sediment
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SD05	BM-SD06	BM-SD07	BM-SD08	BM-SD09
EPA Sample No.	B56G9	B56H0	B56H1	B56H2	B56H3
Date:	12/3/2008	12/4/2008	12/3/2008	12/3/2008	12/3/2008
Compound (µg/kg)					
alpha-BHC	4.2 U	2.9 U	2.7 U	2.4 U	2.8 U
beta-BHC	4.2 U	2.9 U	2.7 U	2.4 U	2.8 U
delta-BHC	4.2 U	2.9 U	2.7 U	2.4 U	2.8 U
gamma-BHC (Lindane)	4.2 U	2.9 U	2.7 U	2.4 U	2.8 U
Heptachlor	4.2 U	2.9 U	2.7 U	2.4 U	2.8 U
Aldrin	4.2 U	2.9 U	2.7 U	2.4 U	2.8 U
Heptachlor epoxide	4.2 U	2.9 U	2.7 U	2.4 U	2.8 U
Endosulfan I	4.2 U	2.9 U	2.7 U	2.4 U	2.8 U
Dieldrin	8.2 U	5.6 U	5.3 U	4.7 U	5.5 U
4,4'-DDE	8.2 U	5.6 U	5.3 U	4.7 U	5.5 U
Endrin	8.2 U	5.6 U	5.3 U	4.7 U	5.5 U
Endosulfan II	8.2 U	5.6 U	5.3 U	4.7 U	5.5 U
4,4'-DDD	8.2 U	5.6 U	5.3 U	4.7 U	5.5 U
Endosulfan sulfate	8.2 U	5.6 U	5.3 U	4.7 U	5.5 U
4,4'-DDT	8.2 U	5.6 U	5.3 U	4.7 U	5.5 U
Methoxychlor	42 U	29 U	27 U	24 U	28 U
Endrin ketone	8.2 U	5.6 U	5.3 U	4.7 U	5.5 U
Endrin aldehyde	8.2 U	5.6 U	5.3 U	4.7 U	5.5 U
alpha-Chlordane	4.2 U	2.9 U	2.7 U	2.4 U	2.8 U
gamma-Chlordane	4.2 U	2.9 U	2.7 U	2.4 U	2.8 U
Toxaphene	420 U	290 U	270 U	240 U	280 U
Aroclor-1016	82 U	56 U	54 U	47 U	55 U
Aroclor-1221	82 U	56 U	54 U	47 U	55 U
Aroclor-1232	82 U	56 U	54 U	47 U	55 U
Aroclor-1242	82 U	56 U	54 U	47 U	55 U
Aroclor-1248	82 U	56 U	54 U	47 U	55 U
Aroclor-1254	82 U	56 U	54 U	47 U	55 U
Aroclor-1260	82 U	56 U	54 U	47 U	55 U
Aroclor-1262	82 U	56 U	54 U	47 U	55 U
Aroclor-1268	82 U	56 U	54 U	47 U	55 U

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Table 17, Page 3 of 3
Pesticides/Aroclors - Sediment
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SD11	BM-SD12	BM-SD13	BM-SD14	BM-SD15
EPA Sample No.	B56H5	B56H6	B56H7	B56H8	B56H9
Date:	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008
Compound (µg/kg)					
alpha-BHC	2.6 U	3.4 U	2.5 U	2.6 U	3.9 U
beta-BHC	1.6 J	2.8 J	2.5 U	2.6 U	3.9 U
delta-BHC	2.6 U	3.4 U	2.5 U	2.6 U	3.9 U
gamma-BHC (Lindane)	2.6 U	3.4 U	2.5 U	2.6 U	3.9 U
Heptachlor	2.6 U	3.4 U	2.5 U	2.6 U	3.9 U
Aldrin	2.6 U	3.4 U	2.5 U	2.6 U	3.9 U
Heptachlor epoxide	2.6 U	3.4 U	2.5 U	2.6 U	3.9 U
Endosulfan I	2.6 U	3.4 U	2.5 U	2.6 U	3.9 U
Dieldrin	5.1 U	6.6 U	4.8 U	5 U	7.6 U
4,4'-DDE	- R	- R	4.8 UJ	- R	- R
Endrin	5.1 U	6.6 U	4.8 U	5 U	7.6 U
Endosulfan II	5.1 U	6.6 U	4.8 U	5 U	7.6 U
4,4'-DDD	5.1 U	6.6 U	- R	5 U	7.6 U
Endosulfan sulfate	5.1 U	6.6 U	4.8 U	- R	7.6 U
4,4'-DDT	5.1 U	7.4 J	21 J	- R	- R
Methoxychlor	26 UJ	34 UJ	25 UJ	47 J	39 UJ
Endrin ketone	5.1 U	6.6 U	23 J	5 UJ	7.1 J
Endrin aldehyde	5.1 U	6.6 U	- R	5 U	7.1 U
alpha-Chlordane	2.6 U	3.4 U	2.5 U	2.6 U	3.9 U
gamma-Chlordane	2.6 U	3.4 U	2.5 U	2.6 U	3.9 U
Toxaphene	260 U	340 U	250 U	260 U	390 U
Aroclor-1016	51 U	64 U	48 U	48 U	76 U
Aroclor-1221	51 U	64 U	48 U	48 U	76 U
Aroclor-1232	51 U	64 U	48 U	48 U	76 U
Aroclor-1242	51 U	64 U	48 U	48 U	76 U
Aroclor-1248	51 U	64 U	72	48 U	76 U
Aroclor-1254	29 J	38 J	64 J	48 U	76 U
Aroclor-1260	51 U	64 U	48 U	48 U	76 U
Aroclor-1262	51 U	64 U	48 U	48 U	76 U
Aroclor-1268	51 U	64 U	48 U	48 U	76 U

U - Compound not detected at the limit shown

R - Result rejected as unusable

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Table 18, Page 1 of 2
Pesticides/Aroclors - Surface Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SW01	BM-SW02	BM-SW10	BM-SW03	BM-SW04
EPA Sample No.	B56J0	B56J1	B56J9	B56J2	B56J3
Date:	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/3/2008
Compound (µg/L)			Dup. (SW02)		
alpha-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
Heptachlor	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Endrin ketone	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
alpha-Chlordane	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Aroclor-1016	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1262	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1268	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U

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Table 18, Page 2 of 2
Pesticides/Aroclors - Surface Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SW05	BM-SW06	BM-SW07	BM-SW08	BM-SW09
EPA Sample No.	B56J4	B56J5	B56J6	B56J7	B56J8
Date:	12/3/2008	12/4/2008	12/3/2008	12/3/2008	12/3/2008
Compound (µg/L)					
alpha-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Endrin ketone	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
alpha-Chlordane	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Aroclor-1016	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Aroclor-1221	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Aroclor-1232	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Aroclor-1242	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Aroclor-1248	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Aroclor-1254	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Aroclor-1260	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Aroclor-1262	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Aroclor-1268	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U

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Table 19, Page 1 of 4
Inorganic Parameters - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S01	BM-S02	BM-S03	BM-S04	BM-S05	BM-S06	BM-S07	BM-S08	BM-S09
EPA Sample No.	MB5685	MB5686	MB5687	MB5688	MB5689	MB5690	MB5691	MB5692	MB5693
Date:	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/18/2008	11/18/2008	11/17/2008
Metals (mg/kg)									
Cyanide	0.22 J	2.0 J	2.7 U	2.7 U	3.0 U	2.8 U	2.7 U	3.2 U	2.8 U
Antimony	1.7 UJ	1.8 UJ	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	1.6 UJ	1.9 UJ	1.7 UJ
Arsenic	6.8 J	6.1 J	9.3 J	9.2 J	5.3 J	8.1 J	7.5 J	5.5 J	5.4 J
Barium	40.3 J	44.4 J	43.7 J	38.4 J	48.3 J	49.0 J	35.7 J	51.9 J	43.6 J
Beryllium	0.39	0.43	0.43	0.45	0.43	0.42	0.45	0.42	0.41
Cadmium	0.20	0.12 U	0.15	0.22	0.18	0.18	0.11 U	0.26	0.20
Chromium	13.2 J	14.0 J	16.2 J	5,250 J	13.9 J	56.1 J	134	12.1	12.5 J
Cobalt	8.2 J	8.5 J	23.5 J	11.6 J	6.5 J	13.5 J	9.3 J	6.2 J	6.4 J
Copper	17.9 J	15.6 J	23.8 J	21.8 J	15.1 J	21.0 J	16.7 J	13.3 J	10.0 J
Lead	14.3 J	10.4 J	15.8 J	18.1 J	13.6 J	15.0 J	14.2	17.4	8.8 J
Manganese	546 J	397 J	475 J	548 J	464 J	584 J	518	461	522 J
Mercury	0.051	0.048	0.022 U	0.022 U	0.058	0.022 U	0.021 U	0.063 J	0.023 U
Nickel	21.3 J	19.2 J	25.3 J	28.6 J	16.3 J	24.5 J	22.0 J	14.7 J	15.4 J
Selenium	0.27 J	0.82 U	0.76 U	0.77 U	0.54 J	0.77 U	0.76 U	0.88 U	0.80 U
Silver	- R	- R	- R	- R	- R	0.22 UJ	0.21 U	0.25 U	0.23 UJ
Thallium	0.56 U	0.59 U	0.55 U	0.55 U	0.59 U	0.55 U	0.54 U	0.63 U	0.57 U
Vanadium	14.5 J	15.4 J	16.4 J	1.1 U	13.2 J	12.9 J	4.8	17.0	15.7 J
Zinc	66.6 J	56.7 J	74.0 J	85.8 J	61.3 J	72.6 J	61.0 J	57.2 J	46.0 J

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Table 19, Page 2 of 4
Inorganic Parameters - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S10	BM-S11	BM-S12	BM-S13	BM-S14	BM-S15	BM-S16	BM-S17	BM-S18
EPA Sample No.	MB5694	MB5695	MB5696	MB5697	MB5698	MB5699	MB56A0	MB56A1	MB56A2
Date:	11/18/2008	11/17/2008	11/20/2008	11/20/2008	11/20/2008	11/19/2008	11/20/2008	11/20/2008	11/19/2008
Metals (mg/kg)									
Cyanide	2.8 U	2.7 U	2.9 UJ	2.7 UJ	3.0 UJ	2.8 U	0.18 J	3.1 UJ	2.7 U
Antimony	1.7 UJ	1.6 UJ	1.7 UJ	1.6 UJ	1.8 UJ	1.7 U	1.6 UJ	1.9 UJ	1.6 U
Arsenic	6.3 J	7.5 J	4.9 J	7.4 J	5.0 J	8.6	5.6 J	3.5 J	3.9
Barium	50.7 J	37.7 J	44.1 J	42.7 J	15.2 J	49.1 J	22.3 J	47.3 J	22.2 J
Beryllium	0.42	0.43	0.31	0.33	0.26	0.46	0.26	0.36	0.20
Cadmium	0.22	0.11 U	0.14	0.12	0.12 U	0.23	0.11 U	0.19	0.11 U
Chromium	14.0	46.6 J	11.1	3,430	10,900	14.1	173	174	7.7
Cobalt	7.9 J	8.7 J	5.5 J	11.5 J	6.7 J	9.5	6.7 J	5.7 J	5.3
Copper	17.4 J	16.3 J	14.0 J	16.9 J	21.8 J	21.4 J	11.0 J	13.4 J	15.2 J
Lead	16.4	13.6 J	9.7 J	18.6 J	10.9 J	13.5	7.7 J	12.9 J	6.5
Manganese	448	572 J	672 J	399 J	236 J	486	333 J	280 J	321
Mercury	0.022 U	0.022 U	0.023 U	0.021 U	0.057	0.022 U	0.021 U	0.065	0.022 U
Nickel	20.6 J	22.4 J	13.9 J	19.3 J	25.0 J	24.2 J	17.1 J	14.1 J	12.0 J
Selenium	0.79 U	0.77 U	- R	0.75 U	- R	0.77 U	- R	- R	0.76 U
Silver	0.23 U	0.22 UJ	0.029 J	0.11 J	0.46	0.22 UJ	0.039 J	0.038 J	0.22 UJ
Thallium	0.57 U	0.55 U	0.58 U	0.54 U	0.60 U	0.55 UJ	0.53 U	0.63 U	0.54 UJ
Vanadium	14.0	10.8 J	11.0	1.1 U	1.2 U	14.1	10.3	2.0	7.4
Zinc	90.7 J	70.9 J	62.4 J	64.4 J	78.2 J	97.8 J	35.0 J	54.3 J	39.8 J

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Table 19, Page 3 of 4
Inorganic Parameters - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S19	BM-S20	BM-S21	BM-S31	BM-S22	BM-S23	BM-S24	BM-S25	BM-S26
EPA Sample No.	MB56A3	MB56A4	MB56A5	MB56B5	MB56A6	MB56A7	MB56A8	MB56A9	MB56B0
Date:	11/19/2008	11/18/2008	11/18/2008	11/18/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008
Metals (mg/kg)				Dup. (S21)					
Cyanide	2.6 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	0.18 J	0.27 J	2.7 U
Antimony	1.6 U	1.6 UJ	1.6 UJ	1.6 UJ	1.6 U	1.6 U	1.6 U	1.7 U	1.6 U
Arsenic	3.7	7.2 J	6.9 J	6.2 J	3.9	2.8	9.3	7.7	7.3
Barium	28.6 J	42.6 J	36.2 J	38.0 J	19.4 J	25.8 J	37.9 J	33.5 J	38.4 J
Beryllium	0.22	0.44	0.44	0.38	0.26	0.17	0.45	0.40	0.41
Cadmium	0.1 U	0.11 U	0.11 U	0.11 U	0.12	0.11 U	0.19	0.16	0.11 U
Chromium	9.9	601	485 J	736 J	15.5	187	16.8	14.3	13.4
Cobalt	6.3	9.9 J	8.5 J	8.1 J	5.6	4.4	10.7	9.6	7.8
Copper	13.3 J	20.6 J	15.5 J	16.8 J	24.0 J	8.0 J	22.2 J	19.1 J	15.2 J
Lead	8.5	12.2	12.9	11.0	7.8	5.4	16.0	14.2	11.8
Manganese	513	667	555	504	341	353	448	471	526
Mercury	0.021 U	0.021 U	0.021 U	0.021 U	0.022 U	0.021 U	0.021 U	0.022 U	0.022 U
Nickel	14.0 J	22.8 J	22.1 J	21.3 J	17.4 J	10.3 J	26.8 J	23.0 J	19.3 J
Selenium	0.73 U	0.77 U	0.76 U	0.76 U	0.77 U	0.74 U	0.74 U	0.77 U	0.77 U
Silver	0.21 UJ	0.22 U	0.22 U	0.28	0.22 UJ	0.27 J	0.21 UJ	0.22 UJ	0.22 UJ
Thallium	0.52 UJ	0.55 U	0.54 U	0.54 U	0.55 UJ	0.53 UJ	0.53 UJ	0.55 UJ	0.55 UJ
Vanadium	9.6	1.1 U	1.1 U	1.1 U	8.0	1.1 U	16.3	14.3	13.5
Zinc	46.5 J	62.0 J	63.6 J	55.9 J	70.3 J	24.3 J	81.8 J	82.2 J	59.2 J

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Table 19, Page 4 of 4
Inorganic Parameters - Surface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-S27	BM-S28	BM-S29	BM-S30	BM-S32	BM-S33
EPA Sample No.	MB56B1	MB56B2	MB56B3	MB56B4	MB56Q3	MB56Q5
Date:	11/18/2008	11/18/2008	11/19/2008	11/19/2008	11/20/2008	11/20/2008
Metals (mg/kg)						
Cyanide	0.23 J	2.7 U	2.9 U	2.9 U	2.8 UJ	2.8 UJ
Antimony	1.8 UJ	1.6 UJ	1.7 U	1.7 U	1.7 UJ	1.7 UJ
Arsenic	6.9 J	7.2 J	3.5	2.3	3.7 J	4.2 J
Barium	57.2 J	35.6 J	35.5 J	23.8 J	34.3 J	41.8 J
Beryllium	0.48	0.44 J	0.28	0.29	0.25	0.36
Cadmium	0.38	0.11 U	0.11 U	0.22	0.14	0.21
Chromium	18.9	14.5	35.2	138	9.0	10.6
Cobalt	8.1 J	8.8 J	5.2	6.0	4.8 J	5.4 J
Copper	29.7 J	15.2 J	11.2 J	19.4 J	10.6 J	10.7 J
Lead	32.0	12.2	8.1	9.2	9.7 J	12.3 J
Manganese	495	564	394	241	340 J	446 J
Mercury	0.054	0.021 U	0.023 U	0.023 U	0.023 U	0.051
Nickel	21.6 J	21.7 J	12.7 J	61.5 J	12.0 J	12.0 J
Selenium	0.83 U	0.77 U	0.80 U	0.80 U	- R	- R
Silver	0.24 U	0.22 U	0.23 UJ	0.23 UJ	0.23 U	0.22 U
Thallium	0.6 U	0.55 U	0.57 UJ	0.57 UJ	0.56 U	0.55 U
Vanadium	15.8	13.4	8.9	2.4 J	12.6	14.8
Zinc	199 J	61.0 J	42.3 J	66.0 J	42.3 J	47.8 J

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Table 20, Page 1 of 4
Inorganic Parameters - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS01	BM-SS02	BM-SS03	BM-SS04	BM-SS05	BM-SS06	BM-SS07	BM-SS08	BM-SS09
EPA Sample No.	MB56B6	MB56B7	MB56B8	MB56B9	MB56C0	MB56C1	MB56C2	MB56C3	MB56C4
Date:	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/18/2008	11/18/2008	11/17/2008
Metals (mg/kg)									
Cyanide	2.9 U	2.8 U	2.9 U	2.7 U	3.1 U	3.1 U	3.1 U	2.9 U	3.0 U
Antimony	1.8 UJ	1.7 UJ	1.7 UJ	1.6 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.7 UJ	1.8 UJ
Arsenic	8.4 J	4.5 J	1.1 J	3.2 J	6.0 J	4.4 J	8.7 J	6.9 J	7.2 J
Barium	63.4 J	23.9 J	23.5 J	20.9 J	51.7 J	41.0 J	53.6 J	40.3 J	125 J
Beryllium	0.40	0.23	0.27	0.15	0.40	0.46	0.70	0.55	0.48
Cadmium	0.22	0.10 U	0.11 U	0.11 U	0.27	0.15	0.33	0.21	0.38
Chromium	13.7 J	9.0 J	10.5 J	22.4 J	16.3 J	23.2 J	21.4	15.7	13.4 J
Cobalt	9.7 J	6.4 J	14.3 J	3.4 J	7.4 J	7.7 J	8.1 J	7.6 J	14.0 J
Copper	23.2 J	14.6 J	15.6 J	11.4 J	18.0 J	12.7 J	31.6 J	16.0 J	47.3 J
Lead	17.2 J	5.9 J	8.3 J	4.0 J	16.0 J	12.4 J	10.6	11.9	8.1 J
Manganese	941 J	417 J	169 J	447 J	298 J	255 J	700	852	1160 J
Mercury	0.024 U	0.022 U	0.023 U	0.022 U	0.086	0.025 U	0.025 U	0.023 U	0.071
Nickel	25.6 J	13.3 J	14.1 J	9.8 J	19.9 J	19.0 J	32.5 J	18.2 J	40.1 J
Selenium	0.32 J	0.78 U	0.29 J	0.76 U	0.64 J	0.87 U	0.96	0.81 U	0.85 U
Silver	- R	- R	- R	- R	- R	0.25 UJ	0.50 U	0.23 U	0.060 J
Thallium	0.59 U	0.55 U	0.57 U	0.54 U	0.63 U	0.62 U	0.63 U	0.58 U	0.60 U
Vanadium	14.6 J	9.4 J	12.2 J	6.8 J	14.3 J	15.7 J	21.1	14.9	14.5 J
Zinc	81.6 J	42.8 J	44.2 J	25.7 J	68.0 J	56.6 J	93.0 J	52.7 J	113 J

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Inorganic Parameters - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS10	BM-SS11	BM-SS12	BM-SS13	BM-SS15	BM-SS16	BM-SS17	BM-SS18	BM-SS19
EPA Sample No.	MB56C5	MB56C6	MB56C7	MB56C8	MB56D0	MB56D1	MB56D2	MB56D3	MB56D4
Date:	11/18/2008	11/17/2008	11/20/2008	11/20/2008	11/19/2008	11/20/2008	11/20/2008	11/19/2008	11/19/2008
Metals (mg/kg)									
Cyanide	3.0 U	2.9 U	3.2 UJ	2.8 UJ	2.8 U	2.8 UJ	3.4 UJ	2.7 U	3.0 U
Antimony	1.8 UJ	1.7 UJ	1.9 UJ	1.7 UJ	1.7 U	1.7 UJ	2.0 UJ	1.6 U	1.8 U
Arsenic	4.1 J	3.2 J	5.6 J	11.1 J	4.5	6.3 J	5.4 J	7.1	3.6
Barium	84.4 J	42.8 J	62.1 J	47.0 J	56.1 J	33.3 J	62.6 J	35.9 J	30.4 J
Beryllium	0.77	0.43	0.44	0.53	0.38	0.36	0.49	0.36	0.45
Cadmium	0.20 J	0.11 U	0.21	0.37	0.19	0.14	0.17	0.12	0.24 U
Chromium	18.7	14.2 J	13.1	348	10.3	13.2	22.2	12.9	13.8
Cobalt	8.8 J	6.5 J	6.6 J	12.5 J	7.4	8.4 J	6.5 J	8.5	6.2
Copper	18.7 J	12.7 J	13.3 J	22.9 J	18.1 J	16.6 J	11.4 J	18.0 J	10.3 J
Lead	10.5	11.4 J	14.8 J	17.9 J	6.7	10.7 J	12.1 J	12.3	8.7
Manganese	361	339 J	418 J	524 J	713	401 J	218 J	528	265
Mercury	0.070	0.023 U	0.074	0.022 U	0.023 U	0.022 U	0.027 U	0.022 U	0.024 U
Nickel	26.6 J	17.6 J	14.5 J	32.7 J	16.6 J	20.8 J	15.9 J	20.9 J	17.3 J
Selenium	0.84 U	0.8 U	- R	- R	0.79 U	- R	- R	0.77 U	0.83 U
Silver	0.48 U	0.23 UJ	0.25 U	0.22 U	0.26 J	0.22 U	0.27 U	0.22 UJ	0.48 UJ
Thallium	0.60 U	0.57 U	0.64 U	0.55 U	0.56 UJ	0.56 U	0.67 U	0.55 UJ	0.60 UJ
Vanadium	17.5	12.5 J	19.3	1.1 U	10.9	13.1	15.5	12.9	14.5
Zinc	68.1 J	62.4 J	57.8 J	105 J	77.4 J	59.8 J	54.3 J	64.1 J	72.6 J

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Inorganic Parameters - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS20	BM-SS21	BM-SS31	BM-SS22	BM-SS32	BM-SS23	BM-SS24	BM-SS25	BM-SS26
EPA Sample No.	MB56D5	MB56D6	MB56E6	MB56D7	MB56E7	MB56D8	MB56D9	MB56E0	MB56E1
Date:	11/18/2008	11/18/2008	11/18/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008
Metals (mg/kg)			Dup. (SS21)		Dup. (SS22)				
Cyanide	1.5 J	2.7 U	0.15 J	2.8 U	2.8 U	2.9 U	3.2 U	2.7 U	0.18 J
Antimony	1.7 UJ	1.6 UJ	1.6 UJ	1.7 U	1.7 U	1.8 U	1.9 U	1.6 U	1.7 U
Arsenic	1.6 J	6.1 J	6.0 J	5.8	7.2	6.9	5.9	6.2	5.0
Barium	18.2 J	31.5 J	27.3 J	25.2 J	37.6 J	33.9 J	50.5 J	30.9 J	82.1 J
Beryllium	0.35	0.36	0.36	0.35	0.46	0.54	0.59	0.30	0.67
Cadmium	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.27	0.27	0.11 U	0.12
Chromium	10.6	13.5	13.3	12.1	14.8	15.6	13.6	12.4	18.5 J
Cobalt	4.9 J	7.7 J	8.0 J	7.1	8.7 J	8.6	8.7	6.9	8.3 J
Copper	15.8 J	18.2 J	13.8 J	11.5 J	18.7 J	25.3 J	17.2 J	16.0 J	12.3 J
Lead	8.5	10.8	9.1	9.4	11.2	12.7	11.0	9.1	11.2
Manganese	86.7	557	485	411	578	246	549	486	241 J
Mercury	0.023 U	0.022 U	0.022 U	0.022 U	0.022 U	0.024 U	0.10	0.022 U	0.023 U
Nickel	14.8 J	18.7 J	18.3 J	18.0 J	22.6 J	22.7 J	21.8 J	16.2 J	22.8 J
Selenium	0.80 U	0.76 U	0.8 U	0.78 U	0.78 U	0.83 U	0.89 U	0.76 U	0.81 U
Silver	0.23 U	0.22 U	0.22 U	0.22 UJ	0.22 U	0.48 UJ	0.25 UJ	0.22 UJ	0.23 UJ
Thallium	0.57 U	0.54 U	0.54 U	0.55 UJ	0.55 U	0.59 UJ	0.64 UJ	0.55 UJ	0.58 UJ
Vanadium	9.6	12.6	11.4	10.8	13.2	17.1	15.4	11.5	19.8 J
Zinc	46.6 J	58.0 J	54.4 J	51.2 J	62.6 J	88.4 J	64.3 J	51.8 J	54.4 J

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Table 20, Page 4 of 4
Inorganic Parameters - Subsurface Soil
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SS27	BM-SS28	BM-SS29	BM-SS30	BM-SS32	BM-SS33
EPA Sample No.	MB56E2	MB56E3	MB56E4	MB56E5	MB56Q4	MB56Q6
Date:	11/18/2008	11/18/2008	11/19/2008	11/19/2008	11/20/2008	11/20/2008
Metals (mg/kg)						
Cyanide	3.0 U	3.0 U	3.0 U	2.8 U	3.2 UJ	2.8 UJ
Antimony	1.8 UJ	1.8 UJ	1.8 U	1.7 U	1.9 UJ	1.7 UJ
Arsenic	2.8 J	3.7 J	1.6	2.5	3.0 J	7.9 J
Barium	55.1 J	23.4 J	24.5 J	13.6 J	33.3 J	32.7 J
Beryllium	0.61	0.34	0.31	0.21	0.29	0.32
Cadmium	0.12 U	0.13	0.15	0.11 U	0.15	0.12
Chromium	16.0	12.2	9.3	7.8	12.3	10.8
Cobalt	7.5 J	5.9 J	5.0	4.8	6.6 J	6.1 J
Copper	14.2 J	11.1 J	10.8 J	11.5 J	11.8 J	18.7 J
Lead	10.2	8.3	10.2	4.7	9.9 J	7.5 J
Manganese	203	291	357	336	293 J	184 J
Mercury	0.024 U	0.024 U	0.024 U	0.022 U	0.025 U	0.022 U
Nickel	20.8 J	16.7 J	12.8 J	11.8 J	16.1 J	14.7 J
Selenium	0.84 U	0.83 U	0.84 U	0.78 U	- R	- R
Silver	0.24 U	0.24 U	0.24 UJ	0.22 UJ	0.25 U	0.22 U
Thallium	0.60 U	0.59 U	0.60 UJ	0.56 UJ	0.64 U	0.55 U
Vanadium	15.5	14.0	11.1	8.3	11.7	12.8
Zinc	58.3 J	63.2 J	42.9 J	33.6 J	58.1 J	43.5 J

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Table 21, Page 1 of 3
Inorganic Parameters - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW01	BM-GW02	BM-GW03	BM-GW04	BM-GW05	BM-GW06
EPA Sample No.	MB56E8	MB56E9	MB56F0	MB56F1	MB56F2	MB56F3
Date:	12/2/2008	12/2/2008	12/2/2008	12/4/2008	12/4/2008	12/2/2008
Metals (ug/L)						
Total Cyanide	5.0 U	5.0 U	5.0 U	5.0 U J	5.0 U	5.0 U
Antimony	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Antimony, Dissolved	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	1.0 U	1.0 U	1.0 U	1.0 U	19	1.8
Arsenic, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	19	1.4
Barium	150	30	39	48	52	45
Barium, Dissolved	69	30	39	33	52	38
Beryllium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Beryllium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	3.4	2.0 U	2.0 U	3,400	2.0 U	98
Chromium, Dissolved	2.0 U	2.0 U	2.0 U	3,300	2.0 U	130
Chromium, hexavalent	50 U	10 U	10 U	6,900 J	10 U	130
Cobalt	5.6 L	1.0 U L	1.0 U	1.0	1.0 U	2.1
Cobalt, Dissolved	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.1
Copper	15	3.0	3.7	4.5	2.8	5.8
Copper, Dissolved	6.7	3.1	3.5	67	3.2 K	3.1
Lead, Dissolved	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Lead	6.7	1.0 U	1.0 U	1.0 U	1.0 U	2.1
Manganese	900	39	37	72	170	110
Manganese, Dissolved	90	20	19	51	180	36
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury, Dissolved	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Molybdenum	1.0 U	1.0 U	1.0 U	1.0 U	2.4	2.2
Molybdenum, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.9
Nickel	5.0	1.0 U	1.4	1.4	1.1	2.1
Nickel, Dissolved	2.7	1.0 U	1.3	2.1	2.9	1.3
Selenium	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Selenium, Dissolved	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	1.8 J	1.1 U J	1.1 U J	1.1 U J	1.1 U J	1.1 U J
Vanadium, Dissolved	1.1 J	1.1 U J	1.1 U J	1.1 U	1.1 U J	1.1 U J
Zinc	60	4.2 U J	4.2 U J	4.2 U J	4.2 U J	11 J
Zinc, Dissolved	12 J	17 J	4.2 U J	4.2 U	4.2 U J	4.2 U J

U - Compound not detected at the limit shown

L - Result might be biased low

K - Result might be biased high

J - Estimated concentration

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Table 21, Page 2 of 3
Inorganic Parameters - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW07	BM-GW13	BM-GW08	BM-GW09	BM-GW10	BM-GW11
EPA Sample No.	MB56F4	MB56G0	MB56F5	MB56F6	MB56F7	MB56F8
Date:	12/4/2008	12/4/2008	12/3/2008	12/3/2008	12/3/2008	12/3/2008
Metals (ug/L)		Dup. (GW07)				
Total Cyanide	5.0 U	5.0 U	8.9	8.5	13	7.9
Antimony	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Antimony, Dissolved	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	1.0 U	1.0 U	1.0 U	1.0 U	9.2	1.0 U
Arsenic, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	9.1	1.0 U
Barium	43	44	33	33	71	33
Barium, Dissolved	43	43	25	29	60	10 U
Beryllium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Beryllium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	5,600	5,500	2.0 U	2.0 U	2.0 U	2.0 U
Chromium, Dissolved	5,400	5,600	2.0 U	2.0 U	2.0 U	2.0 U
Chromium, hexavalent	9,400	9,400	10 U	10 U	100 U	10 U
Cobalt	1.0 U	1.0 U	1.0 U	1.0 U	2.6	1.0 U
Cobalt, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	2.3	1.0 U
Copper	4.3	4.1	2.1	3.1	4.1	2.6
Copper, Dissolved	4.3 K	4.1 K	2.0 U	2.0 U	2.6	2.6
Lead, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Lead	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Manganese	540	540	68	140	1,600	83
Manganese, Dissolved	560	570	8.5	110	1,500	71
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury, Dissolved	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Molybdenum	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Molybdenum, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nickel	1.1	1.1	1.0 U	1.6	3.1	1.0 U
Nickel, Dissolved	2.6	2.6	1.0 U	1.0 U	2.2	1.0 U
Selenium	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Selenium, Dissolved	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	1.1 U J	1.1 U J	1.1 U J	1.2 J	1.2 J	1.1 U J
Vanadium, Dissolved	1.1 U J	1.1 U J	1.1 U J	1.1 U J	1.1 U J	1.1 U J
Zinc	4.2 U J	4.2 U J	4.2 U J	4.2 U J	5.0 J	4.2 U J
Zinc, Dissolved	4.2 U J	4.2 U J	4.2 U J	4.2 U J	4.2 U J	4.2 U J

U - Compound not detected at the limit shown

L - Result might be biased low

K - Result might be biased high

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 21, Page 3 of 3
Inorganic Parameters - Ground Water and Drinking Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-GW12	BM-GW14	BM-DW01	BM-DW02	BM-DW03
EPA Sample No.	MB56F9	MB56G4	MB56G1	MB56G2	MB56G3
Date:	12/4/2008	12/4/2008	12/2/2008	12/2/2008	11/19/2008
Metals (ug/L)					
Total Cyanide	5.0 U	5.0 U	5.0 U	5.0 U J	6.1
Antimony	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Antimony, Dissolved	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Arsenic, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Barium	32	39	68	68	10 U
Barium, Dissolved	32	39	68	68	10 U
Beryllium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Beryllium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	2.2	2.0 U L	2.0 U	2.0 U	2.0 U L
Chromium, Dissolved	2.2	2.0 U	2.0 U	2.0 U	2.0 U
Chromium, hexavalent	10 U	10 U	10 U	10 U	10 U
Cobalt	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U L
Cobalt, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U L
Copper	3.0	3.4 J	79	83	2.0 U
Copper, Dissolved	3.2 K	3.1 K	77	76	2.0 U
Lead, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Lead	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Manganese	2.0	1.0 U	1.0 U	1.0 U	45
Manganese, Dissolved	1.7	1.0 U	1.0 U	1.0 U	47
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury, Dissolved	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Molybdenum	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Molybdenum, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nickel	1.0 U	2.4	1.0 U	1.0 U	1.0 U
Nickel, Dissolved	2.1	2.4	1.0 U	1.0	1.0 U
Selenium	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Selenium, Dissolved	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	1.1 U J	1.1 U J	1.1 U J	1.1 U J	1.1 U J
Vanadium, Dissolved	1.1 U J	1.1 U J	1.1 U J	1.1 U J	1.1 U J
Zinc	4.2 U J	110	10 J	4.2 U J	6.1 J
Zinc, Dissolved	4.2 U J	100	4.2 U J	4.2 U J	5.5 J

U - Compound not detected at the limit shown

L - Result might be biased low

K - Result might be biased high

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 22, Page 1 of 2
Inorganic Parameters - Sediment
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SD01	BM-SD02	BM-SD10	BM-SD03	BM-SD04	BM-SD05	BM-SD06	BM-SD07
EPA Sample No.	MB56G5	MB56G6	MB56H4	MB56G7	MB56G8	MB56G9	MB56H0	MB56H1
Date:	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/3/2008	12/3/2008	12/4/2008	12/3/2008
Metals (mg/kg)			Dup. (SD02)					
Cyanide	5.4 UJ	5.7 UJ	4.6 U	4.9 U	4.8 U	6.3 UJ	4.3 U	4.0 U
Antimony	3.2 UJ	3.4 UJ	2.8 U	2.9 U	2.9 U	3.8 UJ	2.6 U	2.4 U
Arsenic (As)	8.5 J	7.3 J	5.7	7.2	4.3	6.4 J	2.6	4.2
Barium	84.7 J	84.4 J	57.3 J	83.8 J	143 J	80.4 J	72.8 J	85.1 J
Beryllium	0.51 J	0.60 J	0.44	0.52	0.57	0.48 J	0.57	0.57
Cadmium	1.0 J	0.76 J	0.47	0.81	1.2	1.5 J	0.21	0.25
Chromium	33.3 J	28.9 J	20.1 J	26.5	21.4	37.1 J	18.5	17.2
Cobalt	9.4 J	10.3 J	7.8	8.4	7.3	7.9 J	8.3	7.6
Copper	99.1 J	58.6 J	40.4 J	62.1	22.1	80.7 J	13.9	11.7
Lead (Pb)	124 J	65.8 J	44.4 J	70.7	39.0	93.3 J	15.5	22.6
Manganese	872 J	409 J	333	484	242	280 J	150	245
Mercury	0.30 J	0.23 J	0.13 J	0.22	0.12	0.22 J	0.034 U	0.032 U
Nickel	27.0 J	29.7 J	21.6	23.0	19.7	22.4 J	23.2	18.2
Selenium	1.5 UJ	1.6 UJ	1.3 U	1.4 U	1.4 U	1.8 UJ	1.2 U	1.1 U
Silver	0.15 J	0.11 J	0.37 U	0.12 J	0.14 J	0.16 J	0.34 U	0.32 U
Thallium	1.1 UJ	1.1 UJ	0.93 U	0.98 U	0.97 U	1.3 UJ	0.85 U	0.80 U
Vanadium	22.9 J	23.5 J	16.9	19.0	18.8	16.2 J	17.2	19.2
Zinc	682 J	368 J	240 J	415	168	680 J	92.5	78.0
TOC (mg/kg)								
Organic Carbon, Tot.	72,000	60,000	64,000	66,000	50,000	86,000	25,000	19,000
Grain- Size (%)								
% Granule & larger >2 MM	0.0	5.1	11.6	0.0	0.0	0.0	3.3	0.0
% Very coarse Sand >1 - 2 MM	3.5	4.3	3.4	5.7	4.0	4.0	4.2	2.7
% Coarse Sand >.5 - 1 MM	1.9	3.1	3.2	2.6	3.2	2.3	6.0	2.6
% Medium Sand >.25 - .5 MM	4.2	3.7	3.7	2.8	4.0	3.3	8.4	4.0
% Fine Sand >.125 - .25 MM	6.7	3.5	3.1	3.5	4.2	4.3	6.4	5.9
% Very fine Sand >.0625 - .125 MM	8.5	3.4	2.7	5.1	4.9	7.8	7.3	7.1
% Silt	72.4	73.5	68.0	75.5	69.8	74.2	52.2	61.5
% Clay & Colloids	2.8	3.3	4.4	4.9	10.0	4.1	12.1	16.2

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 22, Page 2 of 2
Inorganic Parameters - Sediment
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SD08	BM-SD09	BM-SD11	BM-SD12	BM-SD13	BM-SD14	BM-SD15
EPA Sample No.	MB56H2	MB56H3	MB56H5	MB56H6	MB56H7	MB56H8	MB56H9
Date:	12/3/2008	12/3/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008	11/17/2008
Metals (mg/kg)							
Cyanide	3.4 U	4.2 U	3.9 U	4.5 U	3.7 U	3.6 U	5.5 UJ
Antimony	2.0 U	2.5 U	2.3 UJ	2.7 UJ	2.2 UJ	2.2 UJ	3.3 UJ
Arsenic (As)	7.0	7.7	5.6 J	5.8 J	6.6 J	5.0 J	6.9 J
Barium	43.0 J	49.8 J	149 J	127 J	166 J	87.3 J	134 J
Beryllium	0.50	0.54	0.50	0.52	0.40	0.46	0.60 J
Cadmium	0.19	0.18	0.89	0.36	0.49	0.50	0.70 J
Chromium	13.8	16.5	23.6 J	21.5 J	20.4 J	19.0 J	26.2 J
Cobalt	8.4	7.8	8.7 J	9.2 J	8.3 J	8.7 J	10.8 J
Copper	15.8	21.6	32.3 J	26.7 J	38.2 J	26.8 J	36.9 J
Lead (Pb)	11.2	12.5	60.9 J	37.8 J	347 J	37.9 J	59.3 J
Manganese	521	463	746 J	967 J	661 J	621 J	876 J
Mercury	0.027 U	0.078	0.14	0.11	0.15	0.13	0.13 J
Nickel	19.1	22.7	31.5 J	24.2 J	24.7 J	24.3 J	28.6 J
Selenium	0.95 U	1.2 U	0.64 J	1.3 U	1.0 U	1.0 U	1.5 UJ
Silver	0.27 U	0.34 U	- R	- R	- R	- R	- R
Thallium	0.68 U	0.84 U	0.78 U	0.90 U	0.73 U	0.71 U	1.1 UJ
Vanadium	18.5	19.6	14.1 J	14.9 J	13.4 J	12.2 J	18.3 J
Zinc	59.5	90.5	154 J	119 J	137 J	127 J	299 J
TOC (mg/kg)							
Organic Carbon, Tot.	11,000	19,000	46,000	63,000	41,000	48,000	62,000
Grain- Size (%)							
% Granule & larger >2 MM	27.5	38.4	0.0	0.0	0.0	11.8	11.8
% Very coarse Sand >1 - 2 MM	6.4	5.9	3.1	3.1	2.5	8.6	4.5
% Coarse Sand >.5 - 1 MM	9.9	10.1	4.4	2.5	2.4	14.4	3.4
% Medium Sand >.25 - .5 MM	15.9	16.8	7.2	3.5	10.5	9.7	5.7
% Fine Sand >.125 - .25 MM	8.4	5.8	10.4	5.1	16.0	4.3	5.5
% Very fine Sand >.0625 - .125 MM	4.6	2.5	10.2	8.6	11.0	4.9	5.3
% Silt	20.1	15.1	56.1	70.0	51.1	38.8	57.4
% Clay & Colloids	7.2	5.4	8.7	7.2	6.4	7.4	6.3

U - Compound not detected at the limit shown

R - Result rejected as unusable

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 23, Page 1 of 2
Inorganic Parameters - Surface Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SW01	BM-SW02	BM-SW10	BM-SW03	BM-SW04
EPA Sample No.	MB56J0	MB56J1	MB56J9	MB56J2	MB56J3
Date:	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/3/2008
Metals (ug/L)			Dup. (SW02)		
Cyanide	6.0	5.2	5.5	5.8	12
Antimony	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Antimony, Dissolved	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	1.0 U	1.8	1.6	1.0 U	1.0 U
Arsenic, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Barium	37	67	67	52	37
Barium, Dissolved	40	52	50	55	33
Beryllium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Beryllium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	2.0 U	4.9	5.2	2.0 U	2.0 U
Chromium, Dissolved	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chromium, Hexavalent	10 U	25	16	10 U	10 U
Cobalt	1.0 U	2.3	2.5	1.0 U	1.0 U
Cobalt, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Copper	6.7 K	10 K	10 K	5.2 K	7.0
Copper, Dissolved	6.8 K	5.4 K	5.0 K	5.4 K	5.7
Lead, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Lead	1.2	7.5	7.6	1.0 U	1.8
Manganese	43	170	210	18	21
Manganese, Dissolved	39	17	16	19	7.0
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury, Dissolved	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Molybdenum	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Molybdenum, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nickel	2.0	6.9 K	7.6 K	3.1	2.3
Nickel, Dissolved	2.3	3.1	3.0	3.2	1.7
Selenium	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Selenium, Dissolved	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	1.1 U J	3.5 J	3.1 J	1.1 U J	1.1 U J
Vanadium, Dissolved	1.1 U J	1.1 U J	1.1 U J	1.1 U J	1.1 U J
Zinc	19 J	69	72	14 J	24
Zinc, Dissolved	15 J	12 J	12 J	20 J	11 J

U - Compound not detected at the limit shown

K - Result might be biased high

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

Table 23, Page 2 of 2
Inorganic Parameters - Surface Water
Buckbee-Mears, Cortland, NY

SAT 2 Sample No.	BM-SW05	BM-SW06	BM-SW07	BM-SW08	BM-SW09
EPA Sample No.	MB56J4	MB56J5	MB56J6	MB56J7	MB56J8
Date:	12/3/2008	12/4/2008	12/3/2008	12/3/2008	12/3/2008
Metals (ug/L)					
Cyanide	9.9	5.0 U	9.4	10	11
Antimony	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Antimony, Dissolved	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	1.0 U	1.0 U	1.9	1.0 U	1.0 U
Arsenic, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Barium	38	10 U	60	11	25
Barium, Dissolved	37	10 U	19	10 U	25
Beryllium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Beryllium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	2.0 U	2.0 U	5.0	2.0 U	2.0 U
Chromium, Dissolved	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chromium, Hexavalent	10 U	10 U	20 U	10 U	10 U
Cobalt	1.0 U	1.0 U	2.8	1.0 U	1.0 U
Cobalt, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Copper	5.8	2.3 K	7.3	3.0	4.9
Copper, Dissolved	5.7	2.1 K	3.5	2.0	5.0
Lead, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Lead	1.0 U	1.0 U	9.4	1.2	1.0 U
Manganese	56	5.5	170	67	40
Manganese, Dissolved	42	3.8	11	15	31
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury, Dissolved	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Molybdenum	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Molybdenum, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nickel	1.4	1.0	7.7	1.4	1.3
Nickel, Dissolved	1.2	1.0	1.7	1.0 U	1.2
Selenium	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Selenium, Dissolved	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Thallium, Dissolved	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	1.1 U J	1.1 U J	7.4 J	1.1 U J	1.1 U J
Vanadium, Dissolved	1.1 U J	1.1 U J	1.1 U J	1.1 U J	1.1 U J
Zinc	18 J	5.8 J	52	19 J	41
Zinc, Dissolved	14 J	18 J	4.2 U J	6.2 J	36

U - Compound not detected at the limit shown

K - Result might be biased high

J - Estimated concentration

UJ - Compound not quantifiable above the CRQL, or QA/QC requirements not met

PART IV: HAZARD ASSESSMENT

GROUND WATER ROUTE

- 1. Describe the likelihood of a release of contaminant(s) to the ground water as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence and relationship to background.**

An observed release of chromium (including hexavalent chromium) and arsenic to on-site ground water is documented. Background concentrations of chromium and arsenic in sample BM-GW01 were 3.2 µg/L and 1.0 U µg/L (U = not detected), respectively. Chromium was detected above SQLs and significantly above background in ground water samples BM-GW04 (former Building 1 slab), BM-GW06 (parking lot), and BM-GW07 (Building 5), with individual concentrations ranging from 98 µg/L (BM-GW06) to 9,400 µg/L (BM-GW07 and duplicate BM-GW13). It should be noted that hexavalent chromium concentrations exceeded total chromium concentrations. Arsenic was detected above SQLs and significantly above background in ground water samples BM-GW05 (between Building 5 and former Building 1), BM-GW06, and BM-GW10 (gravel lot), with individual concentrations ranging from 1.4 µg/L (BM-GW06) to 19 µg/L (BM-GW05). The depths of ground water samples showing observed release concentrations ranged from approximately 5 to 10 feet below ground surface (bgs).

Arsenic and chromium are attributable to the site because they were both detected in sludge and other waste samples collected by RST. Chromium was also detected in some of the soil samples collected on site by SAT 2. Molybdenum was also detected significantly above background in ground water samples BM-GW05 and BM-GW06, but there is no attribution for molybdenum because there are no waste or soil data for that parameter.

[Ref. 3, pp. 7-11, 17-24; 7, Figure 3; 9, pp. 22-29, 98-110; 10, pp. 12-14, 64-65, 73-74, 86-88; 15, pp. 10, 13, 18-24, 36, 40-44, 56-60]

- 2. Describe the aquifer of concern; include information such as depth, thickness, geologic composition, areas of karst terrain, permeability, overlying strata, confining layers, interconnections, discontinuities, depth to water table, ground water flow direction.**

The aquifer of concern at the BM site is the glacial-aquifer system in the Cortland area, which is bound laterally by till-covered bedrock hills and beneath by the bedrock valley floor. The glacial-aquifer system consists of an unconfined sand and gravel aquifer 40 to 80 feet thick, a lacustrine confining layer 0 to 155 feet thick, and a confined sand and gravel aquifer 1 to 170 feet thick. The confining unit impedes vertical movement of ground water between the upper and lower aquifers in the middle of the valley, but the two aquifers are hydraulically connected in many places along the valley walls where the confining layer is absent. Ground water flow direction at the site is eastward, as indicated by on-site and regional information.

Site-specific information obtained during the subsurface investigation shows that there is gravelly fill material, typically a few feet thick, underlain by the unconfined sand and gravel aquifer. Ground water was encountered at depths ranging from approximately 2 to 10 feet bgs.

Geologic Unit	Depth (Approximate)	Thickness (Approximate)
Unconfined sand and gravel	5 feet	40-80 feet
Confined sand and gravel	40-235 feet	1-170 feet

[Ref. 7, Figure 2; 9, pp. 33-98; 18, pp. 1-2, 9-14, 17-22, plates 1-5]

3. What is the depth from the lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer of concern?

The depth from the lowest point of waste disposal/storage to the highest seasonal level of the aquifer of concern is 0 feet. This measurement is based upon the detection of site-attributable contaminants in ground water samples at depths ranging from 5 to 10 feet bgs, whereas the saturated zone was encountered as shallow as 2 feet bgs during the IA.

[Ref. 9, p. 98; 15, pp. 10, 13, 18-24, 36, 40-44, 56-60]

4. What is the permeability value of the least permeable continuous intervening stratum between the ground surface and the top of the aquifer of concern?

Deposits encountered above the saturated zone during drilling and monitoring well installation consist of sand and gravel fill. Deposits of this type have an estimated permeability of 10^{-2} centimeters per second (cm/s).

[Ref. 9, pp. 33-97; 19, p. 51601]

5. What is the net precipitation at the site (inches)?

The net precipitation at the site ranges from 15-30 inches.

[Ref. 19, pp. 51598, 51600]

6. What is the distance to and depth of the nearest well that is currently used for drinking purposes?

The nearest well currently used for drinking purposes is located approximately 1,000 feet southeast of the site. The depth of the well is approximately 30 feet.

[Ref. 7, Figure 3; 9, pp. 16, 18; 20, p. 1]

7. If a release to ground water is observed or suspected, determine the number of people that obtain drinking water from wells that are documented or suspected to be actually contaminated by hazardous substance(s) attributed to an observed release from the site.

No drinking water wells are known or suspected to be actually contaminated by hazardous substances attributed to the site. Chromium and arsenic were not detected in sample BM-DW03, which was collected from the nearest operational drinking water well.

[Ref. 9, pp. 16, 18; 10, pp. 18, 23, 50; 15, pp. 8-10]

8. Identify the population served by wells located within 4 miles of the site that draw from the aquifer of concern.

The total population served by wells located within 4 miles of the site that draw from the aquifer of concern is approximately 26,466 persons. There are two domestic wells located approximately 1,000 feet southeast of the site, serving four people. Four water districts (City of Cortland, Town of Cortlandville, Homer Village, and McGraw Village) operate public supply wells within 4 miles of the BM site.

<u>Distance</u>	<u>Population</u>
0 - ¼ mile	4
>¼ - ½ mile	0
>½ - 1 mile	0
>1 - 2 miles	20,000
>2 - 3 miles	3,200
>3 - 4 miles	3,262

[Ref. 7, Figure 4; 21, pp. 1-10]

State whether ground water is blended with surface water, ground water, or both before distribution.

Ground water from three wells within the City of Cortland public water system is blended together prior to distribution. The wells are located within 4 miles of the site.

[Ref. 7, Figure 4; 21, p. 3]

Is a designated wellhead protection area within 4 miles of the site?

There are designated wellhead protection areas (WHPA) within 4 miles of the BM site.

[Ref. 7, Figure 4; 21, pp. 2, 4, 7-8]

Does a waste source overlie a designated or proposed wellhead protection area? If a release to ground water is observed or suspected, does a designated or proposed wellhead protection area lie within the contaminant boundary of the release?

The waste sources do not overlie designated or proposed WHPAs. Designated or proposed WHPAs do not lie within the contaminant boundary of the observed release to ground water.

[Ref. 21, pp. 2, 7-8]

9. **Identify one of the following resource uses of ground water within 4 miles of the site (i.e., commercial livestock watering, ingredient in commercial food preparation, supply for commercial aquaculture, supply for major, or designated water recreation area, excluding drinking water use, irrigation (5-acre minimum) of commercial food or commercial forage crops, unusable).**

Ground water within 4 miles of the site is used for commercial food preparation and irrigation of commercial food or forage crops. The predominant land use in the area is agriculture. In addition to the city, townships, and county, well owners in the area include a fish hatchery, creamery, baking company, and hospital.

[Ref. 7, Figure 4; 18, pp. 8, 27, 67-74]

SURFACE WATER ROUTE

- 10. Describe the likelihood of a release of contaminant(s) to surface water as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence and relationship to background.**

An observed release of chromium (including hexavalent chromium), arsenic, and lead to on-site surface water is documented. Chromium (2.0 U µg/L), hexavalent chromium (10 U µg/L), and arsenic (1.0 U µg/L) were not detected in background sample BM-SW01, and lead was detected at 1.2 µg/L. Chromium, arsenic, and lead were detected above SQLs and significantly above background in surface water samples BM-SW02, its duplicate BM-SW10, and BM-SW07. Observed release concentrations of chromium ranged from 4.9 µg/L to 5.2 µg/L, while arsenic concentrations ranged from 1.6 µg/L to 1.9 µg/L and lead was detected at 7.5 µg/L to 9.4 µg/L. Hexavalent chromium was detected in samples BM-SW02 (25 µg/L) and its duplicate BM-SW10 (16 µg/L).

Arsenic, chromium, and lead are attributable to the site because they were all detected in sludge and other waste samples collected by RST. Chromium was also detected in some of the soil samples collected on site by SAT 2.

[Ref. 3, pp. 7-11, 17-24; 7, Figure 3; 9, pp. 25-30; 10, pp. 15-16, 73-74, 86-87; 15, pp. 27-28, 32, 46-55]

- 11. Identify the nearest down slope surface water. If possible, include a description of possible surface drainage patterns from the site.**

The nearest down slope surface water, Perplexity Creek, flows through the BM site. The creek enters the site from the north via culverts under railroad tracks and the site parking lot, resurfaces in the eastern portion of the site, and continues to flow southeast. Perplexity Creek flows from the probable point of entry (PPE) where it resurfaces for approximately ½ mile to Tioughnioga River, which makes up the remainder of the 15-mile target distance limit (TDL). There is another PPE to an isolated on-site wetland that appears to have been a retention basin.

[Ref. 2, p. 5; 6, p. 1; 7, Figures 2, 5; 9, pp. 4-7, 122, 147, 161; 10, pp. 15, 23]

- 12. What is the distance in feet to the nearest down slope surface water? Measure the distance along a course that runoff can be expected to follow.**

The distance to the nearest down slope surface water is 0 feet to Perplexity Creek, which flows through the BM site.

[Ref. 2, p. 5; 7, Figures 2, 5; 10, pp. 15, 23]

13. Identify all surface water body types within 15 downstream miles.

<u>Name</u>	<u>Water Body Type</u>	<u>Flow (cfs)</u>	<u>Saline/Fresh/Brackish</u>
Perplexity Creek	Minimal Stream	< 10	Fresh
Tioughnioga River	Moderate to Large Stream	> 100-1000	Fresh

[Ref. 7, Figure 5; 19, p. 51613; 22, p. 1; 23, pp. 1-2]

14. Determine the 2-yr, 24-hr rainfall (inches) for the site.

The 2-year, 24 hour rainfall for the BM site is approximately 2.7 inches.

[Ref. 24, p. 4]

15. Determine size of the drainage area (acres) for sources at the site.

The drainage area, which includes the site and a small open area to the northwest, is approximately 60 acres. The drainage area is bounded on the north and northwest by roadways and on the southwest by railroad tracks.

[Ref. 6, p. 1; 7, Figure 3]

16. Describe the predominant soil group in the drainage area.

The predominant soil group encountered at the site consists of coarse-textured soils (i.e., gravel and sand), which are evaluated under soil group designation A.

[Ref. 9, pp. 33-95; 19, p. 51611]

17. Determine the type of floodplain that the site is located within.

The BM site is situated within a 100-year flood zone.

[Ref. 25, pp. 1-2]

18. Identify drinking water intakes in surface waters within 15 miles downstream of the point of surface water entry. For each intake identify: the name of the surface water body in which the intake is located, the distance in miles from the point of surface water entry, population served, and stream flow at the intake location.

There are no known surface water intakes within 15 miles of the PPE.

[Ref. 18, pp. 17-18; 21, pp. 1-10]

19. Identify fisheries that exist within 15 miles downstream of the point of surface water entry. For each fishery specify the following information:

<u>Fishery Name</u>	<u>Water Body Type</u>	<u>Flow (cfs)</u>	<u>Saline/Fresh/Brackish</u>
Tioughnioga River	Moderate to Large Stream	> 100-1000	Fresh

[Ref. 22, p. 1; 23, pp. 1-2]

20. Identify surface water sensitive environments that exist within 15 miles of the point of surface water entry.

<u>Environment</u>	<u>Water Body Type</u>	<u>Flow (cfs)</u>	<u>Wetlands Frontage</u>
Wetlands	Minimal Stream	<10	2,500 feet
Wetlands	Moderate to Large Stream	>100-1000	37,802 feet
Two State-Listed Threatened Species*	Moderate to Large Stream	>100-1000	N/A

* Brook Floater (*Alasmidonta varicosa*) and Green Floater (*Lasmigona subviridis*). The nearest habitat for these species is in Tioughnioga River at the confluence with Perplexity Creek, at a distance of approximately 0.5 mile downstream of the BM site.

[Ref. 7, Figures 4-5; 22, p. 1; 26, p. 1; 27, pp. 1-10]

21. If a release to surface water is observed or suspected, identify any intakes, fisheries, and sensitive environments from question Nos. 18-20 that are or may be actually contaminated by hazardous substance(s) attributed to an observed release of from the site.

Approximately 660 feet (0.12 mile) of the delineated wetlands along Perplexity Creek is subject to actual contamination, with the remainder evaluated as uncontaminated wetlands. The length of contaminated wetlands is measured along both sides of Perplexity Creek between observed release samples BM-SW02 and BM-SW07. .

[Ref. 7, Figure 3; 9, pp. 25-30; 10, pp. 15-16, 73-74, 86-87; 15, pp. 27-28, 32, 46-55; 26, p. 1]

22. Identify whether the surface water is used for any of the following purposes, such as: irrigation (5 acre minimum) of commercial food or commercial forage crops, watering of commercial livestock, commercial food preparation, recreation, potential drinking water supply.

There are no known intakes located along the 15-mile surface water migration pathway; therefore, it is not likely that surface water is used for any of the purposes listed above.

[Ref. 18, pp. 17-18; 21, pp. 1-10]

SOIL EXPOSURE PATHWAY

- 23. Determine the number of people that occupy residences or attend school or day care on or within 200 feet of observed contamination.**

There are no residences, schools, or day care centers on or within 200 feet of observed contamination. However, there are approximately 4,068 people residing within 1 mile of the site. Direct contact by nearby residents with the on-site contamination is unlikely because the BM facility is fenced and has 24-hour security while EPA is at the site.

[Ref. 9, pp. 2-4; 28, pp. 1-2, 5]

- 24. Determine the number of people that regularly work on or within 200 feet of observed contamination.**

Although EPA removal activities at the site are ongoing, the BM facility is currently inactive and utilities serving the site are not operational. Therefore, there are no permanent workers on or within 200 feet of observed contamination.

[Ref. 4, p. 14; 9, pp. 2-4]

- 25. Identify terrestrial sensitive environments on or within 200 feet of observed contamination.**

There are no terrestrial sensitive environments on or within 200 feet of the site.

[Ref. 27, pp. 1-10]

- 26. Identify whether there are any of the following resource uses, such as commercial agriculture, silviculture, livestock production or grazing within an area of observed or suspected soil contamination.**

There are none of the listed resource uses within the area of observed soil contamination.

[Ref. 4, pp. 14-15; 7, Figure 3; 9, pp. 2-95, 113-161]

AIR PATHWAY

- 27. Describe the likelihood of release of hazardous substances to air as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them the site. For observed release, define the supporting analytical evidence and relationship to background.**

A release to air is neither observed nor suspected. The facility has been inactive since May 2005, and there are no ongoing emissions from the facility. There were no readings above background on air-monitoring instrumentation at the commencement of removal activities in January 2007 or during removal activities in July 2008. The BM site is being evaluated as a potential source of ground water and surface water contamination; no air samples were collected by SAT 2 during the IA sampling event.

[Ref. 4, pp. 59-122; 8, pp. 1-63; 9, pp. 2-7; 10, pp. 5-18; 29, pp. 1-4]

- 28. Determine populations that reside within 4 miles of the site.**

There are an estimated 29,355 residents within 4 miles of the BM site.

<u>Distance</u>	<u>Population</u>
On site	0
>0 - ¼ mi	57
>¼ - ½ mi	1,380
>½ - 1 mi	2,631
>1 - 2 mi	14,158
>2 - 3 mi	4,770
>3 - 4 mi	6,359

[Ref. 28, pp. 1-6]

- 29. Identify sensitive environments, including wetlands and associated wetlands acreage, within 4 miles of the site.**

<u>Distance</u>	<u>Wetlands Acreage</u>	<u>Sensitive Environments</u>
0- ¼ mi	1.29	None identified.
>¼ - ½ mi	1.65	None identified.
>½ - 1 mi	24.04	None identified.
>1 - 2 mi	61.85	None identified.
>2 - 3 mi	105.86	None identified.
>3 - 4 mi	163.42	None identified.

[Ref. 7, Figure 4; 26, p. 1]

- 30. If a release to air is observed or suspected, determine the number of people that reside or are suspected to reside within the area of air contamination from the release.**

A release to air is not observed or suspected; see Question No. 27 for a description of the likelihood of a release.

- 31. If a release to air is observed or suspected, identify any sensitive environments, listed in question No. 29, that are or may be located within the area of air contamination from the release.**

A release to air is not observed or suspected; see Question No. 27 for a description of the likelihood of a release.

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