### SITE INVESTIGATION REPORT

# 26-28 WHITESBORO STREET SITE CITY OF UTICA, ONEIDA COUNTY, NEW YORK

### (BROWNFIELDS SITE NO. B00063-6)

Prepared for:

# CITY OF UTICA AND NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Prepared by:

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**DECEMBER 2008** 

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#### **1.0 INTRODUCTION**

Dvirka and Bartilucci Consulting Engineers (D&B) was contracted by the City of Utica to conduct a Site Investigation (SI) and prepare a Remedial Alternatives Analysis Report (RAAR) under the City's Brownfield Program and the New York State 1996 Clean Water/Clean Air Bond Act Environmental Restoration Projects (ERP) Program. This SI/RAR involved conducting a field investigation and remedial alternatives assessment for the 26-28 Whitesboro Street Site, New York State Department of Environmental Conservation (NYSDEC) Brownfields Site Number B00063-6 (Figure 1-1).

The City of Utica Brownfields Initiative has been undertaken to assess abandoned properties currently owned by the city. In 1999, the city was awarded an \$87,000 grant from the New York State ERP Program to conduct pre-remediation activities at the 26-28 Whitesboro Street Site. The objective of Utica's Brownfields Initiative is to cleanup properties and prepare them for redevelopment.

This Site Investigation Report (SIR) presents a description of the field program performed for the 26-28 Whitesboro Street Site. This SIR includes site-specific data and interpretations that define the nature, extent and source of contamination, and the risks associated with the contamination. The RAAR will be prepared subsequent to this report, and will present the development and evaluation of alternatives for remediation of the site.

#### 1.1 Purpose

The purpose of the 26-28 Whitesboro Street SI was to determine the nature, extent and source of contamination, ascertain whether complete routes of exposure to site contaminants exist, and to determine if remediation is necessary to protect human health and the environment. The scope of work was sufficient for the City of Utica to plan redevelopment of the site.



F:\1909\1909-1A:DWG T.MCC Ω. 04:38 2001 The approach to the investigation was to review existing data, fill data gaps, and interpret the existing and new data on a site-wide basis. Using this information, a qualitative human health exposure assessment was performed. Based on the findings of the investigation and exposure assessment, remedial measures will be evaluated in a remedial alternatives analysis and a remedy recommended, if required. The project was divided into four components as follows:

Task 1 – Site Characterization Task 2 – Human Health Exposure Assessment Task 3 – Site Investigation Report Task 4 – Remedial Alternatives Analysis Report

#### **1.2 Report Organization**

This report is presented in a format that allows for a logical and ordered progression of the descriptions and findings of the investigation. Section 1.0 discusses the project objectives. Section 2.0 discusses the site background and a review of the site history, including a discussion of previous investigations and a summary of the results. Section 3.0 is a detailed description of the field program undertaken during the site investigation phase of the project. Section 4.0 presents the analytical results, and discusses the nature and extent of the contamination relative to the standards, criteria and guidelines for the various media sampled. This section also discusses data usability. Section 5.0 provides a human health exposure assessment based on the investigation findings. Section 6.0 presents the conclusions of the site investigation. Section 7.0 contains recommendations for the media and areas of the site identified as a significant threat to human health, which require remediation. Identification and evaluation of remedial technologies and alternatives, and a recommended remedial action plan for the site will be provided in the RAAR.

### 2.0 SITE DESCRIPTION AND BACKGROUND

#### 2.1 Site Description

The 26-28 Whitesboro Street Site is located in the City of Utica, Oneida County, New York. The site is located on the north side of Whitesboro Street and is bounded on the east by Division Street, north by Water Street and west by vacant land (see Figure 2-1). The site is owned by the City of Utica and consists of vacant land. Access to the site is unrestricted.

The 26-28 Whitesboro Street Site is approximately 1.6 acres in size and consists of seven individual tax parcels. The property is relatively flat and contains no buildings or structures. The site is surrounded by a highway, commercial buildings and businesses in downtown Utica. Several sets of railroad tracks are located north of the site. Beyond the railroad tracks, the Mohawk River flows in an easterly direction. South of the site, the ground surface elevation rises gradually into the City of Utica.

#### 2.2 Summary of Background Information

Historic records indicate that as of 1883, the property was listed as part of the Butterfield estate and had been partially developed with brick and stone buildings of unknown use. By 1920, the western portion of the property (Area 1) was occupied by Horrocks Ibbotson and Company, a manufacturer of fishing rods. Use of the site for the manufacturing of fishing rods reportedly continued until 1982. Between 1983 and 1993, the property was owned by various companies, including the Baggs Square Corporation from 1983 to 1991, and the Cajan Realty Corporation from 1991 to 1993. In 1993, the City of Utica acquired the western property in lieu of back taxes. In 1994 the existing building was destroyed by fire and subsequently demolished.



The eastern portion of the property (Area 2) was occupied by various hotels from at least 1925 until at least 1973. Property ownership information is unknown. In 1993, the City of Utica acquired the eastern property in lieu of back taxes. The NYSDEC site designation for Areas 1 and 2 is B00063-6.

Figure 2-2 illustrates the approximate location of former buildings that occupied the site around 1970. A review of Sanborn maps for the area indicate that the structures shown on Figure 2-2 were in place around 1950 and remained relatively unchanged through at least 1986. Available sources did not reveal the locations of the site that were utilized for specific activities other than those illustrated in Figure 2-2 (i.e., boiler room and storage). In an effort to identify locations of the site that were used for activities that may have resulted in contamination of the site, attempts were made to contact former employees of Horrocks Ibbotson and Company. Table 2-1 presents a list of persons associated with Horrocks Ibbotson and Company. Efforts to locate and contact these persons were unsuccessful and it is likely that many former employees have either moved from the area or passed away.

In 1997, a Phase I Environmental Site Assessment (ESA) was prepared by Dames and Moore, Inc. for the 26-28 Whitesboro Street Site. Subsequently, a limited Phase II ESA was conducted in Area 1 of the site in 1997. The Phase II ESA included excavation of eight test pits and construction of twelve soil borings (see Figure 2-3). Total volatile organic compounds (VOCs) measured in headspace from soil samples collected from the test pits and soil borings indicated the presence of contaminated soil in the north central portion of Area 1. Five soil samples were collected for laboratory analyses during the Phase II ESA (see Table 2-2). One of these samples exceeded NYSDEC Recommended Soil Clean-up Objectives for acetone and trans-1,2-dichloroethene (Table A-1, Appendix A). Based on these results, Spill Number 97-09722 was issued by NYSDEC for the site. Analytical results from one groundwater sample collected from the middle of Area 1 showed that groundwater was not impacted at levels above New York State Class GA groundwater standards (Table A-3, Appendix A).

# TABLE 2-1 SUMMARY OF HORROCKS IBBOTSON PERSONNEL 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

1978	Horrocks Ibbotson - no	t listed	1945	Edward D. Ibbotson	Chairman of Board
1975	D. Minnigerode	Exec V-Pres & Genl Mgr		Richard H. Balch	Pres
	E.S. Cookinham	V-Pres		Macy C. Robinson	V-Pres
	J. Brownell	Sec-Treas		M. T. Ibbotson	V-Pres
1970	D. Minnigerode	Exec V-Pres		Wm. N. Macartney	Treas
	E.S. Cookinham	V-Pres		G. K. Burnap	Comptroller
	J. Brownell	Sec		George W. Richter	Sec
1969	R. H. Balch	Chairman of Board	1940	Edward D. Ibbotson	Chairman of Board
	James P. Balch	Pres		Richard H. Balch	Pres
	E.S. Cookinham	V-Pres		Macy C. Robinson	V-Pres
	J. Brownell	Sec		M. T. Ibbotson	V-Pres
1968	Volume missing			Wm. N. Macartney	Treas
1965	Richard H. Balch	Pres		G. K. Burnap	Comptroller
	James P. Balch	V-Pres		George W. Richter	Sec
	Macy C. Robinson	V-Pres	1935	Edward D. Ibbotson	Pres
	Richard H. Balch ir	Sec		Macy C. Robinson	V-Pres
1967	Richard H. Balch	Pres		Richard H. Balch	V-Pres
	James P. Balch	V-Pres & Genl Mgr		George W. Richter	Sec
	Macy C. Robinson	V-Pres		Wm. N. Macartney	Asst Treas
	Edw S Cookinham	V-Pres		M T Ibbotson	V-Pres
	Richard H Balch ir	Sec	1930	Edward D Ibbotson	Pres
	Geo K Burnan	Comptroller	1750	Macy C Robinson	V-Pres
1966	Richard H. Balch	Pres		Richard H. Balch	V-Pres
1700	James P. Balch	V-Pres & Genl Mgr		George W. Richter	Sec
	Macy C. Robinson	V-Pres		Walter H Manwaring	Treas
	Edw S Cookinham	V-Pres		Wm N Macartney	Asst Treas
	Richard H Balch ir	Sec		M T Ibbotson	V-Pres
	Geo K Burnan	Comptroller	1928	Edward D Ibbotson	Pres
1960	Richard H Balch	Pres	1720	Macy C Robinson	V-Pres
1700	Macy C. Robinson	V-Pres		Richard H Balch	V-Pres
	Ias M Brenan	V-Pres		Geo W Richter	Sec
	Edw Cookinham	V-Pres		Walter H Manwaring	Treas
	James P Balch	Sec	1927	H James Horrocks	Chairman Brd of Dir
	Wm N Macartney	Treas	1/2/	Edward D Ibbotson	Pres
	G Kenneth Burnan	Comptroller		Macy C Robinson	V-Pres
1955	Edward D Ibbotson	Chairman of Board		George W Richter	Sec
1755	Richard H Balch	Pres		Walter H Manwaring	Treas
	Macy C Robinson	V-Pres	1926	Volume missing	Tieus
	M T Ibbotson	V-Pres - Sec	1925	H James Horrocks	Pres
	Wm N Macartney	Treas	1725	Edward D Ibbotson	V-Pres
	G K Burnan	Comptroller		Macy C Robinson	Sec
	I M Brenan	Asst Treas		Walter H Manwaring	Treas
	E S Cookinham	Asst Sec	1920	H James Horrocks	Pres
1950	Edward D Ibbotson	Chairman of Board	1720	Edward D Ibbotson	V-Pres & Sec
1750	Richard H Balch	Pres		James H. Horrocks	Treas
	Macy C Robinson	V-Pres	1915	H James Horrocks	Pres
	M T Ibbotson	V-Pres - Sec	1715	Edward D Ibbotson	V-Pres & Sec
	Wm N Macartney	Treas		Iames H Horrocks	Treas
	G K Burnan	Comptroller	1910	H James Horrocks	Pres
	J. M. Brenan	Asst Treas	1/10	Edward D. Ibbotson	V-Pres & Sec
	E. S. Cookinham	Asst Sec		James H. Horrocks	Treas

1905-1909 Horrocks Ibbotson - not listed

Source:

1945 and later: Utica City Directory, RL Polk & Co Publishers, 600 Washington Street, Boston, MA 1935 and earlier: Steber Directory of the City of Utica, The Utica Publishing Co. of Utica, NY

# TABLE 2-2 SUMMARY OF PREVIOUS INVESTIGATION SAMPLES COLLECTED 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

			WORK	TCL	STARS	STARS	TCL	STARS	STARS	RCRA	ТРН
LOCATION	DEPTH	DATE	BY	VOCS	VOCS (TCLP)	VOCS	SVOCS	SVOCS (TCLP)	SVOCS	METALS	<b>GRO/DRO</b>
SUBSURFACE SOIL SAMPLES											
B-1	NS		D&M								
B-2	NS		D&M								
B-3	NS		D&M								
B-4	8 - 9	6/30/1997	D&M								Х
B-5	NS		D&M								
B-6	NS		D&M								
B-7	NS		D&M								
B-8	9.83	6/26/1997	D&M								Х
B-9	NS		D&M								
B-10	NS		D&M								
MWB-14	9.5 - 10	6/26/1997	D&M	Х						Х	X
B-15	9 - 10	6/27/1997	D&M								Х
TP-1	NS		D&M								
TP-2	NS		D&M								
TP-3	NS		D&M								
TP-4	7.5		D&M	Х							
TP-5	NS		D&M								
TP-12	NS		D&M								
TP-13	NS		D&M								
TP-16	NS		D&M								
H-1	NR	########	Н	Х							
H-2	NS		Н								
H-3	NR	########	Н		Х			Х			
H-4	NS		Н								
H-5	NS		Н								
H-6	NS		Н								
H-7	NS		Н								
H-8	NR	########	Н		X			X			
H-9	NS		Н								
H-10	NR	########	Н		X			X			

## TABLE 2-2 (continued) SUMMARY OF PREVIOUS INVESTIGATION SAMPLES COLLECTED 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

			WORK	TCL	STARS	STARS	TCL	STARS	STARS	RCRA	ТРН
LOCATION	DEPTH	DATE	BY	VOCS	VOCS (TCLP)	VOCS	SVOCS	SVOCS (TCLP)	SVOCS	METALS	<b>GRO/DRO</b>
H-11	NS		Н								
H-12	NS		Н								
H-13	NS		Н								
H-14	NS		Н								
H-15	NR	########	Н		Х			Х			
H-16	NS		Н								
H-17	NS		Н								
H-18	NS		Н								
H-19	NR	########	Н		Х			Х			
H-20	NS		Н								
H-21	NS		Н								
H-22	NS		Н								
H-23	NS		Н								
H-24	NR	########	Н		Х			Х			
H-25	NS		Н								
H-26	NR	########	Н		Х			Х			
H-27	NS		Н								
H-28	NS		Н								
HTP-1	NS		Н								
HTP-2	NS		Н								
HTP-3	NS		Н								
					GROUNDWA	FER SAMP	LES				
MWB-14	NA	6/30/1997	D&M	Х			Х			Х	
H-4	NA	########	Н			Х			Х		
H-5	NA	########	Н			Х			Х		
H-13	NA	#########	Н			X			Х		

#### NOTES:

Depths reported in feet below grade

 $\ensuremath{\mathbf{NS}}\xspace = \ensuremath{\mathbf{S}}\xspace$  and the second s

NA = Not applicable

NR = Not recorded

D&M = Dames and Moore, Inc.

H = Hygeia of New York, Inc.

STARS = Spill Technology and Remediation Series

VOCS = Volatile organic compounds

SVOCS = Semivolatile organic compounds

RCRA = Resource Control and Recovery Act

TPH GRO/DRO = Total petroleum hydrocarbons gasoline/diesel range organics



JUL 7, 2005 SEP C:\1909\whitesboro SEP SIR base d



In 1999, a second Phase II ESA was conducted at the site by Hygeia of New York, Inc. Thirteen additional soil borings were advanced and three temporary wells were installed in Area 1. In addition, three test pits were excavated and fifteen soil borings were advanced in Area 2. Locations of soil borings and test pits from this investigation are illustrated in Figure 2-3. A summary of samples collected during the investigation is presented in Table 2-2 and a summary of analytical data is presented in Tables A-1, A-2 and A-3 (Appendix A).

Samples collected from Area 1 confirmed the presence of soil contamination by petroleum related VOCs and semi-volatile organic compounds (SVOCs), and indicated limited groundwater contamination by petroleum related VOCs and SVOCs near the northern property boundary. Groundwater flow is to the north toward the Mohawk River. The Phase II report (Hygeia, 1999) concluded that the detected contamination was the result of a fuel oil release.

Analytical results for soil samples collected from the soil/groundwater interface in Area 2 contained compounds typically found in gasoline. Based on these results, the Phase II report (Hygeia, 1999) concluded that the central portion of Area 2 had been impacted by a gasoline spill.

Based on this existing information, a SI Work Plan was prepared and approved by the City of Utica and NYSDEC under the ERP Program. A detailed description of the activities performed as part of the SI is provided in the following section.

### 3.0 SITE INVESTIGATION

#### **3.1 Geophysical Survey**

On May 19 and 20, 2003, NAEVA Geophysics, Inc. conducted a geophysical survey of the 26-28 Whitesboro Street Site to search for possible underground storage tanks (USTs) that may have existed at the site. The area of the survey was approximately 180 by 380 feet. The equipment utilized included a Geonics EM-61 MK2 electromagnetic metal-detector, a Fisher TW-6 M-Scope hand-held metal detector, and a Sensors and Software Noggin Smart Cart ground penetrating radar (GPR) system with a 500 MHz antenna.

A survey grid of east/west lines was established across the site with a 5-foot spacing. The purpose of the grid was to facilitate a systematic approach to EM data collection and to allow the reacquisition of sample locations. It was expected that the 5-foot line spacing would make it possible to locate buried metallic objects large enough to be USTs, within the depth range of the instrument.

The EM-61 is a high-resolution time-domain metal-detector that is capable of detecting both ferrous and non-ferrous metallic objects. The EM-61 consists of three major parts: a handpulled cart housing a twin transmitter/receiver coil assembly; a backpack containing the battery and processing electronics; and a digital recorder. The EM-61's transmitter generates a pulsed primary magnetic field, which induces eddy currents in nearby metallic objects. The decay of these eddy currents is measured by each of two spatially separated receiver coils. By taking these measurements at a relatively long time after termination of the primary pulse, the response is practically independent of the electrical conductivity of the ground. The coils' responses are recorded by an integrated data logger and displayed as two channel data. The response curves from the receiver coils are typically well-defined positive peaks that allow accurate lateral location of targets.

The Fisher TW-6 is a type of hand-held electromagnetic metal-detector. The instrument consists of a transmitter coil and a receiver coil mounted at opposite ends of a 4-foot horizontal

staff. The transmitter is fixed in a vertical position. The receiver's orientation is then adjusted to the horizontal, exactly perpendicular to the transmitter. When the receiver is in this perpendicular orientation, its response to the transmitter is at a minimum. Metallic objects in the vicinity of the instrument pick up the transmitted signal, and acting as secondary transmitters, cause detectable interference at the receiver. By adjusting the gain of the instrument, as well as its position relative to a buried metallic object, an experienced operator can often obtain information as to the size or shape of the target. The TW-6 was used in a general reconnaissance investigation of the site, including those portions that were inaccessible to the EM-61 (northeast corner and east side of the property covered with heavy vegetation), and as a follow-up tool for EM-61 anomalies.

The GPR method provides a rapid means of non-intrusive data collection. The system is most commonly moved along the surface at a consistent pace as data are collected continuously along profiles. The depth at which a feature can be imaged is largely dependent on subsurface material type (resistive versus conductive). With prior knowledge of expected subsurface materials and clearly defined objectives, an experienced operator can optimize data collection parameters to compensate for less than ideal geologic environments. GPR provides a high resolution, cross-sectional image of the shallow subsurface. A short pulse of electromagnetic energy is radiated downward. When this pulse strikes an interface between layers of material with different electrical properties, part of the wave reflects back, and the remaining energy continues to the next interface. Depth measurements to interfaces are determined from travel time of the reflected pulse and the velocity of the radar signal. The Sensors and Software Noggin Smart Cart system operates at intermediate frequencies, offering good depth penetration and resolution, and is well adapted for delineating features, such as utilities and USTs in cluttered urban environments. The Sensors and Software Noggin Smart Cart system generates real-time images on its display, which are later uploaded to a computer.

The EM-61, operating in the wheel-triggered mode, collected data at approximately 0.7foot intervals along each grid line. The line number, sampling direction and starting location were entered into the instrument at the beginning of each line. A fiducial mark was added to the data every 40 feet along a line, to be used during data processing to correct for terrain induced odometer error. The beginning and ending points of each line were also hand recorded in a field notebook.

The raw data from the digital recorder were transferred to a laptop computer and processed using Geonic's DAT61 software. First, the starting and end points of each line were checked against the written field notebook. The software then automatically adjusted the location for the data between end points and fiducial marks by either compressing or expanding them. The data were converted to a spreadsheet format compatible with Surfer Mapping Software for contouring.

Using the grid coordinates as a guide, significant EM-61 targets were relocated in the field. The area surrounding each EM anomaly was visually inspected for evidence of cultural features that could represent the source of the anomaly. When no obvious surface cultural sources could be identified, the anomalies were investigated using the TW-6 metal-detector in an attempt to identify a source and delineate its approximate surface trace. Anomalies whose surface trace suggested a possible UST were mapped and assigned reference numbers. GPR data profiles were collected along bi-directional traverses centered over the anomalies.

There was no conclusive evidence obtained from the results of the geophysical survey to suggest the presence of USTs at the site. A total of 17 metal-detector anomalies were identified with the EM-61 data contour map and TW-6 follow-up. Most of these detected anomalies were associated with visible cultural sources. The five most significant metal-detector anomalies were marked with wood stakes and white flags, and further investigated with the GPR. GPR data profiles collected over these anomalies showed flat buried objects at a depth range of approximately 1 to 2 feet. These features are probably reinforced concrete and/or metallic construction materials associated with former building structures. No other evidence of USTs was identified within the area investigated. A copy of the geophysical report prepared by NAEVA Geophysics, Inc. is provided in Appendix B.

### 3.2 Radiation Screening Survey

Results of previous investigations indicated that extensive portions of the site are underlain by fill at depths up to 11 feet below ground surface. Since the source and composition of the fill material were unknown, a radiation screening survey was conducted at the property. A Ludlum Model 3 hand-held radiation meter was used to determine radiation levels on-site and a comparison was made to off-site background levels. The radiation survey, which was conducted on June 5, 2003, included Areas 1 and 2, and was conducted along the 50-foot grid system that was established in the field using a tape measure and wooden stakes. There were no radiation readings above background observed at any of the survey points.

#### 3.3 Surface Soil Sampling

Fifteen surface soil samples (0-2 inches below ground surface) were collected from various portions of the site. Seven samples were collected from Area 1 and eight samples were collected from Area 2. In addition, five background surface soil samples were collected from off-site locations.

A grid with 50 foot spacing was established over Area 1 and Area 2. Samples at the grid nodes were screened for VOCs with a photoionization detector (PID). The intent was to collect samples for laboratory analysis from areas of elevated PID measurements, stressed vegetation or discolored soil; however, there was no indication that these conditions existed during the field investigation. Therefore, the samples were collected from locations that provided balanced coverage of the site surface. The surface soil sample locations are presented in Figure 3-1.





LEGEND SITE BOUNDARY

SURFACE SOIL SAMPLE LOCATION SS-5 (BSS = BACKGROUND SURFACE SOIL LOCATION)

100,150 GRID LOCATION (feet north, feet east)



FIGURE 3-1

Eight surface soil samples were collected on June 6, 2003. Seven additional on-site surface soil samples and five off-site background surface soil samples were collected on June 1 and June 2, 2005. Surface soil samples were collected using disposable polyethylene scoops. Each of the eight surface soil samples collected in June 2003 was analyzed at the laboratory for Target Compound List (TCL) SVOCs, TCL pesticides/PCBs, Target Analyte List (TAL) metals and cyanide. Each of the seven on-site and five off-site surface soil samples collected in June 2005 was analyzed at the laboratory for TCL SVOCs and TAL metals. Table 3-1 presents a summary of the samples that were collected during the SI.

#### 3.4 Subsurface Soil Sampling

Subsurface soil samples were collected from ten locations in Area 1 and two locations in Area 2 in June 2003. Additional subsurface soil sampling was conducted in June 2005 and included the collection of samples from eight locations in Area 1 and one location in Area 2. In addition, a subsurface soil sample was collected from one off-site location in June 2005. The subsurface soil sample locations are presented in Figure 3-2. Subsurface soil samples were collected near geophysical anomalies, within the previously identified area of impacted soil, in the eastern and western portions of Area 1 where samples were not previously collected, and at the downgradient property boundary.

Subsurface soil samples were collected on June 5 and 6, 2003 and June 1 and 2, 2005, using a drill rig and direct push sampling technique. Parratt-Wolff, Inc. conducted the soil borings using a truck mounted Ingersoll-Rand A-300 drill rig. Subsurface samples were screened and logged by a D&B geologist. Soil boring logs are presented in Appendix C. At each location, soil samples were collected continuously to the water table. Each sample was screened for VOCs using a PID and geologically logged, including observations of contamination, such as odors or staining, if present. Due to the extensive fill present across the property and its proximity to the Mohawk River, subsurface soil samples were also screened for PID readings, odors, staining, etc. was collected for laboratory analysis. Where no worst-case interval was evident, the interval above the water table was collected for laboratory analysis.

# TABLE 3-1 SUMMARY OF SITE INVESTIGATION SAMPLES COLLECTED 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

LOCATION	ПЕРТИ	DATE	TIME	TCL VOCS	TCL SVOCS	TCL PEST/PCB	TAL METALS	CVANDE
LOCATION	DEI III	DATE		CE SOLL SA	MDLES	I ESI/I CB	METALS	CIANDE
CC 1	0.02	6/6/2002	1250	CE SUIL SA	V NPLES	V	v	v
55-1	0-0.2	0/0/2003	1250		Λ 	X	A V	
<u> </u>	0-0.2	6/6/2003	1255		X	X	X	X
<u>SS-3</u>	0 - 0.2	6/6/2003	1305		X	X	X	X
<u>SS-4</u>	0 - 0.2	6/6/2003	1300		X	X	X	X
<u> </u>	0 - 0.2	6/6/2003	1320		X	X	X	X
SS-6	0 - 0.2	6/6/2003	1325		X	X	X	X
SS-7	0 - 0.2	6/6/2003	1335		X	X	X	X
SS-8	0 - 0.2	6/6/2003	1330		X	X	X	X
SS-9	0 - 0.2	6/1/2005	1705		Х		Х	
SS-10	0 - 0.2	6/1/2005	1655		Х		X	
SS-11	0 - 0.2	6/1/2005	1640		Х		Х	
SS-12	0 - 0.2	6/1/2005	1815		Х		Х	
SS-13	0 - 0.2	6/1/2005	1825		Х		Х	
SS-14	0 - 0.2	6/1/2005	1745		Х		Х	
SS-15	0 - 0.2	6/1/2005	1800		Х		Х	
BSS-1	0 - 0.2	6/2/2005	1220		Х		Х	
BSS-2	0 - 0.2	6/2/2005	1235		Х		Х	
BSS-3	0 - 0.2	6/2/2005	1240		Х		Х	
BSS-4	0 - 0.2	6/2/2005	1250		Х		Х	
BSS-5	0 - 0.2	6/1/2005	1730		Х		Х	
			SUBSUR	FACE SOIL	SAMPLES			
B-1	6 - 8	6/5/2003	1010	Х	Х	X	Х	Х
B-2	6 - 8	6/5/2003	1113	Х	Х	X	Х	Х
B-3	4 - 6	6/6/2003	1135	Х	Х	X	Х	Х
B-4	8 - 10	6/5/2003	1606	Х	Х	X	Х	X
B-5	8 - 10	6/5/2003	1445	Х	Х	Х	Х	Х
B-6	8 - 10	6/6/2003	1047	Х	Х	X	Х	Х
B-7	6 - 8	6/5/2003	1520	Х	Х	X	Х	X
B-8	2 - 4	6/5/2003	1632	Х	Х	X	Х	X
B-9	6 - 8	6/6/2003	0810	Х	Х	X	Х	X
B-10	6 - 8	6/6/2003	0837	Х	Х	X	Х	X
B-11	2 - 4	6/6/2003	0952	Х	Х	X	Х	X
B-12	8 - 10	6/6/2003	0920	Х	Х	X	Х	X
MW-1 / B-13	4 - 6	6/1/2005	1126	Х	Х			
	8 - 10	6/1/2005	1133	X	X			
B-14	6 - 8	6/1/2005	1330	X	X			
	8 - 10	6/1/2005	1332	X	X		<u> </u>	
B-15	2 - 4	6/1/2005	1351	X	X			
2.15	6 - 8	6/1/2005	1359	X	X			
MW-2 / B-16	6 - 8	6/1/2005	1556	X	X			
	8 - 10	6/1/2005	1558	X	X			
B-17	2-4	6/1/2005	1455	X	X			
- 1 /	6-8	6/1/2005	1511	X	X			

## TABLE 3-1 (continued) SUMMARY OF SITE INVESTIGATION SAMPLES COLLECTED 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

				TCL	TCL	TCL	TAL	
LOCATION	DEPTH	DATE	TIME	VOCS	SVOCS	PEST/PCB	METALS	CYANIDE
B-18	4 - 6	6/1/2005	1428	Х	Х			
	8 - 10	6/1/2005	1432	Х	Х			
MW-3	6 - 8	6/2/2005	0945	Х	Х			
MW-4	4 - 6	6/2/2005	0735	Х	Х			
	6 - 8	6/2/2005	0748	Х	Х			
MW-5	NS							
MW-6	6 - 8	6/2/2005	1115	Х	Х			
MW-7	NS							
MW-8	2 - 4	6/1/2005	0940	Х	Х			
	6 - 8	6/1/2005	0949	Х	Х			
	1	1	GROUN	DWATER S	AMPLES	1		
B-1	NA	6/10/2003	0905	Х	Х		Х	
B-2	NA	6/10/2003	0920	Х	Х			
B-3	NA	6/10/2003	0930	Х	Х		Х	
B-4	NA	6/10/2003	1010	Х	Х			
B-5	NA	6/10/2003	1030	Х	Х			
B-6	NA	6/10/2003	1055	Х	Х			
B-7	NA	6/10/2003	1125	Х	Х			
B-8	NA	6/10/2003	1320	Х	Х			
B-9	NA	6/10/2003	1255	Х	Х			
B-10	NA	6/10/2003	1235	Х	Х		Х	
B-11	NA	6/10/2003	1145	Х	Х		Х	
B-12	NA	6/10/2003	1210	Х	Х		Х	
MW-1	NA	6/6/2005	1210	Х			X (T&F)	
MW-2	NA	6/6/2005	1215	Х			X (T&F)	
MW-3	NA	6/6/2005	1230	Х			X (T&F)	
MW-4	NA	6/6/2005	1225	Х			X (T&F)	
MW-5	NA	6/6/2005	1245	Х			X (T&F)	
MW-6	NA	6/6/2005	1250	Х			X (T&F)	
MW-7	NA	6/6/2005	1235	Х			X (T&F)	
MW-8	NA	6/6/2005	1200	Х			X (T&F)	
MW-1	NA	7/5/2006	1325				X (T&F)	
MW-2	NA	7/5/2006	1315				X (T&F)	
MW-3	NA	7/5/2006	1335				X (T&F)	
MW-4	NA	7/5/2006	1300				X (T&F)	
MW-5	NA	7/5/2006	1415				X (T&F)	
MW-6	NA	7/5/2006	1425				X (T&F)	
MW-7	NA	7/5/2006	1405				X (T&F)	
MW-8	NA	7/5/2006	1345				X (T&F)	

### NOTES:

Depths reported in feet below grade

 $\ensuremath{\text{NS}}\xspace = \ensuremath{\text{Sample}}\xspace$  not collected for laboratory analysis from this location

NA = Not applicable

T&F = Both total and filtered samples collected

TCL = Target Compund List

VOCS = Volatile organic compounds

SVOCS = Semivolatile organic compounds

PEST/PCB = Pesticides/polychlorinated biphenyls

TAL = Target Analyte List



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Twelve subsurface soil samples obtained in 2003 were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, TAL metals and cyanide. Seventeen subsurface soil samples from on-site locations and one subsurface soil sample from an off-site location collected in June 2005 were analyzed for TCL VOCs and TCL SVOCs. Table 3-1 presents a summary of the samples that were collected during the SI.

Cuttings generated from the construction of the boreholes were screened visually and with a PID, and did not appear to be contaminated. The cuttings were handled in accordance with <u>NYSDEC TAGM No. 4032</u> "Disposal of Drill Cuttings," dated November 1989. The TAGM allows for on-site disposal of cuttings as long as certain criteria as to location and cover of cuttings are met.

### 3.5 Groundwater Characterization

Groundwater characteristics at the 26-28 Whitesboro Street Site were assessed using several techniques. These included observations of soil characteristics during drilling, installation of groundwater monitoring wells, groundwater sampling and measurement of water level depths to determine groundwater elevations and flow direction. Groundwater monitoring well locations are illustrated on Figure 3-2.

Temporary groundwater monitoring wells were installed at each of the 12 subsurface soil boring locations advanced in June 2003 subsequent to drilling to the desired completion depth. Soil borings were advanced to a depth approximately 5 feet below the water table, and the soil sampling tools were removed from the borehole and replaced with temporary, 1-inch diameter schedule 40 PVC well screen and riser. The boreholes were allowed to collapse around the PVC well materials and a flush mount curb box was installed to protect the temporary wells. At the completion of the project, the curb boxes and temporary wells will be removed, and the boreholes filled with bentonite.



Permanent groundwater monitoring wells were installed at eight locations advanced in June 2005. Soil borings were advanced to a depth approximately 5 feet below the water table, and the soil sampling tools were removed from the borehole. Permanent wells were constructed with 2-inch diameter Schedule 40 PVC well screen and riser. Well screens were installed at the bottom of the boreholes. Sand pack was placed in the annulus between the borehole wall and the well screen extending from the well bottom to at least 1 foot above the top of the screen and at least 2 feet of bentonite seal was placed above the sand pack. Lockable expansion caps were installed on the well riser pipes and flush-mount protective steel casings were installed in concrete surface pads. Well construction logs are presented in Appendix C.

Permanent groundwater monitoring wells were initially developed on June 6, 2005 by surging and evacuating groundwater using dedicated bailers. Water was not removed from the wells until at least one day after well completion to allow the grout and concrete surface seals to cure, thereby minimizing the potential for surface water to enter the screened zone. Permanent groundwater monitoring wells were redeveloped on July 5, 2006 using a surge-block and evacuating groundwater using dedicated bailers. Well development logs are presented in Appendix C.

Groundwater levels in the temporary and permanent monitoring wells were measured prior to groundwater sampling events. Water level measurements were made from a measuring point on the top of the PVC well casing. A Wild Heerbrugg Model NA24 "auto-level" and graduated stadia rod was utilized to determine the relative elevations of the wells. Relative elevation measurements included a fixed, permanent on-site datum (electrical manhole cover MH-2 at the south-southeast portion of Area 1) and the relative elevation of the top of PVC at each well location relative to the datum. Elevation measurements were made to the nearest 0.01 feet. Groundwater level data was used to construct a water table surface map and to determine the local horizontal groundwater flow direction.

The first occurrence of groundwater or saturated conditions is in the overburden layer above bedrock. Water level monitoring of the wells indicates that the depth of groundwater averages 9.7 feet below ground surface with a range of 6.9 feet below ground surface to 11.2 feet below ground surface. Groundwater elevations for the site monitoring wells is presented in Table 3-2. Precipitation falling on the site flows to the perimeter ditches or infiltrates downward through the unconsolidated materials. Shallow groundwater that originates at the site flows off-site in a northwest and northeast direction. Figures 3-4, 3-5, 3-6 and 3-7 depict the water table surface for the site on June 10, 2003, September 11, 2003, June 6, 2005 and July 5, 2006, respectively.

Groundwater samples were collected from each of the ten temporary wells in Area 1 of the site and the two temporary wells in Area 2 on June 10, 2003. The wells were purged prior to sampling using an inertia-lift pump with dedicated, disposable polyethylene tubing and stainless steel foot valve. Each of the wells was purged of at least three well volumes prior to collecting groundwater samples. Groundwater samples were collected using the inertia-lift pump with polyethylene tubing and stainless steel foot valves. The groundwater samples were transferred directly from the tubing to the appropriate sample containers.

Groundwater samples were collected from each of the eight permanent wells on June 6, 2005 and July 5, 2006. The wells were purged prior to sampling using dedicated, disposable polyethylene bailers. Each of the wells was purged of at least three well volumes prior to collecting groundwater samples. Groundwater samples were collected using the bailers and transferred directly from the bailers to the appropriate sample containers.

Groundwater samples from each of the temporary wells in June 2003 were analyzed for TCL VOCs and TCL SVOCs. Groundwater samples from three temporary wells within Area 1 (B-1, B-3 and B-10) and two temporary wells within Area 2 (B-11 and B-12) collected in June 2003 were also analyzed for TAL metals. Groundwater samples collected from the permanent wells in June 2005 were analyzed for TCL VOCs and TAL metals (both filtered and unfiltered). Groundwater samples collected from the permanent wells in July 2006 were analyzed for TAL metals (both filtered and unfiltered). Table 3-1 presents a summary of the samples that were collected during the SI.

# TABLE 3-2 WATER LEVEL MEASUREMENT SUMMARY 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

	REFERENCE	TOP OF	BOTTOM				DA	TE			
	ELEVATION	SCREEN	OF SCREEN	6/10/	/2003	9/11/	/2003	6/6/2	2005	7/5/	2006
WELL	(ft*)	(ft BG)	(ft BG)	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
B-1	103.17	2.0	12.0	8.34	94.83	8.81	94.36	8.71	94.46	NM	NM
B-2	104.31	6.0	16.0	9.38	94.93	9.95	94.36	9.84	94.47	NM	NM
B-3	104.24	4.0	14.0	9.02	95.22	9.85	94.39	9.63	94.61	NM	NM
B-4	104.59	4.0	14.0	9.56	95.03	10.09	94.50	9.97	94.62	NM	NM
B-5	105.37	4.0	14.0	10.10	95.27	10.80	94.57	NM	NM	NM	NM
B-6	106.03	4.0	14.0	10.62	95.41	11.39	94.64	11.21	94.82	NM	NM
B-7	105.60	4.0	14.0	10.07	95.53	10.81	94.79	10.65	94.95	NM	NM
B-8	105.61	4.0	14.0	9.80	95.81	10.59	95.02	NM	NM	NM	NM
B-9	105.93	4.0	14.0	10.12	95.81	10.88	95.05	10.60	95.33	NM	NM
B-10	106.15	4.0	14.0	10.37	95.78	11.17	94.98	11.01	95.14	NM	NM
B-11	103.59	4.0	14.0	9.28	94.31	9.81	93.78	9.74	93.85	NM	NM
B-12	104.19	4.0	14.0	8.55	95.64	9.44	94.75	9.15	95.04	NM	NM
MW-1	105.24	4.0	14.0	NI	NI	NI	NI	10.41	94.83	8.57	96.67
MW-2	104.00	4.0	14.0	NI	NI	NI	NI	9.30	94.70	7.87	96.13
MW-3	103.15	4.0	14.0	NI	NI	NI	NI	8.57	94.58	7.11	96.04
MW-4	104.13	4.0	14.0	NI	NI	NI	NI	9.76	94.37	8.29	95.84
MW-5	100.48	4.0	14.0	NI	NI	NI	NI	6.46	94.02	6.92	93.56
MW-6	100.84	4.0	14.0	NI	NI	NI	NI	6.63	94.21	4.85	95.99
MW-7	102.29	4.0	14.0	NI	NI	NI	NI	7.70	94.59	6.05	96.24
MW-8	102.50	4.0	14.0	NI	NI	NI	NI	8.58	93.92	6.63	95.87

NOTES:

 $ft^*$  = elevations in feet relative to elevation of 105.96 feet at manhole MH-2

ft BG = feet below grade

DTW = depth to water in feet below measuring point on top of well casing

ELEV = groundwater elevation in feet

NI = well not installed

NM = not measured, well damaged or not located

FIGURE 3-4 GROUNDWATER CONTOUR MAP - JUNE 10, 2003 26-28 WHITESBORO STREET SITE UTICA, NEW YORK



FIGURE 3-5 GROUNDWATER CONTOUR MAP - SEPTEMBER 11, 2003 26-28 WHITESBORO STREET SITE UTICA, NEW YORK



FIGURE 3-6 GROUNDWATER CONTOUR MAP - JUNE 6, 2005 26-28 WHITESBORO STREET SITE UTICA, NEW YORK





NOTES

- contour interval = 0.2 feet
- elevations are relative to elevation of 105.96 feet
at manhole MH-2 located at the south side of the site

#### 3.6 Quality Assurance/Quality Control

A site-specific Quality Assurance/Quality Control Plan (QA/QC) was developed for the site and is included in the NYSDEC-approved SI/RAR Work Plan, dated June 2002. Work performed during the field investigation was performed in accordance with procedures described in the QA/QC Plan. The QA/QC Plan was designed to maximize the quality and validity of the data collected during the field investigation. The QA/QC Plan describes detailed sampling and analytical procedures, as well as necessary QA/QC sampling and analyses for each sampling matrix investigated. Adherence to QA/QC protocols allows for data validation and usability analyses. In accordance with the QA/QC plan, chain of custody forms and sample information records were completed for each sample collected and are presented along with shipping records in Appendix D.

### 3.7 Analytical Methodology

All laboratory sample analyses were performed in accordance with NYSDEC 6/00 Analytical Services Protocol (ASP) requirements by Mitkem Corporation, Inc., a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) laboratory certified in all categories of Contract Laboratory Protocol (CLP) and Solid and Hazardous Waste analytical testing. Data Usability Summary Reports were prepared and are included in Section 4.5. Category B deliverables were provided by the laboratory and have been retained in the project files, and are available for full data validation by a qualified independent third party, if required.

#### 3.8 Health and Safety

A site-specific Health and Safety Plan (HASP) was prepared for the work conducted for this investigation. The HASP was prepared in accordance with the requirements of the Occupational Safety and Health Administration (OSHA) to provide site-specific health and safety information, and provide for worker and community protection. The Health and Safety Plan is contained in the NYSDEC-approved Work Plan dated June 2002. Activities conducted as part of the field investigation were conducted in accordance with the HASP.
# 4.0 NATURE AND EXTENT OF CONTAMINATION

The purpose of this section is to discuss the results of the site sampling program conducted at the 26-28 Whitesboro Street Site. The sample analytical results are compared to standards, criteria and guidance (SCGs) selected for the site to determine potential impacts on human health and the environment. The nature and extent of contamination found at, and in the vicinity of the site during the field investigation is described below.

# 4.1 Identification of Standards, Criteria and Guidelines

This section provides a presentation of the SCGs, which were used as screening values to determine the significance of the analytical results and contamination found at the site. Exceedance of the SCGs does not necessarily imply that remediation is required, but rather identifies the contaminants and media of potential concern, as well as areas of the site that will require further evaluation as part of the risk assessment.

4.1.1 <u>Soil</u>

Screening levels for the surface and subsurface soil analytical results are based on the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, "Determination of Soil Cleanup Objectives and Cleanup Levels", dated January 1994. TAGM 4046 values were developed based on human health criteria and are not necessarily protective of wildlife exposed to soils at the site.

#### 4.1.2 Groundwater

The screening levels for the groundwater analytical results were obtained from the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values", dated June 1998. Analytical results obtained for groundwater samples are compared to Class GA groundwater standards and guidance values.

# 4.2 Surface Soil Sample Results

A total of twenty surface soil samples were collected in association with the site during this investigation. Fifteen surface soil samples from the site were evaluated by laboratory analyses for TCL SVOCs and TAL metals. Eight surface soil samples from the site were evaluated by laboratory analyses for TCL pesticides, TCL PCBs and cyanide. Five background surface soil samples collected from off-site locations were evaluated by laboratory analyses for TCL SVOCs and TAL metals. Figure 4-1 summarizes exceedances of SCGs in surface soil based on laboratory data. SVOC exceedances illustrated in Figure 4-1 are based on a comparison to SVOC concentrations in off-site background surface soil samples.

Eleven SVOCs were detected above SCGs in the surface soil samples that were collected from the site. The SVOC results for surface soil samples are presented in Appendix E, Tables 1a and 2a. Table 4-1 presents a summary of SVOC detections, exceedances, and minimum, mean and maximum concentrations for the surface soil samples. The SCG for benzo (a) anthracene  $(224 \mu g/kg)$  was exceeded in fourteen of the fifteen samples at concentrations ranging from 700  $\mu g/kg$  (SS-4) to 79,000  $\mu g/kg$  (SS-3). The SCG for benzo (b) fluoranthene (1,100  $\mu g/kg$ ) was exceeded in fourteen of the fifteen samples at concentrations ranging from 1,200 µg/kg (SS-4) to 110,000 µg/kg (SS-3). The SCG for benzo (k) fluoranthene (1,100 µg/kg) was exceeded in seven of the fifteen samples at concentrations ranging from 1,400 µg/kg (SS-9) to 33,000 µg/kg (SS-3). The SCG for benzo (a) pyrene (61  $\mu$ g/kg) was exceeded in each of the fifteen samples at concentrations ranging from 150 µg/kg (SS-2) to 76,000 µg/kg (SS-3). The SCG for chrysene (400 µg/kg) was exceeded in fourteen of the fifteen samples at concentrations ranging from 760  $\mu g/kg$  (SS-4) to 75,000  $\mu g/kg$  (SS-3). The SCG for dibenzo (a,h) anthracene (14  $\mu g/kg$ ) was exceeded in fourteen of the fifteen samples at concentrations ranging from 73 µg/kg (SS-8) to 1,400  $\mu$ g/kg (SS-3). The SCG for fluoranthene (50,000  $\mu$ g/kg) was exceeded in one surface soil sample (SS-3) at a concentration of 200,000 µg/kg. The SCG for indeno (1,2,3-cd) pyrene (3,200 µg/kg) was exceeded in two of the fifteen samples at concentrations of 38,000 µg/kg (SS-3) and 4,400 µg/kg (SS-11). The SCG for phenanthrene (50,000 µg/kg) was exceeded in one of the fifteen samples at a concentration of 100,000 µg/kg (SS-3). The SCG for phenol



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#### LEGEND

SURFACE SOIL SAMPLE LOCATION SS-5 (BSS = BACKGROUND SURFACE SOIL LOCATION) SITE BOUNDARY

ABBREV.	ANALYTE	SCG	UNITS
phenol	phenol	30	ug/kg
phenanthrene	phenanthrene	50,000	ug/kg
fluoranthrene	fluoranthrene	50,000	uq/kq
pyrene	pyrene	50,000	ug/kg
bnz(a)anth	benzo(a)anthracene	224	ug/kg
chrysene	chrysene	400	uq/kq
bnz(b)fluor	benzo(b)fluoranthene	1,100	úq∕kq
bnz(k)fluor	benzo(k)fluoranthene	1,100.	ua/ka
bnz(a)pyr	benzo(a)pyrene	61	ug/kg
indeno	indeno(1,2,3-c,d)pyrene	3,200	uq/kq
dbnzo(a,h)	dibenzo(a,h)onthracene	14	ug/kg
aluminum	aluminum	SB (6,620)	mq/kq
beryllium	beryllium	0.16/SB (0.36)	mg/kg
codmium	codmium	1/SB (13)	mg/kg
colcium	calcium	SB (73,100)	mg/kg
chromium	chromium	10/SB (13)	mg/kg
copper	copper	25/SB (129)	mg/kg
iron	iron	2,000/SB (22,200)	mg/kg
lead	lead	SB (173)	mg/kg
magnesium	magnesium	SB (4,460)	mg/kg
mangonese	manganese	SB (712)	mg/kg
mercury	mercury	0.1	mg/kg
nickel	nickel	13/SB (17.8)	mg/kg
potassium	potossium	SB (788)	mg/kg
sodium	sodium	SB (78.4)	mg/kg
thallium	thallium	SB (0.69)	mg/kg
zinc	zinc	20/SB (145)	ma /ka

SVOC exceedances based on exceedance of TAGM 4046 and background sample data

J = estimated concentration

SAMPLE ID--DATE SAMPLED CONCENTRATION ANALYTE organics (ug/kg) inorganics (mg/kg)

> 25' 50' 75 TRANSFER DUCK SCALE: 1"=50"

S-12	6/1/05
)Cs	NE
1 . ·	980
rcury	8.9
	162

Curb Curb

1	6/6/03	
	5,200	1
	5,600	
۰.	9,700	
	3,200	ŀ.
	6,700	
۰.	12.7	Ľ.
e	857	
n'	4,710	ŕ.
e .'	757	ъ
	0.59	4
	18.0	
	1,220	÷
	187	
	212	

FIGURE 4-1

# TABLE 4-1 SUMMARY OF SVOC DATA FOR SURFACE SOIL 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

	Recommended		SITE SURFACE SOIL DATA						BACKGROUND SURFACE SOIL DATA					
	Soil Clean-Up			15 soil s	amples				5 soil samples					
	Objective*	number	excee	dances	min	mean	max	number	exceed	dances	min	mean	max	
Analyte	(ug/kg)	of detects	number	percent	(ug/kg)	(ug/kg)	(ug/kg)	of detects	number	percent	(ug/kg)	(ug/kg)	(ug/kg)	
Phenol	30 OR MDL	2	2	13	120	240	360	1	1	20	40	40	40	
Phenanthrene	50,000	15	1	7	82	10,395	100,000	5	0	0	190	1,350	3,000	
Fluoranthene	50,000	15	1	7	270	19,698	200,000	5	0	0	420	2,588	5,900	
Pyrene	50,000	15	1	7	240	17,109	170,000	5	0	0	370	2,818	8,100	
Benzo (a) anthracene	224 OR MDL	15	14	93	160	8,237	79,000	5	5	100	250	1,462	4,200	
Chrysene	400	15	14	93	160	7,651	75,000	5	4	80	280	1,664	5,100	
Benzo(b)fluoranthene	1,100	15	14	93	260	11,611	110,000	5	3	60	320	2,232	6,800	
Benzo(k)fluoranthene	1,100	15	7	47	81	3,893	33,000	5	1	20	180	964	2,800	
Benzo(a)pyrene	61 OR MDL	15	15	100	150	7,794	76,000	5	5	100	250	1,234	3,400	
Indeno(1,2,3-cd)pyrene	3,200	15	2	13	85	3,361	38,000	5	0	0	160	376	910	
Dibenzo(a,h)anthracene	14 OR MDL	14	14	93	73	370	1,400	4	4	80	53	139	320	
Total Carcinogen PAHs	10,000	15	7	47	903	42,892	412,400	5	1	20	1,440	8,043	23,530	
Total SVOCs	500,000	15	1	7	1,705	99,533	975,620	5	0	0	2,695	16,491	43,599	

Notes:

\*: as per January 24, 1994 NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels.

- only those analytes that exceeded Recommended Soil Cleanup Objectives are included.

(30  $\mu$ g/kg) was exceeded in two of the fifteen samples at concentrations of 120  $\mu$ g/kg (SS-10) and 360  $\mu$ g/kg (SS-11). The SCG for pyrene (50,000  $\mu$ g/kg) was exceeded in one surface soil sample (SS-3) at a concentration of 170,000  $\mu$ g/kg.

Seven SVOCs were detected above SCGs in the background surface soil samples that were collected from off-site locations. The SCG for benzo (a) anthracene (224  $\mu$ g/kg) was exceeded in each the five background samples at concentrations ranging from 250  $\mu$ g/kg (BSS-1) to 4,200  $\mu$ g/kg (BSS-5). The SCG for benzo (b) fluoranthene (1,100  $\mu$ g/kg) was exceeded in three of the five background samples at concentrations ranging from 1,200  $\mu$ g/kg (BSS-3) to 6,800  $\mu$ g/kg (BSS-5). The SCG for benzo (k) fluoranthene (1,100  $\mu$ g/kg) was exceeded in one background sample at a concentration of 2,800  $\mu$ g/kg (BSS-5). The SCG for benzo (a) pyrene (61  $\mu$ g/kg) was exceeded in each of the five background samples at concentrations ranging from 250  $\mu$ g/kg (BSS-1) to 3,400  $\mu$ g/kg (BSS-5). The SCG for chrysene (400  $\mu$ g/kg) was exceeded in four of the five background samples at concentrations ranging from 460  $\mu$ g/kg (BSS-2) to 5,100  $\mu$ g/kg (BSS-5). The SCG for dibenzo (a,h) anthracene (14  $\mu$ g/kg) was exceeded in four of the five background samples at concentrations ranging from 53  $\mu$ g/kg (BSS-2) to 320  $\mu$ g/kg (BSS-5). The SCG for phenol (30  $\mu$ g/kg) was exceeded in one background soil sample (BSS-5) at a concentration of 40  $\mu$ g/kg.

There were no pesticides, PCBs or cyanide detected above SCGs in the June 2003 surface soil samples. The pesticide, PCB and cyanide results are presented in Appendix E, Tables 1b and 1c.

SCGs were exceeded in metals analyses for aluminum, beryllium, cadmium, calcium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, sodium, thallium and zinc in at least one of the fifteen soil samples that were collected and analyzed during the June 2003 and June 2005 sampling events. The metal results are presented in Appendix E, Tables 1c and 2b. The SCGs provided in TAGM 4046 for several of the inorganic analytes (e.g., aluminum, beryllium, cadmium, calcium, chromium, copper, iron, magnesium, manganese, nickel, potassium, sodium, thallium and zinc) are either specific values or site

background values. Five background surface soil samples were collected from off-site locations and analytical data from those samples was utilized to evaluate the data. Table 4-2 presents a summary of metals detections, exceedances, and minimum, mean and maximum concentrations for the surface soil samples.

Aluminum was detected above the SCG (6,620 mg/kg) in four of the samples at concentrations ranging from 7,840 mg/kg (SS-4) to 8,570 mg/kg (SS-1). Beryllium was detected above the SCG (0.36 mg/kg) in three of the samples at concentrations ranging from 0.38 mg/kg (SS-1 and SS-4) to 0.42 mg/kg (SS-5). Cadmium was detected above the SCG (1.3 mg/kg) in one sample at a concentration of 1.4 mg/kg (SS-3). Calcium was detected above the SCG (73,100 mg/kg) in one sample at a concentration of 152,000 mg/kg (SS-3). Chromium was detected above the SCG (11.7 mg/kg) in six of the samples at concentrations ranging from 12.4 mg/kg (SS-5) to 18.0 mg/kg (SS-6). Copper was detected above the SCG (129 mg/kg) in three of the samples at concentrations ranging from 137 mg/kg (SS-6) to 397 mg/kg (SS-9). Iron was detected above the SCG (22,200 mg/kg) in one sample at a concentration of 25,600 mg/kg (SS-6). Lead was detected above the SCG (173 mg/kg) in eight of the samples at concentrations ranging from 176 mg/kg (SS-10) to 1,290 mg/kg (SS-13). Magnesium was detected above the SCG (4,460 mg/kg) in seven of the samples at concentrations ranging from 4,710 mg/kg (SS-8) to 10,700 mg/kg (SS-2). Manganese was detected above the SCG (712 mg/kg) in one sample at a concentration of 757 mg/kg (SS-8). Mercury was detected above the SCG (0.1 mg/kg) in eleven of the samples at concentrations ranging from 0.11 mg/kg (SS-11) to 8.9 mg/kg (SS-12). Nickel was detected above the SCG (17.8 mg/kg) in eight of the samples at concentrations ranging from 18.0 mg/kg (SS-8) to 39.9 mg/kg (SS-3). Potassium was detected above the SCG (788 mg/kg) in seven of the samples at concentrations ranging from 1,080 mg/kg (SS-6) to 1,980 mg/kg (SS-5). Sodium was detected above the SCG (78.4 mg/kg) in thirteen of the samples at concentrations ranging from 90.1 mg/kg (SS-11) to 227 mg/kg (SS-6). Thallium was detected above the SCG (0.69 mg/kg) in four of the samples at concentrations ranging from 0.84 mg/kg (SS-15) to 1.3 mg/kg (SS-13). Zinc was detected above the SCG (145 mg/kg) in eight of the samples at concentrations ranging from 162 mg/kg (SS-12) to 315 mg/kg (SS-3).

# TABLE 4-2 SUMMARY OF METALS DATA FOR SURFACE SOIL 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

	Recommended		S	SITE SURFA	CE SOIL DA	ТА		BACKGROUND SURFACE SOIL DATA			
	Soil Clean-Up			15 soi	samples				5 soil s	amples	
	Objective*	number	exceed	dances	min	max	aver	number	min	max	aver
	(mg/kg)	of detects	number	percent	(mg/kg)	(mg/kg)	(mg/kg)	of detects	(mg/kg)	(mg/kg)	(mg/kg)
Aluminum	SB (6,620)	15	4	27	1,650	8,570	5,407	5	1,760	6,620	4,072
Antimony	SB (1.5)	6	0	0	0.073	0.61	0.28	4	0.097	1.5	0.48
Arsenic	7.5 or SB (18)	15	0	0	2.0	9.3	5.5	5	2.1	18	7.8
Barium	300 or SB (82.8)	15	0	0	39.6	288	139.3	5	16.5	82.8	49.4
Beryllium	0.16 or SB (0.36)	15	3	20	0.08	0.42	0.27	5	0.097	0.36	0.227
Cadmium	1 or SB (1.3)	9	1	7	0.16	1.4	0.72	5	0.19	1.3	0.558
Calcium	SB (73,100)	15	1	7	18,100	152,000	42,907	5	2,870	73,100	24,174
Chromium	10 or SB (11.7)	15	6	40	4.5	18.0	10.6	5	4	11.7	7.4
Cobalt	30 or SB (6.4)	15	0	0	1.5	8.0	5.1	5	1.5	6.4	3.9
Copper	25 or SB (129)	15	3	20	9.1	397	72.8	5	10.1	129	48.0
Iron	2,000 or SB (22,200)	15	1	7	3,990	25,600	13,517	5	4,740	22,200	11,944
Lead	SB (173)	15	8	53	11.2	1,290	392	5	52.1	173	93.4
Magnesium	SB (4,460)	15	7	47	1,240	10,700	4,824	5	961	4,460	2,396
Manganese	SB (712)	15	1	7	116	757	399	5	107	712	373
Mercury	0.1	13	11	73	0.063	8.9	1.02	5	0.068	0.39	0.18
Nickel	13 or SB (17.8)	15	8	53	4.4	39.9	18.24	5	5	17.8	11.3
Potassium	SB (788)	15	7	47	294	1,980	983	5	236	788	459
Selenium	2 or SB (0.32)	8	0	0	0.21	0.96	0.59	1	0.32	0.32	0.3
Silver	SB (0.036)	0	0	0	ND	ND	ND	1	0.036	0.036	0.036
Sodium	SB (78.4)	15	13	87	53.3	227	140	5	33.1	78.4	58
Thallium	SB (0.69)	6	4	27	0.19	1.3	0.80	2	0.65	0.69	0.67
Vanadium	150 or SB (15.6)	15	0	0	5.8	21.9	15.4	5	4.9	15.6	10.9
Zinc	20 or SB (145)	15	8	53	42.7	315	156	5	40.5	145	80

#### Notes:

\*: as per January 24, 1994 NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels.

## 4.3 Subsurface Soil Sample Results

Thirty subsurface soil samples were evaluated by laboratory analyses for TCL VOCs and TCL SVOCs. Twelve subsurface soil samples were evaluated by laboratory analyses for TCL pesticides, TCL PCBs, TAL metals and cyanide. Figure 4-2 summarizes exceedances of SCGs in surface soil for VOCs and SVOCs based on laboratory data from the SI and previous investigations. Figure 4-3 summarizes exceedances of metals based on laboratory data.

Two VOCs were detected above SCGs in one of the twenty-nine subsurface soil samples that were collected from on-site locations. The VOC results for subsurface soil samples are presented in Appendix E, Tables 3a and 4a. The SCG for trichloroethene (700  $\mu$ g/kg) was exceeded in one sample at a concentration of 5,700  $\mu$ g/kg (B-18). The SCG for vinyl chloride (200  $\mu$ g/kg) was exceeded in one sample at a concentration of 260  $\mu$ g/kg (B-18).

One VOC was detected above SCGs in one subsurface soil sample that was collected from an off-site location. The SCG for naphthalene (13,00  $\mu$ g/kg) was exceeded in one sample from an off-site location at a concentration of 56,000  $\mu$ g/kg (MW-6).

Seventeen SVOCs were detected above SCGs in the subsurface soil samples that were collected from the site. The SVOC results for subsurface soil samples are presented in Appendix E, Tables 3b and 4b. Table 4-3 presents a summary of SVOC detections, exceedances, and minimum, mean and maximum concentrations for the subsurface soil samples. The SCG for anthracene (50,000  $\mu$ g/kg) was exceeded in one sample at a concentration of 120,000  $\mu$ g/kg (B-14). The SCG for benzo (a) anthracene (224  $\mu$ g/kg) was exceeded in fifteen samples at concentrations ranging from 240  $\mu$ g/kg (B-12) to 200,000  $\mu$ g/kg (B-14). The SCG for benzo (b) fluoranthene (1,100  $\mu$ g/kg) was exceeded in nine samples at concentrations ranging from 1,200  $\mu$ g/kg (B-15) to 150,000  $\mu$ g/kg (MW-6). The SCG for benzo (k) fluoranthene (1,100  $\mu$ g/kg) was exceeded in nine samples at concentrations ranging from 1,200  $\mu$ g/kg (MW-6). The SCG for benzo (a) pyrene (61  $\mu$ g/kg) was exceeded in nine teen samples at concentrations ranging from 71  $\mu$ g/kg (B-4) to 130,000  $\mu$ g/kg (MW-6). The SCG for benzo



FIGURE 4-2

LITTER . ABBREV. ANALYTE SCG UNITS acetone acetone 200 ug/kg U t-1,2-dce trans-1,2-dichloroethene 300 ug/kg RA vinyl chloride vinyl chloride 200 ug/kg tce trichloroethen 700 ug/kg phenol 30 ug/kg phenol 100 ug/kg 2-mthylphen 2-methylphene 900 ug/kg 4-mthylphen 4-methylphenol 5 naphthalene naphthalene 13,000 ug/kg bnz(a)anth benzo(o)anthracene 224 ug/kg 400 ug/kg chrysene chrysene benzo(b)fluoranthene 1,100 ug/kg  $\gtrsim$ bnz(b)fluor bnz(k)fluor benzo(k)fluoranthene 1,100 ug/kg bnz(a)pyr benzo(a)pyrene 61 ug/kg dbnzo(a,h) dibenzo(a,h)anthracene 14 ug/kg dibenzofuran dibenzofuran 6,200 ug/kg phenanthrene phenanthrene 50,000 ug/kg 50,000 ug/kg anthrocene anthrocene fluoranthene fluoranthene 50,000 ug/kg 50,000 ug/kg pyrene pyrene indeno(1,2,3-c,d)pyrene 3,200 ug/kg indeno 50,000 ug/kg bnz(g,h,i)per benzo(g,h,i)perylene J = estimated concentration VOCs = volatile orgaine compounds SVOCs = semivolatile organic compounds NE ≠ no exceedances TCLP = toxicity characteristic leaching procedure SAMPLE ID--DEPTH SAMPLED CONCENTRATION ANALYTE organics (ug/kg) TCLP (ug/l) SCALF: 1"=50

North

N

H-4 (H = HYGEIA 1999, MWB = DAMES & MOORE 1997)

BORING LOCATION- PREVIOUS H-6 (H = HYGEIA 1999, B = DAMES & MOORE 1997)

LEGEND SITE BOUNDARY BORING LOCATION- D&B 2003 . WELL LOCATION- PREVIOUS



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A Division of William F. Cosulich Associates, P.C.

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SITE BOUNDARY

BORING LOCATION- D&B 2003 B~5

♦ WELL LOCATION- PREVIOUS H-4 (H = HYGEIA 1999, MWB = DAMES & MOORE 1997)

BORING LOCATION- PREVIOUS

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1~-6:(H	=	HYGEIA	1999, B	=	DAMES	80	MOORE	1997

ABBREV,	ANALYTE	SCG	UNITS
aluminum	aluminum	SB (6,620)	mg/kg
antimony	antimony	SB (1.5)	mg/kg
barium	barium	300/SB(82.8)	mg/kg
beryllium	beryllium	0.16/SB(0.36)	mg/kg
codmium	cadmium	1/SB(1.3)	mg/kg
chromium	chromium	10/SB(11.7)	mg/kg
copper	copper	25/SB(129)	mg/kg
iron	iron	2.000/SB(22,200)	mg/kg
lead	lead	SB (173)	mg/kg
magnesium	magnesium	SB (4,460)	mg/kg
mongonese	manganese	SB (712)	mg/kg
mercury	mercury	0.1	mg/kg
nickel	nickel	13/SB(17.8)	mg/kg
potassium	potassium	SB (788)	mg/kg
selenium	selenium	2/SB(0.32)	mg/kg
sodium	sodium	SB (78.4)	mg/kg
zinc	zinc	20/SB	mg/kg





# TABLE 4-3 SUMMARY OF SVOC DATA FOR SUBSURFACE SOIL 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

	Recommended	SITE SUBSURFACE SOIL DATA										
	Soil Clean-Up			30 soil s	samples							
	Objective*	number	exceed	dances	min	mean	max					
Analyte	(ug/kg)	of detects	number	percent	(ug/kg)	(ug/kg)	(ug/kg)					
Phenol	30 OR MDL	2	2	7	1,700	1,750	1,800					
2-Methylphenol	100 OR MDL	1	1	3	1,300	1,300	1,300					
4-Methylphenol	900	4	1	3	46	874	3,300					
Naphthalene	13,000	11	1	3	50	5,978	61,000					
Dibenzofuran	6,200	13	1	3	61	3,110	36,000					
Phenanthrene	50,000	22	1	3	45	21,735	410,000					
Anthracene	50,000	15	1	3	53	8,863	120,000					
Fluoranthene	50,000	23	1	3	57	24,039	470,000					
Pyrene	50,000	23	1	3	45	21,861	430,000					
Benzo (a) anthracene	224 OR MDL	22	15	50	58	10,768	200,000					
Chrysene	400	22	14	47	57	11,170	210,000					
Benzo(b)fluoranthene	1,100	22	9	30	54	8,816	150,000					
Benzo(k)fluoranthene	1,100	22	5	17	28	4,981	91,000					
Benzo(a)pyrene	61 OR MDL	22	19	63	44	7,283	130,000					
Indeno(1,2,3-cd)pyrene	3,200	19	2	7	41	3,648	59,000					
Dibenzo(a,h)anthracene	14 OR MDL	13	13	43	54	1,400	15,000					
Benzo(g,h,i)perylene	50,000	19	1	3	46	4,159	69,000					
Total Carcinogen PAHs	10,000	30	6	20	0	34,463	855,000					
Total SVOCs	500,000	30	1	3	45	103,737	2,636,400					

Notes:

\*: as per January 24, 1994 NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels.

- only those analytes that exceeded Recommended Soil Cleanup Objectives are included.

(g,h,i) perylene (50,000 µg/kg) was exceeded in one sample at a concentration of 69,000 µg/kg (MW-6). The SCG for chrysene (400 µg/kg) was exceeded in fourteen samples at concentrations ranging from 460 µg/kg (B-14) to 210,000 µg/kg (MW-6). The SCG for dibenzo (a,h) anthracene (14 µg/kg) was exceeded in thirteen samples at concentrations ranging from 47 µg/kg (B-15) to 15,000  $\mu$ g/kg (MW-6). The SCG for dibenzofuran (6,200  $\mu$ g/kg) was exceeded in one sample at a concentration of 36,000 µg/kg (MW-6). The SCG for fluoranthene (50,000 µg/kg) was exceeded in one sample at a concentration of  $470,000 \,\mu$ g/kg (MW-6). The SCG for indeno (1,2,3-cd) pyrene  $(3,200 \ \mu g/kg)$  was exceeded in two samples at concentrations ranging from 4,300  $\mu$ g/kg (B-17) to 59,000  $\mu$ g/kg (MW-6). The SCG for 2-methylphenol (100  $\mu$ g/kg) was exceeded in one sample at a concentration of 1,300 µg/kg (MW-6). The SCG for 4methylphenol (900  $\mu$ g/kg) was exceeded in one sample at a concentration of 3,300  $\mu$ g/kg (MW-6). The SCG for naphthalene (13,000  $\mu$ g/kg) was exceeded in one sample at a concentration of 61,000  $\mu$ g/kg (MW-6). The SCG for phenanthrene (1,000  $\mu$ g/kg) was exceeded in one sample at a concentration of 410,000 µg/kg (MW-6). The SCG for phenol (30 µg/kg) was exceeded in two samples at concentrations ranging from 1,700 µg/kg (B-17) to 1,800 µg/kg (MW-6). The SCG for pyrene (50,000 µg/kg) was exceeded in one sample at a concentration of 430,000 µg/kg (MW-6).

There were no pesticides, PCBs or cyanide detected above SCGs in the subsurface soil samples.

SCGs were exceeded in metals analyses for aluminum, antimony, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, sodium and zinc in at least one of the 12 soil samples that were collected and analyzed during the June 2003 sampling event. The metal results for subsurface soil samples are presented in Appendix E, Table 3c. The SCGs provided in TAGM 4046 for several analytes (aluminum, antimony, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, sodium and zinc) are either specific values or site background values. In these instances, site-specific background values were used as the SCG. Table 4-4 presents a summary of metals detections, exceedances, and minimum, mean and

# TABLE 4-4 SUMMARY OF METALS DATA FOR SUBSURFACE SOIL 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

	Recommended		Ś	SITE SUBSUR	RFACE SOIL D		BACKGROUND SURFACE SOIL DATA					
	Soil Clean-Up			12 sc	il samples			5 soil samples				
	Objective*	number	excee	dances	min	max	aver	number	min	max	aver	
	(mg/kg)	of detects	number	percent	(mg/kg)	(mg/kg)	(mg/kg)	of detects	(mg/kg)	(mg/kg)	(mg/kg)	
Aluminum	SB (6,620)	12	8	67	3,900	10,000	7,140	5	1,760	6,620	4,072	
Antimony	SB (1.5)	5	2	17	0.78	3.1	1.49	4	0.097	1.5	0.48	
Arsenic	7.5 or SB (18)	12	0	0	3.0	16.7	6.9	5	2.1	18	7.8	
Barium	300 or SB (82.8)	12	1	8	15.3	884	122	5	16.5	82.8	49.4	
Beryllium	0.16 or SB (0.36)	12	4	33	0.16	0.45	0.32	5	0.097	0.36	0.227	
Cadmium	1 or SB (1.3)	1	1	8	1.4	1.4	1.4	5	0.19	1.3	0.558	
Calcium	SB (73,100)	12	0	0	741	51,400	17,630	5	2,870	73,100	24,174	
Chromium	10 or SB (11.7)	12	6	50	7.7	55.4	16.2	5	4	11.7	7.4	
Cobalt	30 or SB (6.4)	12	0	0	3.8	9.3	6.2	5	1.5	6.4	3.9	
Copper	25 or SB (129)	12	1	8	20.7	180	44.7	5	10.1	129	48.0	
Iron	2,000 or SB (22,200)	12	4	33	10,300	27,000	18,917	5	4,740	22,200	11,944	
Lead	SB (173)	12	1	8	7.1	314	59.0	5	52.1	173	93.4	
Magnesium	SB (4,460)	12	3	25	1,880	9,680	3,867	5	961	4,460	2,396	
Manganese	SB (712)	12	3	25	94	1,290	554	5	107	712	373	
Mercury	0.1	8	8	67	0.16	12.4	1.80	5	0.068	0.39	0.18	
Nickel	13 or SB (17.8)	12	5	42	10.8	551	64.7	5	5	17.8	11.3	
Potassium	SB (788)	12	12	100	820	1,890	1,212	5	236	788	459	
Selenium	2 or SB (0.32)	6	1	8	0.66	2.1	1.1	1	0.32	0.32	0.3	
Silver	SB (0.036)	0	0	0	ND	ND	ND	1	0.036	0.036	0.036	
Sodium	SB (78.4)	12	11	92	68.6	370	147	5	33.1	78.4	58	
Thallium	SB (0.69)	0	0	0	ND	ND	ND	2	0.65	0.69	0.67	
Vanadium	150 or SB (15.6)	12	0	0	11.4	26.8	17.7	5	4.9	15.6	10.9	
Zinc	20 or SB (145)	12	1	8	46.1	639	118	5	40.5	145	80	

#### Notes:

\*: as per January 24, 1994 NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels.

maximum concentrations for the subsurface soil samples.

Aluminum was detected above the SCG (6,620 mg/kg) in eight of the samples at concentrations ranging from 6,670 mg/kg (B-3) to 10,000 mg/kg (B-8). Antimony was detected above the SCG (1.5 mg/kg) in two of the samples at concentrations of 3.1 mg/kg (B-1) and 1.8 mg/kg (B-6). Barium was detected above the SCG (300 mg/kg) in one of the samples at a concentration of 884 mg/kg (B-1). Beryllium was detected above the SCG (0.36 mg/kg) in four of the samples at concentrations ranging from 0.40 mg/kg (B-11) to 0.45 mg/kg (B-9). Cadmium was detected above the SCG (1.3 mg/kg) in one of the samples at a concentration of 1.4 mg/kg Chromium was detected above the SCG (11.7 mg/kg) in six of the samples at (B-1). concentrations ranging from 13.2 mg/kg (B-8) to 55.4 mg/kg (B-1). Copper was detected above the SCG (129 mg/kg) in one of the samples at a concentration of 180 mg/kg (B-1). Iron was detected above the SCG (22,200 mg/kg) in four of the samples at concentrations ranging from 22,400 mg/kg (B-2) to 27,000 mg/kg (B-9). Lead was detected above the SCG (173 mg/kg) in one of the samples at a concentration of 314 mg/kg (B-1). Magnesium was detected above the SCG (4,460 mg/kg) in three of the samples at concentrations ranging from 6,060 mg/kg (B-3) to 9,680 mg/kg (B-7). Manganese was detected above the SCG (712 mg/kg) in three of the samples at concentrations ranging from 725 mg/kg (B-3) to 1,290 mg/kg (B-8). Mercury was detected above the SCG (0.1 mg/kg) in eight of the samples at concentrations ranging from 0.16 mg/kg (B-1) to 12.4 mg/kg (B-4). Nickel was detected above the SCG (25 mg/kg) in five of the samples at concentrations ranging from 17.9 mg/kg (B-9) to 551 mg/kg (B-4). Potassium was detected above the SCG (788 mg/kg) in twelve of the samples at concentrations ranging from 820 mg/kg (B-1) to 1,890 mg/kg (B-2). Selenium was detected above the SCG (2 mg/kg) in one of the samples at a concentration of 2.1 mg/kg (B-1). Sodium was detected above the SCG (78.4 mg/kg) in eleven of the samples at concentrations ranging from 79.8 mg/kg (B-8) to 370 mg/kg (B-12). Zinc was detected above the SCG (50 mg/kg) in one of the samples at a concentration of 639 mg/kg (B-1).

#### 4.4 Groundwater Sample Results

One round of groundwater samples was collected from the 12 temporary monitoring wells at the site in June 2003. Each of these samples was analyzed for TCL VOCs and TCL SVOCs. In addition, five of these samples were analyzed for TAL metals. Two rounds of groundwater samples was collected from the eight permanent monitoring wells, which include five on-site and three off-site wells, in June 2005 and July 2006. Samples collected in June 2005 were analyzed for TCL VOCs and TAL metals (filtered and unfiltered). Samples collected in July 2006 were analyzed for TAL metals (filtered and unfiltered). Figure 4-4 depicts monitoring well locations and summarizes exceedances of SCGs in groundwater.

Four VOCs were detected above SCGs in the groundwater samples collected from on-site locations. The VOC results for groundwater samples are presented in Appendix E, Tables 5a and 6a. The SCG for cis-1,2-dichloroethene (5  $\mu$ g/l) was exceeded in three samples at concentrations ranging from 7  $\mu$ g/l (B-1) to 200  $\mu$ g/l (MW-2). The SCG for toluene (5  $\mu$ g/l) was exceeded in one sample at a concentration of 10  $\mu$ g/l (MW-2). The SCG for trichloroethene (5  $\mu$ g/l) was exceeded in five samples at concentrations ranging from 7  $\mu$ g/l (B-7) to 120  $\mu$ g/l (MW-2). The SCG for vinyl chloride (2  $\mu$ g/l) was exceeded in one sample at a concentration of 5  $\mu$ g/l (MW-2).

Ten VOCs were detected above SCGs in the groundwater samples collected from off-site locations. The VOC results for off-site groundwater samples are presented in Appendix E, Table 6a. The SCG for benzene (1  $\mu$ g/l) was exceeded in three samples at concentrations ranging from 11  $\mu$ g/l (MW-7) to 43  $\mu$ g/l (MW-6). The SCG for ethyl benzene (5  $\mu$ g/l) was exceeded in one sample at a concentration of 73  $\mu$ g/l (MW-6). The SCG for isopropylbenzene (5  $\mu$ g/l) was exceeded in one sample at a concentration of 21  $\mu$ g/l (MW-6). The SCG for naphthalene (10  $\mu$ g/l) was exceeded in one sample at a concentration of 1,100  $\mu$ g/l (MW-6). The SCG for n-propylbenzene (5  $\mu$ g/l) was exceeded in one sample at a concentration of 7  $\mu$ g/l (MW-6). The SCG for toluene (5  $\mu$ g/l) was exceeded in two samples at concentrations ranging from 8  $\mu$ g/l (MW-5) to 23  $\mu$ g/l (MW-6). The SCG for 1,3,5-trimethylbenzene (5  $\mu$ g/l) was exceeded in one sample at a concentration of 29  $\mu$ g/l (MW-6). The SCG for 1,2,4-trimethylbenzene (5  $\mu$ g/l) was



H



LEGEND SITE BOUNDARY ✤ MONITORING WELL LOCATION - D&B 2003 & 2005

WELL LOCATION- PREVIOUS H-4 (H = HYGEIA 1999, MWB = DAMES & MOORE 1997)

North

d

ABBREV.	ANALYTE	SCG	UNITS
n-butylbenz	n-butylbenzene	5	ug/l
naphthalene	naphthalene	10	ug/l
cis-1,2-dce	cis-1,2-dichloroethene	5	ug/i
tce	trichloroethene	5	uq/i
vinyl chloride	vinyl chloride	2	uq/l
benzene	benzene	1	uq/1
toluene	toluene	5	ug/i
ethylbenzene	ethylbenzene	5	ug/I
m,p-xylenes	m,p-xylenes	5	ug/l
o-xylene	o-xylene	5	ug/l
isopropylbenz	isopropylbenzene	5	ug/l
n-propylbenz	n-propylbenzene	. 5	ug/l
1,3,5-trimeth	1,3,5-trimethylbenzene	5	ug/l
1,2,4-trimeth	1,2,4-trimethylbenzene	5	ug/l
bnz(a)anth	benzo(a)anthracene	0.002	ug/I
chrysene	chrysene	0.002	ug/t
bnz(b)fluor	benzo(b)fluoranthene	0.002	ug/i
bnz(k)fluor	benzo(k)fluoronthene	0.002	uq/l
bnz(a)pyr	benzo(a)pyrene	ND .	ug/l
indeno	indeno(1,2,3-c,d)pyrene	0.002	ug/l
antimony	antimony	3.	ug/l
arsenic	orsenic	25	ug/l
barium	barium	1,000	ug/l
beryllium	beryllium	3 .	ug/l
cadmium	cadmium	5	ug/i
chromium	chromium	50	ug/l
copper	copper	200	ug/I
iron	iron	300*	ug/l
lead	leod	25	ug/l
magnesium	mognesium	35,000	ug/i
mongonese	manganese	300*	ug/1
mercury	mercury	0.7	ug/1
nickel	nickel	100	ug/I
selenium	selenium	10	ug/l
sodium	sodium	20,000	ug/1
thallium	thallium	0.5	ug/l
zinc	zinc	2,000	ug/l

ND = non-detectable • = combined standard for iron and manganese is 500 ug/l J = estimated concentration VOCs = volatile organic compaunds SVOCs = semivolatile organic compaunds

NE = no exceedances NS = not sampled

SAMPLE ID-





FIGURE 4-4

25

- DATE SAMPLED

SCALE: 1"=50

B-11	6/10/03
VOCs	NE
SVOCs	NE
antimony	3.1
arsenic	351
barium	2,330
beryllium	15.9
codmium	28.1
chromium	169
copper	1,750
iron	345,000
lead	1,380
magnesium	72,000
monganese.	29,800
mercury	8.6
nicke	444
selenium	72.7
sodium	97,000

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exceeded in one sample at a concentration of 120  $\mu$ g/l (MW-6). The SCG for m- and p-xylenes (5  $\mu$ g/l) was exceeded in one sample at a concentration of 14  $\mu$ g/l (MW-6). The SCG for o-xylene (5  $\mu$ g/l) was exceeded in one sample at a concentration of 53  $\mu$ g/l (MW-6).

Six SVOCs were detected above SCGs in the groundwater samples that were collected from the site. The SVOC results are presented in Appendix E, Table 5b. The SCG for benzo (a) anthracene (0.002  $\mu$ g/l) was exceeded in two of the 12 samples at concentrations of 6  $\mu$ g/l (B-1) and 1  $\mu$ g/l (B-12). The SCG for benzo (b) fluoranthene (0.002  $\mu$ g/kg) was exceeded in two of the 12 samples at concentrations of 6  $\mu$ g/l (B-1) and 2  $\mu$ g/l (B-12). The SCG for benzo (k) fluoranthene (0.002  $\mu$ g/l) was exceeded in one of the 12 samples at a concentration of 3  $\mu$ g/l (B-1). The SCG for benzo (a) pyrene (non-detect) was exceeded in one of the 12 samples at a concentration of 4  $\mu$ g/l (B-1). The SCG for chrysene (0.002  $\mu$ g/l) was exceeded in three of the 12 samples at concentrations ranging from 1  $\mu$ g/l (B-7 and B-12) to 6  $\mu$ g/l (B-1). The SCG for indeno(1,2,3-cd)pyrene (0.002  $\mu$ g/l) was exceeded in one of the 12 samples at a concentration of 3  $\mu$ g/l (B-1).

Metals analyses were performed on five groundwater samples collected during the June 2003 sampling round, eight groundwater samples collected during the July 2006 sampling round. Analyses for total metals were run on each of these samples as requested by the NYSDEC. Samples for total metals analyses were very turbid and metals results may not be indicative of true groundwater concentrations. Eight groundwater samples collected during the June 2005 sampling round were also filtered at the laboratory and analyzed for dissolved metals. Eight groundwater samples collected during the field and analyzed for dissolved metals. Table 4-5 presents a summary of metals detections, exceedances, and minimum, mean and maximum concentrations for both total metals and dissolved metals in groundwater.

# TABLE 4-5 SUMMARY OF METALS DATA FOR GROUNDWATER 26-28 WHITESBORO STREET SITE UTICA, NEW YORK

	NYSDEC Class GA		TOTAL METALS DATA						DISSOLVED METALS DATA				
	Groundwater Standard			21 ground	water sample:	S				16 ground	vater samples	3	
	or Guidance Value	number	exceed	dances	min	max	aver	number	exceed	dances	min	max	aver
	(ug/l)	of detects	number	percent	(ug/l)	(ug/l)	(ug/l)	of detects	number	percent	(ug/l)	(ug/l)	(ug/l)
Aluminum		21	0	0	419	490,000	59,705	7	0	0	19	62.1	42
Antimony	3 ST	6	5	38	1.8	65.1	14.6	7	2	15	1.6	9.5	3.64
Arsenic	25 ST	21	6	46	1.7	618	104.7	8	0	0	1.8	14.6	5.7
Barium	1,000 ST	21	4	31	37	6,430	865	16	0	0	30.7	285	105.5
Beryllium	3 GV	11	5	38	0.15	27.7	8.2	0	0	0	ND	ND	ND
Cadmium	5 ST	18	5	38	0.13	47.8	7.8	7	0	0	0.13	0.23	0.18
Calcium		21	0	0	79,400	476,000	205,857	16	0	0	92,700	285,000	162,606
Chromium	50 ST	21	8	62	1	2,600	221	10	2	15	0.49	365	47.1
Cobalt		21	0	0	0.42	437.0	70	16	0	0	0.16	4.3	1.1
Copper	200 ST	21	5	38	12	4,190	601	10	0	0	6.4	20.2	15.1
Iron	300 ST ^	21	21	162	977	2,170,000	265,977	13	4	31	20	7,380	744
Lead	25 ST	20	9	69	1	2,250	353	7	0	0	0.62	1.6	1.1
Magnesium	35,000 GV	21	11	85	5,260	273,000	59,655	16	7	54	5,330	100,000	35,121
Manganese	300 ST ^	21	19	146	78	95,900	13,032	16	7	54	3.1	2,690	724
Mercury	0.7 ST	7	5	38	0.068	8.6	2.40	1	0	0	0.30	0.30	0.30
Nickel	100 ST	21	7	54	2	3,810	325	16	0	0	1.4	99.9	12.8
Potassium		21	0	0	4,720	56,700	20,941	16	0	0	4,660	21,800	14,381
Selenium	10 ST	5	1	8	1.5	72.7	17.6	7	1	8	3.1	11.3	5.8
Silver	50 ST	2	0	0	1.8	2.2	2	0	0	0	ND	ND	ND
Sodium	20,000 ST	21	19	146	16,300	541,000	138,390	16	14	108	17,400	341,000	92,344
Thallium	0.5 GV	13	13	100	1.2	8.5	5.00	12	12	92	1.7	11	6.2
Vanadium		21	0	0	1.3	966	121	10	6	46	0.54	1.1	0.70
Zinc	2,000 GV	21	3	23	23	7,680	943	16	0	0	4.8	71	32.8

Notes:

^: The combined standard for iron and manganese is 500 ug/l

SCGs were exceeded in total metals analyses for antimony, arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium and zinc. The total metals results are presented in Appendix E, Tables 5c, 6b and 7a. Antimony was detected above its SCG of 3  $\mu$ g/l in five samples at concentrations ranging from 3.1 µg/l (B-11) to 65.1 µg/l (B-1). Arsenic was detected above its SCG of 25 µg/l in six samples at concentrations ranging from 62 µg/l (B-3) to 618 µg/l (B-12). Barium was detected above its SCG of 1,000 µg/l in four samples at concentrations ranging from 2,330 µg/l (B-11) to 6,430 µg/l (B-1). Beryllium was detected above its SCG of 3 µg/l in five samples at concentrations ranging from 4.3 µg/l (MW-8) to 27.7 µg/l (B-12). Cadmium was detected above its SCG of 5  $\mu$ g/l in five samples at concentrations ranging from 6.4  $\mu$ g/l (MW-8) to 47.8  $\mu$ g/l (B-12). Chromium was detected above its SCG of 50 µg/l in eight samples at concentrations ranging from 50.2 µg/l (B-3) to 2,600 µg/l (B-1). Copper was detected above its SCG of 200  $\mu$ g/l in five samples at concentrations ranging from 514  $\mu$ g/l (MW-8) to 4,190  $\mu$ g/l (B-12). Iron was detected above its SCG of 300 µg/l in twenty-one samples at concentrations ranging from 977  $\mu$ g/l (MW-7) to 2,170,000  $\mu$ g/l (B-12). Lead was detected above its SCG of 25  $\mu$ g/l in eight samples at concentrations ranging from 27.5 µg/l (MW-3) to 2,250 µg/l (B-1). Magnesium was detected above its SCG of 35,000 µg/l in eleven samples at concentrations ranging from 37,200 μg/l (MW-1) to 273,000 μg/l (B-12). Manganese was detected above its SCG of 300 μg/l in nineteen samples at concentrations ranging from 302 µg/l (MW-4) to 95,900 µg/l (B-10). Mercury was detected above its SCG of 0.7 µg/l in five samples at concentrations ranging from 0.92 µg/l (MW-8) to 8.6 µg/l (B-11). Nickel was detected above its SCG of 100 µg/l in seven samples at concentrations ranging from 143 µg/l (MW-8) to 3,810 µg/l (B-1). Selenium was detected above its SCG of 10 µg/l in one sample at a concentration of 72.7 µg/l (B-11). Sodium exceeded the SCG (20,000 µg/l) in nineteen samples at concentrations ranging from 22,600 µg/l (MW-8) to 541,000 µg/l (B-12). Thallium was detected above its SCG of 0.5 µg/l in thirteen samples at concentrations ranging from 1.2 µg/l (MW-4) to 8.5 µg/l (MW-2). Zinc was detected above its SCG of 2,000  $\mu$ g/l in three samples at concentrations ranging from 2,640  $\mu$ g/l (B-10) to 7,680 µg/l (B-1).

SCGs were exceeded in dissolved metals analyses for antimony, chromium, iron, magnesium, manganese, selenium, sodium and thallium. The dissolved metals results are presented in Appendix E, Tables 6b and 7a. Antimony was detected above its SCG of 3  $\mu$ g/l in two samples at concentrations of 3.5  $\mu$ g/l (MW-6) and 9.5  $\mu$ g/l (MW-1). Chromium was detected above its SCG of 50  $\mu$ g/l in two samples at concentrations of 98.4  $\mu$ g/l (MW-3) and 365  $\mu$ g/l (MW-3). Iron was detected above its SCG of 300  $\mu$ g/l in four samples at concentrations ranging from 391  $\mu$ g/l (MW-6) to 7,380  $\mu$ g/l (MW-1). Magnesium was detected above its SCG of 35,000  $\mu$ g/l in seven samples at concentrations ranging from 35,100  $\mu$ g/l (MW-3) to 100,000  $\mu$ g/l (MW-4). Manganese was detected above its SCG of 300  $\mu$ g/l in seven samples at concentrations ranging from 747  $\mu$ g/l (MW-8) to 2,690  $\mu$ g/l (MW-4). Selenium was detected above its SCG of 10  $\mu$ g/l in one sample at a concentration of 11.3  $\mu$ g/l (MW-8). Sodium exceeded the SCG (20,000  $\mu$ g/l) in fourteen samples at concentrations ranging from 24,700  $\mu$ g/l (MW-5) to 341,000  $\mu$ g/l (MW-3). Thallium was detected above its SCG of 0.5  $\mu$ g/l in twelve samples at concentrations ranging from 1.7  $\mu$ g/l (MW-7) to 11.0  $\mu$ g/l (MW-3).

#### 4.5 Data Usability Summary Report

D&B's Quality Assurance/Quality Control Officer, Robbin Petrella, prepared the DUSRs. Ms. Petrella is a qualified data validator and meets the requirements for a data validator set forth by the NYSDEC. Ms. Petrella holds a bachelor's degree in Chemical Engineering, has worked in an environmental laboratory, both analyzing samples and generating NYSDEC ASP reports and has successfully completed the USEPA data validation courses.

Sample analysis was performed by Mitkem Corporation, Inc., a subcontractor to D&B, in accordance with NYSDEC 6/00 ASP requirements. The data packages, submitted by Mitkem, were reviewed for completeness and contract compliance to determine the usability of the sample results. The findings of the review process are summarized below.

#### June 2003 Samples

Twenty soil and twelve groundwater samples were collected on June 5, June 6, and June 10, 2003 in support of a site investigation conducted at the 26-28 Whitesboro Street Site. The surface soil samples were analyzed for TCL SVOCs, TCL pesticides/PCBs, TAL metals and cyanide. The subsurface soil samples were analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, TAL metals and cyanide. The groundwater samples were analyzed for TCL VOCs and TCL SVOCs, and in addition, five of the groundwater samples were analyzed for TAL metals. Analytical data summary tables are included in Appendix E.

All samples were analyzed within the method specified holding times and all QA/QC requirements (i.e. calibrations, tunes, surrogate recoveries, area counts, etc.) were met.

Several samples required reanalysis of the VOC and/or SVOC fraction due to internal standard area counts and/or surrogate recoveries being outside QC limits. Both sets of analyses were included in the data package and in all instances the initial set of data was deemed as the 'best set' and has been included on the data summary tables.

The methylene chloride results for all of the subsurface soil samples, except for WBB-3(4-6) and WBB-11(2-4), have been qualified as non-detect due to laboratory contamination and are flagged as "U\*" on the data summary tables. The method blank associated with these samples also contained methylene chloride and the sample results were less than 10 times the concentration found in the blanks. The results for samples WBB-3(4-6) and WBB-11(2-4) were qualified as estimated, flagged "J\*" on the data tables, since the sample concentrations were greater than 10 times that of the blank concentrations.

Several samples required reanalysis at secondary dilutions due to compound concentrations exceeding the instrument calibration range. The data for the affected compounds was taken from the diluted runs and flagged with a "D" on the data summary tables

No other problems were found with the sample results and all results are deemed usable for environmental assessment purposes as qualified above.

### June 2005 Samples

Twelve surface soil and eighteen subsurface soil samples were collected on June 1, 2005 and June 2, 2005 in support of the site investigation at the 26-28 Whitesboro Street Site. The surface soil samples were analyzed for TCL SVOCs and TAL metals and the subsurface soil samples were analyzed for TCL VOCs and TCL SVOCs.

Sample analysis was performed in accordance with the NYSDEC 6/00 ASP methods with all QA/QC requirements (i.e. calibrations, tunes, area counts etc) being met.

The semivolatile fraction of B15 (2-4) required re-extraction due to surrogate recoveries being outside QC limits. The surrogate recoveries for the re-extract were within QC limits and therefore the results from the re-extract are considered the 'best set' and have been included on the data summary tables.

Several compounds, methylene chloride and naphthalene were detected in the method blanks associated with some of the samples. The results of those compounds in the affected samples have been qualified as non-detect and have been qualified as 'U\*' on the data summary tables.

The initial un-diluted analysis of the volatile fraction of sample MW-6 (6-8) contained several compounds with concentrations exceeding the instrument calibration range. The sample was re-analyzed at a dilution with several of the compounds being diluted out. Therefore the results for 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene and naphthalene were taken form the diluted run and have been qualified with a 'D' on the data summary tables and all other results were taken form the initial undiluted run.

No other problems were found with the data and all results are deemed valid and usable for environmental assessment purposes as qualified above.

In addition, eight groundwater samples were collected on June 6, 2005 in support of the site investigation at the 26-28 Whitesboro Street Site. Samples were analyzed for TCL VOCs and TAL metals, both total and dissolved.

Sample analysis was performed in accordance with the NYSDEC 6/00 ASP methods with all QA/QC requirements (i.e. calibrations, tunes, area counts etc) being met.

The volatile fraction of MW-6 required reanalysis at a 1:10 dilution due to the concentration of naphthalene exceeding the instrument calibration range in the initial, undiluted analysis. The result for naphthalene has been flagged with a 'D' on the data summary tables.

The chloroform result in sample MW-6 has been qualified as non-detect since the trip blank associated with the samples also contained chloroform at the same concentration. The chloroform result has been qualified as 'U\*' on the data summary tables.

No problems were found with the data and all results are deemed usable for environmental assessment purposes.

# 5.0 HUMAN HEALTH EXPOSURE ASSESSMENT

The purpose of this qualitative risk assessment is to determine how and when exposure to contaminants of potential concern associated with the 26-28 Whitesboro Street Site can occur. In order to determine the significance of exposure and the need for remediation, the likelihood of completion of human exposure pathways was evaluated. The findings of this assessment, together with the conclusions provided in Section 6.0, will form the basis for the need for remediation of the site.

Exposure to contaminants occurs when an exposure pathway is complete. An exposure pathway has five elements: 1) a contaminant source (waste disposal area or point of discharge); 2) contaminant release and transport mechanisms; 3) a point of exposure (a location where human contact with the medium takes place); 4) a route of exposure (i.e., ingestion, inhalation or dermal absorption); and 5) a receptor population. An exposure pathway is said to be complete when each of the five elements is present. If one or more of the elements is absent, the pathway is said to be potentially complete. An exposure pathway may be eliminated from consideration if any one of the five elements has not existed in the past, does not exist in the present and will never exist in the future.

The following sections address each of the five elements of the potential exposure pathways. The first and last elements (contaminant source and receptor population) are discussed in Sections 5.1 and 5.2. The remaining elements of the exposure pathway are discussed in Sections 5.3 through 5.7 in relation to each contaminant medium investigated. Section 5.7 provides conclusions of the exposure assessment.

# 5.1 Contaminant Source

The results of the site investigation indicate that SVOCs in surface and subsurface soils are the primary contaminants of concern. Metals in surface and subsurface soils are of secondary concern. VOCs, to a lesser extent, are a concern in groundwater and vapors from groundwater.

# 5.2 Receptor Population

Potential human receptors at the 26-28 Whitesboro Street Site include trespassers and construction workers. The site is located in a commercial area of an urban community and the surrounding residential population is limited. Although a residential neighborhood is located west of the site, no children were observed playing on or near the site during the site investigation.

There are no buildings located at the site. To the south and west of the property are commercial properties. Several railroad tracks are located to the north of the site. To the east is a major roadway (NYS Route 5) and ramps associated with that roadway. The closest residential properties are located several blocks west of the site, beyond neighboring commercial properties.

Access to the site is uncontrolled and there is no fencing to preclude entrance to the site. During the field investigation, there were no observed trails through the site and the rough terrain containing animal burrows, concrete and metal debris, and thick brushy vegetation indicates that the site is not used by pedestrians and recreational vehicles. However, there is the potential that individuals could access the site and encounter impacted surface soil and individuals conducting potential future construction at the site could encounter impacted surface and subsurface soils.

#### 5.3 Surface Soil

Surface soil is a potential release and transport mechanism. SVOCs and metals exceed SCGs, and are present in elevated concentrations throughout the site. Possible routes of exposure to contaminants in surface soil include ingestion, inhalation and dermal absorption.

Under current site conditions, potential exposure is low due to the presence of tall grass and brush. In the event that the site is developed, the potential exposure is moderate since vegetation would be disturbed. Ingestion is a potential exposure route, although it is unlikely that intentional ingestion of soil would occur. Inhalation is a potential exposure route if soil becomes airborne. Inhalation is possible if soil is disturbed or left without vegetative cover. Dermal absorption may be likely because an individual may walk across the surface soil, however; skin exposure would be low since visitors and trespassers would likely be wearing shoes or boots. Dermal contact with surface soil would likely be for a short duration. The likelihood of significant exposure to surface soil is moderate under current site conditions and moderate for potential future development that would likely involve excavating, stockpiling and re-grading surface soils. This exposure pathway is potentially complete.

#### 5.4 Subsurface Soil

Subsurface soil is a potential release and transport mechanism. SVOCs and metals are a potential concern in subsurface soil. The most significant areas of subsurface soil that exceed SCGs occur in the northern portion of the site closest to the railroad tracks.

Possible routes of exposure to contaminants in subsurface soil include ingestion, inhalation and dermal absorption. At the present time, ingestion is an unlikely exposure route because access to subsurface soil is limited. Inhalation is an unlikely exposure route because the soil would need to become airborne and the subsurface nature of the soil currently prevents this route. Dermal absorption is also unlikely because subsurface soil would need to be exposed. Ingestion, inhalation and dermal absorption would be more feasible routes of exposure in the event that soil is excavated and handled at the site, possibly during future development.

The likelihood of significant exposure to subsurface soil is low based on existing conditions and the exposure pathway is potentially complete. Exposure could be moderate if the site is developed.

### 5.5 Groundwater

Groundwater is another contaminant release and transport mechanism at the site. VOCs, SVOCs and metals have been detected slightly above groundwater standards in monitoring wells at the site. The maximum total VOC and SVOC concentrations from on-site wells are 346  $\mu$ g/l and 93  $\mu$ g/l, respectively. Generally, VOCs only slightly exceed SCGs for the individual

compounds cis-1,2 dichloroethene and trichloroethene. Therefore, the current potential exposure to VOCs and SVOCs is very low. Metals exceedances observed in groundwater are likely attributable to the turbid nature of the samples and the elevated levels of metals are attributable to soils rather than groundwater.

Shallow groundwater flows to the north, beneath an industrial and commercial portion of Utica and discharges in the Mohawk River, approximately 1,500 feet from the site. It is unlikely that the levels of VOCs and SVOCs in groundwater have any impact on the Mohawk River. Potential groundwater exposure points include the monitoring wells and construction water that may be encountered during future site development involving subsurface excavation to and below the water table.

Public water is available in the area of the site. Businesses adjacent to the site and residences located in the vicinity of the site obtain potable water from public water supply sources which are not in close proximity to the site. Ingestion, inhalation and dermal contact could occur if groundwater is used for drinking, cooking, bathing, cleaning or gardening; however, it is unlikely that groundwater sources would be developed at the site.

Due to the restricted access to monitoring wells and unlikely development of a groundwater supply source, exposure to contaminated groundwater emanating from the site is unlikely. As a result, exposure to groundwater poses a low risk and is a potentially complete pathway.

# 5.6 Groundwater Vapors

Soil and groundwater vapor sampling was not conducted during the investigation, however, the presence of VOCs in concentrations slightly exceeding SCGs in groundwater, makes groundwater vapor a slight concern. VOCs in groundwater may vaporize into the soil and may migrate to the ground surface or future building basements. The potential for human exposure to groundwater vapors in these areas is very low under current conditions and low under future conditions if subsurface structures are constructed at the site. Vapor control or groundwater treatment systems may be necessary if future site development involves the construction of sub grade foundations or basement work or living spaces. A soil vapor study would need to be conducted to better evaluate the potential impacts of the VOCs in groundwater.

### 5.7 Conclusions

Exposure to contaminants originating from the Whitesboro Street Site can result from any one of three media, which include surface soil, subsurface soil and groundwater. Table 5-1 provides a summary status of exposure pathways identified at the site. Based on the site investigation results and qualitative risk assessment, current and future exposure to SVOCs and metals contaminated surface soil poses a potential risk to human health at the site. Exposure to SVOCs and metals contaminated subsurface soil is unlikely under current site conditions, however, exposure to contaminated subsurface soil poses a potential risk to human health if the subsurface soil is exposed (i.e. during site development). Exposure to VOCs, SVOCs and metals contaminated groundwater under current conditions is unlikely. Exposure to VOCs in groundwater vapors is possible under future conditions and may require further evaluation when the site is redeveloped.

# TABLE 5-1 WHITESBORO STREET SITE SITE INVESTIGATION EXPOSURE PATHWAY STATUS FOR HUMAN RECEPTORS

			Current	<b>Future Pathway</b>
Media	Exposure Point	Route of Exposure	Pathway Status	Status
Surface Soil	Site surface	Ingestion	Potentially complete	Potentially complete
	Site surface	Inhalation	Potentially complete	Potentially complete
	Site surface	Dermal Contact	Potentially complete	Potentially complete
Subsurface Soil	Subsurface	Ingestion	Potentially complete, but unlikely	Potentially complete
	Subsurface	Inhalation	Potentially complete, but unlikely	Potentially complete
	Subsurface	Dermal Contact	Potentially complete, but unlikely	Potentially complete
Groundwater	Monitoring wells or Construction Water	Ingestion	Potentially complete, but unlikely	Potentially complete
	Monitoring wells or Construction Water	Inhalation	Potentially complete, but unlikely	Potentially complete
	Monitoring wells or Construction Water	Dermal Contact	Potentially complete, but unlikely	Potentially complete
Groundwater Vapors	Open excavations or future basements	Ingestion	Incomplete	Incomplete
	Open excavations or future basements	Inhalation	Potentially complete	Potentially complete
	Open excavations or future basements	Dermal Contact	Potentially complete, but unlikely	Potentially complete

### 6.0 CONCLUSIONS

#### 6.1 Underground Storage Tanks

The geophysical survey provided no indication that there are underground storage tanks located at the site. Twenty-four soil borings and twenty-eight groundwater samples also provided no indication of contaminant source areas that might have been associated with underground storage tanks at the site.

## 6.2 Surface Soil

PID screening of surface soil samples indicated that VOCs were not present above background levels at any of the surface soil sample locations and laboratory analyses for VOCs were not conducted. SVOCs exceeded SCGs in all of the fifteen on-site surface soil samples collected throughout the site. The total SVOC concentration (976 mg/kg) for one surface soil sample (SS-3) exceeded the SCG of 500 mg/kg. For the other fourteen surface soil samples, total SVOC concentrations (maximum concentration of 190 mg/kg) are below the SCG of 500 mg/kg. The total carcinogenic PAH concentrations (412 mg/kg, 31 mg/kg, 12 mg/kg, 31 mg/kg, 75 mg/kg, 17 mg/kg and 19 mg/kg) for seven surface soil samples (SS-3, SS-8, SS-9, SS-10, SS-11, SS-12 and SS-13, respectively) exceeded the SCG of 10 mg/kg. For the other eight surface soil samples, total carcinogenic PAH concentrations (maximum concentration of 8 mg/kg) are below the SCGs of 10 mg/kg. Individual SVOC exceedances occur in no particular pattern at various areas across the site. The site is located in an urban setting in close proximity to railroad tracks and several city streets, and was developed using fill. Such settings, particularly in older urban areas, commonly exhibit elevated levels of PAHs, similar to those observed at this site. In addition, off-site background surface soil samples indicated exceedances of individual SVOCs and total carcinogenic PAH SCGs. There is no apparent on-site PAH source, however SVOCs, in particular PAHs, are of concern. Figure 6-1 presents an isocontour map for benzo (k) fluoranthene in surface soil. Benzo (k) fluoranthene was selected for this map as exceedances for this compound generally coincide with exceedances for other SVOCs.



A number of metals (aluminum, beryllium, cadmium, calcium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, sodium, thallium and zinc) were detected above SCGs in surface soil samples. Metals concentrations are generally within published background concentrations for the Eastern United States (NYSDEC, 1994 and Breckinridge, et al, 1995), however, lead and mercury each exceeded SCGs and published background concentrations in on-site surface soil samples. Due to the detection of metals concentrations greater than accepted ranges of published background concentrations for areas of the 26-28 Whitesboro Street Site, metals are of some concern at the site. Figure 6-2 presents an isocontour map for mercury in surface soil. Mercury was selected for this map as exceedances for mercury also encompass exceedances for lead.

Surface soil samples contained no exceedances of SCGs for pesticides, PCBs or cyanide.

## 6.3 Subsurface Soil

VOCs exceeded SCGs in one of the twenty-nine on-site subsurface soil samples collected throughout the site. However, for all subsurface soil samples, total VOC concentrations (maximum concentration of 7 mg/kg) are below the SCG of 10 mg/kg. In addition, a soil sample collected from a depth below the one sample exceeding SCGs did not exceed SCGs. Therefore, VOCs are of low concern at the site. Figure 6-3 presents an isocontour map for trichloroethene in subsurface soil.

SVOCs exceeded SCGs in approximately 60% of the twenty-nine on-site subsurface soil samples collected throughout the site. However, for all subsurface soil samples, total SVOC concentrations (maximum concentration of 260 mg/kg) are below the SCG of 500 mg/kg. The total carcinogenic PAH concentrations for five on-site subsurface soil samples (B-2 at 13 mg/kg, B-3 at 10 mg/kg, MW-1 at 15 mg/kg, B-14 at 11 mg/kg and B-17 at 94 mg/kg) exceeded the SCG of 10 mg/kg. Total carcinogenic PAH concentrations for the other twenty-four on-site subsurface soil samples (maximum concentration of 7 mg/kg) are below the SCG. Individual SVOC exceedances occur in no particular pattern and at various areas across the site. Subsurface





ISOCONTOUR - MERCURY (MG/KG)

SURFACE SOIL SAMPLE LOCATION SS-5 (BSS = BACKGROUND SURFACE SOIL LOCATION)

LEGEND

SITE BOUNDARY



Curb Curb



soils were observed to be fill material containing bricks, glass and ash that likely contained PAHs before being placed at the site. Therefore, it is likely that the source of SVOCs was off-site and not related to historic on-site activities. SVOCs, in particular PAHs, are of concern at the site. Figure 6-4 presents an isocontour map for benzo (a) pyrene in surface soil. Benzo (a) pyrene was selected for this map as exceedances for this compound generally coincide with exceedances for other SVOCs.

A number of metals (aluminum, antimony, barium, beryllium, cadmium, chromium, copper, lead, magnesium, manganese, mercury, nickel, potassium, selenium, sodium and zinc) were detected above SCGs in subsurface soil samples. Metals concentrations are generally within published background concentrations for the Eastern United States (NYSDEC, 1994 and Breckinridge, et al, 1995), however, mercury exceeded SCGs and published background concentrations in subsurface soil samples. Due to the detection of metals concentrations greater than published background concentrations in areas of the 26-28 Whitesboro Street Site, metals are of some concern. Figure 6-5 presents an isocontour map for mercury in subsurface soil.

## 6.4 Groundwater

VOCs exceeded SCGs in six on-site samples or approximately 35% of the seventeen groundwater samples collected throughout the site. The SCG for cis-1,2-dichloroethene was exceeded in three samples. The SCG for trichloroethene was exceeded in five samples. VOCs exceeding SCGs were detected at the northern portion of Area 1, which is the hydraulically downgradient portion of the site. Groundwater samples were collected from the first water bearing zone encountered at the site; however, this zone would not likely be developed for water supply purposes because of the low yield (less than 0.5 gallons per minute). In addition, potable water is readily available from municipal sources at and around the site. Therefore, because of the low levels of VOCs detected and the unlikely use of groundwater at the site, VOCs under current conditions are of little concern at the site. The low levels of VOCs detected pose a slight concern regarding vapors under potential future site conditions. Figure 6-6 presents an isocontour map for trichloroethene in groundwater.






North LEGEND SITE BOUNDARY ✤ MONITORING WELL LOCATION - D&B 2003 & 2005 B-5 Curb H-5 WELL LOCATION- PREVIOUS H-4 (H = HYGEIA 1999, MWB = DAMES & MOORE 1997) EXTENT OF TCE EXCEEDING SCGS SCALE: 1"=50 **FIGURE 6-6**  SVOCs exceeded SCGs in three samples or 25% of the twelve groundwater samples collected throughout the site. Six individual SVOCs exceeded SCGs in one groundwater sample, one SVOC exceeded SCGs in another groundwater sample and three SVOCs exceeded SCGs in another groundwater sample. The site is located in close proximity to railroad tracks and several streets, and the SVOCs detected at the site were PAHs, which may be the by-products of the combustion of fossil fuels or leachate from fill. Therefore, it is possible that the source of SVOCs detected in groundwater samples is not site related. SVOCs are of low concern in groundwater at the site.

Seventeen metals, including antimony, arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium and zinc, were detected above SCGs. Unfiltered groundwater samples were collected from the site and the results reported are concentrations of total metals. It is likely that the metals concentrations observed are largely a result of turbidity in the water samples. In addition, the concentrations for these metals in upgradient and downgradient samples are similar, and do not appear to increase in the direction of groundwater flow and, therefore, are likely background. Sixteen filtered groundwater samples were collected at the site and results are indicative of dissolved metals in groundwater. Eight metals, including antimony, chromium, iron, magnesium, manganese, selenium, sodium and thallium were detected above SCGs in filtered groundwater samples. Potable water is readily available from municipal sources in the vicinity of the site. Therefore, because the metals are likely the result of turbid samples and the use of groundwater at the site is unlikely, metals in groundwater are not a concern at the site.

## 7.0 RECOMMENDATIONS

Observations made during the site investigation and comparison of sample analytical results to SCGs for the 26-28 Whitesboro Street Site indicate, that while the site is not significantly contaminated, there are elevated levels of PAHs and metals in surface and subsurface soils. VOCs, SVOCs and metals are present slightly above SCGs in groundwater, but are of lesser concern. The results of the human health exposure assessment indicate that the exposure pathways for surface soils are potentially complete under current conditions. Exposure pathways in subsurface soils and groundwater are potentially complete, but unlikely under current conditions. Under future conditions, related to site redevelopment, exposure pathways through surface soil, subsurface soil, groundwater and groundwater vapors are potentially complete.

Based on current site conditions and potential site redevelopment plans, it is recommended that a remediation/soils management plan be developed to address contaminated surface and subsurface soils at the 26-28 Whitesboro Street Site, and possibly groundwater and groundwater vapors depending on development plans for the site.

## 8.0 **REFERENCES**

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# **APPENDIX A**

# ANALYTICAL RESULTS PREVIOUS INVESTIGATIONS

#### TABLE A-1 26-28 WHITESBORO STREET SITE PREVIOUS INVESTIGATIONS SUBSURFACE SOIL SAMPLE RESULTS VOLATILE ORGANIC COMPOUNDS

Sample Identification	MWB-14	TP-4	H-1	NYSDEC
Sample Depth (feet)	9.5-10	7.5	unknown	Recommended
Date of Collection	06/97	06/97	10/26/99	Soil Clean-Up
Percent Moisture	NA	NA	14	Objective
	(ua/ka)	(ug/kg)	(ug/kg)	
Acetone	(ug/kg) 42	(ug/kg) 770	(ug/kg) NA	(ug/kg) 200
Dichlorodifluoromethane			U	
Chloromethane			U	
Vinyl Chloride			U	200
Bromomethane			U	
Chloroethane Trichlorofluoromothano			U	1,900
1 1-Dichloroethene				400
Methylene Chloride	12		Ŭ	100
trans-1,2-Dichloroethane			U	
1,1-Dichloroethane			U	200
2,2-Dichloropropane			U	
cis-1,2-Dichloroethene	U	16,000	U	
Chloroform	U	1,300		300
Bromochloromethane			U	
1,1,1-Trichloroethane			Ŭ	800
1,1-Dichloropropene			U	
Carbon Tetrachloride			U	600
1,2-Dichloroethane	<b>-</b> 4	0.00	U	100
I richloroethene	7.4	0.89	U	700
Rromodichloromethane				
Dibromoethane			Ŭ	
cis-1,3-Dichloropropene			Ŭ	
trans-1,3-Dichloropropene			U	
1,1,2-Trichloroethane			U	
Tetrachloroethene			U	1,400
1,3-Dichloropropane				300
1.2-Dibromoethane			U U	
1,1,1,2-Tetrachloroethane			Ŭ	
Bromoform			U	
1,1,2,2-Tetrachloroethane			U	600
1,2,3-Trichloropropene			U	400
1,2-Dibromo-3-chloropropane			U	
Toluene				1 500
Chlorobenzene			Ŭ	1,700
Ethylbenzene			U	5,500
m&p-Xylenes			U	1,200
o-Xylene			U	1,200
Styrene			4,500	
n-Pronylbenzene			U 11	
Bromobenzene			1	
1,3,5-Trimethylbenzene			Ŭ	
2-Chlorotoluene			Ū	
4-Chlorotoluene			U	
tert-butylbenzene			U	
1,2,4- I rimethylbenzene			U	
sec-bulyidenzene 4-lsopropyltoluene			U 11	
1,3-Dichlorobenzene			U	1.600
1,4-Dichlorobenzene			Ŭ	8,500
n-butylbenzene			U	
1,2-Dichlorobenzene			U	7,900
1,2,4-Trichlorobenzene			U	3,400
Hexachlorobutadiene			U	
1 2 3-Trichlorobenzene			14,000	13,000
Total VOCs	19	17.301	18.500	10.000
QUALIFIERS		,	NOTES	
U: Compound analyzed for but	not detected		Indicates val	ue exceede RCC
		L	NA - not and	wzad
			m = n 0 t a n a	yz <del>c</del> u

#### TABLE A-2 26-28 WHITESBORO STREET SITE PREVIOUS INVESTIGATIONS SUBSURFACE SOIL SAMPLE RESULTS ORGANIC COMPOUNDS - TCLP

Sample Identification	H-3	H-8	H-10	H-15	H-19	H-24	H-26	NYSDEC
Sample Depth (feet)	unknown	Recommended						
Date of Collection	10/26/99	10/26/99	10/27/99	10/27/99	10/27/99	10/28/99	10/28/99	Soil Clean-Up
Units	(ug/l)	Objective (ug/kg)						
VOCs	I		L	I	I	I	I	
Benzene	U	U	U	U	U	U	U	60
Ethylbenzene	9	U	7	U	15	U	5	5,500
Toluene	7	3	7	53	56	U	25	1,500
m&p-Xylenes	31	U	15	7	72	U	18	1,200
o-Xylene	33	U	15	U	16	U	11	1,200
Isopropylbenzene	U	U	U	U	U	U	U	2,300
n-Propylbenzene	U	U	U	U	U	U	U	3,700
4-Isopropyltoluene	U	U	U	U	U	U	U	10,000
1,2,4-Trimethylbenzene	2	U	U	U	U	U	U	10,000
1,3,5-Trimethylbenzene	3	U	U	U	U	U	U	3,300
n-butylbenzene	2	U	U	U	U	U	U	10,000
sec-butylbenzene	U	U	U	U	U	U	U	10,000
tert-butylbenzene	U	U	U	U	U	U	U	10,000
Naphthalene	U	U	U	U	U	U	U	13,000
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	120
SVOCs								
Anthracene	U	U	U	U	U	U	U	50,000
Fluorene	U	U	U	U	U	U	U	50,000
Phenanthrene	U	U	U	U	U	U	U	50,000
Pyrene	U	U	U	U	U	U	U	50,000
Acenaphthylene	U	U	U	U	U	U	U	50,000
Benzo (a) anthracene	U	U	U	U	U	U	U	224
Fluoranthene	U	U	U	U	U	U	U	50,000
Benzo(b)fluoranthene	U	U	U	U	U	U	U	220
Benzo(k)fluoranthene	U	U	U	U	U	U	U	220
Chrysene	U	U	U	U	U	U	U	400
Benzo(a)pyrene	U	U	U	U	U	U	U	61
Benzo(g,h,i)perylene	U	U	U	U	U	U	U	50,000
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	U	3,200
Dibenzo(a,h)anthracene	U	U	U	U	U	U	U	14.3

#### QUALIFIERS:

NOTES:

U: Compound analyzed for but not detected

Indicates value exceeds RSCO.

#### TABLE A-3 26-28 WHITESBORO STREET SITE PREVIOUS INVESTIGATIONS GROUNDWATER SAMPLE RESULTS ORGANIC COMPOUNDS

Sample Identification	MWB-14	H-5	H-13	H-4	Groundwater							
Date of Collection	06/30/97	10/28/99	10/28/99	10/28/99	Standard							
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)							
/OCs												
Benzene	U	U	U	U	1							
Ethylbenzene	U	U	U	U	5							
Toluene	U	U	U	U	5							
m&p-Xylenes	U	U	U	U	5							
o-Xylene	U	U	U	U	5							
Isopropylbenzene	U	U	U	U	5							
n-Propylbenzene	U	U	U	U	5							
4-Isopropyltoluene	U	U	U	U	5							
1,2,4-Trimethylbenzene	U	U	U	U	5							
1,3,5-Trimethylbenzene	U	U	U	U	5							
n-butylbenzene	U	230	U	U	5							
sec-butylbenzene	U	U	U	U	5							
tert-butylbenzene	U	U	U	U	5							
Naphthalene	U	1,700	U	U	10							
Methyl tert-Butyl Ether	U	U	U	U	10							
Trichloroethene	2.2	NA	NA	NA	5							
SVOCs												
Anthracene	U	U	U	U	50							
Fluorene	U	7	U	U	50							
Phenanthrene	U	U	U	U	50							
Pyrene	U	U	U	U	50							
Acenaphthylene	U	U	U	U	20							
Benzo (a) anthracene	U	U	U	U	0.002							
Fluoranthene	U	U	U	U	50							
Benzo(b)fluoranthene	U	U	U	U	0.002							
Benzo(k)fluoranthene	U	U	U	U	0.002							
Chrysene	U	U	U	U	0.002							
Benzo(a)pyrene	U	U	U	U	ND							
Benzo(g,h,i)perylene	U	U	U	U								
Indeno(1,2,3-cd)pyrene	U	U	U	U	0.002							
Dibenzo(a,h)anthracene	U	U	U	U								

#### QUALIFIERS:

U: Compound analyzed for but not detected

NOTES: Indicates value exceeds standards. NA = not analyzed **APPENDIX B** 

**GEOPHYSICAL INVESTIGATION REPORT** 



#### Subsurface Geophysical Surveys

GPR MAGNETICS ELECTROMAGNETICS SEISMICS RESISTIVITY UTILITY LOCATION UXO DETECTION BOREHOLE CAMERA STAFF SUPPORT

T

# **Results of Geophysical Investigation**

Vacant Property 26 Whitesboro Street Utica, New York

Prepared for:

Dvirka and Bartilucci Consulting Engineers Syracuse, New York

Dates of Investigation: May 19 and 20, 2003

### Prepared by:

Hiromi Hamajima Project Manager NAEVA Geophysics, Inc. 50 North Harrison Avenue, Suite 11 Congers, NY 10920

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Figure 2	EM-61 Contour Map of a Vacant Property, 26 Wildlesbore Street, Utica, New York	

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## VIRGINIA

P.O. Box 7325 Charlottesville Virginic 22906 (434) 978-3187 (434) 973-9791 Fox Results of Geophysical Investigation Vacant Property 26 Whitesboro Street Utica, New York

Introduction On May 19 and 20, 2003, NAEVA Geophysics Inc. conducted a geophysical investigation on a vacant property located at 26 Whitesboro Street in Utica. New York. The purpose of the investigation was to search for possible underground storage tanks (USTs) that may exist at the site. The area of investigation was an approximately 180 by 380-foot lot bounded on the north, south, and east by Water Street, Whitesboro Street, and Division Street, respectively. The western limit of the site was about 90 feet cast of Hotel Street (see Figure 1). The property was relatively flat and open except some vegetation at the northeast corner and east side on the property. The property was littered with household refuse, trash, car parts, and metallic construction material. Methods The equipment selected for this investigation included a Geonics EM-61 MK2 electromagnetic metal-detector, a Fisher TW-6 M-Scope hand-held metaldetector, and a Sensors & Software Noggin Smart Cart ground penetrating radar (GPR) system with a 500 MHz antenna. The EM-61 is a high-resolution time-domain metal-detector that is capable of detecting both ferrous and non-ferrous metallic objects. The EM-61 consists of three major parts: a hand-pulled cart housing a twin transmitter/receiver coil assembly; a backpack containing the battery and processing electronics; and a digital data recorder. The EM-61's transmitter generates a pulsed primary magnetic field, which then induces eddy currents in nearby metallic objects. The decay of these eddy currents is measured by each of two spatially separated receiver coils. By taking these measurements at a relatively long time after termination of the primary pulse, the response is practically independent of the electrical conductivity of the ground. The coils' responses are recorded by an integrated data logger and displayed as two channel data. The response curves from the receiver coils are typically welldefined positive peaks that allow accurate lateral location of targets.

The Fisher TW-6 is a type of hand-held electromagnetic metal-detector. The instrument consists of a transmitter coil and a receiver coil mounted at opposite ends of a 4-foot horizontal staff. The transmitter is fixed in a vertical position. The receiver's orientation is then adjusted to the horizontal, exactly perpendicular to the transmitter. When the receiver is in this perpendicular

orientation, its response to the transmitter is at a minimum. Metallic objects in the vicinity of the instrument pick up the transmitted signal, and acting as secondary transmitters, cause detectable interference at the receiver. By adjusting the gain of the instrument, as well as its position relative to a buried metallic object, an experienced operator can often obtain information as to the size or shape of the target. The TW-6 was used in a general reconnaissance investigation of the site including those portions that were inaccessible to the EM-61 (northeast corner and east side on the property covered with heavy vegetation), and as a follow-up tool for EM-61 anomalies.

A survey grid of east/west lines was established across the site with a 5-foot spacing. The purpose of the grid is to facilitate a systematic approach to EM data collection and to allow the reacquisition of sample locations. It was expected that the 5-foot line spacing would make it possible to locate buried metallic objects large enough to be USTs, within the depth range of the instrument.

The EM-61, operating in the wheel-triggered mode, collected data at approximately 0.7-foot intervals along each grid line. The line number, sampling direction, and starting location were entered into the instrument at the beginning of each line. A fiducial mark was added to the data every 40 feet along a line, to be used during data processing to correct for terrain induced odometer error. The beginning and ending points of each line were also hand recorded in a field notebook.

The raw data from the digital recorder were transferred to a laptop computer and processed using Geonics' DAT61 software. First, the starting and end points of each line were checked against the written field notebook. The software then automatically adjusted the location for the data between end points and fiducial marks by either compressing or expanding them. The data were converted to a spreadsheet format compatible with Surfer Mapping Software for contouring. The EM-61 data for this report is presented as a contour map of the bottom coil data (see Figure 2).

Using the grid coordinates as a guide, significant EM-61 targets were relocated in the field. The area surrounding each EM anomaly was visually inspected for evidence of cultural features that could represent the source of the anomaly. When no obvious surface cultural sources could be identified, the anomalies were investigated using the TW-6 metal-detector in an attempt to identify an underground source and delineate its approximate surface trace. Anomalies whose surface trace suggested a possible UST were mapped and assigned reference numbers. GPR data profiles were collected along bi-directional traverses centered over the anomalies.

# Results NAEVA found no conclusive evidence to suggest the presence of USTs at this site. A total of 17 metal-detector anomalies were identified with the EM-61 data contour map and TW-6 follow-up. The anomalies' locations are listed in the table below. Most of those detected anomalies were associated with visible cultural sources. The five most significant metal-detector anomalies within the EM-61 grid were chosen for follow-up with the GPR. GPR data profiles collected over these anomalies showed flat buried objects at a depth range of approximately 1 to 2 feet. These features are probably reinforced concrete and/or metallic construction materials associated with former building structures. No other evidence of USTs was identified within the area investigated.

Pink paint was used to delineate utilities of unknown use and metal-detector anomalies. The five metal-detector anomalies were also marked with wood stakes and white flags. Please note that a utility mark-out was not performed as a part of this investigation.

	Table 1. Lo	Table 1. Locations of Metal-detector Anomalies										
Locations Line	Station	Anomaly Feature	Comment									
105 to 115	0 to 10	Anomaly No.1	Flat buried object, 1 to 1.5 feet depth on GPR profiles									
145	30	Anomaly No.2	Buried object, less than 1 foot depth on GPR profiles									
160	67	Anomaly No.3	Buried object, less than 1 foot depth on GPR profiles									
20 to 30	30 to 35	Anomaly No.4	Poor GPR penetration, reinforced concrete? Not detected by EM-61									
75	260	Anomaly No.5	Flat buried object, less than 1 foot depth on GPR profiles									
10	115	Manhole	Visible on surface									
40	370	Manhole	Visible on surface									
5	i <b>6</b> 0	Reinforce concrete	Sidewalk									
40 to 65	190 to 200	Steel metal beam	Partially visible from surface									
100 to 110	125 to 135	Former foundation?	Partially visible from surface									
165	355	Metal scraps	Visible on surface									
180	345	Metal scraps	Visible on surface									
50 to 55	365 to 370	Unknown	Small response by TW-6									
150 to 185	325 to 330	Unknown	Small response by TW-6									
125	55	Unknown	Small response by TW-6									
145	60	Unknown	Small response by TW-6									
195	75	Unknown	Small response by TW-6									





# **APPENDIX C**

## SOIL BORING, WELL CONSTRUCTION AND WELL DEVELOPMENT LOGS

Driller: <u>Pac path</u> Inspector: <u>5, Po</u> Rig Type: <u>IR</u> Drilling Method: <u></u>	-100199 pl:-c 1300 wetPosh	Dvirka and Bartilucci Bor Project Name: <u>()+.ca - Wh.fas</u> Project #: <u>+910 F709</u> Boring Depth: <u>12</u>	ing Log ລອງເບັ	Boring ID: BL Sheet _/ of _/ Location: NW corner site
Date Time DTW Casing/Total Depth	Groundwater Observations	Start (Date & Time): <u>6/5/03-0725</u> Finish (Date & Time): <u>6/5/03-1020</u> Weather: <u>Ouercest</u> upper <u>6</u> Off <u>VG</u> : Elevation of Ground Surface:	Location Ske N U • Bl	etch: 2utor Street Area 1
Interval No.	Stows Cpfin) Gress	Field Description	Well Schematic	Comments
0-2 0718 2-4 0942 4-6 1007 6-8 1610 8-10 - 1015 10-12 1018	1.2 0 and Dari J.2 0 Junika D.2 0 Junika 0.1 0 Duskyye SAAM 1.0 0 Sure modara 1.2 0 Inthe Modera 1.4the 0.6 0 Sure	LYEllowich breach (104R 4/2) T, Souch sand, 1:4412 CKy, em-c. 9 Favel (Sobrind) (recist- Hek et 1.9 moderater, Wood, gless and SILT ellowich brown (104R 2/2) f.c D, Sous sitt - bisk (maint) silt, trave figural (moist) ite brown (SYR3/4) fic S.H.D. Silt, trave figural (Woot)		1° & PUC riser Newslet 2.1 Ct; offer colosol at 4 Ft; offer WB-BI(6-B) UCLI SUQS, Fast, PCB, TAL, CAJ UDET ar at 8° b g 1° & PUC 10 Slot Scree NO Sand 12' or Seal
		03 et 12 fttsg, install tinck und		12'

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Sec. 11

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Driller: Yu Inspector: S Rig Type: Drilling Metho	scatt 3, Per 2R d: On	- Wolf Dling A300 rect pu	€ > <h 3'4<="" th=""><th>Dvirka and Bartilucci Bor Project Name: <u>194: co-112</u> Project #: <u>1909</u> ; H6A Boring Depth: <u>16</u></th><th>ing Log -ອ<sub>າ</sub>ະບ</th><th>BORING ID: 155 Sheet of _ / Location: <u>Dcenter Aver</u></th></h>	Dvirka and Bartilucci Bor Project Name: <u>194: co-112</u> Project #: <u>1909</u> ; H6A Boring Depth: <u>16</u>	ing Log -ອ <sub>າ</sub> ະບ	BORING ID: 155 Sheet of _ / Location: <u>Dcenter Aver</u>
Casing/Tot	Date Time DTW al Depth	Groundwa	ler Observa	tions Start (Date & Time): <u>6/5/03-1028</u> Finish (Date & Time): <u>6/5/03-1028</u> Weather: <u>Over cest</u> , <u>mp60°8F</u> <u>1764</u> Elevation of Ground Surface:	Location Ske U J ° BI A	etch: exect street °82 1 rea 1
Sample Sample Sample	ample No.	Blows (FT)	PID (AD)	Field Description	Well Schematic	Comments
	032 032 1111 1113 1113 1113 242 242 242 242	0.7		Urayish brow (STR 3/2) SLD, Stree firm Sound, little clay, trace migrowel (acorsts reducist et 1.9' reducist et 1.9' reducist (0.3'thick) WOOD (0.3'thick) Grayish Drow (STR 3/2) SILT and the SAND (moist) brick-red concrete reducist Grayish Drow (STR 3/2) SILT, Some fiscand, little day (moist) Bane Dusty brown (STR 2/2) SILT, Gane Dusty brown (STR 2/2) SILT, Gane Dusty brown (STR 2/2) SILT, some fiscand, little day (moist) Sane EOB at 164409, Instell Finch PVC well, 10 At 10 slot		- Stight petrole official & 4.2' ca official 2', refunded Start, exst - Stight petrole Start, exst - Stight petrole Start, exst - Stight petrole Start, exst - Stight petrole - Stigh
				EOB et 1644-109, Jastell Finch Ric usell, 10-4 10-51 of		

	Driller:( Inspector: Rig Type:_ Drilling Me	arrett S. Fr IRA ethod: 2:	· 10.). sl:-e 300	<u>fP</u> ;h.	Dvirka and Bartilucci Boring Log       Boring ID: 63         Project Name: <u>V#ca-WLitesbosoSt</u> Sheet 1 of 1         Project #: <u>1909</u> Location:       NE         Boring Depth: <u>14</u> Corney Arect
	Casing	Date Time DTW /Total Depth	Groundwa	ater Observ	vations       Start (Date & Time): $6/6/03 - 1126$ Location Sketch:         Finish (Date & Time): $6/6/03 - 1150$ $uature St$ Weather: $0uatrest$ , $low 60°sF$ $B2$ B2 $B3$ Elevation of Ground Surface: $Hreal$
0	Interval	No.	Blows (lect) 1.0	(2)	Qrass     Field Description     Well Schematic     Comments       Moderabbio     Moderabbio     Generation     Comments       Find Sand (moist)     Find (moist)     If the second find (moist)
3 4	2-4	1132	NR 1.2	0 0	Dosty yellowish brown (104 2/2) STLT, sone f. (Send), 14/12 fre gravel, USA. Succe Post.
4	68/	1142	Ø. Э	0	trece coel (moist) Dusky yellowig Lbrown (10, YR 2/2) SILT, KHIE FICS and (moist) PCS, TALICH InSocieté, HSA to 6.5"
9 10	10-12/	1144	1.2	0	Dive Black (582/2) SILT, some Clay, trace fine Sand (wet)
12	12-14 /	(48	1.8	0	Dame
15					EOB at 14 ft by, install 1-ic PVC well

	Driller: <u>P</u>	arrat.	Wolfs		Dvirka and Bartilucci Bori	ing Log	Boring ID : 84
	Inspector:	S. Pep	ling		Project Name: Dtice Whiteshe	rostroot	Sheet of
	Rig Type:_	IR/	1300		Project #: <u>1909</u>		Location: centur
• •	Drilling Me	thod: <u>ÀM</u>	ect pu	sh	Boring Depth: <u>141</u>		Quest side Are
÷			Groundwa	ter Observ	ations Start (Date & Time): 6/5/03-1542	Location Sk	etch:
		Date			Finish (Date & Time): 0/c/02 -/6/C	N IOBI	P2
		Time			Weather: Overcest proverlass	T eB4	ors freed
	Casing	/Total Depth	N		Elevation of Ground Surface:		*87
	Sample	Sample	Rec	PID	Field Description	Well Schemati	c Comments
Ð	D-2 /	1543	<u>(Feet)</u> 0.3	0	Graishbrown (SYR3/2) SILT. Suie		
j	Ľ/				Si sand (moist), grant frequent innese		1" of puc ris
• . 						K	4 wosand or
2	2-41	1548	0.9	0	Some		peterd et 3 ft.0
3	$\square$			ļ	redbtick		relistet 3ft, 1
-						Li li	to strojin
4	<b></b>						
5						-	
						- K	1 Popul
ę							10stor Scile
7							
C C	/						collected sample
0	8-10	1606	0.4	0	Dork yellowish brown (104R 4/2)		WB-B4(8-12
9					(no ist)		PEB, THL, CN
In	Z						-water at 10
	10-12	1608	0.2	10	- Drive ( Wet)		
11							
62	10147	11.10	10	10		L	
	12-1	11000	16 8				
13	$\square$						
14						4-1-	- 14'
, Â					PUCLED IT IT OF SCREELOSS	H	
						1. The second	
	-						an Ingelander Angeler State Angeler State

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Karratt-Wolfs Driller:\_ Dvirka and Bartilucci Boring Log Boring ID: 8-5 Inspector: S. Pepling Project Name: Whitesboro Sheet / of Rig Type: TR AZÓO Project #: 1909 Location: center Drilling Method: direct push /31/4 in HSA Boring Depth: 19 Area 1 Start (Date & Time): 6/5/03 - 14/16 Location Sketch: Finish (Date & Time): 6/5/03 - 1505 Groundwater Observations Date 4 V Weather: Duarcast, uppirlost oBi Time • B2 DTW 1ain 035 Casing/Total Depth Elevation of Ground Surface: Areal Sample BEC Sample PID **Field Description** Well Schematic Interval Comments No. (ppm) teet 81255 0 2-2 1418 Orgyisk bines (54 P312) SILTand Q 5 SAND (moist) ľ cinders, red brick (1-2) "& PKriser 2 posendor -4 1421 0.2 Õ Red brick and gravel Congunant. seal 3 4 vefusel ets' 41 1426 Redbuck cinders, and gravel 4-6 0.4 0 Used HSD to augar to 6, seems clear 5 Ç 1º OPVC 6.8 1438 0.2 Ø Grayist Stown (STR 3/2) SILT, some fie Soud, trace fic gravel (upisty 10slotsureen 7 8 (clloced saple WB-BS(8-D) Sarvers, SUCCS, Pest/PB, TAL-CU Modulte Siona (SYR 4/4) LI SAND, little fim graved, little silt ( usion) 8-10 1445 0.9  $\mathcal{O}$ 9 10 sure (wet) 10-12 1448  $\overline{O}$ 1.4 11 bo sand or seed 12 2.14 1450 Beng D 1:0 13 14 14" EOB at 14 ft by Install 1-in Ø FUC well, 10 ft. 10 slot 15 Soil Stratigraphy Summary

Driller: <u>Pocrat</u> , nspector: <u>S,Pe</u> Rig Type: <u>TPA</u> Drilling Method: <u>A</u>	Wolfs pling 300 rect push	Dvirka and Bartilucci Bor Project Name: <u>Dtice-Wh.tesbere</u> Project #: <u>1909</u> Boring Depth: <u>14'</u>	ing Log Street	Boring ID: <u>B6</u> Sheet <u>i</u> of <u>i</u> Location: <u>E center</u> Side Area (
Date Time DTW Casing/Total Depth	Groundwater Obser	vations       Start (Date & Time): <u>6/6/03-032</u> Finish (Date & Time): <u>6/6/03-032</u> Weather: <u>0007505F</u> Elevation of Ground Surface:	Location Ske $\int \rho_{rec} l$	etch: Are Z B B B B B B B C C C C C C C C C C C C C
Sample Sample Interval No. 6-2 / 1034 2-4 / 1037 4-6 / 1040 6-8 / 1044 8-10 / 1047 8-10 / 1047 1072 / 1050	let let p=0 let let let let let let let let let let	Field Description Gravishbrown (SYR 3/2) SILT, some Sec Sand, trace f. mig ravel (metst) ted brick red brick red brick concrete (O. Z'thick) concrete (D. T'thick) Same (weath) Same (weath)	Well Schematic	Comments 1" P V R: 50 KD Sandor Seal WD B(R-10) Jur UK3, SVIL, RE PB, TAL, CU Jur UK3, SVIL, RE PD, TAL, CU Jur UK3, SVIL, RE PD, TAL, CU
12:14 / 1055		Hoderate brown (SYR3/4) fic SAND Same Silt, trace fim. gravelluse) EOB at 14 Stheq, Install 1. inf PVC Well		- 1"OPUCIDS Screen

.

Driller: Parratt-Wolf Dvirka and Bartilucci Boring Log Boring ID:67 Inspector: S. Popling Project Name: Utica-Whitesboro Street sheet 1 of 1 Rig Type: IR A300 Project #: 1909 Location: Mid South Drilling Method: direct push Boring Depth: 14 Center Area 1 Start (Date & Time): 6/5/03-15/0 Location Sketch: Groundwater Observations Finish (Date & Time): 6/5/03 - 1535 Date 021 •B2 Time Weather: Breach upper 60 15 øBS DTW rain • B7 Casing/Total Depth Elevation of Ground Surface: Sample Sample Blows **Field Description** Well Schematic Interval Comments No. 0 0-2 1512 Darkyelladehormalloye 1/2) SILTand Siscind (une, st 0.4 D 1 # 2 Novandor Seal 1513 Brick(red)  $\widehat{O}$ 1.1 3 4 41 1515 0 O.I brick. 5 6 X 1.520 collect surple 0.9 brick 12 Moderate brown (54R314) fishod, Some silt, little f. mgrund (maist) 156-87(6-Shor 7 VEC, SUCK, Aurt, PEB, THLCU 8 Drockyellourish brown (10 YR 4/2) E. m SAND, little silt, little from Jravel (wet) --1Ù 1524 8  $\hat{n}$ 0 watere 8.5' 9 101 10:12 1526 0.4 Sauce D 11 1'OPUC 10sbt screen 12 12-14 1530 0.7 Sthere styleh red (10 R 4/2) SILTend CLAY, trace Sigrace ( acoust ) EOB at f4 ft b3, install 1-in Ø 13 14 141 Puc well 10ft suren, 10 slot. 15 Soil Stratigraphy Summary ŝ.

	Driller: Park	Att. Wolls Repling	2	Dvirka and Bartilucci Bori Project Name: <u>Utica - Whitesh</u>	ng Log ore St.	Boring ID : B
	Rig Type: <u> </u>	Directil	sh	Project #: <u>1907</u> Boring Depth: _ <u>_19'</u>		Corner Areal
	T Casing/Total I	Ground Date Fime DTW Depth	lwater Observ	ationsStart (Date & Time): $6/5/03 - 1627$ Finish (Date & Time): $6/5/03 - 1648$ Weather: $0$ Vercust, $veps 603F$ Image:	Location Ske	ich: Water St
	Sample Sam Interval No	ple Rec Blows	(DTD)	Field Description	Well Schematic	Comments
12	0-2 / 16. 2-4 / 163	29 0,7	i o	Grayich house (STR 3/2) SILT, some clay, little ficsand (mors) some	R	no sendor sec
3 4 5	4-6/11	35 0,2		Hoderste brann (54R3/4) f. HISTAD, Ernes: It, truce foregrand Greist	- 41'	Collected Soil SamplewB-BBL Sos Vocs, SVOCS, P PCB,T4L, CN 1" OF PVC
8 0	8-10/16	37 0,4 39 0,4		Sane (wet)		-anterat 8,564
10 10 11	10-12/16	41 0.	7 0	Sance		
13 14 15		44 1. 1		Some Greyish Red (10 R4/2) SILTand ChAY, trace cisend (Ving conpect) (me. st) EOB et 14 fit bg, install 1-in & Pric Well, 10 ft toslot scores.		14

	Driller:	S.P.	1-100/1 epling 7300	R		Dvirka and Bartilucci Bor Project Name: <u>Ufica</u> Whytesh Project #: <u>1909</u>	ing Log xc St	Boring ID : <u>B7</u> Sheet of Location: <u>Sout</u> 4
	Drilling Me	ethod: <u>dire</u>	ectpus	<u> </u>	-	Boring Depth: <u>14'</u>		Lenter Area 1
		Date Time DTW	Groundwa	ater Observ	vations	Start (Date & Time): <u>6/6/03-0800</u> Finish (Date & Time): <u>6/6/03-0824</u> Weather: <u>00052&lt;555</u> F	Location Ske	How I: AN
F	Casing Sample	Total Depth	Rer		1	Elevation of Ground Surface:		TE LITT D
0	Interval	No.	Blows	(NDM)	gruss	Field Description	Well Schematic	Comments
	2-4 2-4 4-6 4-8 5-10/ 1012/ 12-14/	0802 0802 0804 0804 0806 0810 0810 0812 0812 0815	0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	(spre) 0 0 0 0 0 0	Reduct Figran Heduct Start Heduct Start Stul Same - becom Same - becom	(UI) SILT and C. SHWD, trace will unist » yellowish be own (104R 5/2) ND, 1.441esilt (une ist) and f 5.440D (uncist) rebrown (SYR 3/2) fr.544D, esilt (unoist) es (unet) at 8.5'bz es (unet) at 8.5'bz		Connerne 100 the riser 200 Seal 100 the dos 200 Seal 200 the dos 200 the dos 2
13-	$\angle$				Blackis	L'HO (SR2D STITE DCLH)		1.11
	Boil Stratigra	phy Summan	γ			EOB at 14ft by, install 1-in P Re uzell		

Inspector: Rig Type: Drilling Me	SiPepl IRA ethod:	ing 300 treet pe	L		Project Name: <u>Utica - Whitehor</u> Project #: <u>1909</u> Boring Depth: <u>14'</u>	UStreet		heet of ocation: <u>southers</u>
Casing	Date Time DTW /Total Depth	Groundwa	ter Observa	ntions	Start (Date & Time): <u>C/L/103-0(&lt;3</u> Finish (Date & Time): <u>4/L/03-0850</u> Weather: <u>DV2.ccs</u> , <u>wo(02-503F</u> Elevation of Ground Surface:	Location Hree	Skell	
Sample Interval	Sample No.	Rec <del>Blows</del> (feet) 0,6	PID (PPN) O	erass Gerigh	Field Description	Well Sche	matic	Comments
2-4	O632	1,2	0	Keder Sonie Sonie	the brown (SYR3/A) SILT, 2Clay, 17H1+ S. M. Sand, Hace gravel (maist) trace redbrick		r	) " & PUCR: 100 sand o Seal
4-6	0835	0.6	0	Kodura SILI	tebroundstrady ficstrade and tracefungravel (moist)		4'	
, 6-8	0837	0.8	0	Sure	1 1 1-VE SIDE ( SAND			Collecter Say WB-BHU (6-S) UPUS, SUKS, FE PCB, TAL, CK
2	0839	0.7		Koden 1:446 gravel	S: 1+, 1: the ficgravel (recis) Sraquents			- Kater et 10
12 12-14	1 0845	<i>J, D</i>	0	- Der Ey	elloutohbrown (107R4/2)		fr-	r 1"O PUC 10 slotscre
3				- (wi	D. EOB et 14 bg. instell			41
נג <u>יי</u>					-in 9 PVC well			

Driller: <u>Parrat</u> Inspector: <u>S.Perc</u> Rig Type: <u>TR</u> Drilling Method: <u>J</u>	-Wells Dling 1300 rectpish	Dvirka and Bartilucci B Project Name: <u>Utica</u> WL:tree Project #: <u>1909</u> Boring Depth: <u>14</u>	oring Log share St	Boring ID : <u>8//</u> Sheet _ 1 of _ 1 Location: <u>DE</u> Corner Frize Z
Date Time DTW Casing/Total Depth	Groundwater Obser	vations       Start (Date & Time): $\frac{6}{6} \frac{16}{03} \cdot \frac{0943}{1005}$ Finish (Date & Time): $\frac{6}{6} \frac{16}{03} \frac{1005}{1005}$ Weather: $\frac{6}{2} \frac{100}{2000} \frac{1005}{1005}$ Elevation of Ground Surface:	Location Ske	By
Description of the second seco	Kei PID Blows (PPM) (Freeh (PPM)	Field Description Field Description	Well Schematic	Comments
$ \begin{array}{c c} 1 \\ 2 \\ 2 \\ - 4 \\ - 4 \\ - 4 \\ - 4 \\ - 4 \\ - 4 \\ - 4 \\ - 4 \\ - 4 \\ - 4 \\ - 5 \\ - 7 \\ - 7 \\ - 6 \\ - 7 \\ - $		Sane Sane		- 140 PVC Mise Collect simple WB-BH (2-4) Sor Vecs, SUCS, Post PES, TAL, Cho NOD Sandar Seal - 140 PVC 105lot Screen - Woeter et 8'by - 141'

	Rig Type:_ Drilling Me	TRA	300 Jiert Pu	sL/HS	Project #: Boring Depth:		Location: Southarst
		Date Time DTW	Groundwa	ter Observa	tions Start (Date & Time): $6/6/03 - 0838$ Finish (Date & Time): $6/6/03 - 0933$ Weather: $Dvarcest$ upper SCIF	Location Sk	Area 2 Brz
	Casing	/Total Depth	Par	D-h	Elevation of Ground Surface:	-	
,	Sample Interval	Sample No.	Blows (feet)	(Ppro)	Field Description	Well Schemati	c Comments
	0-2	0859	0.3	0	Redbrick		1:1-0 Pic
~	$\square$						Dosediers
_	2-4	0901	1,2	0	Light olive grey (546/1) f. stypand TLT (nuestar 1. Ke) layers 0.02 thick up		Photo
3	/				paper like separations (muist)		
1	4-6 /	0905	0.7	0	Same	-4'	1-indPUL 1-tsure
5					Sun fic sondi some red brick (marst)		10501
f	6-81	0918	0.1	0	red perch	I I	- refusil at 6 ft 34454 to 6. Stt
7						-	
8	10-10	0520	12	0	Hodesetebrown (5423/4) Fic SANDy		-waterats
9					some sitt, trace f. gravel (wet)		WB-B12(8-10) G-VOCS, SUUS
10		0000			3/12-0	5	Perd. PCB, TAL
11		0726	1.0			7	septic-like co
0	, /		<u> </u>		becomes wince ( ( )	Z	
<u>م</u> ا	12-14	0930	1.4	0	Jene		
15					Blacky, Lived (5R 2/2) SILTand Ch44, trace S. gravel (movint)		
1	"/				EOBot 14 ftbg, instell		-14
U	) 				- 1-int PVC well		

Driller: <u>Powra</u> ti nspector: <u>S,Pe</u> Rig Type: <u>TR</u> Drilling Method: <u>2</u>	P. Works pling 200 -in 0055 dia	t pitch.	Dvirka and Bartilucci Bor Project Name: <u>Utive-White</u> Project #: <u>1909</u> Boring Depth: <u>D</u>	ing Log	og         Boring ID : <u>8/4</u> C         Sheet _/	
Date Time DTW Casing/Total Depth	Groundwater Ot		Start (Date & Time): <u>6/1/05-1319</u> Finish (Date & Time): <u>6/1/05-1395</u> Weather: Elevation of Ground Surface:	Location Ske	stch:	
Sample Sample Interval No.	REC PIL	4	Field Description	Well Schematic	Comments	
0-2 / 1320	1.4 0	44 95 9 track	y McC BRAVEL, some fiscind, osi (4 (dry)			
2-4 / 1322	0.20	redbrie Same	★ 100 100 100 100 100 100 100 100 100 10			
4-4 / 1328	0+40	Sant				
		DKbrun Cilan	un to block silt and wood frequests			
			own fisher Dendsiter, trace figures		Collete) B14(6 Sor Vockuoc	
8-10/ 1332	0.3 0	Red by a	Kand SILT, some wood of 9,8 ft by		collected B14(8-, Sez voc/suoc	
			EOB et 10 ft bg		1-902	
in a substance in a s						

Driller:F Inspector:_ Rig Type:_ Drilling Me	SPeol: SPeol: IR 20 thod: 41/2	Wolf 20 1:n HSA/	2-1125	Dvirka and Bartilucci Bori Project Name: <u>Diffect KMatheb</u> Project #: <u>1909</u> Direct Boring Depth: <u>HTB</u> 10.0	ng Log	Boring ID : $\underline{B/}$ . Sheet $\underline{/}$ of Location: $\underline{25'W}$ $\underline{25B'-5}$
	Date Time DTW	Groundwa	ter Observa	tions       Start (Date & Time): $\frac{1}{6}\frac{1}{65} = 1348$ Finish (Date & Time): $\frac{1}{605}\frac{1}{65}$ Weather: $\frac{1}{605}\frac{1}{605}\frac{1}{55}$ Elevation of Ground Surface:	Location Ske	etch:
Sample	Sample	REC	PID	Field Description	Well Schematic	Comments
Interval D-2 2-4 1 1-10 1 	No. /350 /357 /357 /359 /1359 /1405	1.8 1.8 1.2 1.2 1.2 1.2 1.2		MJ-DK brown SILT, some fim Sand, trace figure (Dig) be comes bleck Red brick Bed brick Black F. SAAD, Some figrevel, some si litedean MJ-DK brown SILT, Some fiscund; trace migravel (Jampso Samp -becomps med brown -be canes (moist) Med brown S. M. SAND, Some Silt, trace fim gravel (moist) Samp weit at 9 ft bg		Collectsauple BLS (2-4)-fa- VOCS and SVOL Collected sauple B/S(6-8)-fo- VOLS + SUDC
				EOBETRATE		

Driller: $\underline{facta H} = \underline{Wollsk}$ Inspector: <u>S. P.e. I: nj</u> Rig Type: <u>TR 200</u> Drilling Method: <u>4<sup>1</sup>/4 <u>HSA</u>/2-: <u>a</u> <u>ODSS</u></u>			DDS5	Dvirka and Bartilucci Bor Project Name: <u>Utica</u> Whites Project #: <u>1909</u> Boring Depth: <u>10</u>	ing Log Boring ID : らってつ Sheet / of _ Location: スケル NNWof Ref	
	Date Time DTW	Groundwa	ater Observ	ations       Start (Date & Time): $\frac{1}{6} \frac{105 - 1450}{105 - 1517}$ Finish (Date & Time): $\frac{1}{105 - 1517}$ Weather: $\frac{1}{10000000000000000000000000000000000$	Location Ske	etch:
Casing Sample	/Total Depth Sample	REC	DED	Elevation of Ground Surface:		1
Interval	No.	-Blows (Feet)	CAPPA	Field Description	Well Schematic	Comments
2-4	1452	1.0	0	DK brown SILT, frace an gravel (Dry) L+ grey fic gAAVEL; trace fisand (Dry) bid-L+ brownfine SAND; trace Silf; (Davo) hed brock Red brick Black Silt and ingravel (Dry) Med brown SILT, some fine Sand, trace		collected B17(2- Car VOCS/SVO
H-le /	1509	106		Mi-grave((dup) DK brown SILT, tractisand (dup) Red Brich Med brown SILT, Sono Grugrand, 1, Hile f. M. Sand (dup)		
8-10	/512	0,3	0	Sung		Collected BIDC for Vozs/SVOC
				E03@10.4Hbg		
			······			

nspector: <u>SRe</u> Rig Type: <u>TR</u> Drilling Method: <u>4</u>	- 1201, 200 4 45A/2-	1. 0D 55	dirort Push	Dvirka and Bartilucci Bori Project Name: <u>Utice</u> Whitesb Project #: <u>MDG</u> Boring Depth:	ng Log	Boring ID: <u>875</u> Sheet <u>1</u> of Location: <u>25 AF NKC</u> <u>aS_B-S</u>	
Date Time DTW	Groundwa	ier Observa	ations	Start (Date & Time): <u>6/1/15 - 1413</u> Finish (Date & Time): <u>6/1/05 - 1442</u> Weather: <u>Clear</u> , warm 608F	Location Ske ල ල-ර	etch: @ B/&	
Casing/Total Depth	REC	177	 	Elevation of Ground Surface:		T	
Interval No. 0-2 1414 2-4 1416 4-6 1428 6-8 1430	Blows (foot) 0,9 1,0 1,2 0,9 1,2 0,9	0 0 0	Red bis Med bis Red bis Red bis Red bis Figre Sigre Sigre Sigre Sigre Same	Field Description town SILT, some f. Sand, trace and (dry) in h oun SILT, some f. Sand, trace well damp (damp) in f. SAND and a. ORAVEL, trace (damp) (damp) with start and f. m. SAND, ce finger gravel (damp) w/ Song coel fragments		Comments Collected B18/4-4 Sor Vois + SVOC	
			fight fight	avel (rro: of)		College J 0/00 Gor V 005 +500	
				-UD 07-105-55			

Driller: <u>Forrad</u> Inspector: <u>S, Pa</u> Rig Type: <u>FR</u> Drilling Method: <u>4</u>	- Wolff Pliny A200 1/4 H5A	Dvirka and Bartilucci Bor Project Name: $D+: c \in Wh, f$ Project #: $1909$ Boring Depth: $14^{1}$	ing Log	Boring ID : <u>8/3/</u> Sheet _/of _/ Location: <u>SW aS</u> <u>B5 by 25'</u>	
Date Time DTW	Groundwater Obsen	ations       Start (Date & Time): $6/1/05 \cdot 1/1.5$ Finish (Date & Time): $6/1/05 \cdot 1/240$ Weather: $Closs$ , $Work 6055$	Location Ski Bگ	etch: , fcwi	
Sample Sample	REC PID Blows	Elevation of Ground Surface:	Well Schematic	Comments	
Interval No. 0-2   1)16 2-4   1123 4-6   1126 6-8   1131 8-10   1133 8-10   1133	(p+) (ippm) 0.8 $1.60.9$ $00.9$ $00.9$ $0NR$ $00.7$ $0$	Gravish brown (SHR 3/2) STLT and fisho brown (SHR 3/2) STLT and fisho brown STL T, some (Ally - Dand) Red brown STL T, some fine Sand) tracefigrend (damp) Moderate brown (SYR 4/4) fishob, 14tte fingravel, little Silt (meist) - becomes wet et 9.8		- Z 3 Collected KUOI (4-1) Sec. 1005+50025 Collected KUOI (8-1) Soc UDES + 50005	
		EOB@14ftbg install well		- 14.0	








riller: <u>Paratt-1/Jolff</u> nspector: <u>S. Peplinc</u>				Dvirka and Bartilucci Bori Project Name: <u>Ut-ca-White</u>	ng Log sbere	Boring ID : <u>B/G</u> Sheet of	
Rig Type: Drilling Meth	TR 2 nod: 47,	4 HSA/=	2-1-03	Project #: <u>1909</u> SS Boring Depth:		Location: <u>NWafB5</u>	
	Date Time DTW	Groundwa	ter Observa	tions Start (Date & Time): $\frac{1}{6} \frac{1}{6} \frac{5}{5} \frac{-1530}{5}$ Finish (Date & Time): Weather: $\frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{5} \frac{1}$	Location Ske	etch:	
Casing/T	otal Depth	REC	>	Elevation of Ground Surface:	-		
Sample Interval	No.	Blows	(P24)	Field Description	Well Schematic	Comments	
0.2/	1532	1.0	0	MedbrocheSILT, trace in gravel (dig) Redbrick			
2-4	1534	0.02	0	Rod brick,			
4-6	1542	D. Ş	0	DK brown f. MSAND, some silt, little fic gravel (moist)			
6-8	1556	1.3	0.3	Lt gray P. C GRAVEL and fie SAND, 1444 Sitt (Day) Woothered concrete mark Brown S. SAND, Some Site (moist)		collat 4102(6-8) Su-vac/svac	
8-10	1558	Øeg	0.1	Doric Biour ficsAND, Some si / + ("woist)		collected Me ZE	
10.12	1605	008	0,0	wet at 9.5 Dork Brown & CSAND, Some silt, trace migravel (wet)			
12-14	1610	0.8		_sane			
14-16	1612	1.1	0	Sance			
				becomes darkgity-brann			
16-18/	1615			-Saue			
18-20/	;618	2,0	P	Sime			
				Med grey brown SELTAND CLAY, trac	e		

Driller: <u>Pacrath-Wolfs</u> Inspector: <u>S. Pepling</u> Rig Type: <u>TR 200</u> Drilling Method: <u>414 H5A, 2-1, 0055</u>			- Strack	Dvirka and Bartilucci Bor Project Name: <u>U4: ca Whites</u> ) Project #: <u>1909</u> Boring Depth: <u>14.0</u>	ring Log Stars	Boring ID: <u>M</u> ( Sheet <u>1</u> of <u>1</u> Location: <u>SW of B</u> NE of H4	
Casing/	Date Time DTW Total Depth	Groundwa	ater Observ	ations	Start (Date & Time): $\frac{6/2}{05-050}$ Finish (Date & Time): $\frac{6/2}{05-053}$ Weather: $\frac{PaA4y closedy, Loss F}{2}$ Elevation of Ground Surface:	Location Ske	etch: 9 B/ <sup>®</sup> Mub3
Interval	No.	Blows	AT D (ATTA)	For the o	Field Description	Well Schematic	Comments
2-4	0916 0932 0932 0945	0.4 0.1 0.1 0.9		fige Same, n Med br train 1itt	welldigs -/redbrick; wood over f. c SAND, some silt; e fime gravel (deep) over f. c SAND, some silt; e f. c gravel (wet)		2.0 3.0 -4-6' refusel at 4.1-concrete Collate HW3/6 So VOG/SU02 - wet@8'
					EOB @ 14 ft Install well,		14.0
							ome sample only, ducto poor recou lack of FIB needings

Dvirka and Bartilucci			
A DIVISION OF WILLIAM F. COSULCH ASSOCIATES, P.C.	Well Construe	ction Log	
Site Ofica - Whiteshoro St		Job No. 1909	Well No. HW3
Total Depth <u>14, O</u> Sur	face Elevation	Top Riser E	levation
Water Levels (Depth, Date, Time)		Date	Installed 6/2/25
Riser Dia. $\frac{2-i_{M}}{2-i_{M}}$ Screen Dia. $\frac{2-i_{M}}{2-i_{M}}$	Material <u>PUR</u> Material <u>PUR</u>	Length <u>4</u> ft Length <u>10 ft</u>	Slot Size 10
Surface Seal Type	SCHEMA	ATIC	
<u>Concrete</u> <u>Stush Mart</u>			Ground Surface Riser Elevation Bottom Surface Seal
Grout Type			
Seal Type <u>Enviroplug</u> <u>Prodimeting</u>	Σ	<u>2.0</u> T <u>3.0</u> T <u>4.0</u> T	op Seal 'op Sand Pack 'op Screen
Sand Pack Type <u>Industrial Questo and Pack Type</u> Size <u>#1</u> 6 Legs	左		
		<u></u>	Bottom Screen Total Depth of Boring

Inspector: <u>See</u> Rig Type: <u> </u>	- Pupling 200 14 HSA 2005	Dvirka and Bartilucci Bor Project Name: <u>Uf:ca-iDh:feshe</u> Project #: <u>1909</u> Solved Boring Depth: <u>14</u>	Dvirka and Bartilucci Boring Log Project Name: <u>Uf:ca-iDh:festora St</u> Project #: <u>1909</u> Boring Depth: <u>14</u>	
Date Time DTW Casing/Total Depth	Groundwater Obse	Invations       Start (Date & Time):       Lefa/105-0730         Finish (Date & Time):       6/2/05-0700         Weather:       Picture (Tack), war 60%         Elevation of Ground Surface:	Location Ske	€ 200,120
Sample Sample Interval No.	Blows PID Reat Coprin	Field Description	Well Schematic	Comments
<u>U-2</u> <u>2-4</u> <u>7-4</u> <u>7-4</u> <u>7-6</u> <u>7-52</u> <u>7-6</u> <u>7-6</u> <u>7-6</u> <u>7-748</u> <u>7-6</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-748</u> <u>7-752</u> <u>7-748</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-752</u> <u>7-7</u>	0,8 0,3 0,9 0,7 0,9 0,7 1,1 3,1 1,2 0 1,2 0 1,2 0	Med brown SILT, trace f. gravel (Drs) Redbrick Redbrick Redbrick Dk brown to black SILT and f. (SAND, trace f.m. Gravel (Damp) Med brown SILT, tracef. send, trace f. gravel (Damp-proist) Some Med brown f. (SAND, Some Silt, Ned brown f. (SAND, Some Silt, (SAND, Some f. (SAND, Some Silt, (SAND, Some f. (SAND, Some Silt, (SAND, Some f. (SAND, Some f. (SA		2.0 3.0 60160+ KU14 (4-2 for voc/svoc Collect KW4/62 For voc/svoc



	Well Construction	Log	
Site Office Whitesbor	To Street Job	No. 1909	Well No. <u>Jewy</u>
Total Depth 14.0 Sur	rface Elevation	Top Riser Ele	vation
Water Levels (Depth, Date, Time)		Date In	nstalled 6/2/05
Riser Dia. <u>2-114</u> Screen Dia. <u>2-114</u>	Material <u>PVC</u> Material <u>PVC</u>	Length <u>4 C+</u> Length <u>10 F+</u>	Slot Size //
Surface Seal Type	SCHEMATIC		
Concete Stuck yourt			Ground Surface Riser Elevation Bottom Surface Seal
Grout Type			
Seal Type <u>Enviroplog</u> <u>Meding un Chips</u>		$\frac{2, \mathcal{O}}{\underline{3, \mathcal{O}}} \operatorname{Top}$ $\frac{\underline{3, \mathcal{O}}}{\underline{4, \mathcal{O}}} \operatorname{Top}$	o Seal p Sand Pack p Screen
Sand Pack Type <u>Industrial Qt</u> Size <u>#</u> ) 6 bay 5			
			ottom Screen
		<u> </u>	otal Depth of Boring

Driller: <u>Parce</u> # Inspector: <u>S</u> , <u>Pee</u> Rig Type: <u>ER</u> Drilling Method: <u>44</u>	- 100147 Sing 200 HSA/a-incoss.	Dvirka and Bartilucci Bor Project Name: <u>Útice - Whites be</u> Project #: <u>1909</u> Droject #: <u>14</u>	Dvirka and Bartilucci Boring Log     F       Project Name: <u>Utica - Whites baro St</u> s       Project #:     1909     1       Boring Depth: <u>14</u> -		
Date Time DTW	Groundwater Obser	vations     Start (Date & Time): $\frac{1}{6/2/05} - \frac{1350}{1350}$ Finish (Date & Time): $\frac{1}{2/25} - \frac{1353}{1533}$ Weather: $\frac{1}{16} - \frac{1900}{1000} + \frac{1000}{1000}$	Location Ske M&C W <u>ster407</u>	etch: 6 HWS F(S+	
Sample Sample	REC TD	Elevation of Ground Surface:	Well Schematic	Comments	
4-6 / 1404 6-8 / 1407 8-10 / 1428	0.50	Med brown f. SAND and SILT, trace f. gravel (damp) DK grey brown SILT, some City, trace fin gravel (moist) DK brown SILT, little Chy (moist), organic Med brown f. m SAND, Some Sift, trace f. gravel (weet)		2,0 3.0 - wet@9"bg 14.0	
		EOBO 14 fit Install well			



	Well Constructio	n Log	
Site Dica Whit	tesboro St Jo	ob No. <u>1909</u> Well No.	MIDS
Total Depth	Surface Elevation	Top Riser Elevation	
Water Levels (Depth, Date, Time	)	Date Installed	6/2/05
Riser Dia. 2- Screen Dia. 2.	InMaterialPVCInMaterialPVC	Length <u>494</u> Length <u>1094</u> Slot Siz	ze <u>10</u>
	SCHEMATI	C	
Surface Seal Type <u>Concepte</u> <u>Solutions</u>		Ground	Surface Riser Elevation Bottom Surface Seal
Grout Type			
Seal Type <u>Envirof</u>	<u>37 Mad</u> ine	$\frac{2.0}{3.0}$ Top Seal $\frac{3.0}{4.0}$ Top Sand Pack	4
Sand Pack Type <u>Tudostr</u> Size <u>#1</u>	<u>ial @tz</u>		
		<u><math>  \mathcal{Y}_{\ell} \mathcal{U} </math></u> Bottom Scree	n
		$\underline{j4.0}$ Total Depth of	of Boring

Driller: <u>Postatt</u> nspector: <u>S. Pe</u>	-Wolff sling	Dvirka and Bartilucci Bor Project Name: <u>U4icco</u> -Whitesb	ing Log	Boring ID : <u>M (</u> Sheet of	
Rig Type: <u>TK</u>	1154 2-in 005	Project #: <u>1909</u> 5 Boring Depth: <u>14,0</u>	Project #: <u>1909</u> Boring Depth: <u>14,0</u>		
Date Time DTW Casing/Total Depth	Groundwater Obsen	rations       Start (Date & Time): $\frac{1}{2\sqrt{25} - 1/100}$ Finish (Date & Time): $\frac{1}{2\sqrt{25} - 13.25}$ Weather: $\frac{12\sqrt{41}}{\sqrt{25}}$ $\frac{50^{\circ} \text{s}^{-1}}{2}$ Elevation of Ground Surface:	Location Ske 6 MD 6 El H2	weter St	
Sample Sample Interval No.	REC PID Blows (PDm)	Field Description	Well Schematic	Comments	
0.2 1102 2-4 1104 2-4 1104 2-4 1112 2-4 1112 6-8 1112 8-10 1120	2.0 0.9 0.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	DK brown to black, SILT; little ficsends 10+the fic gravel, coil (Dry) Hed brown fin SAND, 10+the sill + (Daun) Hod dK brown-grey SILT and CHAY (Daug Same DKD; ann to black finsthild Davids; it, (Daug) DKD town fic SAND, Some silt (Marchist) We tat 7.5' Same		2,0 3.0 Jegin-Stlog collected Hubble So-10c/SVOC -Usiter@ 7.5' Potroleun-like c	
10-12/1130	017 213	DKbrown SILT, Some Clay, 11 Hte G. Sand (WED)			
12-14/ 1132	1,40	DKbrown P. m SAND, 1:44 / Silt (Wet)		slight potroleum-1, odar	
		EOBQ 148469 Install well.		14.0	





Driller: <u>Poctath</u> Inspector: <u>5.Pe</u> Rig Type: <u>5.2</u> Drilling Method: <u>4</u>	120159 Sting 00 4HSR, 2.120055	Dvirka and Bartilucci Bo Project Name: $D+ica - WhiteProject #: 1909DirectBoring Depth: 14,0$	Dvirka and Bartilucci Boring Log Project Name: Dtice Whiteshard St Project #: 1909 Boring Depth: <u>14,0</u>		
Date Time DTW Casing/Total Depth	Groundwater Obser	rations       Start (Date & Time): $c/2/a < -1540$ Finish (Date & Time):       Weather: $Part Hy r(a > 2)$ , $75\%$ Understand       Elevation of Ground Surface:	NA HA	etch: water 54	
Sample       Sample         Interval       No. $2-2$ $1542$ $32-4$ $1542$ $32-4$ $1542$ $4-2$ $1542$ $4-2$ $1542$ $5-70$ $1550$ $5-70$ $1552$ $5-70$ $1552$	$k \in c$ PID -Hows (ADN) 1.5 0 0.37 0 1.2 0 1.2 0 0.8 0 1.2 0 1.2 0 1.2 0 1.2 0 1.2 0 1.2 0	Field Description DK bioun tobleck Ster and fim SAND, Some fim Gravel (Dry) (coal) Med Brown Stert, little fields tracefig ravel, the ce day, brick Change Medbrown fieldship, some Silt, little field brown fields Same Game - Medre 8	Well Schematic	Comments 2.C 3.C	
Soil Stratigraphy Summa		EOS IN ft Install well			



	Well Constructi	ion Log	
Site Utica-White	sherro St	Job No. 1909	Well No. MUD-77
Total Depth S	Surface Elevation	Top Riser Ele	evation
Water Levels (Depth, Date, Time)		Date I	installed 6/2/05
Riser Dia. <u>2.1m</u> Screen Dia. <u>2.5m</u>	Material <u>PVC</u> Material <u>PVC</u>	Length <u>4-f4</u> Length <u>10 f+</u>	Slot Size 10
Surface Seal Type <u>Converte</u> <u>Plush mount</u>	SCHEMAT		Ground Surface Riser Elevation Bottom Surface Seal
Grout TypeA			
Seal Type <u>Enviroplog</u> Medion-Chip		<u>2.0</u> то <u>3.0</u> то <u>4.0</u> то	p Seal p Sand Pack p Screen
Sand Pack Type <u>Industrial Ca</u> Size <u>#1</u>		<u>14,0</u> Bo	ottom Screen
		<u> </u>	otal Depth of Boring

Inspector: <u>5.</u> Pr Rig Type: <u>FR 2.</u> Drilling Method:	());;; ;;);;;;; ;;);;;;;;;;;;;;;;;;;;;;	Dvirka and Bartilucci Bor     Project Name: <u>Drice Whites</u> Project <u>#: 1909</u> Boring Depth:	ring Log hero St	Boring ID : 州山 Sheet of Location:	
Date Time DTW Casing/Total Depth	Groundwater Obsen	vations       Start (Date & Time): <u>6/1/05-073/</u> Finish (Date & Time): <u>6/1/05-1100</u> Weather:         Elevation of Ground Surface:	Location Sk	etch:	
Interval No.	Blows Liphu	Field Description Dor KB: OWN (SYR2/2) SILT, littlef. C SB: D. Have in growel (damp)	Well Schematic	Comments	
2-4/0940	0.08 0	Red Brich Etgrey (. SADD and us CRAVEL, 1 Hiesi Hidig Black (Ni) f. CSAND, Some Silt, trece f. gravel (damp) trace brick and ash		2 Collected HW8(2-1 for VDCs+5V02 3'	
1443 0945 16 16 12449 0949 5	1.8 D	Saue Dark Brown (SYR2/2) SILT, Some fistend, trace in gravel, treve class (moist) Sime		Cherto rues (6-3	
	1.4 ()	Medbrown SILT and f. 5,4ND, trace clay (moist) "becomes wet		- water - 9'63	
		EOBE 14 Stba	14.0		
		Install Well			



		Well Construc	tion Log		
Site <u>174</u>	ca-Whitesbo	re St	Job No. /90	Well N	o. KW-8
Total Depth	<u>14 \$+</u> Su	rface Elevation	Тор	Riser Elevation	
Water Levels (Dep	th, Date, Time)			Date Installed _	6/1/05
Riser Screen	Dia. <u>2-1</u> Dia. <u>2-1</u>	Material <u>PUC</u> Material <u>PUC</u>	Length	<u>/0 {+</u> Slot !	Size _/O
Service and Theme		SCHEMA	TIC		
Surrace Seal Type				Groun	d Surface _ Riser Elevation _ Bottom Surface Seal
Grout Type					
Seal Type	EAU propluj Meduca Chios		2	<u>• C</u> Top Seal	
	1 bæg		<u>4</u>	Top Sand Pa	ck
Sand Pack Type Size	Industrial quer #1 6 bajs e soll/be	±z			
				4.0 Bottom Scr	een
		La construction of the second second		4.0 Total Depth	of Boring

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Site Name:	Hica Whitesbaro	Job Number	: 1909		Date: 7/	15/04	• •		Well I	D: MW-1
On Site Pers	onnel: Sc	an Peplin	Sinc	Magd	7					
Weather Con	evel before	<u>See</u> log developmen	book t: 8.57	13.85	17 7 20 6 6	Develo bailing perista air lift other	altic p	ump	nique	12 volt submersible surge block trash pump w/foot valve
Bottom of we	<b>MI:</b>	13.87		530	0					
Wa Date	ater Remov Start	al Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	рН	Cond	Turb	Temp	Observations/Comments
7/5/06	1019	1025	DA 60	0	O					Surged with surge block
7/5/01	1029	1029	PA	0	0	6.03	1.14	7999	12.3	Postsurge/Pre-bail
7/5/01	1030	1035	5	Ngpm	5	6.15	1020	7999	11.9	
7/5/06	1036	IDWI	\$ 11	1gpm	5(10)	6.05	1.38	7999	12.7	
M/5/00	1045	1057	22	1/gpm	5(15)	6.10	1.30	7999	12.9	
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ite Name:	stica Whiteboro	Job Number	1909		Date: $7/5$	106	÷.	•	Well II	D: MW-2	9	
n Site Pers	onnel: 5	in Magè	A/Sean	Repl: m							0940-0 With 3/4	1945 Surge "ID Puc
leather Cor	nditions:	seologbe	70H			Develo	pmen	t Tech	nique	12 volt submersible	+ 2" 5.	orge ble
tatic water	level before	developmen	ti 7.87_	С	936	perist air lift other	altic pu	ımp	<	surge block	/alve	
ottom of we	ell: 13,90 well vol	unes 2.8	9 gallows					- 				
W Date	ater Remov Start	al Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	. ςυ 	мs/ст Cond.	NFO Turb	ەر Temp	Observatio	ns/Commei	nts
7/5/06	0947	0957	10		5	5.58	1.01	>999	13,3	water brown /re	iny tonbil	
7/5/06	0959	1006	7		5	5.72	1.00	7999	12,7	Same 95 a	bove	and the second s
7/5/06	1008	1014	Jo th		5	5.69	1.17	7999	12,3	sume as a	ibouc	44 (24)
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Site Name:	Utica Whitesbag	Job Number	: 1909		Date: 7/	5/06	14 - L		Well I	D: MW-3	
On Site Pers	sonnel: て	n Magde	a/SeanPe	pling				Ĩ			1034 sunge well 3/4"ID Arc 1
Weather Con Static water Bottom of we	nditions: <u></u> level before ell: <u>13,90</u> 3,901 - 8.5	$\frac{2e \log bcc}{developmer}$	<u>}</u> nt: 8,57 ×,/6 = 0,8	Fro Page 5 gallo	n logbeok e	Develo bailing perist air lift other	pmen	<b>it Tech</b> ump	nique (	12 volt submersible surge block trash pump w/foot va	+ 2" 30,90 kg 1039 completes
W Date	ater Remov Start	al Stop	Elapsed Time (min)	Flow Rate	Approx Vol Removed	Hq	Cond	Turb	Temp	Observations	s/Comments
76/05	1040	.1055	/5		3	6.06	1.99	7999	14,0	Tunbid Brown /c	cell dry e 3ga
-1/6/05	1057	1106	9		2	5,91	1.98	7999	13,0	Turbid Brown/we	n dry after 254
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<u>l</u>						1623 1623					
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				Well	l Developme	ent Data	a Shee	et			
Site Name:	Vtres LOhiterbog	Job Number	: 1909		Date:	7/5/	06		Well I	Ра D: <i>MW-4</i>	ge <u>/</u> of <u>/</u>
On Site Pers	onnel: – J	im Magi	da / Sea	n Pep	ling						0901 50090
Weather Cor Static water Bottom of we	level before ell: /3,85	<u>developmen</u> 5.56×16=	bbox it: 8.29" = 0.89 gall	TPV UNS	C 0900	Develo Dailin perist air lift other	altic p	<b>t Tech</b> ump	nique C	12 volt submersible surge block trash pump w/foot valve	Well 3/4"ID rise + 6/06 + 0906 stop s 0927 Stop Lell d Allow recone
Wa Date	ater Remov Start	al Stop	Elapsed Time (min)	Flow Rate	Approx Vol Removed	ຸຽປ pH	мs/ст Cond.	Nto Turb	ۍ Temp	Observations/Co	omments
-7/5/06	0917	0927	10		41/2	5,46	1.46	7999	13.3	water brows: / very	tunbid fuell d
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Ø		Ø		Well	Developme	nt Data	a Shee	it ,	÷.	Page of
Site Name:	Hca Whitesboro	Job Number	: 1909		Date: $7/5$	106			Well II	D: 4W-5
On Site Pers	onnel: て	im Mago	Da/Seev	Replin	, ε <u>ς                                    </u>		Â			
Weather Cor	ditions:	seeloghos	o.L			Develo	pmen	t Tech	nique	12 volt submarsible
		<b>V</b>		13.85		perist	g altic pu	ump	•	surge block
Static water	evel before	developmen	nt: 6,92	6.9		air lift other				trash pump w/foot valve
Bottom of we	)  :   	3.85	<i>©</i> ø	693	8 1011	gal/vi				
Wa Date	ater Remov Start	al Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	рН	Cond.	Turb	Temp	Observations/Comments
7/5/06	1200	1205	5	<b>.</b>		5.96	0.746	>999	15:0	preip & post surge / pre-ba. 1
7/5/06	1210	1221	11		_5	5.72	0,77	, 7999	13,0	Durk browns / turbid
7/5/00	1223	123>	14		5	5.49	0,848	7997	13,4	sare as above/ ster nech
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				Well	Developme	ent Data	a Shee	et		Page _/ of
Site Name:	Uticq Whitespee	Job Number	: 1909		Date: 7/	5/06			Well II	D: MW-6
On Site Pers	Sonnel:	ean Pepline	1/Jim M	anda						
Weather Co Static water Bottom of we	nditions: <u></u>	developmer	<u>Scok</u> 1t: 4.85	13.80 13.80 14.89 0.1 53.95 143 143 143 143 143 143 143 143	5 5 0 0 1.43 ft	Develo bailin perist air lift other	<b>2pmen</b> g⊃ altic pι	t Techi ump	nique C	12 <u>volt submersible</u> surge block trash pump w/foot valve
W	ater Remov	al Ston	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	pH	Cond.	Turb	Temp	Observations/Comments
7/5/06	/209	1214	5			5.89	0.589	7999	13.9	postsurge/prebeil - Sheen
7/5/06	1215	12.28	19	Ngpm	5	5.73	0,597	7999	13,7	
7/5/06	1229	1244	35	~ Viter	5(10)	6.04	0.549	7999	13.9	well dry
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#### Well Development Data Sheet

Page \_\_\_\_\_ of \_\_\_\_\_

Site Name: Whitesboridob Number: 1909 Date: 1/3/06 Well ID: Mile	0-17
On Site Personnel: Sean Pepling/Jim Kagda	
Weather Conditions: <u>Seelogbosh</u> 12 85 Development Technique	ubmersible
6.05 peristaltic pump surge blo 7.80 air lift trash pu	bck mp w/foot valve
Static water level before development: 6.05 16 other	
1248 1025gel/vol -	
Water Removal Elapsed Flow Approx Vol. Date Start Stop Time (min) Rate Removed pH Cond. Turb Temp O	Observations/Comments
7/5/06 1106 1111 5 60660.620>999 14.77 Posts	Orge/pre-bail
7/5/06 1115 1121 15 Ngpu 592/ 6.33 0-539 7999 15.1	
7/5/06 1122 1127 21 -19an 5(10) 6.04 0.0518 7999 15.4	
7/5/06 1128 1133 27 ~19pm 5 (15) 6.07 0.510 7999 15.7	
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Weil ID: $\mu U - 8$ On Site Personnel: Sea n Popling / Jim Maga         Development Technique         On Site Personnel: Sea n Popling / Jim Maga         Weather Conditions: Sea n Popling / Jim Maga         Development Technique         Development Technique         Static water level before development: 6.63         Bottom of well: I3.80       Development Technique         Date: 7/5/04       Development Technique         Value development: 6.63       Development Technique         Static water level before development: 6.63       Date: 7/5/04       Development Technique         Value development: 6.63       Date: 7/3/2       Date: 7/3/2       Date: 7/3/2         Water Removal       Elapsed Flow Approx Vol.         Date: Start       Stop       Time (min)       Rate Removed       PH Cond. Turb Temp       Observations/Comments         7/5/04       1/45       1       Mgp4.       5       6.02       1/01       7/99       1/3.4       1/3.4       1/3.4       1/3.4       1/3.4       1/3.4       1/3.4					Well	Developme	nt Data	Shee	t			Page /	
On Site Personnel: Sean Popling / Jim Magda         Weather Conditions: $3ch$ Development Technique         Static water level before development: $6.63$ $7777$ peristallic pump air lift other         Static water level before development: $6.63$ $777$ $777$ peristallic pump air lift other         Bottom of well:       13.80 $7777$ $13bs$ $12 \text{ volt submersible}$ Water Removal Date       Elapsed Time (min)       Flow Approx Vol.       PH Cond. Turb Temp       Observations/Comments $7/5/o6$ $1140$ $1145$ $5$ $ 5.92$ $1.07$ $7979$ $13-3$ $Post Surgar//Re-bal//200000000000000000000000000000000000$	Site Name:	Hica	Job Number:	1909		Date: 7/5	105			Well II	D: 4W-8	, 6,7 34 24	4
Weather Conditions: $\underline{Sep}   \underline{ogbod}$ 13.80       Development Technique         Static water level before development: $\underline{6.63}$ The static water level before development: $\underline{6.63}$ Static water level before development: $\underline{6.63}$ The static water level before development: $\underline{6.63}$ Mater Removal       Elapsed Flow Approx Vol.         Date Start Stop Time (min)       Rate Removed pH Cond. Turb Temp Observations/Comments $7/s/o6$ $1145$ $5$ $ 5.92$ $i.oq$ $7999$ $i3.3$ $Post Surge / Pre-ba//$ $7/s/o6$ $1145$ $11$ $Maper S$ $6.o2$ $i.oq$ $7999$ $i3.3$ $Post Surge / Pre-ba//$ $7/s/o6$ $1146$ $1157$ $17$ $Maper S$ $6.o2$ $i.oq$ $7999$ $i3.3$ $i.oq$	On Site Perso	onnel: <u>Se</u>	en Pepli	ng /Jim	Magd	•							
Water Removal Date         Stop         Elapsed Time (min)         Flow Rate         Approx Vol. Removed         PH         Cond. Turb         Temp         Observations/Comments $7/s/o4$ 1140         1145         5         —         5.92         1.09         7999         13.3         Post Surge         Pre-bai/ $7/s/o4$ 114b         1151         11 $\sqrt[4]{gpth}$ 5         6.02         1.01         7999         13.3         Post Surge         Pre-bai/ $7/s/o4$ 1152         1157         17 $\sqrt[4]{gpth}$ 5         6.02         1.01         7999         13.0 $7/s/o4$ 1152         1157         17 $\sqrt[4]{gpth}$ 5 (15)         5.89         1.02         2999         13.0 $1/s/o4$ 1158         1202         22 $\sqrt[6]{gpth}$ 5         5.89         1.02         2999         13.0 $1/s/o4$ 1158         1202         22 $\sqrt[6]{gpth}$ 5          1 $1/s/o4$ 12         12         12	Veather Con Static water I Bottom of we	evel before	<u>developmen</u> 13,80	xool t: 6.63	-130 6. 17 4. 4. 11	80 63 17 16 302 19 19 19 19 10 10 10 10 10 10 10 10 10 10	Develo bailing perista air lift other_ s gel/ve	pmen	t Tech ump	nique	12 volt submersible surge block trash pump w/foot v	) valve	
7/s/o6       1140       1145       5       -       5.92       1.09       7999       13.3       Post Surge/Pre-bai/         7/s/o6       1146       1151       11       Mapril 5       6.02       1.01       7999       12.8         7/s/o6       1152       1157       17       Mapril 5       6.02       1.01       7999       12.8         7/s/o6       1152       1157       17       Mapril 5       (10)       5.92       101       7999       13.0         7/s/o6       1152       1157       17       Mapril 5       (10)       5.92       101       7999       13.0         1/s/o6       1158       1202       22       ~1gpm 5       (15)       5.89       1.02       7999       13.3         1/s/o6       1158       1202       22       ~1gpm 5       (15)       5.89       1.02       7999       13.3         1       1.02       7999       13.3       1.02       7999       13.3       1.02         1       1.02       7999       13.3       1.02       7999       13.3       1.02         1       1.03       1.04       1.04       1.04       1.04       1.04       1.	Wa Date	ater Remov Start	val Stop	Elapsed Time (min)	Flow Rate	Approx Vol. Removed	pH	Cond.	Turb	Temp	Observatio	ns/Comme	nts
7/s/o4 1146 1151 11 Mappin 5 6.02 1.01 7999 12.8 7/s/06 1152 1157 17 N/gpm 5 (10) 5.92 1.01 7999 13.1 1/s/06 1158 1202 22 ~1gpm 5 (15) 5.89 1.02 7999 13.3	7/5/06	1140	1145	5	42 <b>00</b> 0		5.92	1.09	7999	13.3	Post Surge/P	re-bail	
7/5/06 1152 1157 17 Ngpm 5 (10) 5.92 1.01 7999 13.1 7/5/06 1158 1202 22 Ngpm 5 (15) 5.89 1.02 7999 13.3	7/5/04	1146	1151	11	Ngpih	5	6.02	1.01	7999	1208			
<u>1/s/06 1158 1202 22 1/gpm 5 (15) 5.89 1.02 7999 13.3</u>	7/5/06	1152	1157	17	rlgpm	5(10)	5.92	1201	7999	130/		\$ +A	
	7/2/0/	11.58	1202	22	nlgpm	5 (15)	5.89	1.02	7999	13.3	6. A		1988
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#### **APPENDIX D**

# CHAIN OF CUSTODY, SHIPPING AND SAMPLE INFORMATION RECORDS

175 Metro Center Boulevard Warwick, Rhode Island 02886-1755 (401) 732-3400 • Fax (401) 732-3499 email: mitkem@mitkem.com

### CHAIN-OF-CUSTODY RECORD

Page \_\_\_\_\_ of \_\_\_\_\_

	REPOR	T TO			4.5						<u> (</u> ) ( )			IN	VOICE	TO		ni ken					<u> </u>	
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NAME SPANP	onling				FAX	1543	1282	NAM	ſE									FA X						
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CLIENT PROJECT NAME:		ĊLIEI	NT PR	OJECT	<u> </u>	27	CLIENT P.O.#:						a Start	· · · ·	· · ·			 					<u></u>	
Utica-Whit	t-sboro St		19	09			1909-3	25						2	R	EQUE	STED .	ANA 1	YSES		/ . ,			
SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	OTHER	; LAB ID	# OF CONTAINERS		Y,					A A								сол	MMENTS				
WB-P1(6-8)	6-5-03/1010	n an an San an an San an	X		X			2	X	X	X	$\mathbf{X}$	X											
WB-B2(6-5)	1113		X		X			2	X	Y	X		X											
WB-35 (8-10)	11445		X		X			2	Х	X	X	2	X											
WB- B7/6-9)	11520		X		X		•	2	X	X	X	X	X											
WR-R4 (S.J.S.	1100		V		V			i	X	X	$\overline{\mathbf{v}}$	V	X	/						1				
WB-B8 (2-4)	V /1/32		X		V			2	1	X	X	X	X				· · ·					T de la composición de		
INP2P9 (6-5)	6-6-03/08/05		V		X			7	Ŷ	V	X	$\overline{\mathbf{C}}$	$\frac{\alpha}{1}$								-			
OF. RID (6-8)	1/18307		X		V			2	X				V.											
1012-K17 (S.10)	10970		V		V			2	X	V	X	V	X II					· · ·		·				
104-211 / 2.4	1085		$\overline{\mathbf{U}}$		X I			2			X		X						1			<u></u>		
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175 Metro Center Boulevard Warwick, Rhode Island 02886-1755 (401) 732-3400 • Fax (401) 732-3499 email: mitkem@mitkem.com

## CHAIN-OF-CUSTODY RECORD



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## CHAIN-OF-CUSTODY RECORD

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## CHAIN-OF-CUSTODY RECORD

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# **CHAIN-OF-CUSTODY RECORD**

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	REPORT	TO				INVO	ICE TO			LAB PROJECT #:
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dunit (1)	11126	X	X		2XX					· · · · · · · · · · · · · · · · · · ·
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RILL (1.S)	11330		X		2XX					
RII GUA	/1332	X	X							
DIS (2. W)	11351	X	V		2XX					
BIS/(-S)	1359	X	X		2XX					
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# **CHAIN-OF-CUSTODY RECORD**

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# **CHAIN-OF-CUSTODY RECORD**

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O DVIFKa and Bartilucci consulting engineers	
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.	

Date: 4/6/03

#### SAMPLE INFORMATION RECORD

Sample Location (Well No. 10) R=SS1	
Sample Location/ well No. $000-301$	Time 1250
Field Sample I.D. Number 00-7	
Weather <u>Plostly Cloudy</u> , Low 70	<u>S</u> I emperature
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
SoilX	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater sa	mples)
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Con	d (mS/cm) Turbidity (NTUs)
Diss. Oxygen (mg/l) Tem	perature °C Salinity (%)
PID (ppm)  Color 4	roderste hroun Odor Nome
Other:	
Laboratory Analyses Requested	PrD TALKIL.
<u>SUUCE</u> <u>pust</u>	ILO IAL FLE TEIS
Cycinide	
Remarks:	
Grid N200, ESD	
	Well Casing Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> " = 0.077 2"	= 0.16 3" = 0.37 4" = 0.65
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$	$3^{1/2} = 0.24$ $3^{1/2} = 0.50$ $6^{2} = 1.46$


Date: 4/1/03

Site: _Utica - Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No. (DB-SS2	
Field Sample I.D. Number 552	Time 12.55
Weather Kostly Cloudy, Low 70°s	Temperature
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e. water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/c	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) O Color Modera	te brown Odor Nonp
Other:	
Laboratory Analyses Requested	
SUDCS post.	PCB TALKetels
Cyanide	
Remarks:	
an') 12000 rico	
$\alpha (\gamma \alpha \wedge \lambda) \neq U(\lambda + 1) \cup U(\lambda + $	
gino Nau, EISU	
gmo NZUU, EISU	
Well Casin	ng Volumes
$\frac{gmo}{SAL/FT} = 0.077 \qquad 2'' = 0.16$	ng Volumes 3'' = 0.37 4''' = 0.65

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Date: 4/1/03

Site: Utica - Whitesbaco Street	Sample Crew: S. Pepline
Sample Location/Well No. WR-SS3	
Field Sample I.D. Number SS-3	Time 1305
Weather Hostly Cloudy, Low 70's	Temperature
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
SoilX	Other (describe, i.e
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/c	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) Color <u>Moders</u>	te brown Odor None
Other:	
Laboratory Analyses Requested	
SVOCS post.	PCB TALKetels
Cyanide	
Remarks:	
9012 N50, E10	
0	
Well Casir	ng Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> " = 0.077 2" = 0.16	<b>3</b> " = 0.37 <b>4</b> " = 0.65
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.24	$3\frac{1}{2} = 0.50$ $6'' = 1.46$

Date: 6/1/03

Dvirka and Bartilucci CONSULTING ENGINEERS A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

site: Utica - Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No	• •
Field Sample I.D. Number <u>SS-4</u>	Time /300
Weather Kostly Cloudy, Low 70°s	Temperature
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil X	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/	cm) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	e °C Salinity (%)
PID (ppm) O Color mode.	ate brown Odor Nome
Other:	
Laboratory Analyses Requested	
SUDIA Dort.	PCB TAI Hotale
Curvide - Fest	
Percenter	
yrid NIUU, EISO	
	ing \$7_1
$GAL/FT = 1\frac{1}{4}^{22} = 0.077 \qquad 2^{22} = 0.16$	3'' = 0.37 $4'' = 0.65$
$\frac{1}{12} = 0.10$ $\frac{1}{2} = 0.10$ $\frac{1}{2} = 0.24$	$3^{1}/_{2} = 0.50$ $6^{\circ} = 1.46$

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		CONSULTING ENGINEERS

Date: 4/1/03

	$\sim$ 1
site: Utica - Whitesboro Street	Sample Crew: <u>S. Pepling</u>
Sample Location/Well No. UB-SS5	
Field Sample I.D. Number 55-5	Time <u>1320</u>
Weather Kostly Cloudy, Low 70°s	Temperature
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil X	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/c	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) O Color modere	te brown Odor None
Other:	
Laboratory Analyses Requested	
SVIDGE DOST	PCB TALKetals
Cuanide	
Remarks:	
$OC: \lambda INFO F200$	
gorn NIS-, Laco	
Well Casi	ng Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> " = 0.077 2" = 0.16	3" = 0.37 4" = 0.65
$1\frac{1}{2} = 0 \ 10 \qquad 2\frac{1}{2} \ (-0 \ 24)$	$3\frac{1}{2} = 0.50$ 6'' = 1.46

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Date: 4/1/03

Site: Utica - Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No	
Field Sample I.D. Number 556	Time B25
Weather Kostly Cloudy, Low 70°s	Temperature
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/c	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) Color moders	te brown Odor None
PID (ppm) Color <u>Modera</u> Other:	te brown Odor None
PID (ppm) Color <u>Moders</u> Other: Laboratory Analyses Requested	te brown Odor None
PID (ppm) Color <u>Moders</u> Other: Laboratory Analyses Requested <u>SVOCs</u> <u>post</u>	PCB TALKetels
PID (ppm) <u>Color Modera</u> <u>Other:</u> Laboratory Analyses Requested <u>SVOCS</u> <u>post</u> <u>Cyanide</u>	PCB TALKetels
PID (ppm) Color <u>Modera</u> Other: Laboratory Analyses Requested <u>SVOCS</u> <u>post</u> <u>Cyanide</u> Remarks:	<u>PCB</u> <u>TALKetels</u>
PID (ppm) Color <u>Moders</u> <u>Other:</u> Laboratory Analyses Requested <u>SVOCS</u> <u>post</u> <u>Cyanide</u> Remarks: <u>9(1)</u> U200, E300	PCB TALKetels
PID (ppm) Color <u>Moders</u> <u>Other:</u> Laboratory Analyses Requested <u>SVOCS</u> <u>post</u> <u>Cyanide</u> Remarks: <u>JMD N200, E300</u>	PCB TALKetels
PID (ppm) Color <u>Moders</u> Other: Laboratory Analyses Requested <u>SVOCS</u> <u>post</u> <u>Cyanide</u> Remarks: <u>JND N200, E300</u>	PCB TALKetels
PID (ppm) Color <u>Modera</u> Other: Laboratory Analyses Requested <u>SVOCS</u> <u>post</u> <u>Cyanide</u> Remarks: <u>JND N200, E300</u> Well Casir	PCB TALKetals
PID (ppm) Color <u>Modera</u> <u>Other:</u> Laboratory Analyses Requested <u>SVOCs</u> <u>post</u> <u>Cyanide</u> Remarks: <u>JND D200, E300</u> Well Casir GAL/FT $1\frac{4^{\circ}}{2^{\circ}} = 0.077$ $2^{\circ} = 0.16$	$\frac{1}{PCB} \qquad TAL Hetals$ $\frac{PCB}{3'' = 0.65}$

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Date: 4/1/03

an the contract of the	Somple Crosses S. Porting
Site: Utica - Whitesboro Street	Sample Crew: 0, 1 Epung
Sample Location/Well No. [1] B-55'/	
Field Sample I.D. Number 55-1/	Time <u>133.5</u>
Weather <u>Hostly Cloudy, Low 70°s</u>	Temperature
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
SoilX	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	_ Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/c	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) O Color Modera	te brown Odor None
Other:	
Laboratory Analyses Requested	
SUDG DOST	PCB TALKetels
$\frac{-000000}{-10000000000000000000000000000$	
<u> </u>	
Remarks:	
<u>Grid PSD, E200</u>	
Well Casi	$3'' - 0.37 \qquad 4'' = 0.65$
$GAL/F1 \qquad \frac{14'' = 0.0}{12} = 0.10$	$3\frac{1}{2} = 0.50$ $6^{\circ\circ} = 1.46$

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Date: 4/1/03

Site: Utica - Whitesboro Street	Sample Crew: S. Pedling
Sample Location/Well No108-558	
Field Sample I.D. Number <u>SS-8</u>	Time 1320
Weather Kostly Cloudy, Low 70's	Temperature
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	_ Air
Soil X	Other (describe, i.e. water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/cr	m) Turbidity (NTUs)
pH Spec Cond (mS/cr Diss. Oxygen (mg/l) Temperature	m) Turbidity (NTUs) °C Salinity (%)
pH       Spec Cond (mS/cr         Diss. Oxygen (mg/l)       Temperature         PID (ppm)       Ø	m) Turbidity (NTUs) °C Salinity (%) te brown Odor
pH Spec Cond (mS/cr Diss. Oxygen (mg/l) Temperature PID (ppm) Color Other:	m) Turbidity (NTUs) °C Salinity (%) <u>te brown</u> Odor <u>None</u>
pH       Spec Cond (mS/cl         Diss. Oxygen (mg/l)       Temperature         PID (ppm)       Ø         Color       Modere         Other:       Laboratory Analyses Requested	m) Turbidity (NTUs) °C Salinity (%) <u>te brown</u> Odor <u>None</u>
pH Spec Cond (mS/ci Diss. Oxygen (mg/l) Temperature PID (ppm) ColorOdere Other: Laboratory Analyses Requested SVOCsPost	m) Turbidity (NTUs) °C Salinity (%) <u>te brown</u> Odor <u>None</u> PCB TALKetels
pH Spec Cond (mS/ci Diss. Oxygen (mg/l) Temperature PID (ppm) $\bigcirc$ Color $\underline{modere}$ Other: Laboratory Analyses Requested $\underline{SVOCs}$ $\underline{post}$ $\underline{Cycnide}$	m) Turbidity (NTUs) °C Salinity (%) <u>te brown</u> Odor <u>None</u> <u>PCB TAL Kefels</u>
pH Spec Cond (mS/ci Diss. Oxygen (mg/l) Temperature PID (ppm) $\bigcirc$ Color $\underline{modere}$ Other: Laboratory Analyses Requested $\underline{SVOCs}$ $\underline{post}$ $\underline{Cyanide}$ Remarks:	m) Turbidity (NTUs) °C Salinity (%) <u>te brown</u> Odor <u>None</u>  <u>PCB</u> <u>TAL Ketel</u>
pH Spec Cond (mS/ci Diss. Oxygen (mg/l) Temperature PID (ppm) $\bigcirc$ Color $\underline{Modere}$ Other: Laboratory Analyses Requested <u>SVOCS</u> <u>post</u> <u>Cyanide</u> Remarks: $\widehat{SVOC}$ <u>lost</u> north and	m) Turbidity (NTUs) °C Salinity (%) <u>te brown</u> Odor <u>None</u> <u>PCB</u> <u>TALKetels</u> <u>DIDET West of</u>
pH Spec Cond (mS/ci Diss. Oxygen (mg/l) Temperature PID (ppm) Color <u>Modere</u> Other: Laboratory Analyses Requested <u>SVOCS</u> <u>post</u> <u>Cyanide</u> Remarks: <u>Spird P</u> /oft north an Southeast and	m) Turbidity (NTUs) °C Salinity (%) <u>te brown</u> Odor <u>None</u> <u>PCB</u> <u>TALKetels</u> <u>DIOFT West of</u>
pH Spec Cond (mS/ci Diss. Oxygen (mg/l) Temperature PID (ppm) Color <u>Modere</u> Other: Laboratory Analyses Requested <u>SVOCS</u> <u>post</u> <u>Cycuride</u> Remarks: <u>Syld</u> <u>Jost north an</u> <u>Southeast corn</u>	m) Turbidity (NTUs) °C Salinity (%) <u>te brown</u> Odor <u>None</u> <u>PCB</u> <u>TALKetels</u> <u>JOST west of</u> <u>or of property</u> .
pH Spec Cond (mS/ci Diss. Oxygen (mg/l) Temperature PID (ppm) Color <u>Modera</u> Other: Laboratory Analyses Requested <u>SVOCS</u> <u>post</u> <u>Cycuride</u> Remarks: <u>Svid DD</u> /OST north an <u>Southeast corn</u> Well Casin	m) Turbidity (NTUs) °C Salinity (%) <u>te brown</u> Odor <u>None</u> <u>PCB</u> <u>TAL Kefels</u> <u>DIDFT west of</u> <u>or of property</u> .
pH Spec Cond (mS/c Diss. Oxygen (mg/l) Temperature PID (ppm) $\bigcirc$ Color <u>moders</u> Other: Laboratory Analyses Requested <u>SVOCs</u> <u>post</u> <u>Cyanide</u> Remarks: <u>Svid <math>\bigcirc</math> /off north and Southeast corn</u> Well Casin GAL/FT 1¼" = 0.077 2" = 0.16	m) Turbidity (NTUs) °C Salinity (%) <u>te brown</u> Odor <u>None</u> <u>PCB</u> <u>TAL Ketels</u> <u>DIDFT West of</u> <u>or of property</u> . ng Volumes 3" = 0.37 $4" = 0.65$

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Date: <u>6/1/05</u>

Site: Utica Whitesbord Streat	- Sample Crew: S. Pedine
Sample Location/Well No. <u>SS-9</u>	
Field Sample I.D. Number <u>55-9</u>	Time 1705
Weather Partly Cloudy	Temperature $70^{\circ}5\overline{F}$
Sample Type:	
Groundwater	_ Sediment
Surface Water/Stream	Air
Soil	_ Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	_ Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/	/cm) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperatur	e °C Salinity (%)
PID (ppm) Color	Odor
Other:	
Laboratory Analyses Requested	
SUDCE TALMATOLS	
Domoniza	
$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i$	Pennilla
UL brown SITCOND + M SAND, SC	THE FIL GV WEI UVY
e <u>en en e</u>	
Wall Co	scing Volumes
GAL/FT $1^{1}/2^{2} = 0.077$ $2^{2} = 0.16$	5   3'' = 0.37   4'' = 0.65
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.2	$3\frac{1}{2} = 0.50$ $6^{\circ} = 1.46$

Rev. 04/06/00

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Date: 6/1/05

Site:Vtice Whiteshord St	Sample Crew:
Sample Location/Well No. 55-10	
Field Sample I.D. Number 55-10	Time 1150
Weather Partly Cloudy	Temperature $70^{\circ}$ F
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
SoilX	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	_ Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/c	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) Color	Odor
Other:	
Laboratory Analyses Requested	
SUDCS TALMetals	
Remarks:	
Med brown fic SAKIN and STIT to	S. S. M. J. J. N
	Le sic girder ( byy)
Well Casin	
	g Volumes
GAL/FT $1\frac{1}{4}^{2} = 0.077$ $2^{2} = 0.16$	ag Volumes $3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$
GAL/FT $1\frac{1}{4}$ " = 0.077 $2$ " = 0.16 $1\frac{1}{2}$ = 0.10 $2\frac{1}{2}$ " = 0.24	ag Volumes $3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$ $3^{1/2} = 0.50$ $6^{\prime\prime} = 1.46$

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Date: 6/1/05

Site: Utica Whites borost	Sample Crew: S, Peplinc
Sample Location/Well No. <u>55-//</u>	
Field Sample I.D. Number 55-//	Time 1640
Weather Partly Cloudy	Temperature 70 °5 F
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples	s)
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (ms	S/cm) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperatu	are °C Salinity (%)
PID (ppm) O Color	Odor
Other:	
Laboratory Analyses Requested	
SUDCE TALMetals	
Domening	
$\mathbf{keinarks:}$	0 11.00
DL brow SILL, some F.C.S	and, some frequences (014)
n <u>an 1999 an an 1999 an an 1999 an an 1999 an an 1999</u> Anna an Anna Anna an An	
Well CAL /FT $11/2^2 = 0.077$ $2^2 = 0$	Lasing volumes $4^{22} - 0.37$ $4^{22} - 0.65$
$\frac{11}{2} = 0.10$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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Date: 6/1/05

Site: Utica-Whitesbero St	Sample Crew: Si Posting
Sample Location/Well No. 55-12 10	201350
Field Sample I.D. Number 55-12	Time $1814$
Weather Pertly cloudy	Temperature 70°57
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil 📃 🗶	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	_ Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/c	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm)         Color	Odor
Other:	
Laboratory Analyses Requested	
SUDCS TAL Metals	
Remarks:	
Modbrown SILT, some fic Sand and f.	e a monte here is and that
	C (Madding, Cond Cond)
Well Casin	ng Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> <sup>**</sup> = 0.077 2 <sup>**</sup> = 0.16	<b>3</b> <sup>**</sup> = 0.37 <b>4</b> <sup>**</sup> = 0.65
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.24	$3\frac{1}{2} = 0.50$ $6'' = 1.46$

d		Dvirka and Bartilucci CONSULTING ENGINEERS
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Date: 6/1/05

Site: Utice Whitesboro St	Sample Crew: S. Pepling
Sample Location/Well No. SS~13 50,5	100
Field Sample I.D. Number SS-13	Time / 825
Weather Postly cloudy	Temperature 70°SE
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e. water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
pH Spec Cond (mS/c Diss. Oxygen (mg/l) Temperature PID (ppm) Color	em) Turbidity (NTUs) °C Salinity (%) Odor
Other:	<b>.</b>
Laboratory Analyses Requested SVOCS TAL Metals	
Remarks:	
DKbrown SILT, some fic Sand and f	c Gravel bricks (dry)
Well Cas	ing Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> <sup>**</sup> = 0.077 2 <sup>**</sup> = 0.16	$3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$

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Date: 6/1/65

Site: Utica Whites boso St	Sample Crew: S. Perline
Sample Location/Well No. 55-14 20	9,250
Field Sample I.D. Number 55-14	Time $1745$
Weather Perty Cloudy	Temperature $70^{\circ}5\overline{E}$
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/cr	n) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) Color	Odor
Other:	
Laboratory Analyses Requested	
SUDGS TAL Motols	
Remarks:	
hed brown silt, some f. c. sand, some f.	- manal has I Come to alice (Das)
	- ( inter; cr. en engreons, 71055 (City)
Well Casin	g Volumes
GAL/FT $1^{1}/4^{\prime\prime} = 0.077$ $2^{\prime\prime} = 0.16$	
	$3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$

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		and
	$ (\bigcirc) $	Bartilucci
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6/1/05 Date:

	GAL/FT	$1^{1/4}$ , = 0.077	2' 21	' = 0.16	$3^{"} = 3^{1/2} =$	0.37 0.50	$4^{\prime\prime} = 0.65$ $6^{\prime\prime} = 1.46$	
				Well Casing Vol	umes			
<u>Pled</u>	Druun De	<u>11   560</u>	<u>~~ )~ L \01</u>	nc, some	· · C RITED	Ely bill they	Jussier	7)
Nemai K	$\sim$	+1	for	)	Cir phone	of In-the	Olass A.	2
Remark	·C•				•			
								an a
SVOC	<u> </u>		AL Meta	2/5	2			
Laborat	ory Analyses	s Requested						
Other:							• • • •	
	PID (ppm)	U.S_	_ Color			Odor		
Diss. Ox	kygen (mg/l)		Temj	perature °C		Salin	ity (%) 🖌	
	pH .		_ Spec Con	d (mS/cm)		_ Turbidity (	NTUs)	
Field Tes	st Results							<u>,                                    </u>
Volume I	Kemoved		e da sina da s Interna da sina d	Kem	oval Metho	ua		
Depth of	Well		<u></u>	Mea	surement N	vietnod	/	
Depth to	Water			Mea	surement N			
Well Info	ormation (fill	out for grou	ndwater sai	mpies)	4 7	No.47 J		
	/					-,,		
Soil		Х		Uthe	r (describe ter, sentage	, 1.e		
Surface V	Vater/Stream	1		Air		•	, , , , , , , , , , , , , , , , ,	
Groundw	ater			Sedir	nent		· · · · · · · · · · · · · · · · · · ·	
Sample T	ype:							
Weather	<u> </u>	<u>rtly (100</u>	<u> </u>	1 en	iperature _	<u>5</u>		
ield Sam	pie I.D. Num	iber <u> </u>	10-15				······································	
ample Lo	cation/Well	No. $\bigcirc$	5-13	130/30	Time	19 pr	>	
<b>N N</b>		NT . C	5-16	151.20	10			

	Π	Dvirka
$\sim$		and
	$   \bigcirc )$	Bartilucci
A DIVISION	I LIV	CONSULTING ENGINEERS F. COSULICH ASSOCIATES, P.C.

Date: <u>6/2/05</u>

Site: Utica Whites bord St	Sample Crew: S. Ponline
Sample Location/Well No	
Field Sample I.D. Number	Time / > > >
Weather Partly Cloudy	Temperature $70^{\circ}_{5}E$
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil X	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/cr	n) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) Color	Odor
Other:	
Laboratory Analyses Requested	
SUDCE TAL Motole	
Remarks:	
1 throw STIT dog og P con 1 and	
_ ETOTOLA SLET, FRALE F, Sens, 1004	$\leq (\sigma_1 \gamma)$
Well Casin	g Volumes
GAL/FT $1^{1}/4^{2} = 0.077$ $2^{2} = 0.16$	$3^{22} = 0.37$ 422 0.47
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.24	3'-0.57 $4'' = 0.653^{1}/_{2} = 0.50 6^{2}'-1.46$
	0.2 = 0.00 $0 = 1.40$

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$\cap$	$\left  \bigcirc \right $	and Bartilucci
A DIVISION	OF WILLIAM	CONSULTING ENGINEERS F. COSULICH ASSOCIATES, P.C.

Date: 4/2/05

Site: Utica Whitebors St	Sample Crew: S. Pepling
Sample Location/Well No. 255-2	*
Field Sample I.D. Number B55-2	Time 1235
Weather Portly doudy	Temperature 70°5F
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH , Spec Cond (mS/c	m) #ürbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) O Color	Odor
Other:	
Laboratory Analyses Requested	
SUXS TAL Motals	
Remarks:	
1+1000 Silt torce fi sand Par	gross + 100ts at extens
- LI DEDR SILL, MALE I SUME COM	
Well Cas	ing Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> " = 0.077 2" = 0.16	3'' = 0.37 4'' = 0.65
$1\frac{1}{2}=0.10$ $2\frac{1}{2}$ " = 0.24	$4    3^{1/2} = 0.50    6'' = 1.46$

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	5	and
$\square$	$ \bigcirc\rangle$	Bartilucci
A DIVISION	OF WILLIAM	CONSULTING ENGINEERS F. COSULICH ASSOCIATES, P.C.

Date: 6/2/05

Site: Office Whitesbord St	Sample Crew: S. Pen/s
Sample Location/Well No	
Field Sample I.D. Number	Time 1240
Weather Partly Cloudy	Temperature 70°5 F
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
SoilX	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method /
Depth of Well	Measurement Method
Volume Removed	Removal Method
Field Test Results	
pH Spec Cond (mS/cr	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) Color	Odor
Other:	
Laboratory Analyses Requested	
SUDGS TACMOTOLS	
Remarks:	
$1 \pm 1$ and $8 \pm 1 \pm 10$ $1/1$	
- DI BIDGA GENT, TI & CP +. Sand ( Dig	1), 100ts glass at glade
Well Casin	o Volumes
GAL/FT $1\frac{1}{4}$ = 0.077 $2^{"}$ = 0.16	3'' = 0.37 $4'' = 0.65$
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.24	
	$3\frac{1}{2} = 0.50$ $6'' = 1.46$



Date: 6/2/05

Site: Utica Whiteshard Streat	Sample Crew: S. Proling
Sample Location/Well No. <u>BSS-4</u>	
Field Sample I.D. Number BSS-4	Time 1250
Weather Postly Cloudy	Temperature <u>70°5</u> F
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	_ Measurement Method
Volume Removed	Removal Method
Field Test Results	na anti-anti-anti-anti-anti-anti-anti-anti-
pH / Spec Cond (mS/c	cm) Turbidity (NTUs)^
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) 7 Color	Odor
Other:	
Laboratoria Ameliana Dogunatod	
Successful The Matches	
SUCCE INVICTORS	
Remarks:	$\sim$
all brown silt, little fic sand, little	of my gravel, bricks, glass ( dry)
	n de la companya de la contra de Contra de la contra de la contra Contra de la contra d
n de la seconda de la completa de la En la completa de la c	
Well Ca	ing Volumes
GAL/FT $1^{1}/4^{2} = 0.077$ $2^{2} = 0.16$	
	$3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$

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A		and
	$ \bigcirc$	Bartilucci
A DIVISION	OF WILLIAM	F. COSULICH ASSOCIATES, P.C.

Date: 6/1/05

Site: Utica - Whiteshorn St	Sample Crew: S. P. Lin
Sample Location/Well NoBSS-5	<u> </u>
Field Sample I.D. Number	Time 1730
Weather Partly cloudy	Temperature $70^{\circ} \neq$
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil X	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water	Measurement Method
Depth of Well	_ Measurement Method
Volume Removed	_ Removal Method
Field Test Results	1
pH Spec Cond (mS/ci	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) Color	Odor
Other:	
Laboratory Analyses Requested	
SUDC TALITAL	
Remarks:	
dark brog sill to a fund	$L_{\lambda} = 0$
_ Cost or cuen sit 1, Trace tim gravel,	Tracetic Send (OG)
Well Casin GAL/FT 1 <sup>1</sup> /4 <sup>2</sup> = 0.077 2 <sup>21</sup> - 0.16	ng Volumes $3^{22} = 0.27$
Well CasinGAL/FT $1^{1}\!/\!2^{*} = 0.077$ $2^{**} = 0.16$ $1^{1}\!/\!2 = 0.10$ $2^{1}\!/_2^{**} = 0.24$	ng Volumes $3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$ $3^{1/2} = 0.50$ $6^{\prime\prime} = 1.46$



Date: 6/10/03

Site: Utica – Whitest	boro Street	Sample Crew: <u>5. repling</u>
ample Location/Well	1 No. <u>B-1</u>	
ield Sample I.D. Nur	mber <u>WB-Bl</u>	Time
Veather <u>Mos</u>	+ly Sonny	Temperature <u>60°s</u> F
Sample Type:		
Groundwater X		Sediment
Surface Water/Stream	m	Air
Soil		Other (describe, i.e.
		water, septage, eu.)
Well Information (fil	ll out for groundwater sampl	es)
Depth to Water	8.34	Measurement Method
Depth of Well	12.47	Measurement Method WLI
Volume Removed	2000 ml	Removal Method poly tubing w/ SS foot valve
pH Diss. Oxygen (mg/l)	Spec Cond (r Tempera	nS/cm) Turbidity (NTUs) ature °C Salinity (%)
PID (ppm) Other:	Color To-	rbidbrown Odor <u>Done</u>
PID (ppm) Other: Laboratory Analyse	Color <u>To-</u>	<u>sbidbrown</u> Odor <u>Done</u>
PID (ppm) Other: Laboratory Analyse VOCs + MTBE	es Requested	<u>TAL Metals</u>
PID (ppm) Other: Laboratory Analyse VOCs + MTBE	es Requested	<u>rbidhrown</u> Odor <u>None</u> <u>TAL Metals</u>
PID (ppm) Other: Laboratory Analyse VOCs + MTBE Remarks:	color <u>To</u>	<u>rbidbrown</u> Odor <u>Done</u> <u>TAL Metals</u>
PID (ppm) Other: Laboratory Analyse VOCs + MTBE Remarks:	es Requested SVOCs	<u>IAL Metals</u>
PID (ppm) Other: Laboratory Analyse VOCs + MTBE Remarks:	es Requested SVOCs	<u>TAL Metals</u>
PID (ppm) Other: Laboratory Analyse VOCs + MTBE Remarks:	es Requested SVOCs	<u>TAL Metals</u>
PID (ppm) Other: Laboratory Analyse VOCs + MTBE Remarks: GAL/FT	es Requested SVOCs 11/4" = 0.077 $2" =$	<u>Chidbrown</u> Odor <u>Done</u> <u>TAL Metals</u> Il Casing Volumes 0.16 3" = 0.37 4" = 0.65



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Date: 6/10/03

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No. <u>B-2</u>	
Field Sample I.D. Number <u>WB-B2</u>	Time 0920
Weather Mostly Sunny	Temperature 60°s F
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 9.38	Measurement Method WLI
Depth of Well 15685	Measurement Method WLI
Volume Removed 2000 ul	Removal Method poly tubing w/ SS foot valve
Field Test Results	
pH Spec Cond (mS/cr	n) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	C Salinity (%)
PID (ppm) Color Color	brain Odor None
Other:	
Laboratory Analyses Requested	0.0
VOCs + MTBE SVOCs	TAL Hotels
Remarks:	
Well Casing	g Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> " = 0.077 2" = 0.16	3'' = 0.37 4'' = 0.65
1½ =0.10 2½ <sup>**</sup> = 0.24	$3\frac{1}{2} = 0.50$ 6" = 1.46



6/10/03 Date:

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No. <u>B-3</u>	
Field Sample I.D. Number <u>WB-B3</u>	Time 0430
Weather Mostly Sonny	Temperature 60°s F
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 9.02	Measurement Method WLI
Depth of Well 13.85	Measurement Method WLI
Volume Removed 2000 rul	Removal Method poly tubing w/ SS foot valve
Field Test Results	
pH / Spec Cond (mS/c	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) Color Torbi	dbrown Odor Done
Other:	
Laboratory Analyses Requested	
VOCs + MTBE SVOCs	TAL Motals
Kemarks:	
Well Casi	ng Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> " = 0.077 2" = 0.16	3" = 0.37 4" = 0.65
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.24	$3\frac{1}{2} = 0.50$ 6'' = 1.46

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$(\bigcirc  \bigcirc)$	Bartilucci
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Date: 6/10/03

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No. <u>B-4</u>	
Field Sample I.D. Number UB-B4	Time 1010
Weather Mostly Sunny	Temperature <u>60°s</u> F
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples	
Depth to Water <u>9.56</u>	Measurement Method WLI
Depth of Well 14,10	Measurement Method WLI
Volume Removed	Removal Method poly tubing w/ SS foot valve
Field Test Results	
pH Spec Cond (mS	/cm) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperatur	e °C Salinity (%)
PID (ppm) Color _turk	idbrown Odor 1/20me
Other:	
Laboratory Analyses Requested	
VOCs + MTBE SVOCs	
Remarks:	
Well Cas	ing Volumes
GAL/FT 1 <sup>1</sup> /4" = 0.077 2" = 0.16	3'' = 0.37 4'' = 0.65
$1^{1/2} = 0.10$ $2^{1/2} = 0.24$	$3^{1/2} = 0.50$ $6^{\prime\prime} = 1.46$



Date: 6/10/03

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No	
Field Sample I.D. Number	Time <u>1030</u>
Weather Mostly Sunny	Temperature <u>6037</u>
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 10.10	Measurement Method WLI
Depth of Well 13.87	Measurement Method WLI
Volume Removed 1500 rul	Removal Method poly tubing w/ SS foot valve
Field Test Results	andre standen i den de la seconda de la s Estada de la seconda de la s
pH / Spec Cond (mS/cr	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) Color Ty the	dhour Odor Donce
Other:	
Laboratory Analyzas Paguested	
VOCa + MTDE SVOCa	
Remarks:	
Well Casi	ng Volumes
GAL/FT 1 <sup>1</sup> /4" = 0.077 2" = 0.16	3" = 0.37 4" = 0.65
1½ =0.10 2½ " = 0.24	$3\frac{1}{2} = 0.50$ $6^{2} = 1.46$



Date: 6/10/03

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No. <u>B-6</u>	
Field Sample I.D. Number UB-B6	Time 1055
Weather Mostly Sonay	Temperature $60^* sF$
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 10,62	Measurement Method WLI
Depth of Well $14_37$	Measurement Method WLI
Volume Removed 1500 nl	Removal Method poly tubing w/ SS foot valve
Field Test Results	
pH Spec Cond (mS/cr	n) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	C Salinity (%)
PID (ppm) Color	idbrown Odor Done
Other:	
Laboratory Analyses Requested	
VOCs + MTBE SVOCs	
VOCs + MTBE SVOCs	
VOCs + MTBE SVOCs Remarks:	
VOCs + MTBE     SVOCs       Remarks:	
VOCs + MTBE     SVOCs       Remarks:	
VOCs + MTBE SVOCs Remarks:	
VOCs + MTBE SVOCs Remarks: Well Casing	Volumes
VOCs + MTBE         SVOCs           Remarks:	y Volumes 3" = 0.37 4" = 0.65



Date: 6/10/03

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No. <u>B-7</u>	
Field Sample I.D. Number <u>WB-B17</u>	Time <u>1125</u>
Weather Mostly Sunny	Temperature 60°SF
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e
Well Information (fill out for groundwater samples)	
Denth to Water $ID_{1}D_{7}$	Measurement Method _WLI
Depth of Well $13,99$	Measurement Method <u>WLI</u>
Volume Removed 1500 nl	Removal Method poly tubing w/ SS foot valve
Field Test Results         pH          Diss. Oxygen (mg/l)          PID (ppm)          Other:	m) Turbidity (NTUs) °C Salinity (%) £ Obrown OdorOonle
Laboratory Analyses Requested	
VOCs + MTBE SVOCs	
Remarks:	
	ing Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> " = 0.077 2" = 0.16	<b>3</b> <sup>*</sup> = <b>0</b> .37 <b>4</b> <sup>*</sup> = <b>0</b> .65
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.24	$3^{1/2} = 0.50$ 6" = 1.46



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Date: 6/10/03

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No	
Field Sample I.D. Number	Time 13.20
Weather Mostly Surny	Temperature 60°5 F
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water <u>9.80</u>	Measurement Method WLI
Depth of Well 14, DO	Measurement Method WLI
Volume Removed/500 ml	Removal Method poly tubing w/ SS foot valve
Field Test Results	
pH Spec Cond (mS/cr	n) Turbidity (NTUs)
pH Spec Cond (mS/cr Diss. Oxygen (mg/l) Temperature	n) Turbidity (NTUs) °C Salinity (%)
pH     Spec Cond (mS/cr       Diss. Oxygen (mg/l)     Temperature       PID (ppm)     Color	n) Turbidity (NTUs) C Salinity (%) Solorow Odor Dome
pH Spec Cond (mS/cr Diss. Oxygen (mg/l) Temperature PID (ppm) Color Other:	n) Turbidity (NTUs) C Salinity (%) Salinity (%) Salinity (%)
pH Spec Cond (mS/cr Diss. Oxygen (mg/l) Temperature PID (ppm) Color Other: Laboratory Analyses Requested	n) Turbidity (NTUs) C Salinity (%) C Odor <i>Done</i>
pH Spec Cond (mS/cr Diss. Oxygen (mg/l) Temperature PID (ppm) Color Other: Laboratory Analyses Requested VOCs + MTBE SVOCs	n) Turbidity (NTUs) C Salinity (%) C Odor Odor
pH       Spec Cond (mS/cr         Diss. Oxygen (mg/l)       Temperature         PID (ppm)       Color       Todyby         Other:       Color       Todyby         VOCs + MTBE       SVOCs       SVOCs	n) Turbidity (NTUs) C Salinity (%) C Odor <i>Done</i>
pH       Spec Cond (mS/cr         Diss. Oxygen (mg/l)       Temperature         PID (ppm)       Color       Tody         Other:       Color       Tody         Laboratory Analyses Requested       SVOCs       SVOCs         Remarks:       SVOCs       SVOCs	n) Turbidity (NTUs) C Salinity (%) C Odor <i>Done</i>
pH       Spec Cond (mS/cr         Diss. Oxygen (mg/l)       Temperature         PID (ppm)       Color       Today         Other:       Color       Today         Laboratory Analyses Requested       SVOCs       SVOCs         Remarks:       SVOCs       SVOCs	n) Turbidity (NTUs) C Salinity (%) C Odor <i>Done</i>
pH       Spec Cond (mS/cr         Diss. Oxygen (mg/l)       Temperature of         PID (ppm)       Color       Todob         Other:       Color       Todob         Laboratory Analyses Requested       VOCs + MTBE       SVOCs         Remarks:       SVOCs       SVOCs	n) Turbidity (NTUs) C Salinity (%) C Odor Done
pH       Spec Cond (mS/cr         Diss. Oxygen (mg/l)       Temperature         PID (ppm)       Color       Todob         Other:           Laboratory Analyses Requested           VOCs + MTBE       SVOCs          Remarks:	n) Turbidity (NTUs) C Salinity (%) C Odor <u>None</u>
pH      Spec Cond (mS/cr         Diss. Oxygen (mg/l)      Temperature         PID (ppm)       Color	n) Turbidity (NTUs) C Salinity (%) () brown Odor <u>Done</u>
pH Spec Cond (mS/cr Diss. Oxygen (mg/l) Temperature ' PID (ppm) Color Tu/b. Other: Laboratory Analyses Requested VOCs + MTBE SVOCs Remarks: $Well Casing GAL/FT 11/4" = 0.077 2" = 0.16$	n) Turbidity (NTUs) Salinity (%) $2 brown Odor Donegvolumes3^{"} = 0.37 4^{"} = 0.65$



6/10/03 Date: \_

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No. <u>B-9</u>	
Field Sample I.D. Number <u>WB-B9</u>	Time 1255
Weather Mostly Sunny	Temperature 60°5F
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water/0,12	Measurement Method WLI
Depth of Well 14,90	Measurement Method WLI
Volume Removed 1500 ml	Removal Method poly tubing w/ SS foot valve
Field Test Results	
pH Spec Cond (mS/cr	m) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	°C Salinity (%)
PID (ppm) Color Turbil	brown Odor Donie
Other:	
Laboratory Analyses Requested	
VOCs + MTBE SVOCs	
Remarks:	
Well Casi	ng Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> <sup>''</sup> = 0.077 2 <sup>''</sup> = 0.16	<b>3</b> <sup>**</sup> = <b>0.3</b> 7 <b>4</b> <sup>**</sup> = <b>0.6</b> 5
1 <sup>1</sup> / <sub>2</sub> =0.10 2 <sup>1</sup> / <sub>2</sub> " = 0.24	$3\frac{1}{2} = 0.50$ 6" = 1.46



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Date: 4/10/03

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling	
Sample Location/Well No		
Field Sample I.D. Number WB-B/D	Time 1235	
Weather Mostly Sunny	Temperature 60°5F	
Sample Type:		
Groundwater X	Sediment	
Surface Water/Stream	Air	
Soil	Other (describe, i.e.	
	water, septage, etc.)	
Well Information (fill out for groundwater samples)		
Depth to Water $10.37$	Measurement Method WLI	
Depth of Well 14.76	Measurement Method WLI	
Volume Removed	Removal Method poly tubing w/ SS foot valve	
Field Test Results		
pH Spec Cond (mS/cr	n) Turbidity (NTUs)	
Diss. Oxygen (mg/l) Temperature	C Salinity (%)	
PID (ppm) Color	d bracen Odor Done	
Other:		
Laboratory Analyses Requested		
VOCs + MTBE SVOCs	TAL Motels	
Remarks:		
Well Casin	g Volumes	
GAL/FT 1 <sup>1</sup> / <sub>4</sub> " = 0.077 2" = 0.16	3'' = 0.37 4'' = 0.65	
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.24	$3\frac{1}{2} = 0.50$ 6'' = 1.46	



4

Date: 1/10/03

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No	
Field Sample I.D. Number $\mathcal{WB}$ - $\mathcal{B} \mathcal{I}$	Time
Weather Mostly Sonny	Temperature <u>60°5</u> F
Somple Type:	
Croundwater X	Sediment
Surface Weter/Stream	Air
	Other (describe, i.e.
<b>S01</b>	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Denth to Water 9:28	Measurement Method WLI
Depth of Well $14.46$	Measurement Method WLI
Volume Removed 1500 ml	Removal Method poly tubing w/ SS foot valve
PH        Spec Cond (mS/c         Diss. Oxygen (mg/l)        Temperature         PID (ppm)        Color          Other:	m) Turbidity (NTUs) °C Salinity (%) _rbidbrocen Odor
Laboratory Analyses Requested	
VOCs + MTBE SVOCs	TAL Motals
Remarks:	
Well Cas	ing Volumes
GAL/FT $1^{1}/4^{22} = 0.077$ $2^{22} = 0.16$ $1^{1}/2 = 0.10$ $2^{1}/2^{22} = 0.24$	$3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$ $3^{1/2} = 0.50$ $6^{\prime\prime} = 1.46$



Date: 6/10/03

Site: Utica – Whitesboro Street	Sample Crew: S. Pepling
Sample Location/Well No. <u>B-12</u>	
Field Sample I.D. Number UB-B/2	Time 1210
Weather Mostly Sunny	Temperature 605F
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 8,55	Measurement Method WLI
Depth of Well 13,96	Measurement Method WLI
Volume Removed 1500 ml	Removal Method poly tubing w/ SS foot valve
Field Test Results	
pH Spec Cond (mS/	cm) Turbidity (NTUs)
Diss. Oxygen (mg/l) Temperature	e°C Salinity (%)
PID (ppm) Color	rbidbrown Odor Done
Other:	
Laboratory Analyses Requested	
VOCs + MTBE SVOCs	TALMetals
Remarks:	
Well Casi	ng Volumes
GAL/FT 1 <sup>1</sup> / <sub>4</sub> <sup>2</sup> <sup>2</sup> = 0.077 2 <sup>2</sup> = 0.16	3" = 0.37 4" = 0.65
1½ =0.10 2½ <sup>4</sup> = 0.24	$3\frac{1}{2} = 0.50$ 6'' = 1.46



Date: 6/6/05

124 m whitesboro St.	Sample Crew: <u>S. Pepting / Sittagda</u>
Site: <u>017Cave Concernent</u> Sample Location/Well No. <u>MW-1</u> Field Sample I.D. Number <u>HW1</u> Weather <u>DVeTCast</u>	Time $1210$ Temperature $803F$
Sample Type: Groundwater	Sediment         Air         Other (describe, i.e. water, septage, etc.)         Measurement Method $\leq oliwsT$ $OTher         Measurement Method       \leq oliwsT OTher         Removal Method       \int oliwsT OTher         cm)       2.26       Turbidity (NTUs)       999         e°C       12.6       Salinity (%)       0.1 \omega N       Odor       Aone Odor $
Other: Laboratory Analyses Requested UDCS TAL Wetals (for a	dissolved)
Remarks:	
$GAL/FT \qquad 1^{1/4"} = 0.077 \qquad 2^{"} = 0$ $1^{1/2} = 0.10 \qquad 2^{1/2"} = 0$ $1^{1/2} = 0.10 \qquad 2^{1/2"} = 0$ $D&B SIRa/gg \qquad  3.85 -  0.4  = 3.44 X$	Casing Volumes .16 $3'' = 0.37$ $4'' = 0.65$ 0.24 $3\frac{1}{2} = 0.50$ $6'' = 1.46$ 0.16 $= 0.55 \times 3 = 1.65$ Rev. 04/06/00

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	Bartilucci
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Date: 6/6/05

Site: Dt: cc. White baro St	Sample Crew: J magda / S Proling
Sample Location/Well NoMw - 2	
Field Sample I.D. Number <u>Hull</u>	Time 1215
Weather Overcast	Temperature 80°s F
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 9.30	Measurement Method
Depth of Well 13.90	Measurement Method WLI
Volume Removed 2.22/4.5 removed	Removal Method Dispose He poly beile
Field Test Results	
pH 7/0 Spec Cond (mS/cr	m) $1.57$ Turbidity (NTUs) $7999$
Diss. Oxygen (mg/l) NM Temperature	$^{\circ}C$ /2,/ Salinity (%) (2.07
PID (ppm) MM Color Brown	Odor Nege
Other:	
Laboratory Analyses Requested	
Voca TAL Histol (totel+)	Scaleral
	. 330 10697
Remarks:	
Well Casin	g Volumes
GAL/FT $1^{1}/4^{2} = 0.077$ $2^{2} = 0.16$	$3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.24	$3^{1}/_{2} = 0.50$ $6'' = 1.46$
17 04 63	
$D\&B_SIRa/gg$ 15.70-7.30 = 4.6 × 0.16	$= 0.74 \times 3 = 2.22$ Rev. 04/06/00



Date: 6/6/05

site: Utica - Whitesbaco St	Sample Crew: <u>S. Pepting JJ. Hagda</u>
Sample Location/Well No. HW-3	
Field Sample ID Number HUU3	Time 1230
Weather $0.10.000$	Temperature 80°5 F
Sample Type:	Sediment
Groundwater/	
Surface Water/Stream	
Soil	Other (describe, i.e.
	water, sepinge, etc.,
Well Information (fill out for groundwater samp	iles)
Depth to Water <u>8.57</u>	Measurement Method
Depth of Well 13.90	Measurement Method
Volume Removed <u>5 @cl</u>	Removal Method Disposable poly bailer
Field Test Results	
pH 7.17 Spec Cond	(mS/cm) $2.69$ Turbidity (NTUs) $>999$
Disc Oxygen $(mg/l)$ $M/M$ Temper	rature °C 12.8 Salinity (%) 0.16
Diss. $Oxygen(mg/r)$ _/ Color	BARWN Odor NONC
PID (ppin) Cont	
Other:	
Laboratory Analyses Requested	
VOCS TAL Motols (total+	-disso (ved)
Remarks:	
n <u></u>	Vell Casing Volumes
13.90 CALET $14'' = 0.077$ 2"	= 0.16 3" $= 0.37$ 4" $= 0.65$
$8_{15}$ GAL/FI $1/4 = 0.00$ $2^{1/2}$	$= 0.24$ $3\frac{1}{2} = 0.50$ $6^{2} = 1.46$
56176	
319° 0.83	Rev. 04/06/00
4000 - SILVA 55 0.85 /vol 2.55	

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Date: 6/6/05

Site: Ut: co-Whitesboro &	Sample Crew: S. Peuling / J. Reads
Sample Location/Well No	
Field Sample I.D. Number <u>Hwy</u>	Time 1225
Weather Overcest	Temperature 80°317
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 9,76	Measurement Method _ UPLT
Depth of Well 13.8.5	Measurement Method WLT
Volume Removed 1.96/	Removal Method 2: possible poly bailer
Field Test Results	
pH 7.1/ Spec Cond (mS/cr	m) $1.54$ Turbidity (NTUs) $>999$
Diss. Oxygen (mg/l) NM Temperature	°C 11.8 Salinity (%) (2 C)C
PID (ppm) NM Color Bro	Use Odor ( a all
Other:	- <u>pesse</u>
Laboratory Analyses Requested VOG TALMOLds (total+disso	lued
Remarks:	
Well Casir	ng Volumes
GAL/FT $1^{1}/2^{\prime\prime} = 0.077$ $2^{\prime\prime} = 0.16$ $1^{1}/2 = 0.10$ $2^{1}/2^{\prime\prime} = 0.24$	$3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$ $3^{1/2} = 0.50$ $6^{\prime\prime} = 1.46$
$13.45 - 9.76 = 4.09 \times 0.16 = 0$ D&B_SIRa/gg	$0.65 \times 3 = 1.96$ Rev. 04/06/00



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Date	Callalos
Date.	

Site: Utica - Whites	hard St Sample	Crew: <u>5, Pepl</u>	ing/ T. Magda
Sample Location/Well No	0-5		
Field Sample I.D. Number <u><u><u></u><u><u></u><u><u></u><u><u></u><u></u><u><u></u><u><u></u></u><u><u></u><u><u></u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u></u></u></u>	U-5	Time 1245	
Weather <u>Duercast</u>	Tempe	rature <u>80°5</u>	<u> </u>
Sample Type:			
Groundwater K	Sedimer	1t	
Surface Water/Stream	Air		1 
Soil	Other (	describe, i.e	
	water	, septage, etc.)	
Well Information (fill out for ground	dwater samples)		
Depth to Water 6, 46	Measur	ement Method	WLI
Depth of Well 13.85	Measur	ement Method	WLI
Volume Removed 6 90	,//on C Remov	al Method	osable poly bailes
Field Test Results			
	Spec Cond (mS/cm) /	۲urbidity	(NTUS) >999
Diss Oxygen $(mg/l)$ $\Lambda/M$	Temperature °C /2	Sal	inity (%) 0.05
PID (nnm) A/M	Color Boowal	Odor s	ilitionethered notide
Other: Stald duran			<u></u>
Other. Sugar Sucreta			
Laboratory Analyses Requested	11/11/201		
VUCS TALE	lotals (total + oussolved	<b>)</b>	· · · · · · · · · · · · · · · · · · ·
Remarks:			
.85	Well Casing Volume	<b>25</b>	
46 GAL/FT 1 <sup>1</sup> / <sub>4</sub> " = 0.077	2" = 0.16	3" = 0.37	4'' = 0.65
	$2^{1/2}$ " = 0.24	$3^{1/2} = 0.50$	6'' = 1.46
34 1.18			
- D&B_SIRa/gg			Kev. 04/00/00
6		Dvirka and Bartilucci	
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Date: \_6/6/05\_

Site: Dricg Whitesbord St	Sample Crew: 5 Pale (The )
Sample Location/Well No	- Ashap Si Leg De
Field Sample I.D. Number	Time $(250)$
Weather Overcast	Temperature 80°5/=
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 6.63	Measurement Method
Depth of Well 13,80	Measurement Method U2LT
Volume Removed <u>5 gal</u>	Removal Method
Field Test Results	- cispesare pagouite
pH 7.47 Spec Cond (mS/cr Diss. Oxygen (mg/l) <u>NM</u> Temperature PID (ppm) <u>NM</u> Color <u>Brow</u> Other: Moderate shaqu	n) <u>1.63</u> Turbidity (NTUs) <u>&gt;999</u> C <u>12.6</u> Salinity (%) <u>0.07</u> N Odor <u>moderate weathered petro</u>
Laboratory Analyses Requested	
VOCC TAD Metcls (+++++)	(, , , , ) ~ >> ; ;
Remarks:	
12.80 Well Casing	z Volumes
$6 \cdot 6^3$ GAL/FT $1^{1/4}$ " = 0.077 $2$ " = 0.16	$3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$
$7'_{1/2} = 0.10$ $2^{1/2} = 0.24$	$3\frac{1}{2} = 0.50$ $6'' = 1.46$
$D_{\text{B}} ST_{\text{Bergg}}$ /1/3	
1172 5	Rev. 04/06/00



Date: 10/6/05

site: Utica Whitesharro St	Sample Crew: 5, Pepling / J. Magda
Sample Location/Well No. Hub - 7	
Field Sample I.D. Number	Time 1235
Weather Overcast, hot 80°5F	Temperature <u>30°5</u>
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water $7.70$	Measurement Method
Depth of Well $13.85$	Measurement Method
Volume Removed	- Removal Method
Etald Toot Domits	
Field Test Results $7 - 2$ Spec Cond (mS/c	m) $1.91$ Turbidity (NTUs) $< 999$
Die Orman (mail) All Temperature	$^{\circ}$ C /2 3 Salinity (%) (9.09
Diss. Oxygen (mg/l) remperature	$\frac{1}{2} \frac{1}{2} \frac{1}$
PID (ppm) Color	
Other:	
Laboratory Analyses Requested	
VOCS Hetels (total + dis	50 (Ved)
Remarks:	
Well Cas	ing Volumes
$l_{7,7D}$ GAL/FT $1^{1}/4^{22} = 0.077$ $2^{22} = 0.16$	3" = 0.37 4" = 0.65
$(0, \frac{15}{16}, \frac{2}{16}, \frac{2}{16}, \frac{2}{12}, \frac{11}{2} = 0.10$ $2\frac{1}{2}$ $2\frac{1}{2}$ $= 0.24$	$4    3^{1/2} = 0.50    6^{\prime\prime} = 1.46$
3630	$\mathbf{D}$ and $\partial A / \partial E / \partial \Omega$
b D&B_SIRa/gg Li	Kev. 04/00/00

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Date: 6/6/05

Site: <u>Utra-Whitesboro</u> St	Sample Crew: J Magda / S Denling	
Sample Location/Well No. <u>MW-8</u>		
Field Sample I.D. Number <u>HOS</u>	Time 1200	
Weather SUN+ clouds, Temp 805	Temperature Sost	
Sample Type: Wind 5-10 mph from NE		
Groundwaterk	Sediment	
Surface Water/Stream	Air	
Soil	Other (describe, i.e.	
	water, septage, etc.)	
Well Information (fill out for groundwater samples)		
Depth to Water 6.58	Measurement Method Soluci ST DTW	
Depth of Well 13.80	Measurement Method Solucion ATG	
Volume Removed 2.50/ 5.0 removed	Removal Method Doly balles	
Field Test Results		
pH $G \in ($ Spec Cond (mS/cr	m) $10^{-1/2}$ Turbidity (NTUs) $\leq 1000$	
Diss. Oxygen (mg/l) $\mathcal{NH}$ Temperature °C $\mathcal{I}_{1}^{\circ}$ Solicity (%10s) $\mathcal{P}_{2}\mathcal{O}\mathcal{O}$		
PID (ppm) NM Color tuchsid have Odor No -0		
Other:		
Laboratowy Analyzan Deserved J		
Laboratory Analyses Requested		
JAL MORE S / tom ( to is so		
Remarks:		
Well Casin	g Volumes	
$GAL/F^{*}\Gamma \qquad 1^{1}/4^{**} = 0.077 \qquad 2^{**} = 0.16$	$3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$	
142 = 0.10 $242 = 0.24$	$3\frac{1}{2} = 0.50$ $6^{2} = 1.46$	
D&B SIRa/gg 12 Cro - $\mathcal{C} \mathcal{C} \mathcal{C} = \mathcal{L} \mathcal{D}$	$X \cap I( 2.50)$	
- 10,00 0.00 - 0.00	$-10^{-10}$ $-0^{-1}$ $X = -$ Rev. 04/06/00	



Date: 7/5/06

Site: Utica Whitesburo St	Sample Crew: S. Pepling/J. Magda
Sample Location/Well No. <u>MW-/</u>	
Field Sample I.D. Number $MW-1$	Time <u>1325-T 1330-D</u>
Weather <u>Seploybooh</u>	Temperature 78°F
Sample Type:	
GroundwaterX	Sediment
Surface Water/Stream	_ Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 8057 / 8059 Sample	2 Measurement Method <u>WLT</u>
Depth of Well 13.87	Measurement Method <u>WLT</u>
Volume Removed 15_gal	Removal Method <u>bailes</u>
Field Test Results $pH$ $6.92$ Spec Cond (mS/cDiss. Oxygen (mg/l) $\mathcal{DM}$ TemperaturePID (ppm) $\mathcal{DM}$ Color $Sl:Sliphi$ Other: $\mathcal{D}$ $\mathcal{D}$ $\mathcal{D}$	cm) <u>1.29</u> Turbidity (NTUS) <u>182</u> 2°C <u>13.9</u> Salinity (%) <u>DY</u> <u>Hy tuckid brou</u> Odor <u>None</u>
Laboratory Analyses Requested	
TAL Metals -total + dissolve	ed
Remarks: TUrbidity = 9 NTU Gtg J Sield Siltered W/ 0.45 M	ittering RED contridge dikter
Well Ca	sing Volumes
GAL/FT $1^{1}/_{2} = 0.077$ $2^{\prime\prime} = 0.16$ $1^{1}/_{2} = 0.10$ $2^{1}/_{2} = 0.2$	$3^{\prime\prime} = 0.37 \qquad 4^{\prime\prime} = 0.65$ $3^{1/2} = 0.50 \qquad 6^{\prime\prime} = 1.46$

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		and
$\mathbf{V}$		
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Date: 7/5/06

Site: Utica Whitesboro St	Sample Crew: S. Patrac / Macho	
Sample Location/Well No. M(U-2	- Ging Or Carbe	
Field Sample I.D. Number MW-2	Time 13/5-7 (200 D	
Weather <u>Seeleebooh</u>	Temperature Upper 70%	
Sample Type:		
Groundwater	Sediment	
Surface Water/Stream	Air	
Soil	Other (describe, i.e.	
	water, septage, etc.)	
Well Information (fill out for groundwater samples)		
Depth to Water7.87 / 7.87 et	Measurement Method USLI	
Depth of Well 13,90 Serve	Measurement Method WLI	
Volume Removed 15 gallons	Removal Method Beiler	
Field Test Results		
pH 6.82 Spec Cond (mS/cr	$1) 1.02 \qquad \text{Turbidity} (NTLIG) 2000$	
Diss. Oxygen (mg/l) $\mathcal{N}\mathcal{M}$ Temperature $^{\circ}\mathcal{C}$ [2.0]		
PID (ppm) NM Color Sigletty ty (hid heave Oder A)		
Other: $\frac{1}{2}$	Wisso Orbun Odor None	
Laboratory Analyses Requested		
TAL Motels - total - decarries)		
- read read for the following		
Remarks:		
Turb 2:41-12 12-1 (1 0-0		
	taring	
FIELD OTTAGES WITH 0.45 M	cartilage filte	
CAL/ET 11/2 0.077	g Volumes	
$\frac{114}{-0.10} = 0.077 \qquad 2^{22} = 0.16$	$3^{\prime\prime} = 0.37$ $4^{\prime\prime} = 0.65$	
$1^{1/2} = 0.10$ $2^{1/2}$ " = 0.24	$3\frac{1}{2} = 0.50$ 6'' = 1.46	



Date: 7/5/06

(1), (1) (1) (1) (1)	Sample Crow SDAL AT Magle
Site: Utica Whites boss ST	Sample Crew. Orrephing / Ore and
Sample Location/Well No. $\mathcal{M}(\mathcal{Q}) = \mathcal{R}$	
Field Sample I.D. Number <u>MW-3</u>	Time <u>1335 - T 1340 - D</u>
Weather <u>Seelogboot</u>	Temperature <u>Upper 70°3F</u>
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
	Other (describe, i.e.
Soll	water, septage, etc.)
we us a grant for groundwater complex)	
Well Information (fill out for ground water samples) D = (1 + (2) + 2) + (1 + 2)	Massurament Method 1011
Depth to Water	Measurement Method 4217
Depth of Well	Measurement Method
Volume Removed <u>390110ns</u>	Removal Method Dailey
Field Test Results	사람이 있는 것 같은 것은 것은 것이 있는 것은 것이 가지 않는 것이 있다. 이 같은 것은
pH 6.94 Spec Cond (mS/c	cm) <u>198</u> Turbidity (NTUs) <u>&gt;9999</u>
Disc Oxygen (mg/l) $\mathcal{V}\mathcal{H}$ Temperature	°C 13,3 Salinity (%)
DISS. Oxygen (mg/l) $-\frac{12H}{12}$ Color $+\frac{1}{2}$	Odor Nonce
PID (ppm) Color	
Other:	
Laboratory Analyses Requested	
TAL Metals-total & dissolved	
Remarks: $-1$	
1 WHO DITY = & NIU as The STIL	a scilla
Field filtered (D/ RED CAR	Foge tr 17 K
Well Ca	ising Volumes
GAL/FT $1^{1}/4^{2} = 0.077$ $2^{2} = 0.16$	3'' = 0.37 $4'' = 0.65$
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.2	$3\frac{1}{2} = 0.50 \qquad 6^{\frac{1}{2}} = 1.46$

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Date: 7/5/06

Site: Utica Whitesbare St	Sample Crew: S. Peplint T. Marson
Sample Location/Well No. <u>Hwy-L</u>	- the standard and the
Field Sample I.D. Number MO-45	Time T- 1300 D-1305
Weather <u>Spelogbooll</u>	Temperature UD096 70 SF
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 8,29 / 8,31 at semp	Measurement Method WLT
Depth of Well (3.85	Measurement Method
Volume Removed 4.5 gallang	Removal Method be (e)
Field Test Results       pH       6.30       Spec Cond (mS/cr         Diss. Oxygen (mg/l)       NM       Temperature of         PID (ppm)       NM       Color 4.67.60         Other:       Other:	n) <u>1.43</u> Turbidity (NTUs) <u>245</u> C <u>13.7</u> Salinity (%) <u>NM</u> bloch Odor <del>Shift petrologic 11K</del>
Laboratory Analyses Requested	
TAL Metals - total + dissolved	
Remarks: <u>Field Silter W/ 0.454 QE</u>	D cartridge Siltar
Well Casin	g Volumes
GAL/FT $1^{1}/_{2}^{**} = 0.077$ $2^{**} = 0.16$ $1^{1}/_{2} = 0.10$ $2^{1}/_{2}^{**} = 0.24$	3'' = 0.37   4'' = 0.65  31/2 = 0.50   6'' = 1.46



Date: 7/5/06

Site: whitesherp St	Sample Crew: Jin Magda / Sean Pepling
Sample Location/Well No. <u>Mw-5</u>	
Field Sample I.D. Number <u>Mw-57/Mw-5D</u>	Time 1415-D 1420-T
Weather <u>seelogbook</u>	Temperature <u>Opper70°sF</u>
Sample Type:	
Groundwater X	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 6.92 4068 anple	Measurement Method Soliwst DTw
Depth of Well /3.85	Measurement Method Soliws + STW
Volume Removed <u>10</u>	Removal Method Doly builes
Field Test Results         pH       6.95       Spec Cond (mS/c         Diss. Oxygen (mg/l) $\mathcal{M}\mathcal{M}$ Temperature         PID (ppm) $\mathcal{N}\mathcal{M}$ Color $Ve_{*,j}$ 5 <sup>l</sup> .         Other: $\mathcal{M}$ $\mathcal{M}$ $\mathcal{M}$ $\mathcal{M}$	m) <u>0.83</u> Turbidity (NTUS) <u>68</u> °C <u>15,1</u> Salinity (%) <u>NM</u> <u>shtly turbidbe</u> Odor <u>31: sht petroleune 11 ke</u>
Laboratory Analyses Requested	
TAL Metals Total + Dissolved	
Remarks: Turbidity = 4 NTU astar Silt Field Siltered with 0.45 e QI	ED cartridge Silty
Well Cas	sing Volumes
GAL/FT $1^{1}/4^{2} = 0.077$ $2^{2} = 0.16$	3'' = 0.37 4'' = 0.65
$1^{1/2} = 0.10$ $2^{1/2}$ " = 0.2	$4    3^{1/2} = 0.50    6'' = 1.46$

0		Dvirka and Bartilucci
	$\square$	
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Date: 7/5/0 C

Site: whitestone st	Sample Crew: The Manual 16
Sample Location/Well No. Mw-C	In one Magaa / Sear Pepling
Field Sample I.D. Number MW-GT/MW-GA	Time 1425-T 1430-D
Weather See log book	Temperature 1200270°57
Sample Type:	
Groundwater $\chi$	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 4.85 / 4.70 of sof	Measurement Method
Depth of Well 13.85	Measurement Method $W(+$
Volume Removed 10 gallons	Removal Method bailer
Field Test Results	
pH 7.26 Spec Cond (mS/cm	a) $0.54/$ . Turbidity (NITUR) $2.55$
Diss. Oxygen (mg/l) $\mathcal{N}\mathcal{M}$ Temperature °	$C = \frac{1}{2} $
PID (ppm) NM Color Mod tash:	) brown oder stilt //
Other: slight sheen	0 0100011 Odor Signi petroleonelike
Laboratory Analyses Requested	
TAL Metals Total + Dissolved	
Remarks:	
- The hidit = 3 D+1) ofter P	1. L C
Field filtering with D.45	DEN 1 DEL
- , we will will will will will will	· WEIS aftridge fritte/
Well Cocing	Volumos
GAL/FT $1^{1}4^{\prime\prime} = 0.077$ $2^{\prime\prime} = 0.16$	3 <sup>3</sup> - 0.37
$1\frac{1}{2} = 0.10$ $2\frac{1}{2}$ " = 0.24	$3^{1/2} = 0.50$ $3^{1/2} = 0.50$ $5^{1/2} = 1.46$
이 집에 가지 않는 것이 아직 가지 않는 것이 가지 않는 것이 하는 것이 가지 않는 것이 하는 것이 없다.	v - 1.40



Date: 7/5/06

	Sample Crow The Marche / Seen Deplin
Site: whites bero	Sample Crew. <u>Universited of the sector</u>
Sample Location/Well No. <u>MW-7R</u>	-11/2C + 1/1/2
Field Sample I.D. Number MU-77/MU-70	Time <u>1403-1 1110-15</u>
Weather See logbook	Temperature <u>UPPer 70-5P</u>
Sample Type:	
Groundwater	Sediment
Surface Water/Stream	Air
Soil	Other (describe, i.e.
3011	water, septage, etc.)
Well Information (fill out for groundwater samples)	
Denth to Water 6.05 / 6.17 at sample	Measurement Method
Depth of Well 13 8 5	Measurement Method 6217
Deput of Wen $\frac{75.50}{15.90}$	Removal Method bailes
Volume Removed	
Field Test Results	Turbidity (NTUS) 1.29
pH $\underline{7,35}$ Spec Cond (mS/	$\operatorname{cm} = \frac{1}{\sqrt{2}} \operatorname{Cm} = \operatorname{Furbidity} (\operatorname{Cr} (\mathcal{O}_{2})) = \frac{1}{\sqrt{2}} \operatorname{Cm} = \frac{1}{$
Diss. Oxygen (mg/l) Temperatur	$e^{\circ}C - 1 \partial_{e} \otimes S = Sammy(90) - \delta \otimes S$
PID (ppm) Color Color	tustid brown Odor Mone
Other:	
Laboratory Analyses Requested	$\phi$ , where $\phi$ is the second state of the second state $\phi$ is the second state of the second state $\phi$ is the second state of the second state $\phi$ is the second state of the second state $\phi$ is the second state of the second
TAL metals Total + Dissolue	.d
Remarks:	400 00
Turbidity = 3 NIU MARTIN	no to do lifer
Field Silterod W/ WED U. 45	Per Los mogorning
Well C	$\frac{4}{4} = 0.65$
GAL/FT $1^{1/2^{19}} = 0.077$ $2^{17} = 0.1$	$3^{1/2} = 0.50$ $3^{1/2} = 0.50$ $6^{2} = 1.46$
$1\frac{1}{2} = 0.10$ $2\frac{1}{2} = 0$	

		Dvirka
A		and
$\mathbf{C}$	$ \bigcirc$	Bartilucci
A DIVISION	OF WILLIAM	E COSULING ENGINEERS

Date: 7/5/06

Site: Utice Whitespore St Sample Crew:	5 Darles / T. Handa
Sample Location/Well No. Mw-8	supply through
Field Sample I.D. Number mw- 87/mw-80 Time	1345-T 1260-5
Weather Seelegbook Temperature	Upper 70%5F
Sample Type:	<u> </u>
Groundwater X	
Surface Water/Stream Air	
Soil Other (describe	.i.e.
water, septage	e, etc.)
Well Information (fill out for groundwater samples)	
Depth to Water 6.63 / 6.70 et serfle Measurement N	Tethod UPLT
Depth of Well 13.8 6703 Measurement M	lethod WLT
Volume Removed 15 gallens Removal Metho	d baile
Field Test Results	
pH <u>7,43</u> Spec Cond (mS/cm) 1.01	Turbidity (NTUs) 635
Diss. Oxygen (mg/l) <u>DH</u> Temperature °C <u>14.3</u>	Salinity (%) LIA
PID (ppm) DM Color Moderately turbid brown	Odor None
Other:	
Laboratory Analyses Requested	
TAL Hotals - total + dissolued	
Remarks:	
Turbidity =16 NTU aster Silter	
-Field Silfered of Dius & DER cate	- P-1/2
	fc. J. M. G.
Well Casing Volumes	
GAL/FT $1^{1}/4^{22} = 0.077$ $2^{22} = 0.16$ $3^{22} = 0.32$	4" = 0.65
11/ 0.10	

**APPENDIX E** 

ANALYTICAL RESULTS

## Appendix E Analytical Results List of Tables

- 1a. Surface Soil Sample Results June 2003, Semivolatile Organic Compounds
- 1b. Surface Soil Sample Results June 2003, Pesticides/PCBs
- 1c. Surface Soil Sample Results June 2003, Inorganic Parameters
- 2a. Surface Soil Sample Results June 2005, Semivolatile Organic Compounds
- 2b. Surface Soil Sample Results June 2005, Inorganic Parameters
- 3a. Subsurface Soil Sample Results June 2003, Volatile Organic Compounds
- 3b. Subsurface Soil Sample Results June 2003, Semivolatile Organic Compounds
- 3c. Subsurface Soil Sample Results June 2003, Pesticides/PCBs
- 3d. Subsurface Soil Sample Results June 2003, Inorganic Parameters
- 4a. Subsurface Soil Sample Results June 2005, Volatile Organic Compounds
- 4b. Subsurface Soil Sample Results June 2005, Semivolatile Organic Compounds
- 5a. Groundwater Sample Results June 2003, Volatile Organic Compounds
- 5b. Groundwater Sample Results June 2003, Semivolatile Organic Compounds
- 5c. Groundwater Sample Results June 2003, Inorganic Parameters Unfiltered
- 6a. Groundwater Sample Results June 2005, Volatile Organic Compounds
- 6b. Groundwater Sample Results June 2005, Inorganic Parameters
- 7a. Groundwater Sample Results July 2006, Inorganic Parameters

### TABLE 1a. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SURFACE SOIL SAMPLE RESULTS - JUNE 2003 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	25	25	17	15	23	21	19	22	Limit	Objective
Units	(ug/kg)	(ug/kg)								
Benzaldehyde	U	U	U	U	U	U	U	U	550	
Phenol	U	U	U	U	U	U	U	U	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	550	
2-Chlorophenol	U	U	U	U	U	U	U	U	550	800
2-Methylphenol	U	U	U	U	U	U	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	U	550	
Acetophenone	U	U	U	U	U	U	U	U	550	
4-Methylphenol	U	U	U	U	U	U	U	U	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	550	
Hexachloroethane	U	U	U	U	U	U	U	U	550	
Nitrobenzene	U	U	U	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	550	
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	550	
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	550	400
Naphthalene	70 J	U	1,300	U	U	62 J	U	150 J	550	13,000
4-Chloroaniline	U	U	U	U	U	U	U	U	550	220 OR MDL
Hexachlorobutadiene	U	U	U	U	U	U	U	U	550	
Caprolactum	U	U	U	U	U	U	U	U	550	
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	U	U	710 J	U	U	56 J	U	140 J	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	550	
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	1400	
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	550	100
1,1'-Biphenyl	U	U	90 J	U	U	U	U	U	1400	
2-Chloronaphthalene	U	U	U	U	U	U	U	U	1400	
2-Nitroaniline	U	U	U	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	U	550	2,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	550	1,000
Acenaphthylene	79 J	U	1,500	60 J	99 J	70 J	99 J	160 J	550	41,000
3-Nitroaniline	U	U	U	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	75 J	U	3,100	52 J	66 J	72 J	U	320 J	550	50,000
2,4-Dinitrophenol	U	U	, U	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	70 J	U	2,500	43 J	U	66 J	U	360 J	550	6,200

#### TABLE 1a. (CONTINUED) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SURFACE SOIL SAMPLE RESULTS - JUNE 2003 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	6/6/2003	6/6/2003	6/6/2003	6/6/2003	6/6/2003	6/6/2003	6/6/2003	6/6/2003	Required	Recommended
Dilution Factor	1	1	1	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	25	25	17	15	23	21	19	22	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	550	
Diethylphthalate	U	U	U	U	U	U	U	U	550	7,100
Fluorene	85 J	U	3,700	55 J	74 J	85 J	45 J	490	550	50,000
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	550	
4-Nitroaniline	U	U	U	U	U	U	U	U	1400	
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	1400	
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	550	
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	550	
Hexachlorobenzene	U	U	U	U	U	U	U	U	550	410
Atrazine	U	U	U	U	U	U	U	U	550	
Pentachlorophenol	U	U	U	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	1,500	82 J	100,000 D	830	1,100	1,200	610	7,200 D	550	50,000
Anthracene	150 J	U	23,000 DJ	180 J	250 J	260 J	150 J	1,200	550	50,000
Carbazole	220 J	U	14,000 DJ	120 J	140 J	170 J	83 J	990	550	
Di-n-butylphthalate	U	U	U	U	U	U	U	44 J	550	8,100
Fluoranthene	2,800	270 J	200,000 D	1,500	2,600	2,100	2,000	11,000 D	550	50,000
Pyrene	1,800	240 J	170,000 D	1,300	2,200	1,700	1,600	9,500 D	550	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	550	
Benzo (a) anthracene	800	160 J	79,000 D	700	1,200	950	850	5,200 D	550	224 OR MDL
Chrysene	980	160 J	75,000 D	760	1,200	960	900	5,600 D	550	400
bis(2-Ethylhexyl)phthalate	130 J	110 J	320 J	200 J	1,900	240 J	200 J	290 J	550	50,000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	2,100	260 J	110,000 D	1,200	2,000	1,600	1,600	9,700 D	550	1,100
Benzo(k)fluoranthene	670	81 J	33,000 DJ	420	640	540	510	3,200 D	550	1,100
Benzo(a)pyrene	950	150 J	76,000 D	810	1,300	1,000	1,100	6,700 D	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	670	92 J	38,000 DJ	490	710	590	600	85 J	550	3,200
Dibenzo(a,h)anthracene	190 J	U	1,400	150 J	220 J	180 J	180 J	73 J	550	14 OR MDL
Benzo(g,h,i)perylene	750	100 J	43,000 D	590	780	630	640	81 J	550	50,000
Total PAHs	13,669	1,595	958,000	9,097	14,439	11,999	10,884	60,659		
Total Carcinogen PAHs	6,360	903	412,400	4,530	7,270	5,820	5,740	30,558		10,000
Total SVOCs	14,089	1,705	975,620	9,460	16,479	12,531	11,167	62,483		500,000
Total SVOC TICs	10,105	8,984	23,360	4,794	6,908	6,825	9,246	6,390		

#### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

#### NOTES:

To determine the detection limit for each sample, use the following equation:  $(CRDL)^*(DF)^*(100/\%S)$ , where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.

---: not established

Indicates value exceeds NYSDEC recommended Soil Clean-up objective Indicates value exceeds background soil sample concentrations

#### TABLE 1b. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SURFACE SOIL SAMPLE RESULTS - JUNE 2003 PESTICIDE/PCBs

Sample Identification	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	25	25	17	15	23	21	19	22	Limit	Objective
Units	(ug/kg)	(ug/kg)								
alpha-BHC	U	U	U	U	U	U	U	U	0.05	110
beta-BHC	U	U	U	U	U	U	U	U	0.05	200
delta-BHC	U	U	U	U	U	U	U	U	0.05	300
gamma-BHC (Lindane)	U	U	U	U	U	U	U	U	0.05	60
Heptachlor	U	U	2.0 P	U	U	U	U	U	0.05	100
Aldrin	U	U	U	U	U	U	U	U	0.05	41
Heptachlor Epoxide	U	U	U	U	U	U	U	U	0.05	20
Endosulfan I	U	U	U	U	U	U	U	U	0.05	900
Dieldrin	U	U	U	U	U	U	U	U	0.10	44
4,4'-DDE	U	U	U	U	U	5.1 P	U	U	0.10	2100
Endrin	U	U	U	U	U	U	U	U	0.10	100
Endosulfan II	U	U	U	U	U	U	U	U	0.10	900
4,4'-DDD	U	U	7.8 P	U	U	U	U	U	0.10	2900
Endosulfan Sulfate	U	U	8.2 P	U	U	U	U	U	0.10	1000
4,4'-DDT	U	U	15.0 P	9.1 P	8.8 P	13.0 P	6.8	26.0 P	0.10	2100
Methoxychlor	U	U	U	U	U	U	U	U	0.50	***
Endrin Ketone	U	U	82.0 DP	U	U	U	U	11.0 P	0.10	
Endrin Aldehyde	U	U	U	U	U	U	U	U	0.10	
alpha-Chlordane	U	U	U	U	U	U	U	2.2 P	0.05	540
gamma-Chlordane	U	U	U	U	U	U	U	3.5 P	0.05	540
Toxaphene	U	U	U	U	U	U	U	U	5.0	
Aroclor-1016	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1221	U	U	U	U	U	U	U	U	2.0	1000/10000*
Aroclor-1232	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1242	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1248	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1254	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1260	U	U	350 P	100 P	87 P	94 P	U	320 P	1.0	1000/10000*
Total Pesticides	0	0	115	9	9	18	7	43		10000
Total PCBs	0	0	350	100	87	94	0	320		1000/10000*

#### QUALIFIERS:

U: Compound analyzed for but not detected

- J: Compound found at a concentration below the CRDL, value estimated
- P: Greater than 25% difference for detected concentrations between the two GC columns, lower value reported
- D: Result is taken from reanalysis at a secondary dilution

#### NOTES:

----: not established

\*\*\*: Total pesticides not to exceed 10,000 ug/kg

\*: Value refers to the sum of these compounds; 1,000 ug/kg for surface soils and 10,000 ug/kg for subsurface soils

Indicates value exceeds NYSDEC recommended soil clean-up objective

#### TABLE 1c. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SURFACE SOIL SAMPLE RESULTS - JUNE 2003 INORGANIC PARAMETERS

Sample Identification	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2		NYSDEC
Date of Collection	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	06/06/03	Instrument	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Solids	75	75	83	85	77	79	81	78	Limit	Objective
Units	mg/kg	(ug/l)	(mg/kg)							
Aluminum	8,570	7,910	3,570	7,840	8,530	6,610	6,090	6,360	13	SB (6,620)
Antimony	U	U	U	U	U	Ū	U	U	8	SB (1.5)
Arsenic	5.1	7.7	4.5	5.2	4.2	8.3	3.6	7.7	3	7.5 or SB (18)
Barium	69.5	39.6 B	235	78.8	84.7	104	108	247	1	300 or SB (82.8)
Beryllium	0.38 B	0.35 B	0.17 B	0.38 B	0.42 B	0.32 B	0.28 B	0.28 B	1	0.16 or SB (0.36)
Cadmium	U	U	1.4	U	U	0.16 B	U	U	1	1 or SB (1.3)
Calcium	28,800	28,200	152,000	25,900	25,400	23,000	37,500	47,300	8	SB (73,100)
Chromium	14.3	11.0	13.9	11.3	12.4	18.0	9.3	12.7	1	10 or SB (11.7)
Cobalt	7.3 B	7.9 B	3.3 B	7.3 B	8.0 B	6.4 B	5.5 B	6.8 B	2	30 or SB (6.4)
Copper	31.8	23.9	198	26.7	26.0	137	17.8	23.7	1	25 or SB (129)
Iron	18,600	19,100	10,300	17,200	18,800	25,600	14,000	19,300	20	2,000 or SB (22,200)
Lead	34.1	11.2 B	501	144	151	254	150	857	2	SB (173)
Magnesium	7,110	10,700	3,510	7,700	7,470	4,770	6,640	4,710	8	SB (4,460)
Manganese	531	655	230	485	501	444	442	757	4	SB (712)
Mercury	U	U	0.19	0.085 B	0.14	0.63	0.063 B	0.59	0.2	0.1
Nickel	18.6	16.1	39.9	15.9	17.7	24.4	12.6	18.0	2	13 or SB (17.8)
Potassium	1,610	1,500	684 B	1,640	1,980	1,080 B	1,380	1,220	20	SB (788)
Selenium	U	U	0.88 B	0.93 B	U	0.96 B	U	U	4	2 or SB (0.32)
Silver	U	U	U	U	U	U	U	U	1	SB (0.036)
Sodium	183 B	147 B	159 B	159 B	216 B	227 B	147 B	187 B	9	SB (78.4)
Thallium	U	U	U	U	U	U	U	U	5	SB (0.69)
Vanadium	19.4	18.0	18.2	18.6	20.3	19.6	18.0	21.9	1	150 or SB (15.6)
Zinc	63.4	42.7	315	74.8	77.7	243	93.9	212	1	20 or SB (145)
Cyanide	U	U	0.39 B	U	U	5.5	U	U	10	

#### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL

but greater than the IDL.

#### NOTES:

SB: Site background

----: not established

Indicates value exceeds the NYSDEC Recommended Soil Cleanup Objective

### TABLE 2a. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SURFACE SOIL SAMPLE RESULTS - JUNE 2005 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	10	8	11	22	21	12	17	Limit	Objective
Units	(ug/kg)	(ug/kg)							
Phenol	U	120 J	360 J	U	U	U	U	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	550	
2-Chlorophenol	U	U	U	U	U	U	U	550	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	550	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	550	8,500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	550	7,900
2-Methylphenol	U	U	40 J	U	U	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	550	
4-Methylphenol	U	U	110 J	U	U	U	U	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	550	
Hexachloroethane	U	U	U	U	U	U	U	550	
Nitrobenzene	U	U	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	67 J	U	U	U	U	550	
2,4-Dichlorophenol	U	U	U	U	U	U	U	550	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	550	3,400
Naphthalene	160 J	130 J	820	U	50 J	81 J	99 J	550	13,000
4-Chloroaniline	U	U	U	U	U	U	U	550	220 OR MDL
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	550	
Hexachlorobutadiene	U	U	U	U	U	U	U	550	
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	110 J	81 J	470	U	U	84 J	93 J	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	550	
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	1400	
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	550	100
2-Chloronaphthalene	U	U	U	U	U	U	U	1400	
2-Nitroaniline	U	U	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	550	2,000
Acenaphthylene	130 J	270 J	920	120 J	180 J	69 J	98 J	550	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	550	1,000
3-Nitroaniline	U	U	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	320 J	340 J	1,900	85 J	83 J	100 J	130 J	550	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	240 J	220 J	1,200	78 J	87 J	120 J	140 J	550	6,200

#### TABLE 2a. (CONTINUED) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SURFACE SOIL SAMPLE RESULTS - JUNE 2005 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	Required	Recommended
Dilution Factor	1	1	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	10	8	11	22	21	12	17	Limit	Objective
Units	(ug/kg)	(ug/kg)							
2,4-Dinitrotoluene	U	U	U	U	U	U	U	550	
Diethylphthalate	U	U	U	U	U	U	U	550	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	550	
Fluorene	290 J	400	2,300	110 J	110 J	140 J	190 J	550	50,000
4-Nitroaniline	U	U	U	U	U	U	U	1400	
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	1400	
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	550	
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	550	
Hexachlorobenzene	U	U	U	U	U	U	U	550	410
Pentachlorophenol	U	U	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	4,100	6,500 D	25,000 D	1,900	2,600	1,500	1,800	550	50,000
Anthracene	830	1,800	5,900	460	540	410	460	550	50,000
Carbazole	400	800	2,900	250 J	410 J	250 J	250 J	550	
Di-n-butylphthalate	U	40 J	80 J	44 J	U	57 J	52 J	550	8,100
Fluoranthene	5,100	16,000 D	36,000 D	4,600	5,800	2,900	2,800	550	50,000
Pyrene	4,300	14,000 D	35,000 D	5,000	5,400	2,200	2,400	550	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	550	
Benzo (a) anthracene	2,500	7,200 D	16,000 D	2,900	3,200	1,300	1,600	550	224 OR MDL
Chrysene	2,200	5,600 D	13,000 D	2,800	3,000	1,300	1,300	550	400
bis(2-Ethylhexyl)phthalate	45 J	270 J	3,300	130 J	120 J	62 J	100 J	550	50,000
Di-n-octylphthalate	U	U	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	2,800	7,700 D	20,000 D	5,500	5,900	1,600	2,200	550	1,100
Benzo(k)fluoranthene	1,400	4,700	7,300 D	1,800	2,400	950	780	550	1,100
Benzo(a)pyrene	2,000	5,100 D	13,000 D	3,000	3,400	1,100	1,300	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	550	1,500	4,400	770	1,200	320 J	440	550	3,200
Dibenzo(a,h)anthracene	180 J	500	1,300	240 J	330 J	100 J	140 J	550	14 OR MDL
Benzo(g,h,i)perylene	470	1,400	4,200	760	1,200	320 J	420	550	50,000
Total PAHs	27,330	73,140	183,605	30,153	35,393	14,390	16,157		
Total Carcinogen PAHs	11,630	32,300	75,000	17,010	19,430	6,670	7,760		10,000
Total SVOCs	28,125	74,671	189,963	30,664	36,010	14,963	16,792		500,000
Total SVOC TICs	5,940	8,080	436,600	12,530	8,170	3,290	6,410		

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

NOTES:

To determine the detection limit for each sample, use the following equation:  $(CRDL)^*(DF)^*(100/\%S)$ , where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.

---: not established

Indicates value exceeds NYSDEC recommended Soil Clean-up objective

### TABLE 2a. (continued) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SURFACE SOIL SAMPLE RESULTS - JUNE 2005 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	BSS-1	BSS-2	BSS-3	BSS-4	BSS-5		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	06/02/05	06/02/05	06/02/05	06/02/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	13	10	12	4	12	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Phenol	U	U	U	U	40 J	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	550	
2-Chlorophenol	U	U	U	U	U	550	800
1,3-Dichlorobenzene	U	U	U	U	U	550	1,600
1,4-Dichlorobenzene	U	U	U	U	U	550	8,500
1,2-Dichlorobenzene	U	U	U	U	U	550	7,900
2-Methylphenol	U	U	U	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	550	
4-Methylphenol	U	U	U	U	43 J	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	550	
Hexachloroethane	U	U	U	U	U	550	
Nitrobenzene	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	U	550	
2,4-Dichlorophenol	U	U	U	U	U	550	400
1,2,4-Trichlorobenzene	U	U	U	U	U	550	3,400
Naphthalene	U	U	46 J	190 J	300 J	550	13,000
4-Chloroaniline	U	U	U	U	U	550	220 OR MDL
bis(2-Chloroethoxy)methane	U	U	U	U	U	550	
Hexachlorobutadiene	U	U	U	U	U	550	
4-Chloro-3-methylphenol	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	U	U	U	150 J	280 J	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	550	
2,4,6-Trichlorophenol	U	U	U	U	U	1400	
2,4,5-Trichlorophenol	U	U	U	U	U	550	100
2-Chloronaphthalene	U	U	U	U	U	1400	
2-Nitroaniline	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	550	2,000
Acenaphthylene	U	44 J	140 J	150 J	720	550	41,000
2,6-Dinitrotoluene	U	U	U	U	U	550	1,000
3-Nitroaniline	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	U	U	67 J	130 J	180 J	550	50,000
2,4-Dinitrophenol	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	U	U	53 J	160 J	220 J	550	6,200

#### TABLE 2a. (CONTINUED) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SURFACE SOIL SAMPLE RESULTS - JUNE 2005 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	BSS-1	BSS-2	BSS-3	BSS-4	BSS-5		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	Contract	NYSDEC
Date of Collection	6/2/2005	6/2/2005	6/2/2005	6/2/2005	6/1/2005	Required	Recommended
Dilution Factor	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	13	10	12	4	12	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
2,4-Dinitrotoluene	U	U	U	U	U	550	
Diethylphthalate	U	U	U	U	U	550	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	550	
Fluorene	U	U	110 J	200 J	190 J	550	50,000
4-Nitroaniline	U	U	U	U	U	1400	
4,6-Dinitro-2-methylphenol	U	U	U	U	U	1400	
N-Nitrosodiphenylamine	U	U	U	U	U	550	
4-Bromophenyl-phenylether	U	U	U	U	U	550	
Hexachlorobenzene	U	U	U	U	U	550	410
Pentachlorophenol	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	190 J	460	1,200	3,000	1,900	550	50,000
Anthracene	38 J	100 J	230 J	320 J	920	550	50,000
Carbazole	U	51 J	180 J	300 J	390	550	
Di-n-butylphthalate	U	U	45 J	38 J	46 J	550	8,100
Fluoranthene	420	920	2,100	3,600	5,900 D	550	50,000
Pyrene	370 J	820	1,600	3,200	8,100 D	550	50,000
Butylbenzylphthalate	U	U	250 J	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	550	
Benzo (a) anthracene	250 J	520	940	1,400	4,200	550	224 OR MDL
Chrysene	280 J	460	980	1,500	5,100	550	400
bis(2-Ethylhexyl)phthalate	57 J	67 J	140 J	77 J	120 J	550	50,000
Di-n-octylphthalate	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	320 J	640	1,200	2,200	6,800 D	550	1,100
Benzo(k)fluoranthene	180 J	260 J	750	830	2,800	550	1,100
Benzo(a)pyrene	250 J	460	860	1,200	3,400	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	160 J	190 J	270 J	350	910	550	3,200
Dibenzo(a,h)anthracene	U	53 J	71 J	110 J	320 J	550	14 OR MDL
Benzo(g,h,i)perylene	180 J	190 J	270 J	320 J	720	550	50,000
Total PAHs	2,638	5,117	10,834	18,700	42,460		
Total Carcinogen PAHs	1,440	2,583	5,071	7,590	23,530	1	10,000
Total SVOCs	2,695	5,235	11,502	19,425	43,599		500,000
Total SVOC TICs	3,440	2,490	7,720	4,040	4,140		

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

NOTES:

To determine the detection limit for each sample, use the following equation:  $(CRDL)^*(DF)^*(100/\%S)$ , where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.

---: not established

Indicates value exceeds NYSDEC recommended Soil Clean-up objective

#### TABLE 2b. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SURFACE SOIL SAMPLE RESULTS - JUNE 2005 INORGANIC PARAMETERS

Sample Identification	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	-	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	Instrument	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Solids	90	92	89	78	79	88	83	Limit	Objective
Units	mg/kg	(mg/kg)	(mg/kg)						
Aluminum	4,960	3,830	3,140	1,650	3,930	3,460	4,650	13	SB (6,620)
Antimony	0.61 B	0.073 B	0.21 B	0.34 B	0.18 B	0.26 B	U	8	SB (1.5)
Arsenic	9.3	4.6	3.4	2.0	3.3	7.1	6.2	3	7.5 or SB (18)
Barium	186	90.9	121	288	215	75.5	147	1	300 or SB (82.8)
Beryllium	0.31	0.20 B	0.15 B	0.080 B	0.20 B	0.22 B	0.25 B	1	0.16 or SB (0.36)
Cadmium	0.91	0.72	0.76	0.26 B	0.54	0.96	0.77	1	1 or SB (1.3)
Calcium	19,300	22,100	65,500	18,100	62,900	46,600	41,000	8	SB (73,100)
Chromium	8.4	7.8	8.0	4.5	7.4	6.7	14.0	1	10 or SB (11.7)
Cobalt	4.2	3.5	2.9	1.5 B	3.3	3.3	5.0	2	30 or SB (6.4)
Copper	397	61.0	44.9	9.1	15.3	39.5	39.7	1	25 or SB (129)
Iron	12,400	9,120	7,270	3,990	8,840	8,380	9,850	20	2,000 or SB (22,200)
Lead	674	176	84.2	980	1,290	161	413	2	SB (173)
Magnesium	2,300	3,330	3,240	1,240	4,360	2,730	2,550	8	SB (4,460)
Manganese	538	308	233	116	265	172	305	4	SB (712)
Mercury	1.1	0.38	0.11	8.9	0.48	0.21	0.35	0.2	0.1
Nickel	22.9	23.8	19.4	4.4	10.0	9.9	20.0	2	13 or SB (17.8)
Potassium	554	457	437	294	692	583	628	20	SB (788)
Selenium	U	U	0.24 B	0.21 B	0.49 B	0.56 B	0.41 B	4	2 or SB (0.32)
Silver	U	U	U	U	U	U	U	1	SB (0.036)
Sodium	61.6	140	90.1	53.3	105	108	110	9	SB (78.4)
Thallium	U	0.19 B	0.91	0.58 B	1.3	1.0	0.84 B	5	SB (0.69)
Vanadium	12.9	9.8	9.4	5.8	13.6	12.3	13.0	1	150 or SB (15.6)
Zinc	280	121	184	162	177	112	177	1	20 or SB (145)

#### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL but greater than the IDL.

#### NOTES:

SB: Site background (from samples BSS-1 through BSS-5)

Indicates value exceeds the NYSDEC Recommended Soil Cleanup Objective

### TABLE 2b. (continued) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SURFACE SOIL SAMPLE RESULTS - JUNE 2005 INORGANIC PARAMETERS

Sample Identification	BSS-1	BSS-2	BSS-3	BSS-4	BSS-5		
Sample Depth (feet)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2		NYSDEC
Date of Collection	06/02/05	06/02/05	06/02/05	06/02/05	06/01/05	Instrument	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Solids	87	90	88	96	88	Limit	Objective
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(mg/kg)	(mg/kg)
Aluminum	4,190	6,620	4,820	1,760	2,970	13	SB (6,620)
Antimony	0.097 B	U	0.19 B	0.13 B	1.5	8	SB (1.5)
Arsenic	2.1	5.4	11.3	2.4	18.0	3	7.5 or SB (18)
Barium	16.5	55.6	82.8	27.5	64.8	1	300 or SB (82.8)
Beryllium	0.11 B	0.36	0.24	0.097 B	0.33	1	0.16 or SB (0.36)
Cadmium	0.19 B	0.50	0.46	0.34	1.3	1	1 or SB (1.3)
Calcium	2,870	15,400	14,900	73,100	14,600	8	SB (73,100)
Chromium	4.1	11.7	6.5	4.0	10.9	1	10 or SB (11.7)
Cobalt	2.0 B	6.4	4.1	1.5 B	5.5	2	30 or SB (6.4)
Copper	10.1	52.8	25.8	22.3	129	1	25 or SB (129)
Iron	7,780	14,900	10,100	4740	22,200	20	2,000 or SB (22,200)
Lead	52.1	89.1	82.9	70.1	173	2	SB (173)
Magnesium	961	4,460	2,090	2420	2,050	8	SB (4,460)
Manganese	222	589	712	107	234	4	SB (712)
Mercury	0.068	0.13	0.16	0.16	0.39	0.2	0.1
Nickel	5.0	17.8	11.0	6.2	16.3	2	13 or SB (17.8)
Potassium	236	788	512	420	338	20	SB (788)
Selenium	U	U	U	0.32 B	U	4	2 or SB (0.32)
Silver	0.036	U	U	U	U	1	SB (0.036)
Sodium	33.1 B	50.0 B	53.3	78.4	74.7	9	SB (78.4)
Thallium	U	U	U	0.69 B	0.65 B	5	SB (0.69)
Vanadium	9.1	15.6	10.9	4.9	13.9	1	150 or SB (15.6)
Zinc	40.5	87.8	74.1	53.7	145	1	20 or SB (145)

QUALIFIERS:

NOTES:

SB: Site background (from samples BSS-1 through BSS-5)

U: Compound analyzed for but not detected B: Compound concentration is less than the CRDL

but greater than the IDL.

Indicates value exceeds the NYSDEC Recommended Soil Cleanup Objective

#### TABLE 3a. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2003 VOLATILE ORGANIC COMPOLINDS

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12		
Sample Depth (feet)	6-8	6-8	4-6	8-10	8-10	8-10	6-8	2-4	6-8	6-8	2-4	8-10	Contract	NYSDEC
Date of Collection	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/06/03	06/06/03	06/06/03	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	14	18	18	3	10	14	14	15	13	13	10	13	Limit	Objective
Units	(ug/kg)	(ug/kg)												
Dichlorodifluoromethane	Ŭ	Ű	Ŭ	Ú	Ű	Ŭ	Ű	Ű	Ŭ	Ű	Ú	Ű	10	
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	
Vinyl Chloride	U	U	U	U	U	U	U	U	U	U	U	U	10	200
Bromomethane	U	U	U	U	U	U	U	U	U	U	U	U	10	
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U	1 J	U	10	
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	400
1,1,2-Trichl1,2,2-trifluor.	U	U	U	U	U	U	U	U	U	U	U	U	10	
Acetone	16	40	16	13	13	U	12	11	10 J	11 J	18	U	10	200
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	5 J	U	10	2,700
Methyl Acetate	U	U	U	U	U	U	U	U	U	U	U	U	10	
Methylene Chloride	U*	U*	81 BJ*	U*	84 BJ*	U*	10	100						
trans-1,2-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	U	U	U	10	
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	200
cis-1,2-Dichloroethene	U	U	U	U	1 J	U	U	U	U	U	U	U	10	
2-Butanone	U	U	U	U	U	U	U	U	U	U	U	U	10	300
Chloroform	U	U	U	U	U	U	U	U	U	U	U	U	10	300
1,1,1-I richloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	800
Cyclohexane	U	U	U	U	U	U	U	U	U	U	U	U	10	
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U	U	10	600
Benzene	0	0	0	U	0	0	0	0	0	0	6 J	0	10	60
1,2-Dichloroethane	0	0	0	U	0	U	0	U	U	0	U	U	10	100
Trichloroethene	9 J	2 J	32	U	95	0	2 J	0	0	0	0	0	10	700
Methylcyclonexane	0	0	0	U	0	0	0	0	0	0	0	0	10	
Remediableremethene	0	0	0	U	0	0	0	0	0	0	0	0	10	
biomodichioromethane	0	0	0	0	0	0	0	0	0	0	0	0	10	
4-Methyl-2-Pentanone	0	0	0	0	0	0	0	0	0	0	0	0	10	1.000
Toluono	0	0	21	0	0	10	0	0	0	0	17	12	10	1,000
Trans-1 3-Dichloropropene	0	0	2 5	0	U U	13	0	0	0		· · · ·	13	10	1,500
1 1 2-Trichloroethane	0		0	U U	U U	U U		0	0		U U	U U	10	
Tetrachloroethene	0	U U	U U	U U	U U	U U	U U	0	0	U U	U U	U U	10	1 400
2-Hevanone	U U	U U	U U	U	U U	U U	U U	U U	U U	U U	U U	U U	10	1,400
Dibromochloromethane	U U	U U	U U	U U	U U	ŭ	U U	U U	U U	U U	U U	U U	10	
1 2-Dibromoethane	Ű	U U	U U	Ŭ	Ű	Ű	U U	Ű	Ű	Ű	U U	U U	10	
Chlorobenzene	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	10	1 700
Ethylbenzene	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	10	5.500
Total Xylenes	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	зJ	Ŭ	10	1,200
Styrene	U	U	U	Ŭ	Ū	Ū	U	U	U	Ŭ	U	U	10	
Bromoform	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	10	
Isopropylbenzene	U	U	U	Ŭ	Ū	Ū	U	U	U	Ŭ	Ŭ	U	10	
1,1,2,2-Tetrachloroethane	U	U	U	Ŭ	Ū	Ū	U	U	U	Ū	Ŭ	U	10	600
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	1,600
1,4-Dichlorobenzene	Ū	U	Ū	Ū	Ū	Ū	Ū	Ū	Ū	Ū	Ū	Ū	10	8,500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	U	U	U	10	
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	3,400
Total VOCs	25	42	131	13	109	19	14	11	10	11	134	13	1	10,000
Total VOC TICs	0	0	0	0	0	20	0	0	0	0	0	8		
QUALIFIERS								NOT	FS					,

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at aconcentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

U\*: Qualified as non-detect based on validation criteria

J\*: Result qualified as estimated based on validation criteria

Indicates value exceeds the NYSDEC recommended soil clean up objective.

### TABLE 3b.

### 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2003 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12		
Sample Depth (feet)	6-8	6-8	4-6	8-10	8-10	8-10	6-8	2-4	6-8	6-8	2-4	8-10	Contract	NYSDEC
Date of Collection	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/06/03	06/06/03	06/06/03	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	14	18	18	3	10	14	14	15	13	13	10	13	Limit	Objective
Units	(ug/kg)	(ug/kg)												
Benzaldehyde	U	U	U	U	U	U	U	U	U	U	U	230 J	550	
Phenol	U	U	U	U	U	U	U	U	U	U	U	U	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	U	U	U	550	
2-Chlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	550	800
2-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	U	U	U	U	U	550	
Acetophenone	U	U	U	U	U	U	U	U	U	U	U	690	550	
4-Methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	U	U	U	550	
Hexachloroethane	U	U	U	U	U	U	U	U	U	U	U	U	550	
Nitrobenzene	U	U	U	U	U	U	U	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	Ū	U	U	U	Ŭ	U	U	U	U	550	4.400
2-Nitrophenol	Ū	Ū	Ū	Ŭ	Ū	Ū	Ū	Ŭ	Ū	Ū	Ū	Ū	550	330 OR MDL
2.4-Dimethylphenol	Ū	Ū	Ū	Ŭ	Ū	Ū	Ū	Ŭ	Ū	Ū	Ū	Ŭ	550	
bis(2-Chloroethoxy)methane	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	550	
2.4-Dichlorophenol	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	550	400
Naphthalene	Ŭ	Ŭ	50 J	72 J	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	350 J	Ŭ	550	13.000
4-Chloroaniline	Ŭ	Ū	Ü	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	U	Ŭ	550	220 OR MDI
Hexachlorobutadiene	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	550	
Caprolactum	U	U	U	Ū	U	U	U	Ŭ	U	U	U	U	550	
4-Chloro-3-methylphenol	U	U	U	Ū	U	U	U	Ŭ	U	U	U	U	550	240 OR MDL
2-Methvlnaphthalene	U	U	U	Ū	U	U	U	Ŭ	U	U	200 J	U	550	36.400
Hexachlorocyclopentadiene	U	U	U	Ū	U	U	U	Ŭ	U	U	U	U	550	
2.4.6-Trichlorophenol	U	U	U	Ū	U	U	U	Ŭ	U	U	U	U	1400	
2.4.5-Trichlorophenol	U	U	U	Ū	U	U	U	Ŭ	U	U	U	U	550	100
1.1'-Biphenvl	U	U	U	Ū	U	U	U	Ŭ	U	U	U	U	1400	
2-Chloronaphthalene	U	U	U	Ū	U	U	U	U	U	U	U	U	1400	
2-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	550	2.000
2.6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	U	550	1.000
Acenaphthylene	Ū	120 J	64 J	57 J	U	55 J	Ū	Ŭ	U	Ū	Ū	94 J	550	41,000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	U	110 J	150 J	99 J	U	57 J	U	U	U	U	110 J	U	550	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	U	97 J	61 J	98 J	U	U	U	U	U	U	100 J	U	550	6,200

### TABLE 3b. (CONTINUED) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2003 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12		
Sample Depth (feet)	6-8	6-8	4-6	8-10	8-10	8-10	6-8	2-4	6-8	6-8	2-4	8-10	Contract	NYSDEC
Date of Collection	6/5/2003	6/5/2003	6/6/2003	6/5/2003	6/5/2003	6/6/2003	6/5/2003	6/5/2003	6/6/2003	6/6/2003	6/6/2003	6/6/2003	Required	Recommended
Dilution Factor	1	1	1	1	1	1	1	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	14	18	18	3	10	14	14	15	13	13	10	13	Limit	Objective
Units	(ug/kg)	(ug/kg)												
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	U	U	U	550	
Diethylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	550	7,100
Fluorene	U	150 J	120 J	160 J	U	160 J	U	U	U	U	120 J	U	550	50,000
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	U	550	
4-Nitroaniline	U	U	U	U	U	U	U	U	U	U	U	U	1400	
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	U	U	U	1400	
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	U	U	550	
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	U	U	U	550	
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	550	410
Atrazine	U	U	U	U	U	U	U	U	U	U	U	U	550	
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	69 J	1,500	2,500	1,700	U	1,000	59 J	63 J	U	U	1,600	U	550	50,000
Anthracene	U	370 J	360 J	360	U	190 J	U	U	U	U	230 J	U	550	50,000
Carbazole	U	250 J	240 J	190 J	U	130 J	U	U	U	U	290 J	U	550	
Di-n-butylphthalate	U	47 J	U	U	U	U	U	U	U	U	U	U	550	8,100
Fluoranthene	120 J	5,800 D	3,900 D	2,700 D	U	1,400	130 J	150 J	U	U	1,800	230 J	550	50,000
Pyrene	110 J	3,400	3,300 D	2,300	U	1,100	110 J	190 J	U	U	1,700	350 J	550	50,000
Butylbenzylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	U	U	U	550	
Benzo (a) anthracene	61 J	2,500	1,700	1,100	U	630	64 J	100 J	U	U	970	240 J	550	224 OR MDL
Chrysene	59 J	2,400	2,000	1,100	U	560	66 J	120 J	U	U	1,100	230 J	550	400
bis(2-Ethylhexyl)phthalate	180 J	320 J	150 J	1,600	420	330 J	560	790	84 J	75 J	70 J	200 J	550	50,000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	82 J	3,300	2,700	1,700	U	640	90 J	200 J	U	U	1,700	380	550	1,100
Benzo(k)fluoranthene	40 J	1,300	860	600	U	230 J	41 J	66 J	U	U	530	140 J	550	1,100
Benzo(a)pyrene	45 J	2,000	1,800	1,200	U	420 J	57 J	120 J	U	U	1,000	150 J	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	U	800	920	620	U	200 J	U	75 J	U	U	670	190 J	550	3,200
Dibenzo(a,h)anthracene	U	270 J	310 J	180 J	U	74 J	U	U	U	U	230 J	57 J	550	14 OR MDL
Benzo(g,h,i)perylene	U	770	1,100	660	U	240 J	U	100 J	U	U	770	230 J	550	50,000
Total PAHs	586	24,790	21,834	14,608	0	6,956	617	1,184	0	0	12,880	2,291		
Total Carcinogen PAHs	287	12,570	10,290	6,500	0	2,754	318	681	0	0	6,200	1,387		10,000
Total SVOCs	766	25,504	22,285	16,496	420	7,416	1,177	1,974	84	75	13,540	3,411		500,000
Total SVOC TICs	1,549	2,280	7,967	16,098	8,458	8,366	4,199	2,641	1,771	7,167	2,790	26,970		

#### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

#### NOTES:

To determine the detection limit for each sample, use the following equation:

 $(CRDL)^{*}(DF)^{*}(100/\%S)$ , where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.

---: not established

Indicates value exceeds NYSDEC recommended Soil Clean-up objective

#### TABLE 3c. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2003 PESTICIDE/PCBs

Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12		
Sample Depth (feet)	6-8	6-8	4-6	8-10	8-10	8-10	6-8	2-4	6-8	6-8	2-4	8-10	Contract	NYSDEC
Date of Collection	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/06/03	06/06/03	06/06/03	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	14	18	18	3	10	14	14	15	13	13	10	13	Limit	Objective
Units	(ug/kg)	(ug/kg)												
alpha-BHC	U	U	U	U	U	U	U	U	U	U	U	U	0.05	110
beta-BHC	U	U	U	U	U	U	U	U	U	U	U	U	0.05	200
delta-BHC	U	U	U	U	U	U	U	U	U	U	U	U	0.05	300
gamma-BHC (Lindane)	U	U	U	U	U	U	U	U	U	U	U	U	0.05	60
Heptachlor	U	U	U	U	U	U	U	U	U	U	U	U	0.05	100
Aldrin	U	U	U	U	U	U	U	U	U	U	U	U	0.05	41
Heptachlor Epoxide	U	U	U	U	U	U	U	U	U	U	U	U	0.05	20
Endosulfan I	U	U	U	U	U	U	U	U	U	U	U	U	0.05	900
Dieldrin	U	U	U	U	U	U	U	U	U	U	U	U	0.10	44
4,4'-DDE	U	U	U	3.4 P	U	9.6	5.1 P	U	U	U	U	U	0.10	2100
Endrin	U	11.0	U	U	U	U	U	U	U	U	U	9.9	0.10	100
Endosulfan II	U	U	U	U	U	U	U	U	U	U	U	U	0.10	900
4,4'-DDD	U	5.3 P	U	2.6 JP	U	U	U	U	U	U	U	4.0 P	0.10	2900
Endosulfan Sulfate	U	U	U	U	U	U	U	U	U	U	U	3.8	0.10	1000
4,4'-DDT	U	44.0	U	11.0 P	4.6 P	16.0 P	23.0	U	U	U	U	U	0.10	2100
Methoxychlor	U	U	26.0 P	U	U	U	U	U	U	U	U	U	0.50	***
Endrin Ketone	U	5.5 P	5.9	U	U	U	U	U	U	U	U	5.6 P	0.10	
Endrin Aldehyde	U	U	U	U	U	U	U	U	U	U	U	U	0.10	
alpha-Chlordane	U	U	U	U	U	U	U	U	U	U	U	2.1 P	0.05	540
gamma-Chlordane	U	U	U	U	U	U	U	U	U	U	U	4.0 P	0.05	540
Toxaphene	U	U	U	U	U	U	U	U	U	U	U	U	5.0	
Aroclor-1016	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1221	U	U	U	U	U	U	U	U	U	U	U	U	2.0	1000/10000*
Aroclor-1232	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1242	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1248	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1254	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Aroclor-1260	U	U	U	U	U	U	U	U	U	U	U	U	1.0	1000/10000*
Total Pesticides	0	66	32	17	5	26	28	0	0	0	0	29		10000
Total PCBs	0	0	0	0	0	0	0	0	0	0	0	0		1000/10000*

#### QUALIFIERS:

U: Compound analyzed for but not detected

J: Compound found at a concentration below the CRDL, value estimated

P: Greater than 25% difference for detected concentrations between the two GC columns, lower value reported

D: Result is taken from reanalysis at a secondary dilution

#### NOTES:

----: not established

\*\*\*: Total pesticides not to exceed 10,000 ug/kg

\*: Value refers to the sum of these compounds; 1,000 ug/kg for surface soils and 10,000 ug/kg for subsurface soils

Indicates value exceeds NYSDEC recommended soil clean-up objective

#### TABLE 3d. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2003 INORGANIC PARAMETERS

Sample Ident.	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12		
Sample Depth (ft)	6-8	6-8	4-6	8-10	8-10	8-10	6-8	2-4	6-8	6-8	2-4	8-10		NYSDEC
Date of Collection	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/05/03	06/05/03	06/06/03	06/06/03	06/06/03	06/06/03	Instrumen	t Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Solids	86	82	82	97	90	86	86	85	87	87	90	87	Limit	Objective
Units	mg/kg	(ug/l)	(mg/kg)											
Aluminum	4,200	9,700	6,670	5,500	7,090	6,990	6,680	10,000	9,930	6,200	3,900	8,820	13	SB (6,620)
Antimony	3.1 B	U	0.78 B	0.79 B	U	1.8 B	U	U	U	U	1.0 B	U	8	SB (1.5)
Arsenic	3.0	4.7	6.9	4.9	5.1	4.8	5.6	9.4	9.0	4.1	16.7	8.3	3	7.5 or SB (18)
Barium	884	96.2	93.4	35.5 B	36.7 B	45.1	38.2 B	63.6	25.9 B	15.3 B	75.6	49.7	1	300 or SB (82.8)
Beryllium	0.16 B	0.43 B	0.29 B	0.22 B	0.34 B	0.30 B	0.29 B	0.44 B	0.45 B	0.27 B	0.40 B	0.25 B	1	0.16 or SB (0.36)
Cadmium	1.4	U	U	U	U	U	U	U	U	U	U	U	1	1 or SB (1.3)
Calcium	38,100	18,000	42,900	2,600	24,000	5,150	23,400	2,970	767 B	741 B	51,400	1,530	8	SB (73,100)
Chromium	55.4	13.3	9.4	27.8	10.1	9.2	10.5	13.2	14.0	8.9	7.7	14.7	1	10 or SB (11.7)
Cobalt	3.9 B	9.3 B	6.4 B	3.8 B	5.1 B	5.6 B	6.9 B	8.4 B	8.6 B	5.1 B	5.8 B	5.0 B	2	30 or SB (6.4)
Copper	180	33.0	50.2	37.8	25.5	25.0	31.5	29.8	45.2	20.7	25.6	31.8	1	25 or SB (129)
Iron	13,800	22,400	17,200	17,100	15,900	16,400	18,800	25,700	27,000	15,500	10,300	26,900	20	2,000 or SB (22,200)
Lead	314	41.4	97.1	22.9	11.4 B	51.8	50.6	23.7	11.1 B	7.1 B	65.8	11.5 B	2	SB (173)
Magnesium	3,080	6,070	6,060	2,180	2,820	2,710	9,680	2,970	3,610	2,050	1,880	3,290	8	SB (4,460)
Manganese	251	1,170	725	332	523	442	622	1,290	698	401	102	94.0	4	SB (712)
Mercury	0.16	0.36	0.42	12.4	U	0.33	0.18	0.22	U	U	0.30	U	0.2	0.1
Nickel	73.5	18.1	15.8	551	13.5	12.0	15.3	20.1	17.9	10.8	13.4	15.4	2	13 or SB (17.8)
Potassium	820 B	1,890	1,150	1,080	1,290	1,380	1,390	1,170	1,070 B	960 B	928 B	1,420	20	SB (788)
Selenium	2.1	0.88 B	U	0.80 B	U	U	U	0.66 B	0.85 B	U	1.6 N	U	4	2 or SB (0.32)
Silver	U	U	U	U	U	U	U	U	U	U	U	U	1	SB (0.036)
Sodium	255 B	138 B	124 B	93.4 B	114 B	91.2 B	155 B	79.8 B	81.0 B	68.6 B	199 B	370 B	9	SB (78.4)
Thallium	U	U	U	U	U	U	U	U	U	U	U	U	5	SB (0.69)
Vanadium	26.8	20.3	15.7	11.4	14.5	16.2	15.7	21.7	20.9	13.9	13.4	21.3	1	150 or SB (15.6)
Zinc	639	79.2	90.6	122	53.9	76.5	55.4	84.2	69.1	48.3	46.1	54.5	1	20 or SB (145)
Cyanide	U	U	0.35 B	1.3	0.40 B	U	0.82	0.51 B	U	U	U	U	10	

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:

SB: Site background, exceedances reflect background values reported in NYSDEC TAGM -----: not established

Indicates value exceeds the NYSDEC Recommended Soil Cleanup Objective

#### TABLE 4a.

26-28 WHITESBORO STREET SITE

SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005

VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1	MW-1	B14	B14	B15	B15	MW-2	MW-2	B17		
Sample Depth (feet)	4-6	8-10	6-8	8-10	2-4	6-8	6-8	8-10	2-4	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	12	19	14	29	13	15	17	15	16	Limit	Objective
Units	(ug/kg)	(ug/kg)									
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	10	
Chloromethane	U	U	U	U	U	U	U	U	U	10	
Vinyl Chloride	U	U	U	U	12	U	U	U	U	10	200
Bromomethane	U	U	U	U	U	U	U	U	U	10	
Chloroethane	U	U	U	U	U	U	U	U	U	10	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	10	
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	10	400
Acetone	U	U	4 J	U	U	U	U	22	U	10	200
lodomethane	U	U	U	U	U	U	U	U	U	10	
Carbon Disulfide	U	U	U	U	U	U	U	U	U	10	2,700
Methylene Chloride	U*	U*	U*	U*	U*	U*	2 J	U*	U*	10	100
trans-1.2-Dichloroethene	U	U	U	U	30	2 J	U	U	U	10	
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	10	
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	10	200
Vinyl acetate	U	U	U	U	U	U	U	U	U	10	
2-Butanone	U	U	U	U	U	U	U	U	U	10	300
cis-1.2-Dichloroethene	Ŭ	Ū	Ū	Ŭ	160 D	39	32	5 J	Ŭ	10	
2.2-Dichloropropane	Ŭ	Ū	Ū	Ŭ	U	U	U	U	Ŭ	10	
Bromochloromethane	Ū	Ŭ	Ŭ	Ū	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	10	
Chloroform	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	10	300
1.1.1-Trichloroethane	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ű	10	800
1 1-Dichloropropene	Ű	Ŭ	Ŭ	Ű	Ŭ	Ŭ	Ŭ	Ŭ	Ű	10	
Carbon Tetrachloride	Ű	Ŭ	Ŭ	Ű	Ŭ	Ŭ	Ŭ	Ŭ	Ű	10	600
1 2-Dichloroethane	Ŭ	Ŭ	Ű	Ŭ	Ŭ	Ŭ	Ű	Ŭ	Ű	10	100
Benzene	Ŭ	Ŭ	Ű	Ŭ	Ŭ	Ŭ	Ű	Ŭ	Ű	10	60
Trichloroethene	16	2.1	56	6.1	180 D	40	89	10	U U	10	700
1 2-Dichloropropane		20	00	Ű	100 D		11		Ű	10	
Dibromomethane	Ŭ	Ŭ	Ű	Ŭ	Ŭ	Ŭ	Ű	Ŭ	Ű	10	
Bromodichloromethane	Ŭ	Ŭ	Ű	Ŭ	Ŭ	Ŭ	Ű	Ŭ	Ű	10	
cis-1 3-Dichloropropene	U U	U U	U U	U U	U U	U U	U U	Ű	U U	10	
4-Methyl-2-Pentanone	U U	U U	U U	U U	U U	U U	U U	U U	U U	10	1 000
Toluene	U U	U U	U U	U U	U U	U U	U U	Ű	U U	10	1,000
Trans-1 3-Dichloropropene	U U	U U	U U	U U	U U	U U	U U	U U	U U	10	
1 1 2-Trichloroethane	U U	U U	U U	U U	U U	U U	U U	U U	U U	10	
1 3-Dichloropropape	U U	U U	U U	U U	U U	U U	U U	U U	U U	10	300
Tetrachloroethene	U U	U U	U U	U U	U U	U U	U U	U U	U U	10	1 400
2-Hevanone	U U	U U	1	U U	U U			U U		10	1,400
Dibromochloromethane	U U			U U	U U		0	U U		10	
1 2-Dibromoethane										10	
Chlorobenzene										10	1 700
1 1 1 2-Tetrachloroothane										10	1,700
	U	U	U	U	U	U	U	U	U	10	

#### TABLE 4a. (continued) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005 VOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1	MW-1	B14	B14	B15	B15	MW-2	MW-2	B17		
Sample Depth (feet)	4-6	8-10	6-8	8-10	2-4	6-8	6-8	8-10	2-4	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	12	19	14	29	13	15	17	15	16	Limit	Objective
Units	(ug/kg)	(ug/kg)									
Ethylbenzene	U	U	U	U	U	U	U	U	U	10	5,500
m,p-Xylenes	U	U	U	U	U	U	U	U	U	10	1,200
o-Xylene	U	U	U	U	U	U	U	U	U	10	1,200
Total Xylenes	U	U	U	U	U	U	U	U	U	10	1,200
Styrene	U	U	U	U	U	U	U	U	U	10	
Bromoform	U	U	U	U	U	U	U	U	U	10	
Isopropylbenzene	U	U	U	U	U	U	U	U	U	10	
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	10	600
Bromobenzene	U	U	U	U	U	U	U	U	U	10	
1,2,3-Trichloropropane	U	U	U	U	U	U	U	U	U	10	400
n-Propylbenzene	U	U	U	U	U	U	U	U	U	10	
2-Chlorotoluene	U	U	U	U	U	U	U	U	U	10	
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	U	U	10	
4-Chlorotoluene	U	U	U	U	U	U	U	U	U	10	
tert-Butylbenzene	U	U	U	U	U	U	U	U	U	10	
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	U	U	10	
sec-Butylbenzene	U	U	U	U	U	U	U	U	U	10	
4-Isopropyltoluene	U	U	U	U	U	U	U	U	U	10	
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	10	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	10	8,500
n-Butylbenzene	U	U	U	U	U	U	U	U	U	10	
1,2-Dichlorobenzene	U	U	U	U	U	U	1 J	U	U	10	7,900
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	10	
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	10	3,400
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	10	
Naphthalene	U*	U	U*	U*	U	U	U	U	U	10	13,000
1,2,3-Trichlorobenzene	U	U	U	U	U	U	U	U	U	10	
Total VOCs	16	2	60	6	382	81	124	37	0		10,000
Total VOC TICs	0	0	0	8	0	0	0	0	0		
QUALIFIERS:	1	1	1	1	NOTES	1	1	1	1	1	I

U: Compound analyzed for but not detected

Indicates value exceeds the NYSDEC recommended soil clean up objective (TAGM 4046).

B: Compound found in the method blank as well as the sample

J: Compound found at aconcentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

U\*: Qualified as non-detect based on validation criteria

### TABLE 4a. (continued) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005 VOLATILE ORGANIC COMPOUNDS

Sample Identification	B17	B18	B18	MW-3	MW-4	MW-4	MW-6	MW-8	MW-8		
Sample Depth (feet)	6-8	4-6	8-10	6-8	4-6	6-8	6-8	2-4	6-8	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/02/05	06/02/05	06/02/05	06/02/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	17	9	17	16	18	20	14	15	17	Limit	Objective
Units	(ug/kg)	(ug/kg)									
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	10	
Chloromethane	U	U	U	U	U	U	U	U	U	10	
Vinyl Chloride	U	260	U	U	U	U	U	U	U	10	200
Bromomethane	U	U	U	U	U	U	U	U	U	10	
Chloroethane	U	U	U	U	U	U	U	U	U	10	1,900
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	10	
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	10	400
Acetone	U	11	U	6	U	U	45	U	U	10	200
lodomethane	U	U	U	U	U	U	U	U	U	10	
Carbon Disulfide	U	U	U	U	U	U	1 J	U	U	10	2,700
Methylene Chloride	3 J	U*	U*	2 J	3 J	3 J	3 J	U*	U*	10	100
trans-1,2-Dichloroethene	U	18	2 J	U	U	U	U	U	U	10	
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	10	
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	10	200
Vinyl acetate	U	U	U	U	U	U	U	U	U	10	
2-Butanone	U	U	U	U	U	U	U	U	U	10	300
cis-1,2-Dichloroethene	U	1,500 D	32	U	U	U	U	U	U	10	
2,2-Dichloropropane	U	U	U	U	U	U	U	U	U	10	
Bromochloromethane	U	U	U	U	U	U	U	U	U	10	
Chloroform	U	U	U	U	U	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	10	800
1.1-Dichloropropene	U	U	U	U	U	U	U	U	U	10	
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	10	600
1.2-Dichloroethane	U	U	U	U	U	U	U	U	U	10	100
Benzene	Ū	1 J	U	Ū	U	U	2 J	U	Ŭ	10	60
Trichloroethene	4 J	5.700 D	35	3 J	26	18	Ŭ	Ŭ	Ŭ	10	700
1.2-Dichloropropane	Ŭ	U	U	Ŭ	U	U	Ŭ	Ŭ	Ŭ	10	
Dibromomethane	Ū	Ŭ	Ŭ	Ū	Ū	Ŭ	Ŭ	Ū	Ŭ	10	
Bromodichloromethane	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	10	
cis-1.3-Dichloropropene	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	10	
4-Methyl-2-Pentanone	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ū	Ŭ	Ŭ	10	1.000
Toluene	Ŭ	Ŭ	Ű	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	10	1,500
Trans-1 3-Dichloropropene	Ŭ	Ŭ	Ű	Ŭ	Ŭ	Ŭ	Ű	Ű	Ŭ	10	
1 1 2-Trichloroethane	Ű	Ŭ	Ű	Ŭ	Ŭ	Ű	U U	Ű	Ŭ	10	
1.3-Dichloropropane	Ű	Ŭ	Ű	Ŭ	Ŭ	Ű	U U	Ű	Ŭ	10	300
Tetrachloroethene	U U	U U	U U	U U	U U	U U	U U	U U	U U	10	1 400
2-Hevanone	U U	U U	U U	U U	U U		U U	U U	U U	10	
Dibromochloromethane					1		11			10	
1 2-Dibromoethane	U U	U U					1		U	10	
Chlorobenzene	1	1				1	1	1	1	10	1 700
1.1.1.2-Tetrachloroethane	Ŭ	Ŭ	Ŭ	U U	Ŭ	ŭ	Ŭ	Ű	Ŭ	10	

#### TABLE 4a. (continued) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005 VOLATILE ORGANIC COMPOUNDS

Sample Identification	B17	B18	B18	MW-3	MW-4	MW-4	MW-6	MW-8	MW-8		
Sample Depth (feet)	6-8	4-6	8-10	6-8	4-6	6-8	6-8	2-4	6-8	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/02/05	06/02/05	06/02/05	06/02/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	17	9	17	16	18	20	14	15	17	Limit	Objective
Units	(ug/kg)	(ug/kg)									
Ethylbenzene	U	U	U	U	U	U	140	U	U	10	5,500
m,p-Xylenes	U	U	U	U	U	U	56	U	U	10	1,200
o-Xylene	U	U	U	U	U	U	220 E	U	U	10	1,200
Total Xylenes	U	U	U	U	U	U	270	U	U	10	1,200
Styrene	U	U	U	U	U	U	U	U	U	10	
Bromoform	U	U	U	U	U	U	U	U	U	10	
Isopropylbenzene	U	U	U	U	U	U	220 E	U	U	10	
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	10	600
Bromobenzene	U	U	U	U	U	U	U	U	U	10	
1,2,3-Trichloropropane	U	U	U	U	U	U	U	U	U	10	400
n-Propylbenzene	U	U	U	U	U	U	220 E	U	U	10	
2-Chlorotoluene	U	U	U	U	U	U	U	U	U	10	
1,3,5-Trimethylbenzene	U	U	U	U	U	U	1,000 DJ	U	U	10	
4-Chlorotoluene	U	U	U	U	U	U	U	U	U	10	
tert-Butylbenzene	U	U	U	U	U	U	U	U	U	10	
1,2,4-Trimethylbenzene	U	U	U	U	U	U	3,900 D	U	U	10	
sec-Butylbenzene	U	U	U	U	U	U	64	U	U	10	
4-Isopropyltoluene	U	U	U	U	U	U	150	U	U	10	
1,3-Dichlorobenzene	2 J	U	U	U	U	U	U	U	U	10	1,600
1,4-Dichlorobenzene	3 J	U	U	U	U	U	U	U	U	10	8,500
n-Butylbenzene	2 J	U	U	U	U	U	220 E	U	U	10	
1,2-Dichlorobenzene	3 J	U*	U	U	2 J	2 J	U	U	U	10	7,900
1,2-Dibromo-3-chloropropane	1 J	U	U	U	U	U	U	U	U	10	
1,2,4-Trichlorobenzene	4 J	U	U	U	U	U	U	U	U	10	3,400
Hexachlorobutadiene	3 J	U	U	U	U	U	U	U	U	10	
Naphthalene	U	U	U	U	U	U	56,000 D	U	U	10	13,000
1,2,3-Trichlorobenzene	4 J	U	U	U	U	U	U	U	U	10	
Total VOCs	29	7,490	69	11	31	23	62,511	0	0		10,000
Total VOC TICs	0	1,100	0	0	0	0	14,540	0	0		

QUALIFIERS:

NOTES:

Indicates value exceeds the NYSDEC recommended soil clean up objective (TAGM 4046).

B: Compound found in the method blank as well as the sample

J: Compound found at aconcentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

U: Compound analyzed for but not detected

U\*: Qualified as non-detect based on validation criteria

E:Compound concentration exceeds calibration range, value estimated

### TABLE 4b. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1	MW-1	B14	B14	B15	B15	MW-2	MW-2	B17		
Sample Depth (feet)	4-6	8-10	6-8	8-10	2-4	6-8	6-8	8-10	2-4	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	5.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	12	19	14	29	13	15	17	15	16	Limit	Objective
Units	(ug/kg)	(ug/kg)									
Phenol	U	U	U	U	U	U	U	U	1,700	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	550	
2-Chlorophenol	U	U	U	U	U	U	U	U	U	550	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	8,500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	7,900
2-Methylphenol	U	U	U	U	U	U	U	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	U	U	550	
4-Methylphenol	51 J	U	46 J	U	U	U	U	U	100 J	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	550	
Hexachloroethane	U	U	U	U	U	U	U	U	U	550	
Nitrobenzene	U	U	U	U	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	U	U	U	U	U	550	
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	550	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	550	3,400
Naphthalene	510	U	500	1,800	U	U	U	U	1,200	550	13,000
4-Chloroaniline	U	U	U	Ú	U	U	U	U	Ū	550	220 OR MDL
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	550	
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	550	
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	210 J	U	240 J	2,500	82 J	U	U	U	770	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	550	
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	1400	
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	550	100
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	1400	
2-Nitroaniline	U	U	U	U	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	U	U	550	2,000
Acenaphthylene	140 J	U	140 J	120 J	U	U	U	U	380 J	550	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	550	1,000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	410	U	350 J	1,600	81 J	U	U	U	3,600	550	50,000
2,4-Dinitrophenol	U	U	U	Ū	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	310 J	U	340 J	130 J	79 J	U	U	U	3,000	550	6,200

#### TABLE 4b. (CONTINUED) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	MW-1	MW-1	B14	B14	B15	B15	MW-2	MW-2	B17		
Sample Depth (feet)	4-6	8-10	6-8	8-10	2-4	6-8	6-8	8-10	2-4	Contract	NYSDEC
Date of Collection	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	6/1/2005	Required	Recommended
Dilution Factor	1	1	1	5	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	12	19	14	29	13	15	17	15	16	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	550	
Diethylphthalate	U	U	U	U	U	U	U	U	U	550	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	550	
Fluorene	390	U	460	530	100 J	U	U	U	4,500	550	50,000
4-Nitroaniline	U	U	U	U	U	U	U	U	U	1400	
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	1400	
N-Nitrosodiphenvlamine	U	U	U	U	U	U	U	U	U	550	
4-Bromophenyl-phenylether	Ū	U	Ū	U	U	U	U	Ū	Ŭ	550	
Hexachlorobenzene	Ū	U	Ū	U	U	U	U	Ū	Ŭ	550	410
Pentachlorophenol	Ū	U	Ū	U	U	U	U	Ū	Ŭ	1400	1.000 OR MDL
Phenanthrene	5.200	130 J	4.200	2.500	1.100	190 J	U	150 J	43.000 D	550	50.000
Anthracene	1.000	U	930	670	290 J	53 J	U	U	7.800 DJ	550	50.000
Carbazole	610	Ŭ	510	U	120 J	U	Ŭ	Ū	5.800	550	
Di-n-butylphthalate	40 J	61 J	45 J	Ŭ	48 J	Ŭ	Ŭ	47 J	860	550	8.100
Fluoranthene	7.900 D	140 J	5.400	590	2.100	270 J	U	310 J	46.000 D	550	50.000
Pvrene	5.800 D	100 J	5.000	1.000	1.400	250 J	U	270 J	43.000 D	550	50.000
Butylbenzylphthalate	U	U	U	U	U	U	Ū	U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	550	
Benzo (a) anthracene	3,400	58 J	2,300	450	1,000 J	160 J	U	160 J	20,000 D	550	224 OR MDL
Chrysene	3,000	57 J	2,300	460	1,100	140 J	U	180 J	19,000 D	550	400
bis(2-Ethylhexyl)phthalate	120 J	500	860	56 J	160 J	290 J	59 J	150 J	860	550	50,000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	3,500	54 J	2,700	180 J	1,200	160 J	U	150 J	23,000 D	550	1,100
Benzo(k)fluoranthene	1,500	28 J	1,400	120 J	650 J	56 J	U	86 J	10,000 D	550	1,100
Benzo(a)pyrene	2,700	44 J	1,800	250 J	880 J	110 J	U	120 J	16,000 D	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	900	U	410	78 J	350 J	60 J	U	61 J	4,300	550	3,200
Dibenzo(a,h)anthracene	290 J	U	130 J	U	110 J	U	U	U	1,400	550	14 OR MDL
Benzo(g,h,i)perylene	810	U	390	95 J	340 J	66 J	U	62 J	3,700	550	50,000
Total PAHs	37,450	611	28,410	10,443	10,701	1,515	0	1,549	246,880		
Total Carcinogen PAHs	15,290	241	11,040	1,538	5,290	686	0	757	93,700		10,000
Total SVOCs	38,791	1,172	30,451	13,129	11,190	1,805	59	1,746	259,970		500,000
Total SVOC TICs	5.210	210	5.890	1.314.100	1.780	0	0	0	22.580		

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

NOTES:

To determine the detection limit for each sample, use the following equation: (CRDL)\*(DF)\*(100/%S), where CRDL = contract required detection limit, DF = dilution

 $(CRDL)^{*}(DF)^{*}(100/\%S)$ , where CRDL = contract required detection limit, DF = dilution factor and <math>%S = percent solids.

---: not established

Indicates value exceeds NYSDEC recommended Soil Clean-up objective

### TABLE 4b. (continued) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B17	B18	B18	MW-3	MW-4	MW-4	MW-6	MW-8	MW-8		
Sample Depth (feet)	6-8	4-6	8-10	6-8	4-6	6-8	6-8	2-4	6-8	Contract	NYSDEC
Date of Collection	06/01/05	06/01/05	06/01/05	06/02/05	06/02/05	06/02/05	06/02/05	06/01/05	06/01/05	Required	Recommended
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Detection	Soil Clean-Up
Percent Moisture	17	9	17	16	18	20	14	15	17	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)						
Phenol	U	U	U	U	U	U	1,800 J	U	U	550	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	U	U	550	
2-Chlorophenol	U	U	U	U	U	U	U	U	U	550	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	1,600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	8,500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	550	7,900
2-Methylphenol	U	U	U	U	U	U	1,300 J	U	U	550	100 OR MDL
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	U	U	U	550	
4-Methylphenol	U	U	U	U	U	U	3,300	U	U	550	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	U	U	550	
Hexachloroethane	U	U	U	U	U	U	U	U	U	550	
Nitrobenzene	U	U	U	U	U	U	U	U	U	550	200 OR MDL
Isophorone	U	U	U	U	U	U	U	U	U	550	4,400
2-Nitrophenol	U	U	U	U	U	U	U	U	U	550	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	U	U	2,300 J	U	U	550	
2,4-Dichlorophenol	U	U	U	U	U	U	U	U	U	550	400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	U	550	3,400
Naphthalene	U	54 J	U	U	170 J	U	61,000 D	52 J	U	550	13,000
4-Chloroaniline	U	U	U	U	U	U	U	U	U	550	220 OR MDL
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	U	U	550	
Hexachlorobutadiene	U	U	U	U	U	U	U	U	U	550	
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	U	U	550	240 OR MDL
2-Methylnaphthalene	U	U	U	U	71 J	U	34,000	46 J	U	550	36,400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	U	U	550	
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	1400	
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	550	100
2-Chloronaphthalene	U	U	U	U	U	U	U	U	U	1400	
2-Nitroaniline	U	U	U	U	U	U	U	U	U	550	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	U	U	550	2,000
Acenaphthylene	U	U	U	U	U	U	14,000	U	U	550	41,000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	U	U	550	1,000
3-Nitroaniline	U	U	U	U	U	U	U	U	U	1400	500 OR MDL
Acenaphthene	U	110 J	U	U	74 J	U	36,000 DJ	71 J	U	550	50,000
2,4-Dinitrophenol	U	U	U	U	U	U	U	U	U	1400	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	U	U	1400	100 OR MDL
Dibenzofuran	U	70 J	U	U	76 J	U	36,000 DJ	72 J	U	550	6,200

#### TABLE 4b. (CONTINUED) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION SUBSURFACE SOIL SAMPLE RESULTS - JUNE 2005 SEMIVOLATILE ORGANIC COMPOUNDS

Sample Identification	B17	B18	B18	MW-3	MW-4	MW-4	MW-6	MW-8	MW-8		
Sample Depth (feet)	6-8	4-6	8-10	6-8	4-6	6-8	6-8	2-4	6-8	Contract	NYSDEC
Date of Collection	6/1/2005	6/1/2005	6/1/2005	6/2/2005	6/2/2005	6/2/2005	6/2/2005	6/1/2005	6/1/2005	Required	Recommended
Dilution Factor	1	1	1	1	1	1	1	1	1	Detection	Soil Clean-Up
Percent Moisture	17	9	17	16	18	20	14	15	17	Limit	Objective
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)						
2,4-Dinitrotoluene	U	U	U	U	U	U	U	U	U	550	
Diethylphthalate	U	U	U	U	U	U	U	U	U	550	7,100
4-Chlorophenyl-phenylether	U	U	U	U	U	U	U	U	U	550	
Fluorene	U	110 J	U	U	89 J	U	50,000 D	90 J	U	550	50,000
4-Nitroaniline	U	U	U	U	U	U	U	U	U	1400	
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	U	U	U	1400	
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	550	
4-Bromophenyl-phenylether	U	U	U	U	U	U	U	U	U	550	
Hexachlorobenzene	U	U	U	U	U	U	U	U	U	550	410
Pentachlorophenol	U	U	U	U	U	U	U	U	U	1400	1,000 OR MDL
Phenanthrene	U	1,100	45 J	130 J	1,100	U	410,000 D	840	U	550	50,000
Anthracene	Ū	240 J	U	U	230 J	U	120,000 D	220 J	Ŭ	550	50.000
Carbazole	Ū	140 J	U	U	140 J	U	34.000 DJ	120 J	Ŭ	550	
Di-n-butylphthalate	Ū	39 J	Ū	Ū	48 J	U	U	47 J	Ŭ	550	8,100
Fluoranthene	U	1,200	57 J	210 J	1,500	U	470,000 D	1,000	U	550	50,000
Pyrene	U	1,000	45 J	170 J	1,200	U	430,000 D	1,000	U	550	50,000
Butylbenzylphthalate	U	Ú	U	U	Ú	U	Ū	, U	U	550	50,000
3,3'-Dichlorobenzidine	U	U	U	U	U	U	U	U	U	550	
Benzo (a) anthracene	U	540	U	110 J	810	U	200,000 D	550	U	550	224 OR MDL
Chrysene	U	570	U	80 J	680	U	210,000 D	540	U	550	400
bis(2-Ethylhexyl)phthalate	45 J	74 J	210 J	110 J	150 J	110 J	8,700	440	90 J	550	50,000
Di-n-octylphthalate	U	U	U	U	U	U	U	U	U	550	50,000
Benzo(b)fluoranthene	U	590	U	88 J	800	U	150,000 D	740	U	550	1,100
Benzo(k)fluoranthene	U	240 J	U	45 J	330 J	U	91,000 D	310 J	U	550	1,100
Benzo(a)pyrene	U	430	U	71 J	550	U	130,000 D	470	U	550	61 OR MDL
Indeno(1,2,3-cd)pyrene	U	180 J	U	41 J	320 J	U	59,000 D	140 J	U	550	3,200
Dibenzo(a,h)anthracene	U	54 J	U	U	89 J	U	15,000	U	U	550	14 OR MDL
Benzo(g,h,i)perylene	U	180 J	U	46 J	320 J	U	69,000 D	140 J	U	550	50,000
Total PAHs	0	6,598	147	991	8,262	0	2,515,000	6,163	0		
Total Carcinogen PAHs	0	2,604	0	435	3,579	0	855,000	2,750	0		10,000
Total SVOCs	45	6,921	357	1,101	8,747	110	2,636,400	6,888	90		500,000
Total SVOC TICs	170	1,220	0	1,460	2,730	0	1,314,100	2,060	230		

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

D: Result taken from reanalysis at dilution

NOTES:

To determine the detection limit for each sample, use the following equation:

 $(CRDL)^{*}(DF)^{*}(100/\%S)$ , where CRDL = contract required detection limit, DF = dilution factor and %S = percent solids.

---: not established

Indicates value exceeds NYSDEC recommended Soil Clean-up objective
#### TABLE 5a. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JUNE 2003 VOLATILE ORGANIC COMPOUNDS

											Contract	NYSDEC Class GA		
Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12	Required	Groundwater
Date of Collection	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)											
Dichlorodifluoromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chloromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	2 J	U	U	U	U	U	U	U	U	U	10	2 ST
Bromomethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Chloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2-trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	
Acetone	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
Carbon Disulfide	U	U	U	U	U	U	U	U	U	U	U	U	10	60GV
Methyl Acetate	U	U	U	U	U	U	U	U	U	U	U	U	10	
Methylene Chloride	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
trans-1,2-dichloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Methyl tert-Butyl Ether	U	U	U	U	U	U	U	U	U	U	U	U	10	10GV
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
cis-1,2-Dichloroethene	7 J	3 J	9 J	U	U	U	U	U	U	U	U	U	10	5 ST
2-Butanone	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
Chloroform	U	U	U	U	U	U	U	U	U	U	U	U	10	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Cyclohexane	U	U	U	U	U	U	U	U	U	U	U	U	10	
Carbon Tetrachloride	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Benzene	U	U	U	U	U	U	U	U	U	U	U	U	10	1 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	0.6 ST
Trichloroethene	25	12	U	4 J	26	U	7 J	U	U	U	U	U	10	5 ST
Methylcyclohexane	U	U	U	U	U	U	U	U	U	U	U	U	10	
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U	U	U	10	1 ST
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	U	10	0.4 ST *
4-Methyl-2-Pentanone	U	U	U	U	U	U	U	U	U	U	U	U	10	
Toluene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	U	U	U	10	0.4 ST *
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	1 ST
Tetrachloroethene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
2-Hexanone	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
Dibromochloromethane	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
1,2-Dibromoethane	U	U	U	U	U	U	U	U	U	U	U	U	10	
Chlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Ethylbenzene	U	U	U	U	U	U	U	U	U	U	Ŭ	U	10	5 ST
Total Xylenes	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Bromoform	U	U	U	U	U	U	U	U	U	U	U	U	10	50GV
Isopropylbenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	U	U	U	U	10	0.04 ST
1,2,4- I richlorobenzene	U	U	U	U	U	U	U	U	U	U	U	U	10	5 ST
Total VOCs	32	15	11	4	26	0	7	0	0	0	0	0		
LIOTAL VOC LICS	1 0	1 0	0	1 0	0	1 0	1 0	1 0	0	0	0	1 0	1	

QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

NOTES:

\*: Value pertains to the sum of the isomers

GV: Guidance Value

ST: Standard

----: Not established

# TABLE 5b. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JUNE 2003 SEMIVOLATILE ORGANIC COMPOUNDS

							Contract	NYSDEC Class GA
Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	Required	Groundwater
Date of Collection	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)						
Benzaldehyde	U	U	U	U	U	U	10	
Phenol	U	U	U	U	U	U	10	1 ST *
bis(2-Chloroethyl)ether	U	U	U	U	U	U	10	1 ST
2-Chlorophenol	U	U	U	U	U	U	10	1 ST *
2-Methylphenol	U	U	U	U	U	U	10	
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	10	
Acetophenone	U	U	U	U	U	U	10	
4-Methylphenol	U	U	U	U	U	U	10	
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	10	
Hexachloroethane	U	U	U	U	U	U	10	5 ST
Nitrobenzene	U	U	U	U	U	U	10	0.4 ST
Isophorone	U	U	U	U	U	U	10	50 GV
2-Nitrophenol	U	U	U	U	U	U	10	
2,4-Dimethylphenol	U	U	U	U	U	U	10	1 ST *
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	10	5 ST
2,4-Dichlorophenol	U	U	U	U	U	U	10	1 ST *
Naphthalene	U	U	U	U	U	2 J	10	10 GV
4-Chloroaniline	U	U	U	U	U	U	10	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	10	0.5 ST
Caprolactum	U	U	U	U	U	U	10	
4-Chloro-3-methylphenol	U	U	U	U	U	U	10	
2-Methylnaphthalene	U	U	U	U	U	1 J	10	
Hexachlorocyclopentadiene	U	U	U	U	U	U	10	5 ST
2,4,6-Trichlorophenol	U	U	U	U	U	U	10	
2,4,5-Trichlorophenol	U	U	U	U	U	U	25	
1-1'-Biphenyl	U	U	U	U	U	U	10	5 ST
2-Chloronaphthalene	U	U	U	U	U	U	10	5 ST
2-Nitroaniline	U	U	U	U	U	U	25	5 ST
Dimethylphthalate	U	U	U	U	U	U	10	50 GV
2,6-Dinitrotoluene	U	U	U	U	U	U	10	5 ST
Acenaphthylene	U	U	U	U	U	1 J	10	
3-Nitroaniline	U	U	U	U	U	U	25	5 ST
Acenaphthene	1 J	U	U	U	U	U	10	20 GV
2,4-Dinitrophenol	U	U	U	U	U	U	25	1 ST *
4-Nitrophenol	U	U	U	U	U	U	25	
Dibenzofuran	1 J	U	U	U	U	U	10	

# TABLE 5b. (CONTINUED) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JUNE 2003 SEMIVOLATILE ORGANIC COMPOUNDS

							Contract	NYSDEC Class GA
Sample Identification	B-1	B-2	B-3	B-4	B-5	B-6	Required	Groundwater
Date of Collection	6/10/2003	6/10/2003	6/10/2003	6/10/2003	6/10/2003	6/10/2003	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)							
2,4-Dinitrotoluene	U	U	U	U	U	U	10	5 ST
Diethylphthalate	U	U	U	U	U	U	10	50 GV
Fluorene	2 J	U	U	U	U	2 J	10	50 GV
4-Chlorophenyl-phenylether	U	U	U	U	U	U	10	
4-Nitroaniline	U	U	U	U	U	U	25	5 ST
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	25	
N-Nitrosodiphenylamine	U	U	U	U	U	U	10	50 GV
4-Bromophenyl-phenylether	U	U	U	U	U	U	10	
Hexachlorobenzene	U	U	U	U	U	U	10	0.04 ST
Atrazine	U	U	U	U	U	U	10	7.5 ST
Pentachlorophenol	U	U	U	U	U	U	25	1 ST *
Phenanthrene	14	U	U	U	U	6 J	10	50 GV
Anthracene	2 J	U	U	U	U	U	10	50 GV
Carbazole	4 J	U	U	U	U	1 J	10	
Di-n-butylphthalate	U	U	U	U	U	U	10	50 ST
Fluoranthene	22	U	U	U	U	3 J	10	50 GV
Pyrene	15	U	U	U	U	2 J	10	50 GV
Butylbenzylphthalate	U	U	U	U	U	U	10	50 GV
3,3'-Dichlorobenzidine	U	U	U	U	U	U	10	5 ST
Benzo (a) anthracene	6 J	U	U	U	U	U	10	0.002 GV
Chrysene	6 J	U	U	U	U	U	10	0.002 GV
bis(2-Ethylhexyl)phthalate	1 J	3 J	U	U	U	U	10	5 ST
Di-octylphthalate	U	U	U	U	U	U	10	50 GV
Benzo(b)fluoranthene	6 J	U	U	U	U	U	10	0.002 GV
Benzo(k)fluoranthene	3 J	U	U	U	U	U	10	0.002 GV
Benzo(a)pyrene	4 J	U	U	U	U	U	10	ND ST
Indeno(1,2,3-cd)pyrene	3 J	U	U	U	U	U	10	0.002 GV
Dibenzo(a,h)anthracene	U	U	U	U	U	U	10	
Benzo(g,h,i)perylene	3 J	U	U	U	U	U	10	
Total PAHs	87	0	0	0	0	16		
Total Carcinogen PAHs	28	0	0	0	0	0		
Total SVOCs	93	3	0	0	0	18		
Total SVOC TICs	24	9	0	3	4	0		

## QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

NOTES:

\* : Applies to Total Phenols

\*\* : Applies to the sum of Unchlorinated Phenols

\*\*\*\* : Applies to the sum of Chlorinated Phenols

# TABLE 5b. (continued) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JUNE 2003 SEMIVOLATILE ORGANIC COMPOUNDS

							Contract	NYSDEC Class GA
Sample Identification	B-7	B-8	B-9	B-10	B-11	B-12	Required	Groundwater
Date of Collection	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)						
Benzaldehyde	U	U	U	U	U	2 J	10	
Phenol	U	U	U	U	U	U	10	1 ST *
bis(2-Chloroethyl)ether	U	U	U	U	U	U	10	1 ST
2-Chlorophenol	U	U	U	U	U	U	10	1 ST *
2-Methylphenol	U	U	U	U	U	U	10	
2,2-Oxybis (1-Chloropropane)	U	U	U	U	U	U	10	
Acetophenone	U	U	U	U	U	8 J	10	
4-Methylphenol	U	U	U	U	U	U	10	
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	10	
Hexachloroethane	U	U	U	U	U	U	10	5 ST
Nitrobenzene	U	U	U	U	U	U	10	0.4 ST
Isophorone	U	U	U	U	U	U	10	50 GV
2-Nitrophenol	U	U	U	U	U	U	10	
2,4-Dimethylphenol	U	U	U	U	U	U	10	1 ST *
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	10	5 ST
2,4-Dichlorophenol	U	U	U	U	U	U	10	1 ST *
Naphthalene	U	U	U	U	U	U	10	10 GV
4-Chloroaniline	U	U	U	U	U	U	10	5 ST
Hexachlorobutadiene	U	U	U	U	U	U	10	0.5 ST
Caprolactum	U	U	U	U	U	U	10	
4-Chloro-3-methylphenol	U	U	U	U	U	U	10	
2-Methylnaphthalene	U	U	U	U	U	U	10	
Hexachlorocyclopentadiene	U	U	U	U	U	U	10	5 ST
2,4,6-Trichlorophenol	U	U	U	U	U	U	10	
2,4,5-Trichlorophenol	U	U	U	U	U	U	25	
1-1'-Biphenyl	U	U	U	U	U	U	10	5 ST
2-Chloronaphthalene	U	U	U	U	U	U	10	5 ST
2-Nitroaniline	U	U	U	U	U	U	25	5 ST
Dimethylphthalate	U	U	U	U	U	U	10	50 GV
2,6-Dinitrotoluene	U	U	U	U	U	U	10	5 ST
Acenaphthylene	U	U	U	U	U	1 J	10	
3-Nitroaniline	U	U	U	U	U	U	25	5 ST
Acenaphthene	U	U	U	U	U	U	10	20 GV
2,4-Dinitrophenol	U	U	U	U	U	U	25	1 ST *
4-Nitrophenol	1 J	U	U	U	U	U	25	
Dibenzofuran	U	U	U	U	U	U	10	

# TABLE 5b. (CONTINUED) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JUNE 2003 SEMIVOLATILE ORGANIC COMPOUNDS

							Contract	NYSDEC Class GA
Sample Identification	B-7	B-8	B-9	B-10	B-11	B-12	Required	Groundwater
Date of Collection	6/10/2003	6/10/2003	6/10/2003	6/10/2003	6/10/2003	6/10/2003	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)							
2,4-Dinitrotoluene	U	U	U	U	U	U	10	5 ST
Diethylphthalate	1 J	U	U	U	U	U	10	50 GV
Fluorene	U	U	U	U	U	U	10	50 GV
4-Chlorophenyl-phenylether	U	U	U	U	U	U	10	
4-Nitroaniline	U	U	U	U	U	U	25	5 ST
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U	25	
N-Nitrosodiphenylamine	U	U	U	U	U	U	10	50 GV
4-Bromophenyl-phenylether	U	U	U	U	U	U	10	
Hexachlorobenzene	U	U	U	U	U	U	10	0.04 ST
Atrazine	U	U	U	U	U	U	10	7.5 ST
Pentachlorophenol	U	U	U	U	U	U	25	1 ST *
Phenanthrene	6 J	U	U	U	U	U	10	50 GV
Anthracene	U	U	U	U	U	U	10	50 GV
Carbazole	1 J	U	U	U	U	U	10	
Di-n-butylphthalate	U	U	U	U	U	U	10	50 ST
Fluoranthene	6 J	U	U	U	U	1 J	10	50 GV
Pyrene	3 J	U	U	U	U	1 J	10	50 GV
Butylbenzylphthalate	U	U	U	U	U	U	10	50 GV
3,3'-Dichlorobenzidine	U	U	U	U	U	U	10	5 ST
Benzo (a) anthracene	U	U	U	U	U	1 J	10	0.002 GV
Chrysene	1 J	U	U	U	U	1 J	10	0.002 GV
bis(2-Ethylhexyl)phthalate	2 J	2 J	U	U	U	1 J	10	5 ST
Di-octylphthalate	U	U	U	U	U	U	10	50 GV
Benzo(b)fluoranthene	U	U	U	U	U	2 J	10	0.002 GV
Benzo(k)fluoranthene	U	U	U	U	U	U	10	0.002 GV
Benzo(a)pyrene	U	U	U	U	U	U	10	ND ST
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U	10	0.002 GV
Dibenzo(a,h)anthracene	U	U	U	U	U	U	10	
Benzo(g,h,i)perylene	U	U	U	U	U	U	10	
Total PAHs	16	0	0	0	0	7		
Total Carcinogen PAHs	1	0	0	0	0	4		
Total SVOCs	21	2	0	0	0	16		
Total SVOC TICs	9	5	2	0	3	173		

### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the method blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

NOTES:

\* : Applies to Total Phenols

\*\* : Applies to the sum of Unchlorinated Phenols

\*\*\*\* : Applies to the sum of Chlorinated Phenols

#### TABLE 5c.

## 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JUNE 2003 INORGANIC PARAMETERS - UNFILTERED

							NYSDEC Class GA
Sample Identification	B-1	B-3	B-10	B-11	B-12	Instrument	Groundwater
Date of Collection	06/10/03	06/10/03	06/10/03	06/10/03	06/10/03	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	286,000	22,300	228,000	116,000	490,000	9	
Antimony	65.1	U	U	3.1 B	6.9 B	4	3 ST
Arsenic	425	62.0	417	351	618	2	25 ST
Barium	6,430	222	3,100	2,330	3,600	2	1,000 ST
Beryllium	20.9	2.0 B	17.7	15.9	27.7	0.2	3 GV
Cadmium	33.0	0.89 B	19.9	28.1	47.8	0.2	5 ST
Calcium	467,000	79,400	233,000	427,000	476,000	234	
Chromium	2,600	50.2	288	169	822	0.6	50 ST
Cobalt	386	27.7 B	233	251	437	0.7	
Copper	3,570	173	1,950	1,750	4,190	5	200 ST
Iron	1,020,000	608,000	1,020,000	345,000	2,170,000	2	300 ST ^
Lead	2,250	88.3	644	1,380	1,730	2	25 ST
Magnesium	169,000	22,900	113,000	72,000	273,000	2	35,000 GV
Manganese	93,000	3,230	95,900	29,800	24,100	0.9	300 ST ^
Mercury	1.8	U	1.2	8.6	3.9	0.1	0.7 ST
Nickel	3,810	66.4	569	444	1,150	0.9	100 ST
Potassium	43,700	30,100	28,200	32,900	56,700	320	
Selenium	U	U	U	72.7	U	3	10 ST
Silver	U	2.2 B	U	U	U	2	50 ST
Sodium	323,000	34,000	394,000	97,000	541,000	132	20,000 ST
Thallium	U	U	U	U	U	2	0.5 GV
Vanadium	517	61.8	438	272	966	0.6	
Zinc	7,680	359	2,640	1,830	5,330	2	2,000 GV

### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES:

^: The combined standard for iron and manganese is 500 ug/l Indicates value exceeds NYSDEC Class GA groundwater standard

or guidance value

#### TABLE 6a. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JUNE 2005 VOLATILE ORGANIC COMPOUNDS

Sample Semintation         WV-1         WV-2         WV-2         WV-4         WV-5         WV-5         WV-7         WV-8         Required         Genombase           Date of Collector         000005         00005         00005         00005         00005         000005         00005         00005										Contract	NYSDEC Class GA
Date of Columbia         06/00/05	Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	Required	Groundwater
Database Fractor         1.0	Date of Collection	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	Detection	Standard or
Units         (ug0)         (ug0) <th< td=""><td>Dilution Factor</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>Limit</td><td>Guidance Value</td></th<>	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Dehosonshave         U <t< td=""><td>Units</td><td>(ug/l)</td><td>(ug/l)</td><td>(ug/l)</td><td>(ug/l)</td><td>(ug/l)</td><td>(ug/l)</td><td>(ug/l)</td><td>(ug/l)</td><td>(ug/l)</td><td>(ug/l)</td></t<>	Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Cholomenhame U U U U U U U U U U U U U U U U U C Cholomenhame U U U U U U U U U U U U U U U U U U U	Dichlorodifluoromethane	U	U	U	U	U	U	U	U	10	5 ST
Viny Lexister         U         S         U         1         U         <	Chloromethane	U	U	U	U	U	U	U	U	10	5 ST
Participants         U <t< td=""><td>Vinyl Chloride</td><td>U</td><td>5</td><td>U</td><td>1 J</td><td>U</td><td>U</td><td>U</td><td>U</td><td>10</td><td>2 ST</td></t<>	Vinyl Chloride	U	5	U	1 J	U	U	U	U	10	2 ST
The charane         U <th< td=""><td>Bromomethane</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>0</td><td>10</td><td>551</td></th<>	Bromomethane	U	U	U	U	U	U	U	0	10	551
1:DeConstance         U         <	Trichlorofluoromethane	U U	U U	U U	U U	U U	U U	U	U U	10	5 ST
Acetone         U </td <td>1,1-Dichloroethene</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>10</td> <td>5 ST</td>	1,1-Dichloroethene	U	U	U	U	U	U	U	U	10	5 ST
Iconstraine         U <thu< th="">         U         <thu< td=""><td>Acetone</td><td>U</td><td>4 J</td><td>4 J</td><td>3 J</td><td>10</td><td>18</td><td>6</td><td>2 J</td><td>10</td><td>50GV</td></thu<></thu<>	Acetone	U	4 J	4 J	3 J	10	18	6	2 J	10	50GV
Chron Dealifie         U <thu< th="">         U         U         &lt;</thu<>	Iodomethane	U	U	U	U	U	U	U	U	10	
Methyare Lonce         U <thu< th="">         U         U         &lt;</thu<>	Carbon Disulfide	U	U	U	U	U	U	U	U	10	60GV
Instructure         U <thu< th="">         U         <thu< th="">         U         <thu< th=""> <thu< <="" td=""><td>Methylene Chloride</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>10</td><td>5 ST</td></thu<></thu<></thu<></thu<>	Methylene Chloride	U	U	U	U	U	U	U	U	10	5 ST
1:-1:-Dechargement         U <thu< th="">         U         <thu< th=""></thu<></thu<>	Methyl tert-Butyl Ether	0	5	0	0	0	0	11	0	10	10GV
Viny actate         U <thu< th="">         U        U         <thu< th=""> <thu< <="" td=""><td>1.1-Dichloroethane</td><td>Ŭ</td><td>Ű</td><td>Ŭ</td><td>Ŭ</td><td>Ű</td><td>Ŭ</td><td>U 10</td><td>Ű</td><td>10</td><td>5 ST</td></thu<></thu<></thu<>	1.1-Dichloroethane	Ŭ	Ű	Ŭ	Ŭ	Ű	Ŭ	U 10	Ű	10	5 ST
22-Butance         U         U         U         U         2 J         4 J         U         U         100         SST           22-Dichtoreptoare         U	Vinyl acetate	U	U	U	U	U	U	U	U	10	
Dis-Dicklorenthene         U         200         U         2 J         U <thu< th="">         U         U         U</thu<>	2-Butanone	U	U	U	U	2 J	4 J	U	U	10	50GV
2.2-Definition         U <thu< th="">         U         <thu< th=""> <t< td=""><td>cis-1,2-Dichloroethene</td><td>U</td><td>200</td><td>U</td><td>2 J</td><td>U</td><td>U</td><td>U</td><td>U</td><td>10</td><td>5 ST</td></t<></thu<></thu<>	cis-1,2-Dichloroethene	U	200	U	2 J	U	U	U	U	10	5 ST
Dimensional manufacture         U <thu< th="">         U         U         U</thu<>	2,2-Dichloropropane	U	U	U	U	U	U	U	U	10	5 ST
11.7. Enclairocethane         U <thu< th="">         U         U         U</thu<>	Chloroform	0	0	0	0	0	U 11*	0	0	10	5 S I 7 ST
1,1-Dickloropopene         U <thu< th="">         U         <thu< th=""></thu<></thu<>	1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	10	5 ST
Carbon Tetrachloride         U         2 J         U <thu< th="">         U         U         U</thu<>	1,1-Dichloropropene	Ū	- U	- U	Ū	U	Ū	U	U	10	5 ST
1.2-Dichlorophane       U <thu< th="">       U       <thu< th=""></thu<></thu<>	Carbon Tetrachloride	U	2 J	U	U	U	U	U	U	10	5 ST
Bancene         U </td <td>1,2-Dichloroethane</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>10</td> <td>0.6 ST</td>	1,2-Dichloroethane	U	U	U	U	U	U	U	U	10	0.6 ST
Trans.         Table         Table <t< td=""><td>Benzene</td><td>U</td><td>U</td><td>U</td><td>U</td><td>18</td><td>43</td><td>11</td><td>U</td><td>10</td><td>1 ST</td></t<>	Benzene	U	U	U	U	18	43	11	U	10	1 ST
Dibmomethane         U <t< td=""><td>1 2-Dichloropropage</td><td>5</td><td>120</td><td>4 J</td><td>5</td><td>0</td><td>0</td><td>0</td><td>0</td><td>10</td><td>5 S I 1 ST</td></t<>	1 2-Dichloropropage	5	120	4 J	5	0	0	0	0	10	5 S I 1 ST
Bromodiciloromethane         U	Dibromomethane	U	U	Ű	U	U	U	U	Ű	10	5 ST
dis-13-Dichloropropene         U         U         U         U         U         U         U         U         11         U         U         11         U         U         11         U         U         11         U </td <td>Bromodichloromethane</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>10</td> <td>50GV</td>	Bromodichloromethane	U	U	U	U	U	U	U	U	10	50GV
4-Methyl-2-Pentanone         U         U         U         U         U         U         U         I         J         U         U         Ior           Trans-1,3-Dichloropropene         U<	cis-1,3-Dichloropropene	U	U	U	U	U	U	U	U	10	0.4 ST *
Indurene         U         10         4 J         3 J         8         23         3 J         U         10         5 ST           Trans-1, 3-Dichloropropane         U </td <td>4-Methyl-2-Pentanone</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>1 J</td> <td>U</td> <td>U</td> <td>10</td> <td></td>	4-Methyl-2-Pentanone	U	U	U	U	U	1 J	U	U	10	
Trans-Schulduppreise         U	I oluene Trans 1.2 Disbloropropopo	U	10	4 J	3 J	8	23	3 J	U	10	5 ST
1.3Dichlargepagne         U <thu< th="">         U         U</thu<>	1 1 2-Trichloroethane	U U	U U	U U	U U	U U	U U	U	U U	10	0.4 ST
Tétrachioreinene         U <thu< th="">         U         U</thu<>	1.3-Dichloropropane	Ű	Ű	Ű	Ŭ	Ŭ	Ű	Ű	Ű	10	5 ST
2-Hexanone         U <thu< td=""><td>Tetrachloroethene</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>10</td><td>5 ST</td></thu<>	Tetrachloroethene	U	U	U	U	U	U	U	U	10	5 ST
Dibromethane         U <t< td=""><td>2-Hexanone</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>10</td><td>50GV</td></t<>	2-Hexanone	U	U	U	U	U	U	U	U	10	50GV
1.2-Informetriane         U	Dibromochloromethane	U	U	U	U	U	U	U	U	10	50GV
Dimensional bound         U	1,2-Dibromoetnane Chlorobenzene	U U	U U	U U	U U	U U	0	U	0	10	5 ST
Ethylbenzene         U <t< td=""><td>1.1.1.2-Tetrachloroethane</td><td>Ŭ</td><td>Ű</td><td>Ŭ</td><td>Ŭ</td><td>Ŭ</td><td>Ŭ</td><td>U</td><td>Ŭ</td><td>10</td><td>5 ST</td></t<>	1.1.1.2-Tetrachloroethane	Ŭ	Ű	Ŭ	Ŭ	Ŭ	Ŭ	U	Ŭ	10	5 ST
m,p-Xylenes         U <thu< th="">         U</thu<>	Ethylbenzene	U	U	U	U	3 J	73	U	U	10	5 ST
o-Xylene         U         U         U         U         U         U         2 J         53         U         U         10         55 T           Styrene         1 J         U	m,p-Xylenes	U	U	U	U	U	14	U	U	10	5 ST
Xylenes (total)         U	o-Xylene	U	U	U	U	2 J	53	U	U	10	5 ST
Systeme         1 J         U	Xylenes (total)	U	U	U	U	2 J	66	U	U	10	5 ST
Isopropylenzene         U	Bromoform	1 J 1 J	U U	U U	U U	U U	U U	U	U U	10	5 S I
1,1,2,2 <sup>-</sup> Tetrachloroethane         U<	Isopropylbenzene	Ű	Ű	Ű	Ű	1 J	21	Ű	Ű	10	5 ST
Bromobenzene         U <t< td=""><td>1,1,2,2-Tetrachloroethane</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>10</td><td>5 ST</td></t<>	1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	U	10	5 ST
1,2,3-1 Inchioropropane       U <td>Bromobenzene</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>10</td> <td>5 ST</td>	Bromobenzene	U	U	U	U	U	U	U	U	10	5 ST
In-roguenzation         U	1,2,3- I richloropropane	U	U	U	U	U	U	U	U	10	0.04 ST
Disorder         D<	2-Chlorotoluene	U	U U	U U	0	0	7	U	U	10	5 51
4-Chlorotoluene         U	1,3,5-Trimethylbenzene	U	U	U	U	U	29	U	U	10	5 ST
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	4-Chlorotoluene	Ū	- U	- U	Ū	U	U	U	U	10	5 ST
1,2,4-Trimethylbenzene         U         U         U         U         U         U         U         3 J         120         U         U         0         5 ST           sec-Butylbenzene         U         U         U         U         U         1         U         U         10         5 ST           4-lsopropyltoluene         U         U         U         U         U         1         U         U         10         5 ST           1,3-Dichlorobenzene         U         U         U         U         U         U         U         U         10         3 ST           n-Butylbenzene         U         U         U         U         U         U         U         U         U         0         3 ST           1,2-Dichorobenzene         U         U         U         U         U         U         U         U         U         U         10         3 ST           1,2-Dichorobenzene         U         U         U         U         U         U         U         U         10         0.04 ST           1,2-Dichorob-schoropropane         U         U         U         U         U         U         U <td>tert-Butylbenzene</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>U</td> <td>10</td> <td>5 ST</td>	tert-Butylbenzene	U	U	U	U	U	U	U	U	10	5 ST
sec-Butylbenzene         U         U         U         U         U         U         U         I         U         U         I         U         U         I         U         U         I         U         U         I         U         I         U         I         U         I         U         I         U         I         U         U         I         U         I         U         I         U         U         I         U	1,2,4-Trimethylbenzene	U	U	U	U	3 J	120	U	U	10	5 ST
anschlage         U	sec-Butylbenzene	U	U	U	U	U	1 J	U	U	10	5 ST
1,3-Dichlorobenzene       0       0       0       0       0       0       0       331         1,4-Dichlorobenzene       U       U       U       U       U       U       U       U       U       U       U       0       331         n-Butylbenzene       U       U       U       U       U       U       U       U       U       U       U       U       U       10       331         1,2-Dichlorobenzene       U       <	4-Isopropyitoluene	U	U	U	U	U	3 J	U	U	10	551
n-Butylbenzene         U	1.4-Dichlorobenzene	U U	U U	U U	U U	U U	U U	U	U U	10	3 ST
1,2-Dichlorobenzene         U	n-Butylbenzene	Ű	Ű	Ű	Ű	Ű	Ű	Ű	Ū	10	5 ST
1,2-Dibromo-3-chloropropane         U<	1,2-Dichlorobenzene	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	U	U	U	10	3 ST
1,2,4-Trichlorobenzene         U	1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	U	10	0.04 ST
Interaction/doublemente         U         U         U         U         U         U         U         U         U         0         0.5 ST           Naphthalene         U         U         U         U         U         U         U         U         U         0         0.0 GV           1,2.3-Trichlorobenzene         U         U         U         U         U         U         U         U         0         5ST           Total VOCs         6         346         12         14         52         1510         21         2            Total VOC TICs         0         0         22         0         42         1102         0         0	1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	U	10	5 ST
Indention         Image: Constraint of the second seco	Naphthalene	U	U U	U U	0	5	U 1100 D	U	U	10	0.5 ST
Total VOCs         6         346         12         14         52         1510         21         2            Total VOCs         0         0         22         0         42         1102         0         0	1.2.3-Trichlorobenzene	U U	U U	U U	U U	Ц	1100 D	U U	U U	10	5 ST
Total VOC TICs         0         0         22         0         42         1102         0         0	Total VOCs	6	346	12	14	52	1510	21	2		
	Total VOC TICs	0	0	22	0	42	1102	0	0		

#### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound found in the blank as well as the sample

J: Compound found at a concentration below the CRDL, value estimated

D: Result is taken from reanalysis at a secondary dilution

U\*: Result qualigied as non-detect based on validation criteria

#### NOTES:

\*: Value pertains to the sum of the isomers

GV: Guidance Value

ST: Standard

----: Not established

## TABLE 6b. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JUNE 2005 INORGANIC PARAMETERS

Sample Identification	M	N-1	MV	V-2	MV	V-3	MV	V-4		NYSDEC Class GA
Date of Collection	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	Instrument	Groundwater
Sample Type	total	dissolved	total	dissolved	total	dissolved	total	dissolved	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	1,640	51.8 B	2,280	27.9 B	8,000	38.5 B	1,560	48.8 B	9	
Antimony	U	U	4.7 B	U	U	U	U	U	4	3 ST
Arsenic	5.1 B	U	7.0 B	U	22.4	U	6.4 B	U	2	25 ST
Barium	58.7 B	54.5 B	66.2 B	61.3 B	127 B	72.9 B	83.6 B	79.9 B	2	1,000 ST
Beryllium	U	U	U	U	0.50 B	U	U	U	0.2	3 GV
Cadmium	1.0 B	0.15 B	0.32 B	U	0.85 B	0.23 B	0.19 B	U	0.2	5 ST
Calcium	162,000	181,000	180,000	180,000	233,000	236,000	153,000	158,000	234	
Chromium	2.5 B	0.58 B	3.6 B	U	171	98.4	1.2 B	U	0.6	50 ST
Cobalt	2.9 B	0.69 B	3.4 B	0.56 B	11.3 B	0.81 B	4.9 B	4.3 B	0.7	
Copper	21.2 B	7.4 B	24.2 B	6.4 B	70.1	U	12.5 B	U	5	200 ST
Iron	6,910	89.4 B	8,040	38.6 B	31,300	81.7 B	5,530	32.9 B	2	300 ST ^
Lead	6.9 B	0.62 B	8.9 B	1.1 B	27.5	0.77 B	5.2 B	U	2	25 ST
Magnesium	37,200	44,500	34,300	36,000	37,500	35,100	63,000	60,500	2	35,000 GV
Manganese	561	9.6 B	631	29.8 B	1,760	204	2,500	2,690	0.9	300 ST ^
Mercury	U	U	U	U	0.068 B	0.30	U	U	0.1	0.7 ST
Nickel	5.2 B	1.4 B	7.5 B	2.2 B	295	99.9	6.1 B	3.0 B	0.9	100 ST
Potassium	15,100	16,400	14,300	14,400	15,500	14,400	23,100	21,800	320	
Selenium	4.0 B	U	U	U	4.1 B	4.5 B	5.6 B	4.9 B	3	10 ST
Silver	U	U	U	U	U	U	U	U	2	50 ST
Sodium	230,000	174,000	103,000	99,700	287,000	286,000	68,000	65,500	132	20,000 ST
Thallium	6.4 B	8.3 B	8.5 B	8.5 B	8.3 B	11.0 B	3.3 B	5.3 B	2	0.5 GV
Vanadium	4.6 B	0.58 B	5.7 B	U	20.2 B	U	3.9 B	U	0.6	
Zinc	38.0 B	12.6 B	42.2 B	9.5 B	120	17.1 B	23.1 B	4.8 B	2	2,000 GV

### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL

but greater than the IDL.

#### NOTES:

^: The combined standard for iron and manganese is 500 ug/l

Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

# TABLE 6b. (continued) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JUNE 2005 INORGANIC PARAMETERS

Sample Identification	M	W-5	M	V-6	M	N-7	MV	V-8		NYSDEC Class GA
Date of Collection	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	06/06/05	Instrument	Groundwater
Sample Type	total	dissolved	total	dissolved	total	dissolved	total	dissolved	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	2,070	U	3,170	62.1 B	10,400	19.0 B	61,300	45.9 B	9	
Antimony	U	U	U	2.5 B	U	U	U	U	4	3 ST
Arsenic	19.0 B	1.8 B	11.7 B	4.0 B	19.1 B	U	159	U	2	25 ST
Barium	315	276	255	258	142 B	79.2 B	582	85.8 B	2	1,000 ST
Beryllium	U	U	0.15 B	U	0.59 B	U	4.3 B	U	0.2	3 GV
Cadmium	0.35 B	U	0.32 B	0.17 B	0.70 B	0.18 B	6.4	0.19 B	0.2	5 ST
Calcium	130,000	116,000	252,000	285,000	251,000	244,000	274,000	205,000	234	
Chromium	2.9 B	U	3.2 B	U	14.2 B	U	86.6	U	0.6	50 ST
Cobalt	3.3 B	1.8 B	6.2 B	4.0 B	12.7 B	0.96 B	65.7	0.84 B	0.7	
Copper	12.0 B	U	25.2 B	U	68.1	U	514	U	5	200 ST
Iron	24,800	898	15,000	391	34,600	27.1 B	222,000	90.8 B	2	300 ST ^
Lead	7.3 B	0.82 B	11.9	1.6 B	32.0	1.4 B	800	1.2 B	2	25 ST
Magnesium	24,700	21,200	28,900	31,200	29,800	23,900	45,600	20,900	2	35,000 GV
Manganese	1,170	913	2,680	2,660	3,610	1,360	9,090	747	0.9	300 ST ^
Mercury	U	U	U	U	0.32	U	0.92	U	0.1	0.7 ST
Nickel	5.2 B	2.0 B	13.7 B	9.0 B	27.0 B	3.4 B	143	2.5 B	0.9	100 ST
Potassium	19,200	17,200	10,100	11,300	13,200	11,500	23,500	15,600	320	
Selenium	U	U	1.5 B	U	U	3.1 B	U	11.3 B	3	10 ST
Silver	U	U	U	U	U	U	U	U	2	50 ST
Sodium	30,000	24,700	31,400	36,300	110,000	108,000	48,800	48,000	132	20,000 ST
Thallium	5.8 B	3.5 B	6.3 B	7.1 B	3.7 B	8.4 B	U	7.8 B	2	0.5 GV
Vanadium	4.8 B	U	7.5 B	U	24.4 B	0.54 B	156	0.59 B	0.6	
Zinc	32.8 B	5.2 B	56.1	6.9 B	125	12.7 B	869	8.1 B	2	2,000 GV

### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL

but greater than the IDL.

#### NOTES:

^: The combined standard for iron and manganese is 500 ug/l Indicates value exceeds NYSDEC Class GA groundwater standard

or guidance value

## TABLE 7a. 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JULY 2006 INORGANIC PARAMETERS

Sample Identification	M	MW-1		V-2	MV	V-3	MV	V-4		NYSDEC Class GA
Date of Collection	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	Instrument	Groundwater
Sample Type	total	dissolved	total	dissolved	total	dissolved	total	dissolved	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	1,430	U	2,400	U	9,690	U	1,980	U	9	
Antimony	5.7 B	9.5 B	U	3.0 B	U	U	U	2.5 B	4	3 ST
Arsenic	6.2 B	4.7 B	6.6 B	U	20.7	2.7 B	4.2 B	U	2	25 ST
Barium	36.8 B	30.7 B	49.8 B	38.5 B	115 B	60.8 B	122 B	107 B	2	1,000 ST
Beryllium	U	U	U	U	0.55 B	U	U	U	0.2	3 GV
Cadmium	U	U	0.13 B	0.23 B	0.35 B	U	U	U	0.2	5 ST
Calcium	107,000	109,000	127,000	127,000	128,000	126,000	151,000	148,000	234	
Chromium	3.2 B	0.93 B	4.2 B	0.87 B	403	365	4.8 B	1.9 B	0.6	50 ST
Cobalt	1.7 B	0.24 B	2.4 B	0.43 B	10.2 B	0.43 B	1.7 B	0.16 B	0.7	
Copper	26.9 B	20.0 B	30.7	18.7 B	73.2	17 B	28.8 B	20 B	5	200 ST
Iron	3,870	130 B	6,230	U	30,900	23.0 B	4,790	U	2	300 ST ^
Lead	3.4 B	U	4.1 B	U	20.4	U	2.2 B	U	2	25 ST
Magnesium	77,800	74,000	40,000	38,800	24,100	21,200	103,000	100,000	2	35,000 GV
Manganese	230	3.1 B	559	116	1,450	90.3	302	37.9 B	0.9	300 ST ^
Mercury	U	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	3.2 B	1.4 B	5.4 B	1.7 B	244	68.1	4.1 B	1.7 B	0.9	100 ST
Potassium	22,000	21,700	15,200	14,400	12,000	10,200	18,900	17,800	320	
Selenium	U	U	U	U	U	8.3 B	U	U	3	10 ST
Silver	1.8 B	U	U	U	U	U	U	U	2	50 ST
Sodium	65,900	90,000	53,700	55,600	345,000	341,000	51,800	52,100	132	20,000 ST
Thallium	3.3 B	U	1.3 B	U	4.9 B	U	1.2 B	U	2	0.5 GV
Vanadium	4.5 B	1.1 B	5.7 B	0.63 B	22.2 B	U	4.8 B	0.66 B	0.6	
Zinc	97.3	71.0	85.9	60.7	153	51.7	61.9	49.3 B	2	2,000 GV

#### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL

but greater than the IDL.

#### NOTES:

A: The combined standard for iron and manganese is 500 ug/l

Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value

# TABLE 7a. (continued) 26-28 WHITESBORO STREET SITE SITE INVESTIGATION GROUNDWATER SAMPLE RESULTS - JULY 2006 INORGANIC PARAMETERS

Sample Identification	M	N-5	MV	V-6	M	N-7	MV	V-8		NYSDEC Class GA
Date of Collection	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	07/05/06	Instrument	Groundwater
Sample Type	total	dissolved	total	dissolved	total	dissolved	total	dissolved	Detection	Standard or
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Limit	Guidance Value
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Aluminum	991	U	1,150	U	419	U	3,020	U	9	
Antimony	U	2.9 B	1.8 B	3.5 B	U	U	U	1.6 B	4	3 ST
Arsenic	16.2 B	14.6 B	11.3 B	11.8 B	1.7 B	2.7 B	9.4 B	3.1 B	2	25 ST
Barium	306	285	104 B	97.4 B	41.2 B	37.4 B	78 B	63.3 B	2	1,000 ST
Beryllium	U	U	U	U	U	U	0.19 B	U	0.2	3 GV
Cadmium	0.25 B	U	U	U	0.18 B	U	0.20 B	0.13 B	0.2	5 ST
Calcium	126,000	123,000	91,600	92,700	97,000	97,000	178,000	174,000	234	
Chromium	2.1 B	0.64 B	1.9 B	0.59 B	1.1 B	0.49 B	4.6 B	1.1 B	0.6	50 ST
Cobalt	1.2 B	0.73 B	2.1 B	1.5 B	0.42 B	0.53 B	2.4 B	0.31 B	0.7	
Copper	18.1 B	14.4 B	23.6 B	15.4 B	15.9 B	14.5 B	33.5	18 B	5	200 ST
Iron	15,400	7,380	3,890	469	977	20.4 B	8,290	U	2	300 ST ^
Lead	1.4 B	U	2.9 B	U	U	U	28.2	U	2	25 ST
Magnesium	19,400	18,700	11,900	11,500	5,260	5,330	20,400	19,100	2	35,000 GV
Manganese	1,260	1,180	1,380	1,290	78.1	27.6 B	377	229	0.9	300 ST ^
Mercury	U	U	U	U	U	U	U	U	0.1	0.7 ST
Nickel	3.4 B	1.9 B	4.7 B	3.2 B	1.9 B	1.8 B	6.7 B	1.7 B	0.9	100 ST
Potassium	14,300	13,900	7,550	7,340	4,720	4,660	19,500	17,500	320	
Selenium	U	U	U	U	U	4.9 B	U	3.9 B	3	10 ST
Silver	U	U	U	U	U	U	U	U	2	50 ST
Sodium	35,500	35,400	18,200	18,900	16,300	17,400	22,600	24,900	132	20,000 ST
Thallium	3.9 B	5.2 B	8.1 B	5.5 B	U	1.7 B	U	2.3 B	2	0.5 GV
Vanadium	3.1 B	0.73 B	3.7 B	0.85 B	1.3 B	0.55 B	8.1 B	0.72 B	0.6	
Zinc	73.5	56.6	75.3	65.9	45.6 B	49.1 B	73.1	43.1 B	2	2,000 GV

#### QUALIFIERS:

U: Compound analyzed for but not detected

B: Compound concentration is less than the CRDL

but greater than the IDL.

## NOTES:

^: The combined standard for iron and manganese is 500 ug/l

Indicates value exceeds NYSDEC Class GA groundwater standard or guidance value