Prepared for:
The County of Oswego Industrial Development Agency
Oswego, New York

Phase II Environmental Site Assessment
Former Columbia Mills Property
West Side of Route 48
Minetto, New York

ENSR Corporation
April 20, 2006
Document No.:10275-008

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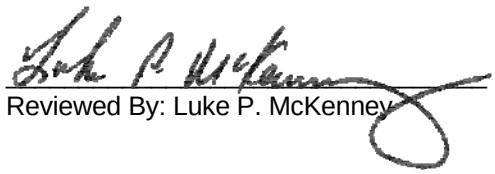
Prepared By: John Imhoff



Reviewed By: Luke P. McKenney

ENSR Corporation
April 20, 2006
Document No.: 10275-008

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1.0 Introduction

ENSR was retained by the County of Oswego Industrial Development Agency (IDA) to conduct a Phase II Environmental Site Assessment (ESA) of the former Columbia Mills property located on Route 48, in Minetto, New York (site). The site is located on the west side of Route 48 (See Figure 1). The purpose of the investigation was to further characterize the soil impacts on the property and to determine whether historical uses of the property have impacted soil and groundwater quality. This report provides an overview of the investigation performed in January 2006 and provides findings and recommendations regarding the environmental condition of the property.

1.1 Project Background

The Phase II ESA was requested by a potential buyer of the site after reviewing the historical use of the property and conducting preliminary sampling in November 2005.

1.1.1 Site History

The Site was occupied by Columbia Mills from the early 1900's to the late 1970's. Columbia Mills manufactured cloth and vinyl products such as shade cloth, book covers, and upholstery for use in automobile interiors. The main structure that occupied the site was a three-story boiler house and engine room. In the early 1980's the buildings were demolished during salvage operations. Historical research indicates polychlorinated-biphenyl (PCB) impacted soils were present at the site. An Order for Interim Remedial Measures (IRM) for the property was signed in 1989 by the Potential Responsible Parties (PRPs). One of the activities outlined in the IRM included excavating, drumming, and disposing of the PCB impacted soils. This task was completed to the satisfaction of regulatory officials in December 1989.

1.1.2 Preliminary Sampling Event

Preliminary sampling at the subject property was conducted by a representative of the potential buyer on November 18, 2005. Composite soil samples were collected from three locations and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), TAL Metals, and PCBs. A groundwater sample was also collected near the southwestern perimeter of the former boiler house and analyzed for VOCs. Results from the sampling event indicated detectable concentrations of PCBs, lead and/or other constituents in the soil samples and low concentrations of naphthalene in the groundwater sample submitted for analysis. Laboratory analytical results for the preliminary sampling event are included as Appendix A.

In an effort to more accurately characterize these findings, ENSR conducted additional soil and groundwater characterization activities at the subject site. These activities were implemented to assist in determining the vertical and lateral extent of impacts on the property.

2.0 Scope of Work

2.1 Health and Safety Plan

ENSR prepared a site-specific Health and Safety Plan (HASP) which satisfied the requirements of the Occupational Safety and Health Administration (OSHA) regulation, 29 CFR 1910.120, and provided an assessment of known hazards and evaluations of the risks associated with the site activities. All ENSR employees that worked at the site, as well as all subcontractors that worked at the site, were required to read, understand and abide by the site specific HASP.

2.2 Underground Utility Clearance

Prior to initiating field activities, Underground Facilities Protective Organization (UFPO) was contacted to mark underground services on the property. ENSR utilized available maps and drawings provided by the Client to aid in clearance of utilities.

2.2.1 Soil Investigation

Between January 19, 2006 and January 23, 2006, an ENSR geologist supervised the advancement of soil borings to assist in delineating the nature and extent of contaminants of concern (COCs) at the locations depicted in Figure 2. Sixteen soil borings were advanced to depths ranging from 9 feet (ft) to 14 ft below ground surface (bgs) using 2 inch diameter by 4 feet long MacroCore samplers, driven by a truck-mounted direct push hollow stem auger rig. An additional 5 soil borings were completed as groundwater monitoring wells (MW-1, SB-9/MW-2, MW-3, MW-4 and MW-5) and are discussed in further detail in Section 2.3.2. Soils were continuously logged in the field and screened with a photoionization detector (PID) for the presence of volatile organic compounds. Soil classifications, PID responses, and additional observations were recorded on soil boring logs, which are presented as Appendix B. The following table summarizes depth of soil boring advancement, and the interval below ground surface (bgs) from which samples were collected.

Soil Boring ID	Soil Boring Depth (bgs)	Sample Collection Depth (bgs)
SB-1	11’	1-4’
SB-2	9.5’	5-7’
SB-3	9’	4-6’
SB-4	12’	8-11’
SB-5	11’	0-6’
SB-6	9’	4-8’
SB-7	12’	10-12’
SB-8	11’	8-11’
SB-9/MW-2	14’	12-14’
SB-10	12’	8-10’
SB-11	11.5’	8-10’
SB-12	12’	4-6’
SB-12	12’	6-8’
SB-13	12’	6-8’
SB-14	11’	8-11’
SB-15	11.5’	4-6’

Soil Boring ID	Soil Boring Depth (bgs)	Sample Collection Depth (bgs)
SB-16	11’	8-9.5’
SB-17	10’	8-10’
MW-1	15’	10-12’
MW-3	14’	9-10’
MW-4	13.8’	10-12’
MW-5	14’	10-11-

Soil samples were collected based on field observations such as visible staining and highest PID field screening value. A heavy sheen was observed at SB-9 in the interval between 12 and 14 feet bgs and a duplicate soil sample (SB-9D 12-14 FT) was collected. All of the collected soil samples were packed on ice under chain of custody and submitted to Environmental Science Corporation for the following analyses:

- TCL VOCs via U.S. Environmental Protection Agency (USEPA) Method 8260B;
- TCL SVOCs via USEPA Method 8270C;
- TAL Metals via USEPA Methods 6010, 6020, and 7470; and
- PCBs via USEPA Method 8082.

Soil samples collected from the soil borings completed as monitoring wells, were also submitted to Environmental Science Corporation for Dioxin analysis via USEPA Method 8290.

2.2.2 Groundwater Investigation

In order to evaluate groundwater quality across the Site, five soil borings were completed as groundwater monitoring wells (see Figure 2 for locations). Monitoring wells were constructed of 2-inch diameter schedule - 40 PVC screens and risers. Wells were installed into the uppermost water bearing zone. Well construction diagrams are presented as Appendix C.

Monitoring well development was conducted on January 25, 2006 (monitoring wells MW-2, MW-4 and MW-5), January 26, 2005 (monitoring well MW-3), and February 1 (monitoring well MW-1). ENSR attempted to develop monitoring well MW-1 on January 25 but was unable to develop the well due to dry subsurface conditions. Development data sheets are presented as Appendix D.

On February 1, 2006 the top of PVC casing at each well was surveyed for elevation relative to an on-site benchmark (arbitrarily established at 100 feet) so that groundwater elevations could be calculated.

Groundwater sampling was conducted February 1, 2006. Prior to sampling activities, groundwater levels were gauged at all monitoring well locations so that groundwater flow direction could be interpreted. The interpretation presented as Figure 3 indicates a trough that trends from west to east across the Site that plunges toward the east (toward the Oswego River). Based on this interpretation, groundwater flow direction at the site ranges from eastward to southward, depending on location at the Site, with a hydraulic gradient ranging from approximately 0.025 to 0.075 feet per foot. This interpretation is consistent with the expectation that groundwater is locally controlled by the Oswego River, located less than 200 feet east of the Site. Variation in groundwater elevations accounting for the trough observed in Figure 4, may be the result of subsurface structures (i.e., basements or foundations/footers). The actual groundwater flow direction may be more directly eastward (i.e., toward the Oswego River).

Monitoring wells (MW-2, MW-3, MW-4, and MW-5) were purged using a peristaltic pump. Once the wells had stabilized groundwater samples were collected from each well, at a low flow rate so as to minimize sample turbidity and turbulence.

Disposable bailers were used to purge MW-1 due to the well's slow recovery. Approximately 5.25 calculated well volumes were removed from the well prior to sample collection, after which the well was allowed to recover. A peristaltic pump was used to collect groundwater samples from the well, at a low flow rate so as to minimize sample turbidity and turbulence. MW 1 was developed and sampled on the same day so that all of the groundwater samples were collected on the same field day.

All of the groundwater samples were delivered to Environmental Science Corporation for the following analyses:

- TCL VOCs via U.S. Environmental Protection Agency (USEPA) Method 8260B;
- TCL SVOCs via USEPA Method 8270C;
- TAL Metals via USEPA Methods 6010, 6020, and 7470;
- PCBs via USEPA Method 8082; and
- Dioxins via USEPA Method 8290.

Groundwater sample collection records have been provided in Appendix E.

3.0 Analytical Results and Discussion

3.1 Soil Investigation

Soil samples collected during the Phase II investigation were submitted for various analyses including VOCs, SVOCs, Metals, PCBs and Dioxins. Laboratory analysis of the soil samples did not detect VOCs. Analytical detections are summarized on Table 1 (SVOCs) Table 2 (Metals), Table 3 (PCBs) and Table 4 (Dioxins). Concentrations of detected constituents have been compared to the Recommended Soil Cleanup Objectives (RSCOs) (if available) presented in NYSDEC's Technical and Administrative Guidance Memorandum #4046. Constituents exceeding TAGM #4046 guidance values are presented on Figure 4.

3.1.1 Semi-volatile Organic Compounds

As presented on Table 1, SVOCs were detected in the following soil samples submitted for analysis: SB-1, SB-4, SB-7, SB-8, and SB-17. Exceedance concentrations of Benzo(a)anthracene, Benzo(a)pyrene, and Chrysene were detected in SB-1, SB-7, SB-8, and SB-17. Exceedances of Benzo(b)fluoranthene were detected in SB-6 and SB-17. Each of these soil borings are located on the eastern side of the property, where the former boiler house was previously located.

Though SVOCs were detected in several of the soil samples submitted for analysis (See Table 1), in many cases, the SVOCs were reported at concentrations below their respective RSCOs. The SVOCs detected fall into the suite of polynuclear aromatic hydrocarbons (PAH). Analysis of soil samples SB-1(1-4 FT), SB-6(4-8 FT), SB-7(10-12 FT), SB-8 (8-11 FT) and SB-17(8-10 FT) reported one or more PAH (including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene) at concentrations exceeding RSCOs.

3.1.2 Metals

Metals were detected in each of the samples submitted for metals analysis (metals are common constituents in soil). As presented on Table 2, concentrations of individual metals that exceeded RSCO were identified in each sample analyzed. In several instances (aluminum, antimony, calcium, lead, magnesium, manganese, potassium, silver, and sodium) the RSCO is defined as site background. Background concentrations have not been determined for these metals, so the RSCO for these metals is not known. Collection of background samples and a statistical evaluation of the data would be needed to establish the RSCOs for these metals in the vicinity of the site.

3.1.3 Polychlorinated-biphenyls

PCBs were detected in soil samples collected from SB-6 and SB-17 (See Table 3). The concentrations reported were both well below the RSCO of 1000 ppb for near surface soils.

3.1.4 Dioxins

"Dioxins" refers to a group of chemical compounds that share certain chemical structures and biological characteristics. Dioxins and furans are unwanted byproducts created in manufacturing other chemicals such as some disinfectants, wood preservatives and herbicides. They are also emitted during combustion processes such as the incineration of municipal and industrial waste, wood and gasoline burning.

Several hundred of these compounds exist and are members of three closely related families: the chlorinated dibenzo-p-dioxins (CDDs), chlorinated dibenzofurans (CDFs) and certain polychlorinated biphenyls (PCBs). 2,3,7,8-TCDD is the most toxic of the dioxin compounds. The toxicity of all other dioxins is expressed relative to 2,3,7,8-TCDD via Toxic Equivalence Factors (TEFs). 2,3,7,8-TCDD Toxic Equivalents (TEQs) are determined by multiplying the compound concentrations by their respective TEF and summing them.

Historically, at federal Superfund sites, the U.S. EPA has used a soil screening criterion of 1 part per billion (ppb) Toxicity Equivalents (TEQs) for residential settings and 5 to 20 ppb TEQ for commercial and industrial settings. The 1 ppb criterion for residential settings is now considered quite liberal and some State cleanup standards are considerably more stringent, especially for residential settings. New York, however, does not have a RSCO for dioxins in soil.

The summed TEF-adjusted concentrations for the soil samples collected from the site ranged from approximately 0.02 to 0.7 parts per trillion (ppt) (see Table 4), and are thus 4 to 5 orders of magnitude lower than the U.S. EPA's 1 ppb residential soil screening criterion and therefore represent minimal risk.

3.2 Groundwater Investigation

Groundwater samples collected during the Phase II investigation were submitted for various analyses including VOCs, SVOCs, Metals, PCBs and Dioxins. SVOCs and PCBs were not detected in the groundwater samples submitted for analysis. Analytical results (detections only) are summarized on Table 5 (VOCs), Table 6 (Metals), and Table 7 (dioxins). Constituent concentrations have been compared to the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1-New York State Ambient Water Quality Standards and Guidance Values. Constituent concentrations that exceeded these water quality standards are depicted on Figure 5.

3.2.1 Volatile Organic Compounds

VOCs were detected in two of the groundwater samples submitted for VOC analysis. Naphthalene, reported in the groundwater sample collected from MW-2 at a concentration of 28 ppb, was the only constituent that exceeded its respective guidance value (10 ppb). Acetone, reported at a concentration of 30 ppb in sample MW-1 did not exceed the guidance value for this compound (50 ppb). Other VOCs were not detected in the groundwater samples submitted for VOC analysis.

3.2.2 Metals

Detectable concentrations of several metals were reported in groundwater samples collected during the Phase II investigation (see Table 6). In samples collected from MW-1, MW-2 and MW-4, concentrations of one or more analytes, including iron, magnesium, manganese and sodium, exceeded their respective groundwater standard/guidance values.

3.2.3 Dioxins

The dioxin 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin was reported at estimated concentrations in each of the groundwater samples submitted for dioxin analysis. This may be due to the industrial history of the site, or the proximity of the site to gasoline and diesel emissions on Route 48. In each sample groundwater sample analyzed, the TEF adjusted concentration (see section 3.1.4 for discussion of TEF adjustment) for this compound did not exceed the groundwater standard of 0.7 parts per quadrillion (ppq). Other dioxins were not detected.

4.0 Conclusions and Recommendations

4.1 Conclusions

Based on data collected to date, soils and groundwater appear to have been impacted by previous activities at the site. In soils, concentrations of select metals and SVOCs have been identified at concentrations exceeding TAGM #4046 RSCOs.

Concentrations of several of the metals that exceeded TAGM #4046 RSCOs including mercury, cadmium, copper, lead, manganese, nickel and zinc did not exceed the unrestricted use soil cleanup objectives (SCOs) for protection of public health as presented in the DRAFT 6 NYCRR Part 375 Environmental Remediation Program. Similarly, concentrations of select SVOCs identified in some soil samples that exceeded TAGM #4046 RSCOs, were often below their respective unrestricted use public health SCOs.

In groundwater, the metals iron, magnesium, manganese and sodium and the VOC naphthalene were detected in one or more monitoring well at concentrations that exceeded groundwater quality standards/guidance values. The groundwater exceedances appear to be relatively minor, as the concentrations of constituents detected, were of the same order of magnitude as their respective water quality standards.

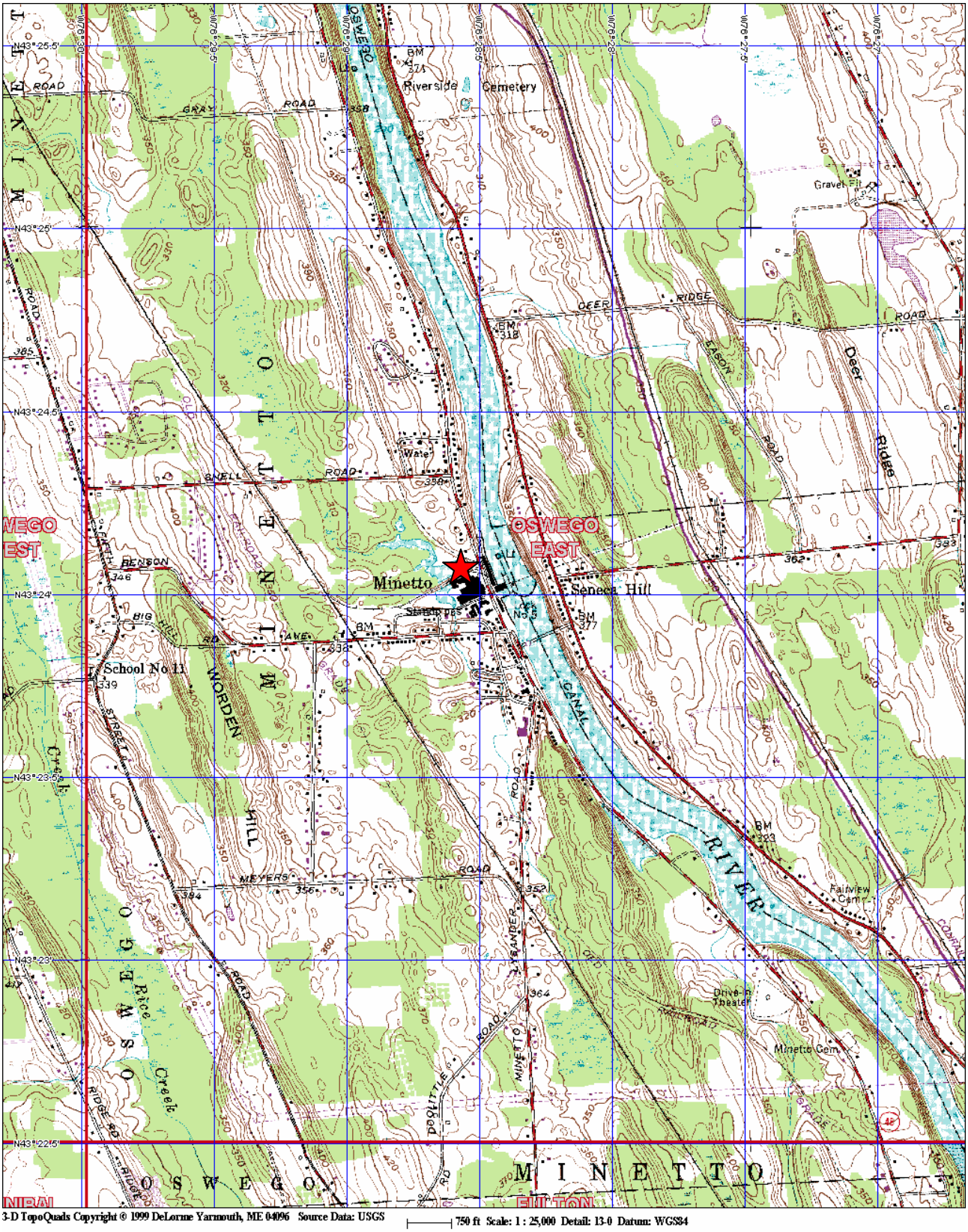
4.2 Recommendations

As discussed previously, the Phase II investigation at the Site has identified constituents in soil and groundwater that exceed TAGM #4046 RSCOs and/or water quality standards. In most cases, the concerns appear to be minimal; however, if formal site closure by the NYSDEC were requested, limited remedial action may be required that would likely encompass the naphthalene identified in the groundwater sample collected from monitoring well MW-2 and SVOCs identified in select locations (i.e., SB-17(8-10 FT).

The primary soil-related environmental concerns at the Site are the elevated concentrations of select metals and SVOCs. Most of the exceedance concentrations would likely become non-issues by designating the Site usage as restricted-commercial land use. Limited soil excavation or other remedial action may still be required in the vicinity of SB-17 to address SVOC concentrations that exceed restricted-commercial SCOs (e.g., benzo(a)pyrene).

With respect to groundwater, the primary concern at the Site appears to be the naphthalene exceedance at MW-2. As indicated in Section 3.2.1, naphthalene was detected at 28 ppb and the respective guidance value is 10 ppb. If necessary, an additional sample may be collected to verify the original result of 28 ppb and also to evaluate the impact of seasonal groundwater elevation fluctuation at the site. .

FIGURES



USGS Topographic Quadrangle
Minetto, NY

★ Site Location

Site Location

Former Columbia Mills
Route 48
Minetto, New York

April 2006 Job No. 10275-008

Figure 1

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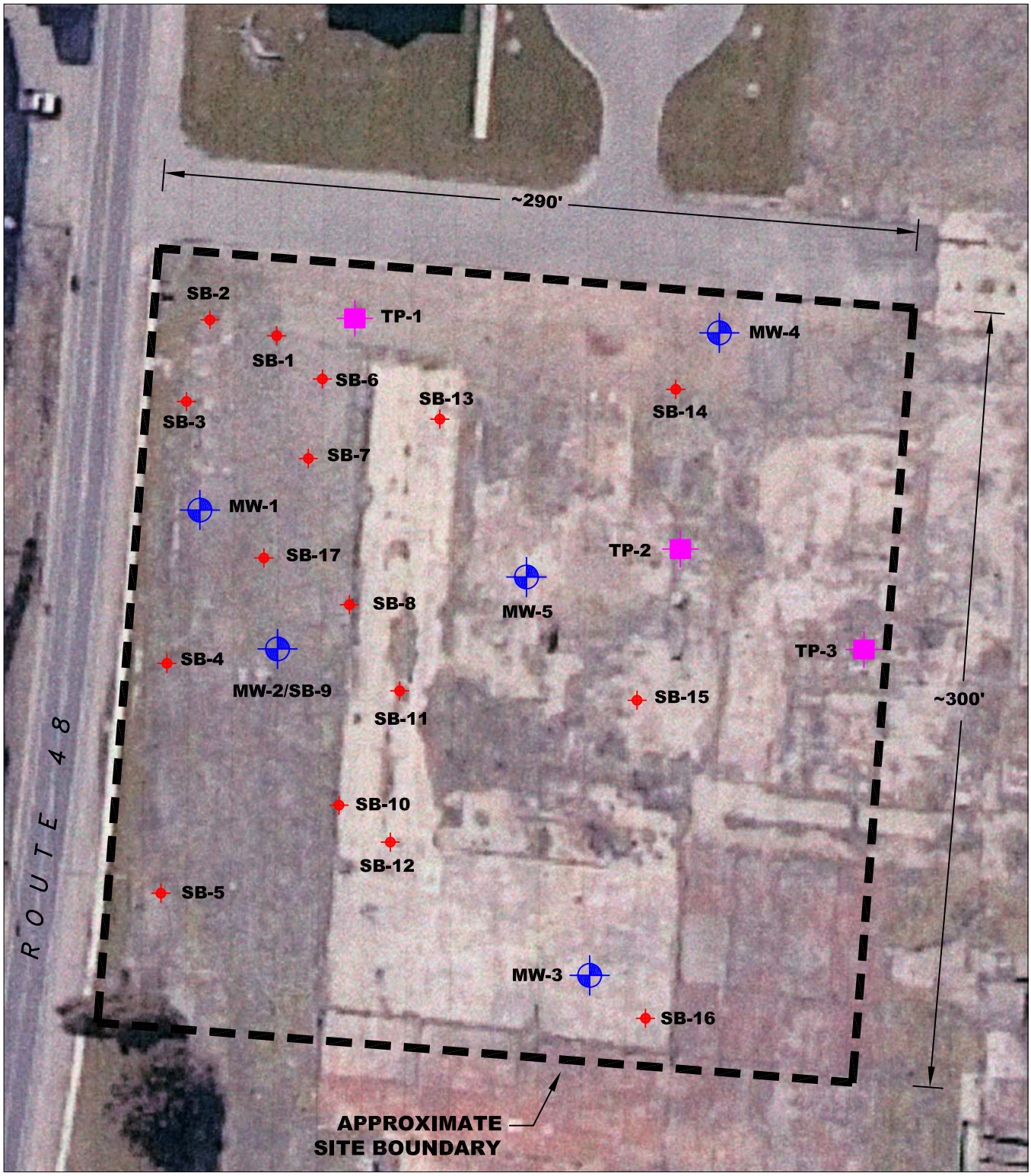

LEGEND

TP-1		PREVIOUS TEST PIT LOCATION
MW-3		MONITORING WELL LOCATION
SB-16		SOIL BORING LOCATION

NOT TO SCALE

N

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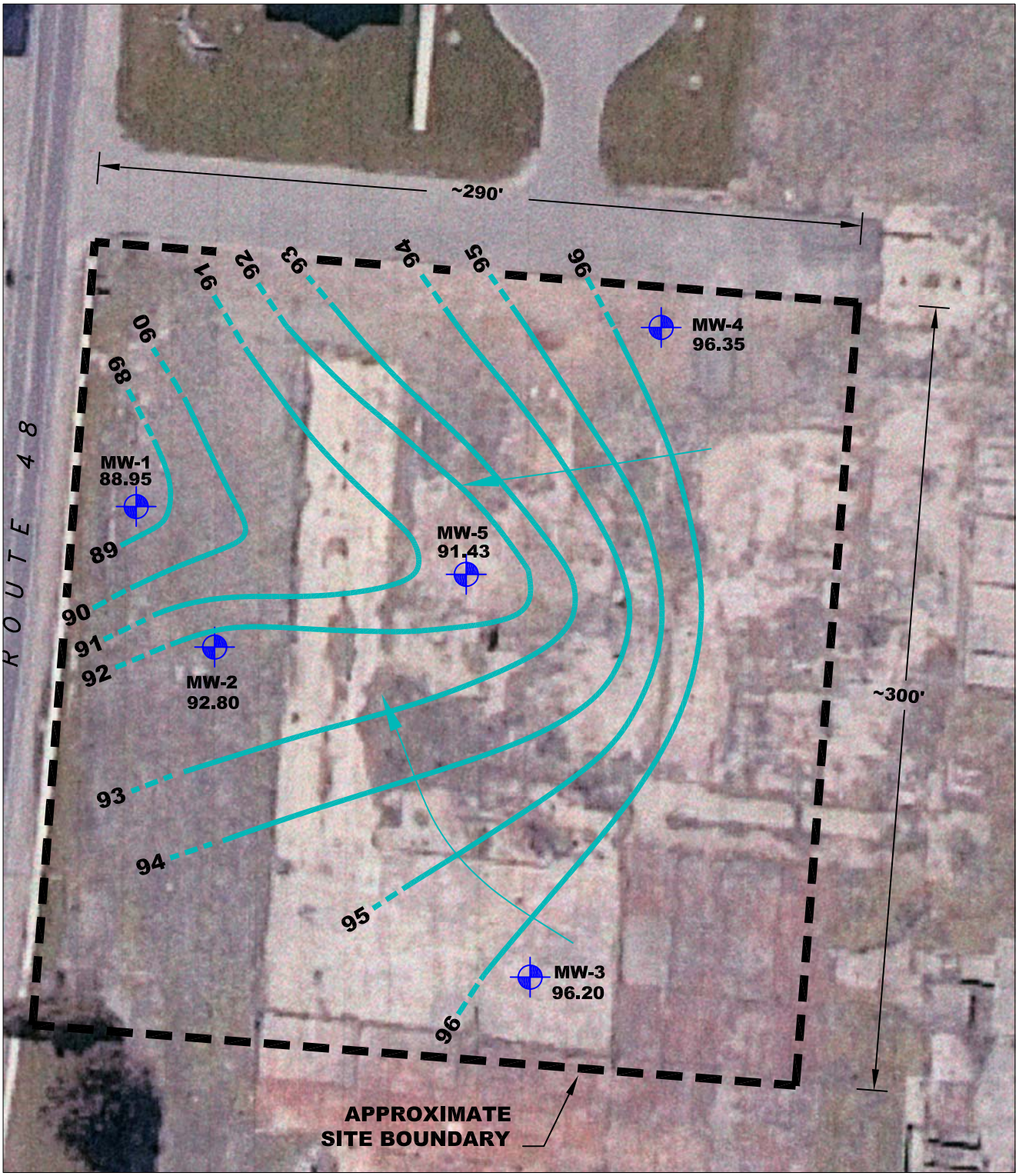
SITE MAP
MONITORING WELL AND SAMPLING LOCATIONS

Columbia Mills
Oswego, New York

FIGURE NUMBER: 2

DRAWN BY:	CHECKED BY:	DATE:	PROJECT NUMBER:	DRAWING NUMBER:
LLM	CR	4/3/06	10275-008	1 OF 1



LEGEND

MW-3 96.20 — MONITORING WELL LOCATION WITH WATER ELEVATION

GROUND WATER CONTOUR LINE. DASHED WHERE INFERRED.

GROUNDWATER FLOW DIRECTION

GROUNDWATER DATA COLLECTED 2/1/06

N

NOT TO SCALE

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INTERPRETED GROUNDWATER FLOW MAP
FEBRUARY 2006

Columbia Mills
Oswego, New York

FIGURE NUMBER: 3

DRAWN BY:	CHECKED BY:	DATE:	PROJECT NUMBER:	DRAWING NUMBER:
LLM	CR	4/3/06	10275-008	1 OF 1

N

Parameter	Guidance Value	SB-5 0-6 FT µg/kg	
Metals			
Zinc	20000	30000	

Parameter	Guidance Value	SB-4 8-11 FT µg/kg	
Metals			
Copper	25000	35000	
Nickel	13000	21000	
Zinc	20000	110000	

Parameter	Guidance Value	SB 9 12-14 FT µg/kg	SB 9D 12-14 FT µg/kg	
Metals				
Mercury	100	220	190	
Arsenic	7500	41000	37000	
Copper	25000	28000	28000	
Vanadium	150000	400000	370000	
Zinc	20000	26000	23000	

Parameter	Guidance Value	SB 17 8-10 FT µg/kg	
SVOCs			
Benzo(a)anthracene	224	2200	E
Benzo(b)fluoranthene	1100	2400	J8
Benzo(a)pyrene	61	2300	J8
Chrysene	400	2100	E
Metals			
Mercury	100	230	
Chromium	10000	28000	
Iron	2000000	9500000	
Zinc	20000	200000	

Parameter	Guidance Value	SB-3 4-6 FT µg/kg	
Metals			
Copper	25000	32000	
Zinc	20000	40000	

Parameter	Guidance Value	SB 10 8-10 FT µg/kg	
Metals			
Chromium	10000	23000	

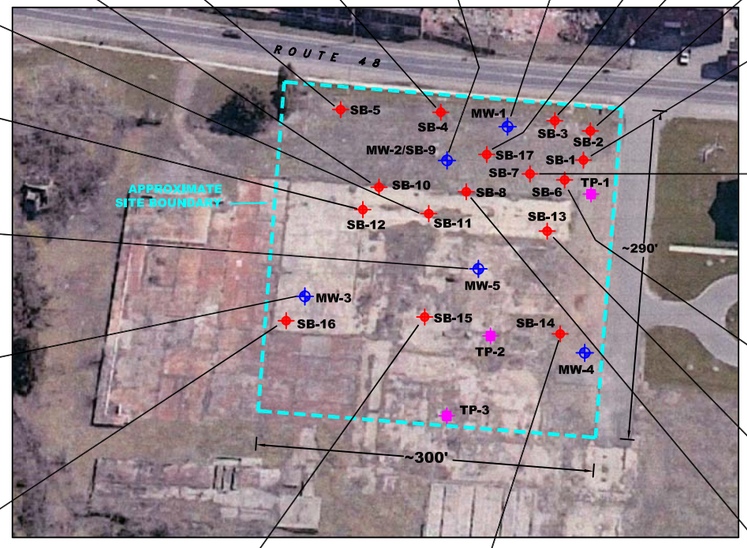
Parameter	Guidance Value	MW 1 10-12 FT µg/kg	
Metals			
Cadmium	1000	1100	
Iron	2000000	11000000	V
Zinc	20000	28000	

Parameter	Guidance Value	SB-2 5-7 FT µg/kg	
Metals			
Zinc	20000	32000	

Parameter	Guidance Value	SB 11 8-10 FT µg/kg	
Metals			
Zinc	20000	21000	

Parameter	Guidance Value	SB-1 1-4 FT µg/kg	
SVOCs			
Benzo(a)anthracene	224	680	
Benzo(a)pyrene	61	440	
Chrysene	400	600	
Metals			
Cadmium	1000	1200	
Copper	25000	29000	
Zinc	20000	43000	J3

Parameter	Guidance Value	SB 12 4-6 FT µg/kg		SB 12 6-8 FT µg/kg	
Metals					
Beryllium	160	<GV		220	
Cadmium	1000	1400		<GV	
Chromium	10000	10000		<GV	
Zinc	20000	50000		36000	



Parameter	Guidance Value	MW 5 10-11 FT µg/kg	
Metals			
Chromium	10000	37000	
Iron	2000000	9000000	

Parameter	Guidance Value	SB 7 10-12 FT µg/kg	
SVOCs			
Benzo(a)anthracene	224	430	
Benzo(a)pyrene	61	560	J8
Chrysene	400	400	
Metals			
Mercury	100	110	
Zinc	20000	63000	

Parameter	Guidance Value	MW 3 9-10 FT µg/kg	
Metals			
Cadmium	1000	1400	
Chromium	10000	14000	
Iron	2000000	15000000	
Nickel	13000	16000	
Zinc	20000	37000	

Parameter	Guidance Value	SB-6 4-8 FT µg/kg	
SVOCs			
Benzo(b)fluoranthene	1100	5400	
Metals			
Mercury	100	180	
Chromium	10000	13000	
Zinc	20000	420000	

Parameter	Guidance Value	SB 16 8-9.5 FT µg/kg	
Metals			
Cadmium	1000	1400	
Chromium	10000	11000	
Iron	2000000	14000000	
Zinc	20000	36000	

Parameter	Guidance Value	SB 13 6-8 FT µg/kg	
Metals			
Mercury	100	340	
Chromium	10000	13000	

Parameter	Guidance Value	SB 15 4-6 FT µg/kg	
Metals			
Cadmium	1000	1700	
Chromium	10000	28000	
Copper	25000	26000	
Iron	2000000	13000000	
Zinc	20000	21000	

Parameter	Guidance Value	SB 14 10-11 FT µg/kg	
Metals			
Cadmium	1000	1200	
Copper	25000	27000	
Iron	2000000	11000000	
Zinc	20000	34000	

Parameter	Guidance Value	SB 8 8-11 FT µg/kg	
SVOCs			
Benzo(a)anthracene	224	1200	E
Benzo(a)pyrene	61	740	
Chrysene	400	760	E
Metals			
Zinc	20000	98000	

NOTES:

Guidance Values: RSCO: Recommended Soil Cleanup Objectives per TAGM #4046

E	GTL (EPA) - Greater than upper calibration limit: Actual value is know n to be greater than the upper calibration range.
J3	The associated batch QC w as outside the established quality control range for precision.
J6	The sample matrix interfered w ith the ability to make any accurate determination; spike value is low
J8	The internal standard associated w ith this data responded abnormally low . The data is likely to show a high bas concerning the result.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

LEGEND

TP-1 — PREVIOUS TEST PIT LOCATION

MW-3 — MONITORING WELL LOCATION

SB-16 — SOIL BORING LOCATION

NOT TO SCALE

J:\LANSTAND\120\Projects\10275008 OOC_Former Columbia Mills\FIGURES\04 Docs\FIG.4.dwg

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
CR	LLM	JI	LPM

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VOCs, SVOCs, TAL METALS & PCBs EXCEEDENCE CONCENTRATIONS IN SOIL

Columbia Mills
Oswego, New York

SCALE:	DATE:	PROJECT NUMBER:
N.T.S.	4/5/06	10275-008

FIGURE NUMBER: 4

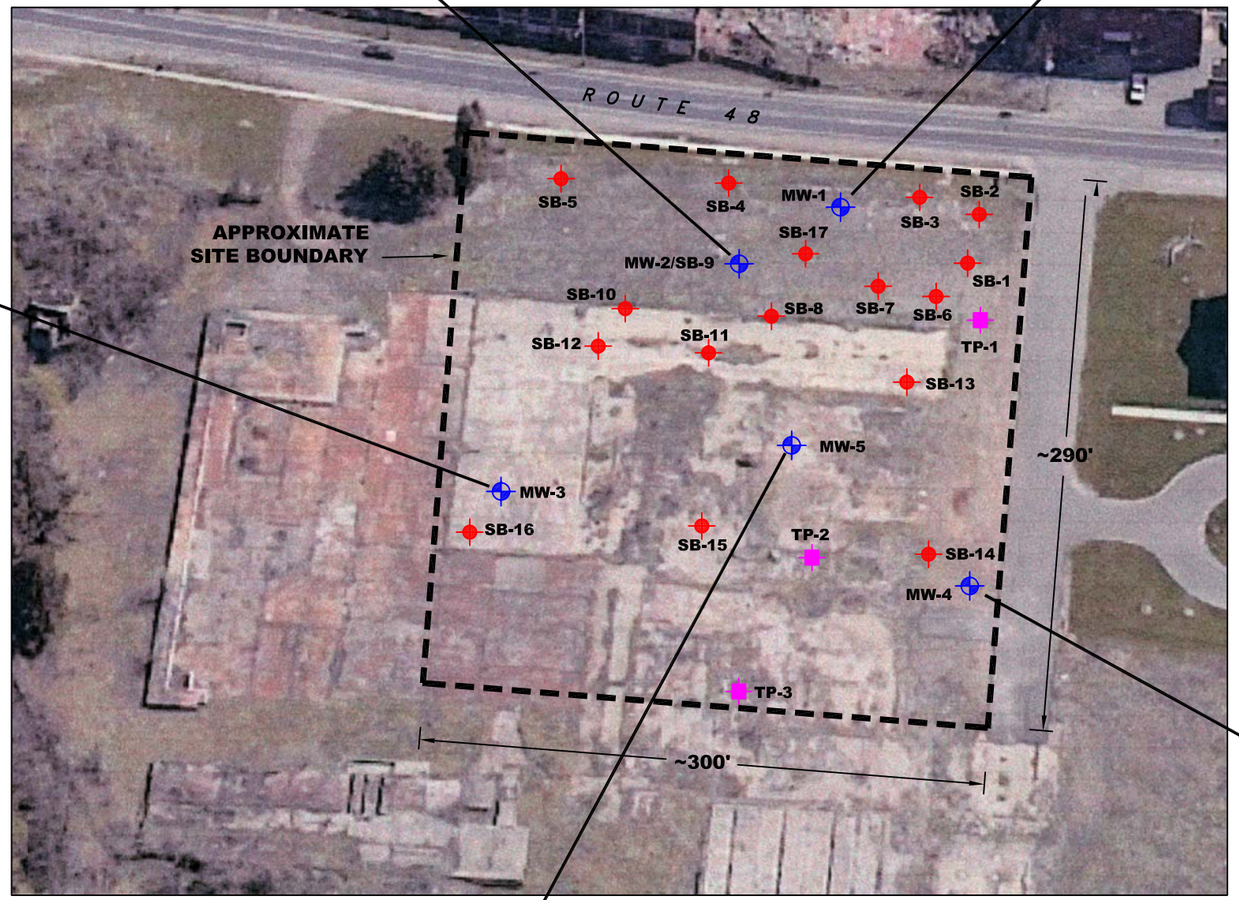
DRAWING NUMBER: 1 OF 1

N

Parameter	Guidance Value	MW-2 µg/L	
VOCs			
Naphthalene	10	**28**	
Metals			
Iron	500	**3600**	
Manganese	300	**310**	

Parameter	Guidance Value	MW-1 µg/L	
Metals			
Iron	500	**3700**	
Magnesium	35000	**39000**	
Sodium	20000	**62000**	

Parameter	Guidance Value	MW-3 µg/L
No Exceedances		



Parameter	Guidance Value	MW-4 µg/L	
Metals			
Magnesium	35000	**39000**	
Manganese	300	**450**	
Sodium	20000	**40000**	

Parameter	Guidance Value	MW-5 µg/L	MW-50 µg/L
No Exceedances			

LEGEND

- TP-1 — PREVIOUS TEST PIT LOCATION
- MW-3 — MONITORING WELL LOCATION
- SB-16 — SOIL BORING LOCATION

NOT TO SCALE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
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VOCs, SVOCs, TAL METALS & PCBs EXCEEDENCE CONCENTRATIONS IN GROUNDWATER

Columbia Mills
Oswego, New York

PROJECT NUMBER	DATE	SCALE
10275-008	4/5/06	N.T.S.

FIGURE NUMBER: 5

SHEET NUMBER: 1 OF 1

J:\LANSTAND\120\Projects\10275008 OOC_Former Columbia Mills\FIGURES\Old Docs\FIG.5.dwg

TABLES

Table 1
Soil Analytical Results - SVOCs
Former Columbia Mills
Minetto, New York

Lab Sample ID					L230549-05		L230549-04		L230549-03		L230549-02		L230549-01		L230549-06		L230659-01	
Client Sample ID					SB-1 1-4 FT		SB-2 5-7 FT		SB-3 4-6 FT		SB-4 8-11 FT		SB-5 0-6 FT		SB-6 4-8 FT		SB 7 10-12 FT	
Collect Date					1/19/2006		1/19/2006		1/19/2006		1/19/2006		1/19/2006		1/19/2006		1/20/2006	
Method	Parameter	CAS #	Units	Standard/ Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
8270C	Acenaphthene	83-32-9	µg/kg	50000	<350		<370		<360		<380		<350		<3500		<350	
8270C	Acenaphthylene	208-96-8	µg/kg	41000	<350		<370		<360		<380		<350		<3500		<350	
8270C	Anthracene	120-12-7	µg/kg	50000	<350		<370		<360		<380		<350		<3500		<350	
8270C	Benzo(a)anthracene	56-55-3	µg/kg	224	**680**		<370		<360		<380		<350		<3500		**430**	
8270C	Benzo(b)fluoranthene	205-99-2	µg/kg	1100	**690**		<370		<360		<380		<350		**5400**		**610**	J8
8270C	Benzo(k)fluoranthene	207-08-9	µg/kg	1100	<350		<370		<360		<380		<350		<3500		<350	J3
8270C	Benzo(a)pyrene	50-32-8	µg/kg	61	**440**		<370		<360		<380		<350		<3500		**560**	J8
8270C	Chrysene	218-01-9	µg/kg	400	**600**		<370		<360		<380		<350		<3500		**400**	
8270C	Fluoranthene	206-44-0	µg/kg	50000	**810**	E	<370		<360		<380		<350		**6400**		**1000**	E
8270C	Fluorene	86-73-7	µg/kg	50000	<350		<370		<360		<380		<350		<3500		<350	
8270C	Phenanthrene	85-01-8	µg/kg	50000	**600**		<370		<360		<380		<350		**6300**		**770**	E
8270C	Bis(2-ethylhexyl)phthalate	117-81-7	µg/kg	50000	<350		<370		<360		<380		<350		<3500		<350	
8270C	Pyrene	129-00-0	µg/kg	50000	**1400**	E	<370		<360		<380		<350		**5700**		**1100**	E

Notes

Standard/Guidance Values: RSCO: Recommended Soil Cleanup Objectives per TAGM #4046

Shading indicates result exceeded guidance value

Bold Bold indicates compound was detected.

Qualifiers:

E GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

J4 The associated batch QC was outside the established quality control range for accuracy.

J8 The internal standard associated with this data responded abnormally low. The data is likely to show a high bias concerning the result.

J3 The associated batch QC was outside the established quality control range for precision.

V3 (ESC) - Additional QC Info: The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Table 1
Soil Analytical Results - SVOCs
Former Columbia Mills
Minetto, New York

Lab Sample ID					L230659-02		L230659-03		L230659-04		L230659-06		L230659-05		L230659-08		L230659-07	
Client Sample ID					SB 8 8-11 FT		SB 9 12-14 FT		SB 9D 12-14 FT		SB 10 8-10 FT		SB 11 8-10 FT		SB 12 4-6 FT		SB 12 6-8 FT	
Collect Date					1/20/2006		1/20/2006		1/20/2006		1/20/2006		1/20/2006		1/20/2006		1/20/2006	
Method	Parameter	CAS #	Units	Standard/ Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
8270C	Acenaphthene	83-32-9	µg/kg	50000	**530**		<400		<380		<360		<350		<400		<400	
8270C	Acenaphthylene	208-96-8	µg/kg	41000	<360		<400		<380		<360		<350		<400		<400	
8270C	Anthracene	120-12-7	µg/kg	50000	**400**		<400		<380		<360		<350		<400		<400	
8270C	Benzo(a)anthracene	56-55-3	µg/kg	224	**1200**	E	<400		<380		<360		<350		<400		<400	
8270C	Benzo(b)fluoranthene	205-99-2	µg/kg	1100	**770**		<400		<380		<360		<350		<400		<400	
8270C	Benzo(k)fluoranthene	207-08-9	µg/kg	1100	**400**	J3, V3	<400	J3	<380	J3	<360	J3	<350	J3	<400	J3	<400	J3
8270C	Benzo(a)pyrene	50-32-8	µg/kg	61	**740**		<400		<380		<360		<350		<400		<400	
8270C	Chrysene	218-01-9	µg/kg	400	**760**	E	<400		<380		<360		<350		<400		<400	
8270C	Fluoranthene	206-44-0	µg/kg	50000	**2800**	E	<400		<380		<360		<350		<400		<400	
8270C	Fluorene	86-73-7	µg/kg	50000	**540**		<400		<380		<360		<350		<400		<400	
8270C	Phenanthrene	85-01-8	µg/kg	50000	**2400**	E	<400		<380		<360		<350		<400		<400	
8270C	Bis(2-ethylhexyl)phthalate	117-81-7	µg/kg	50000	<360		<400		<380		<360		<350		<400		<400	
8270C	Pyrene	129-00-0	µg/kg	50000	**3300**	E	<400		<380		<360		<350		<400		<400	

Notes

Standard/Guidance Values: RSCO: Recommended Soil Cleanup Objectives per TAGM #4046

Shading indicates result exceeded guidance value

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Qualifiers:

E GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

J4 The associated batch QC was outside the established quality control range for accuracy.

J8 The internal standard associated with this data responded abnormally low. The data is likely to show a high bias concerning the result.

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V3 (ESC) - Additional QC Info: The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Table 1
Soil Analytical Results - SVOCs
Former Columbia Mills
Minetto, New York

Lab Sample ID					L230795-01		L230659-10		L230795-02		L230659-09		L230795-04		L230936-01		L230936-02		L230795-03	
Client Sample ID					SB 13 6-8 FT		SB 14 10-11 FT		SB 15 4-6 FT		SB 16 8-9.5 FT		SB 17 8-10 FT		MW 1 10-12 FT		MW 3 9-10 FT		MW 5 10-11 FT	
Collect Date					1/23/2006		1/20/2006		1/23/2006		1/20/2006		1/23/2006		1/24/2006		1/24/2006		1/23/2006	
Method	Parameter	CAS #	Units	Standard/ Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
8270C	Acenaphthene	83-32-9	µg/kg	50000	<370		<360		<400		<400		<370		<350		<360		<350	
8270C	Acenaphthylene	208-96-8	µg/kg	41000	<370		<360		<400		<400		**580**		<350		<360		<350	
8270C	Anthracene	120-12-7	µg/kg	50000	<370		<360		<400		<400		**680**		<350		<360		<350	
8270C	Benzo(a)anthracene	56-55-3	µg/kg	224	<370		<360		<400		<400		**2200**	E	<350		<360		<350	
8270C	Benzo(b)fluoranthene	205-99-2	µg/kg	1100	<370		<360		<400		<400		**2400**	J8	<350	J4	<360	J4	<350	
8270C	Benzo(k)fluoranthene	207-08-9	µg/kg	1100	<370	J3	<360	J3	<400	J3	<400	J3	**730**		<350	J4	<360	J4	<350	J3
8270C	Benzo(a)pyrene	50-32-8	µg/kg	61	<370		<360		<400		<400		**2300**	J8	<350		<360		<350	
8270C	Chrysene	218-01-9	µg/kg	400	<370		<360		<400		<400		**2100**	E	<350		<360		<350	
8270C	Fluoranthene	206-44-0	µg/kg	50000	<370		<360		<400		<400		**4200**	E	<350		<360		<350	
8270C	Fluorene	86-73-7	µg/kg	50000	<370		<360		<400		<400		**390**		<350		<360		<350	
8270C	Phenanthrene	85-01-8	µg/kg	50000	<370		<360		<400		<400		**2900**	E	<350		<360		<350	
8270C	Bis(2-ethylhexyl)phthalate	117-81-7	µg/kg	50000	<370		<360		<400		<400		**1800**	E	<350		<360		<350	
8270C	Pyrene	129-00-0	µg/kg	50000	<370		<360		<400		<400		**5300**	E	<350		<360		<350	

Notes

Standard/Guidance Values: RSCO: Recommended Soil Cleanup Objectives per TAGM #4046

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Qualifiers:

E GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

J4 The associated batch QC was outside the established quality control range for accuracy.

J8 The internal standard associated with this data responded abnormally low. The data is likely to show a high bias concerning the result.

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V3 (ESC) - Additional QC Info: The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Table 2
Soil Analytical Results - Metals
Former Columbia Mills
Minetto, New York

Lab Sample ID					L230549-05		L230549-04		L230549-03		L230549-02		L230549-01		L230549-06		L230659-01	
Client Sample ID					SB-1 1-4 FT		SB-2 5-7 FT		SB-3 4-6 FT		SB-4 8-11 FT		SB-5 0-6 FT		SB-6 4-8 FT		SB 7 10-12 FT	
Collect Date					1/19/2006		1/19/2006		1/19/2006		1/19/2006		1/19/2006		1/19/2006		1/20/2006	
Method	Parameter	CAS #	Units	Standard/ Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
7471	Mercury	7439-97-6	µg/kg	100	**26**		<22		<22		<23		<21		**180**		**110**	
6010B	Aluminum	7429-90-5	µg/kg	SB	**6700000**	V	**5200000**		**5600000**		**4700000**		**5000000**		**8900000**		**5100000**	
6010B	Antimony	7440-36-0	µg/kg	SB	<2600		<560		<2800	O	<2900	O	<2700	O	<2600	O	<2700	O
6010B	Arsenic	7440-38-2	µg/kg	7500	<5300		<1100		**3600**		**4400**		**1600**		**1700**		**2700**	
6010B	Barium	7440-39-3	µg/kg	300000	**130000**	J5, J3	**69000**		**75000**		**64000**		**72000**		**180000**		**69000**	
6010B	Beryllium	7440-41-7	µg/kg	160	<110		<110		<110		<120		<110		<100		**130**	
6010B	Cadmium	7440-43-9	µg/kg	1000	**1200**		<280		**290**		**690**		**330**		**480**		**300**	
6010B	Calcium	7440-70-2	µg/kg	SB	**43000000**		**32000000**		**66000000**		**25000000**		**32000000**		**28000000**		**47000000**	
6010B	Chromium	7440-47-3	µg/kg	10000	**9100**		**6700**		**7400**		**7300**		**7000**		**13000**		**7000**	
6010B	Cobalt	7440-48-4	µg/kg	30000	**4600**		**3000**		**2700**		**9100**		**2600**		**3200**		**3000**	
6010B	Copper	7440-50-8	µg/kg	25000	**29000**		**20000**		**32000**		**35000**		**18000**		**19000**		**16000**	
6010B	Iron	7439-89-6	µg/kg	2000000	**12000000**		**9400000**		**10000000**		**14000000**		**11000000**		**13000000**		**9500000**	
6010B	Lead	7439-92-1	µg/kg	SB	**19000**	J3	**3400**		**36000**		**5500**		**7200**		**42000**		**24000**	
6010B	Magnesium	7439-95-4	µg/kg	SB	**7400000**	V	**6700000**		**9000000**		**5100000**		**4900000**		**6200000**		**7900000**	
6010B	Manganese	7439-96-5	µg/kg	SB	**660000**	V	**370000**		**600000**		**670000**		**430000**		**780000**		**350000**	
6010B	Nickel	7440-02-0	µg/kg	13000	**11000**		**9600**		**10000**		**21000**		**9400**		**13000**		<1100	
6010B	Potassium	7440-09-7	µg/kg	SB	**740000**	J6	**740000**		**760000**		**550000**		**940000**		**750000**		**720000**	
6010B	Silver	7440-22-4	µg/kg	SB	<530		<560		<550		<580		<530		<520		<530	
6010B	Sodium	7440-23-5	µg/kg	SB	**330000**		**250000**		**260000**		**220000**		**210000**		**510000**		**1200000**	
6010B	Vanadium	7440-62-2	µg/kg	150000	**13000**		**10000**		**12000**		**10000**		**11000**		**16000**		**11000**	
6010B	Zinc	7440-66-6	µg/kg	20000	**43000**	J3	**32000**		**40000**		**110000**		**30000**		**420000**		**63000**	

Notes

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Shading indicates result exceeded guidance value

Bold Bold indicates compound was detected.

SB Guidance Value is based on site background

Qualifiers:

J3 The associated batch QC was outside the established quality control range for precision.

J5 The sample matrix interfered with the ability to make any accurate determination; spike value is high

J6 The sample matrix interfered with the ability to make any accurate determination; spike value is low

O (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

V (ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Table 2
Soil Analytical Results - Metals
Former Columbia Mills
Minetto, New York

Lab Sample ID					L230659-02		L230659-03		L230659-04		L230659-06		L230659-05		L230659-08		L230659-07		L230795-01	
Client Sample ID					SB 8 8-11 FT		SB 9 12-14 FT		SB 9D 12-14 FT		SB 10 8-10 FT		SB 11 8-10 FT		SB 12 4-6 FT		SB 12 6-8 FT		SB 13 6-8 FT	
Collect Date					1/20/2006		1/20/2006		1/20/2006		1/20/2006		1/20/2006		1/20/2006		1/20/2006		1/23/2006	
Method	Parameter	CAS #	Units	Standard/ Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
7471	Mercury	7439-97-6	µg/kg	100	**88**		**220**		**190**		<22		<21		<24		**42**		**340**	
6010B	Aluminum	7429-90-5	µg/kg	SB	**6800000**		**2500000**		**2200000**		**5800000**		**5300000**		**8300000**		**7300000**		**3200000**	
6010B	Antimony	7440-36-0	µg/kg	SB	<2700	O	<3000	O	<2900	O	<2700	O	<2700	O	<3000	O	<3000	O	<2800	O
6010B	Arsenic	7440-38-2	µg/kg	7500	**2000**		**41000**		**37000**		<1100		**2300**		<1200		<1200		<1100	
6010B	Barium	7440-39-3	µg/kg	300000	**200000**		**100000**		**67000**		**80000**		**30000**		**64000**		**35000**		**15000**	
6010B	Beryllium	7440-41-7	µg/kg	160	<110		<120		<120		<110		**210**		<120		**220**		<110	
6010B	Cadmium	7440-43-9	µg/kg	1000	**480**		**940**		**830**		**570**		**330**		**1400**		**370**		<280	
6010B	Calcium	7440-70-2	µg/kg	SB	**44000000**		**10000000**		**8200000**		**36000000**		**2100000**		**2000000**		**1600000**		**23000000**	
6010B	Chromium	7440-47-3	µg/kg	10000	**8200**		**5900**		**4200**		**23000**		**8300**		**10000**		**8300**		**13000**	
6010B	Cobalt	7440-48-4	µg/kg	30000	**2700**		<3000	O	<2900	O	**3400**		**3900**		**6400**		**4900**		**2200**	
6010B	Copper	7440-50-8	µg/kg	25000	**23000**		**28000**		**28000**		**15000**		**11000**		**20000**		**20000**		**12000**	
6010B	Iron	7439-89-6	µg/kg	2000000	**11000000**		**32000000**		**29000000**		**9700000**		**11000000**		**14000000**		**12000000**		**6100000**	
6010B	Lead	7439-92-1	µg/kg	SB	**59000**		**44000**		**34000**		**1000**		**2900**		**4000**		**6100**		**590**	
6010B	Magnesium	7439-95-4	µg/kg	SB	**4500000**		**2600000**		**2800000**		**5200000**		**3000000**		**2600000**		**2500000**		**6500000**	
6010B	Manganese	7439-96-5	µg/kg	SB	**370000**		**340000**		**230000**		**470000**		**590000**		**470000**		**420000**		**330000**	
6010B	Nickel	7440-02-0	µg/kg	13000	**4100**		<12000	O	<12000	O	**9500**		**3200**		**13000**		<1200		**4700**	
6010B	Potassium	9/7/7440	µg/kg	SB	**1100000**		**910000**		**800000**		**710000**		**720000**		**860000**		**740000**		**500000**	
6010B	Silver	7440-22-4	µg/kg	SB	**3000**		<3000	O	<2900	O	<550		<540		<600		<600		<560	
6010B	Sodium	7440-23-5	µg/kg	SB	**1500000**		**1400000**		**1400000**		**51000**		**1100000**		**200000**		**1200000**		**180000**	
6010B	Vanadium	7440-62-2	µg/kg	150000	**18000**		**400000**		**370000**		**10000**		**8900**		**17000**		**14000**		**5900**	
6010B	Zinc	7440-66-6	µg/kg	20000	**98000**		**26000**		**23000**		**18000**		**21000**		**50000**		**36000**		**11000**	

Notes

Standard/Guidance Values: RSCO: Recommended Soil Cleanup Objectives per TAGM #4046

Shading indicates result exceeded guidance value

Bold Bold indicates compound was detected.

SB Guidance Value is based on site background

Qualifiers:

J3 The associated batch QC was outside the established quality control range for precision.

J5 The sample matrix interfered with the ability to make any accurate determination; spike value is high

J6 The sample matrix interfered with the ability to make any accurate determination; spike value is low

O (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

V (ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Table 2
Soil Analytical Results - Metals
Former Columbia Mills
Minetto, New York

Lab Sample ID					L230659-10		L230795-02		L230659-09		L230795-04		L230936-01		L230936-02		L230795-03	
Client Sample ID					SB 14 10-11 FT		SB 15 4-6 FT		SB 16 8-9.5 FT		SB 17 8-10 FT		MW 1 10-12 FT		MW 3 9-10 FT		MW 5 10-11 FT	
Collect Date					1/20/2006		1/23/2006		1/20/2006		1/23/2006		1/24/2006		1/24/2006		1/23/2006	
Method	Parameter	CAS #	Units	Standard/ Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
7471	Mercury	7439-97-6	µg/kg	100	<22		<73	O	<24		**230**		<22		<22		<21	
6010B	Aluminum	7429-90-5	µg/kg	SB	**5500000**		**8700000**		**7500000**		**6400000**		**6400000**	V	**10000000**		**5300000**	
6010B	Antimony	7440-36-0	µg/kg	SB	<2700	O	<3000	O	<3000	O	<2800	O	**3000**		<2700	O	<2600	O
6010B	Arsenic	7440-38-2	µg/kg	7500	<1100		<1200		**1900**		**2700**		<1000		<1100		<1100	
6010B	Barium	7440-39-3	µg/kg	300000	**60000**		**82000**		**90000**		**260000**		**62000**	J6	**85000**		**31000**	
6010B	Beryllium	7440-41-7	µg/kg	160	<110		**540**		<120		<110		<100		<110		<110	
6010B	Cadmium	7440-43-9	µg/kg	1000	**1200**		**1700**		**1400**		**360**		**1100**		**1400**		**600**	
6010B	Calcium	7440-70-2	µg/kg	SB	**47000000**		**1400000**		**1900000**		**56000000**		**35000000**		**9800000**		**24000000**	
6010B	Chromium	7440-47-3	µg/kg	10000	**6800**		**28000**		**11000**		**28000**		**9600**		**14000**		**37000**	
6010B	Cobalt	7440-48-4	µg/kg	30000	**4600**		**5700**		**7400**		**3600**		**4800**		**8000**		**3800**	
6010B	Copper	7440-50-8	µg/kg	25000	**27000**		**26000**		**21000**		**23000**		**16000**		**16000**		**23000**	
6010B	Iron	7439-89-6	µg/kg	2000000	**11000000**		**13000000**		**14000000**		**9500000**		**11000000**	V	**15000000**		**9000000**	
6010B	Lead	7439-92-1	µg/kg	SB	**520**		**4300**		**3300**		**110000**		**1000**		**3700**		<260	
6010B	Magnesium	7439-95-4	µg/kg	SB	**6800000**		**2400000**		**2900000**		**7600000**		**8600000**	V	**3700000**		**6100000**	
6010B	Manganese	7439-96-5	µg/kg	SB	**510000**		**630000**		**670000**		**540000**		**420000**	V	**460000**		**350000**	
6010B	Nickel	7440-02-0	µg/kg	13000	**10000**		**11000**		**13000**		**12000**		**12000**		**16000**		**10000**	
6010B	Potassium	9/7/7440	µg/kg	SB	**790000**		**680000**		**950000**		**680000**		**1000000**		**1100000**		**810000**	
6010B	Silver	7440-22-4	µg/kg	SB	<550		<600		<600		<560		<500		<540		<530	
6010B	Sodium	7440-23-5	µg/kg	SB	**190000**		**160000**		**170000**		**350000**		**190000**		**140000**		**180000**	
6010B	Vanadium	7440-62-2	µg/kg	150000	**11000**		**15000**		**16000**		**30000**		**13000**		**20000**		**7900**	
6010B	Zinc	7440-66-6	µg/kg	20000	**34000**		**21000**		**36000**		**200000**		**28000**		**37000**		**18000**	

Notes

Standard/Guidance Values: RSCO: Recommended Soil Cleanup Objectives per TAGM #4046

Shading indicates result exceeded guidance value

Bold Bold indicates compound was detected.

SB Guidance Value is based on site background

Qualifiers:

J3 The associated batch QC was outside the established quality control range for precision.

J5 The sample matrix interfered with the ability to make any accurate determination; spike value is high

J6 The sample matrix interfered with the ability to make any accurate determination; spike value is low

O (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

V (ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Table 3
Soil Analytical Results - PCBs
Former Columbia Mills
Minetto, New York

Lab Sample ID					L230549-05		L230549-04		L230549-03		L230549-02		L230549-01		L230549-06		L230659-01		L230659-02	
Client Sample ID					SB-1 1-4 FT		SB-2 5-7 FT		SB-3 4-6 FT		SB-4 8-11 FT		SB-5 0-6 FT		SB-6 4-8 FT		SB 7 10-12 FT		SB 8 8-11 FT	
Collect Date					1/19/2006		1/19/2006		1/19/2006		1/19/2006		1/19/2006		1/19/2006		1/20/2006		1/20/2006	
Method	Parameter	CAS #	Units	Standard/ Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
8082	PCB 1016	12674-11-2	µg/kg	1000	<90	O	<95	O	<94	O	<99	O	<91	O	<89		**170**		<92	O
8082	PCB 1248	12672-29-6	µg/kg	1000	<90	O	<95	O	<94	O	<99	O	<91	O	**330**		<91		<92	O

Notes
Standard/Guidance Values: RSCO: Recommended Soil Cleanup Objectives per TAGM #4046
Shading indicates result exceeded guidance value
Bold Bold indicates compound was detected.

Qualifiers:
O (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Table 3
Soil Analytical Results - PCBs
Former Columbia Mills
Minetto, New York

Lab Sample ID					L230659-03		L230659-04		L230659-06		L230659-05		L230659-08		L230659-07		L230795-01		L230659-10	
Client Sample ID					SB 9 12-14 FT		SB 9D 12-14 FT		SB 10 8-10 FT		SB 11 8-10 FT		SB 12 4-6 FT		SB 12 6-8 FT		SB 13 6-8 FT		SB 14 10-11 FT	
Collect Date					1/20/2006		1/20/2006		1/20/2006		1/20/2006		1/20/2006		1/20/2006		1/23/2006		1/20/2006	
Method	Parameter	CAS #	Units	Standard/ Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
8082	PCB 1016	12674-11-2	µg/kg	1000	<100	O	<98	O	<93	O	<91	O	<100	O	<100	O	<95	O	<93	O
8082	PCB 1248	12672-29-6	µg/kg	1000	<100	O	<98	O	<93	O	<91	O	<100	O	<100	O	<95	O	<93	O

Notes
Standard/Guidance Values: RSCO: Recommended Soil Cleanup Objectives per TAGM #4046
Shading indicates result exceeded guidance value
Bold Bold indicates compound was detected.

Qualifiers:
O (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Table 3
Soil Analytical Results - PCBs
Former Columbia Mills
Minetto, New York

Lab Sample ID					L230795-02		L230659-09		L230795-04		L230936-01		L230936-02		L230795-03	
Client Sample ID					SB 15 4-6 FT		SB 16 8-9.5 FT		SB 17 8-10 FT		MW 1 10-12 FT		MW 3 9-10 FT		MW 5 10-11 FT	
Collect Date					1/23/2006		1/20/2006		1/23/2006		1/24/2006		1/24/2006		1/23/2006	
Method	Parameter	CAS #	Units	Standard/ Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
8082	PCB 1016	12674-11-2	µg/kg	1000	<100	O	<100	O	<94		<91	O	<93	O	<90	O
8082	PCB 1248	12672-29-6	µg/kg	1000	<100	O	<100	O	<94		<91	O	<93	O	<90	O

Notes
Standard/Guidance Values: RSCO: Recommended Soil Cleanup Objectives per TAGM #4046
Shading indicates result exceeded guidance value
Bold Bold indicates compound was detected.

Qualifiers:
O (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Table 4
Soil Analytical Results - Dioxins
Former Columbia Mills
Minetto, New York

Lab Sample ID					L231627-01			L231627-02			L231627-03			L231627-04			L231627-05		
Client Sample ID					SB 9 12-14 FT			SB 14 10-11 FT			MW 5 10-11 FT			MW 1 10-12 FT			MW 3 9-10 FT		
Collect Date					1/24/2006			1/24/2006			1/24/2006			1/24/2006			1/24/2006		
Method	Component	Units	Standard/Guidance Value	TEF	Result	Qualifier	TEF-Adjusted Concentration	Result	Qualifier	TEF-Adjusted Concentration	Result	Qualifier	TEF-Adjusted Concentration	Result	Qualifier	TEF-Adjusted Concentration	Result	Qualifier	TEF-Adjusted Concentration
8290	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	ng/Kg	NV	0.01	**11.302**	B	0.1130	**1.099**	BJ	0.01099	**0.748**	BJ	0.00748	**1.476**	BJ	**0.01476**	0.543	BJK	**0.00543**
8290	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	ng/Kg	NV	0.1	**0.564**	JK	0.0564	**0.200**	J	0.0200	**0.137**	JK	0.0137	<0.032		NA	<0.031		NA
8290	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	ng/Kg	NV	0.1	**1.194**	J	0.1194	**0.271**	J	0.0271	**0.165**	JK	0.0165	**0.118**	JK	**0.0118**	<0.03		NA
8290	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	ng/Kg	NV	0.1	**1.404**	J	0.1404	**0.268**	J	0.0268	**0.205**	J	0.0205	**0.198**	J	**0.0198**	0.148	JK	**0.0148**
8290	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	ng/Kg	NV	0.5	**0.427**	J	0.2135	**0.161**	JK	0.0805	<0.021		NA	<0.023		NA	<0.028		NA
8290	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	ng/Kg	NV	1.0	<0.026		NA	<0.024		NA	<0.023		NA	<0.025		NA	<0.034		NA
8290	Octachlorodibenzo-p-dioxin (OCDD)	ng/Kg	NV	0.001	**59.796**	B	0.0598	**4.471**	BJ	0.004471	**3.078**	BJ	0.003078	**11.96**	BJ	**0.01196**	3.119	BJ	**0.003119**
	Total TEF Adjusted Concentration:	ng/Kg					0.7025			0.1699			0.06126			0.05832			0.0233

Notes

Taken from 'Interim Procedures Estimating Riak Associated with Exposures to Mictures of Chlorinated Dibenzo-p-Dioxin and -Debenzofurans (CDDs and CDFs)' and 1989 Update (EPA/625/3-89/016, March 1989) and 1989 Update.

Shading indicates result exceeded guidance value

Bold Bold indicates compound was detected.

NV No guidance value available

Qualifiers:

B Indicates the asociated analyte was found in the method blank, as well as in the sample

J Indicates an estimated value - used when the analyte concentration exceeded the upper end of the linear calibration range

K Indicates an estimated maximum possible concentration for the associated compound

Table 5
Groundwater Analytical Results - VOCs
Former Columbia Mills
Minetto, New York

Lab Sample ID					L232058-06		L232058-03		L232058-04		L232058-05		L232058-01		L232058-02		L232058-07	
Client Sample ID					MW-1		MW-2		MW-3		MW-4		MW-5		MW-50		TRIP BLANK	
Collect Date					2/1/2006		2/1/2006		2/1/2006		2/1/2006		2/1/2006		2/1/2006		2/1/2006	
Method	Parameter	CAS #	Units	Standard/Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
8260B	Acetone	67-64-1	µg/l	50	**30**		<25		<25		<25		<25		<25		<25	
8260B	Naphthalene	91-20-3	µg/l	10	<5.0		**28**		<5.0		<5.0		<5.0		<5.0		<5.0	

Notes

Standard/Guidance Values: New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series 1.1.1- New York State Ambient Water Quality Standards and Guidance Values.

Shading indicates result exceeded guidance value

Bold Bold indicates compound was detected.

Table 6
Groundwater Analytical Results - Metals
Former Columbia Mills
Minetto, New York

Lab Sample ID					L232058-06		L232058-03		L232058-04		L232058-05		L232058-01		L232058-02	
Client Sample ID					MW-1		MW-2		MW-3		MW-4		MW-5		MW-50	
Collect Date					2/1/2006		2/1/2006		2/1/2006		2/1/2006		2/1/2006		2/1/2006	
Method	Parameter	CAS #	Units	Standard/Guidance Value	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
6010B	Aluminum	7429-90-5	µg/l	NV	**3500**		<100		**230**		<100		**140**		**100**	
6010B	Barium	7440-39-3	µg/l	1000	**83**		**68**		**77**		**57**		**60**		**59**	
6010B	Calcium	7440-70-2	µg/l	NV	**100000**		**140000**		**67000**		**100000**	V	**57000**		**57000**	
6010B	Chromium	7440-47-3	µg/l	50	**14**		<10		<10		<10		<10		<10	
6010B	Iron	7439-89-6	µg/l	500	**3700**		**3600**		**310**		<100		**150**		**140**	
6010B	Magnesium	7439-95-4	µg/l	35000	**39000**		**13000**		**13000**		**39000**		**4100**		**4000**	
6010B	Manganese	7439-96-5	µg/l	300	**250**		**310**		**100**		**450**		**130**		**130**	
6010B	Potassium	7440-09-7	µg/l	NV	**13000**		**7900**		**3200**		**7100**		**5500**		**5500**	
6010B	Sodium	7440-23-5	µg/l	20000	**62000**		**6600**		**6000**		**40000**		**7700**		**8300**	
6010B	Vanadium	7440-62-2	µg/l	NV	<10		**49**		<10		<10		<10		<10	
6010B	Zinc	7440-66-6	µg/l	2000	<30		<30		**48**		<30		<30		<30	

Notes

Standard/Guidance Values: New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series 1.1.1- New York State Ambient Water Quality Standards and Guidance Values.

Shading indicates result exceeded guidance value

Bold Bold indicates compound was detected.

NV No guidance value available

Qualifiers:

V (ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Table 7
Groundwater Analytical Results - Dioxins
Former Columbia Mills
Minetto, New York

Lab Sample ID					L232054-06			L232054-03			L232054-04		
Client Sample ID					MW 1			MW 2			MW 3		
Collection Date					02/01/2006			02/01/2006			02/01/2006		
Method	Parameter	Units	Standard/Guidance Value*	TEF	Value	Qaul	TEF-Adjusted Concentration	Value	Qaul	TEF-Adjusted Concentration	Value	Qaul	TEF-Adjusted Concentration
8290	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/L	0.7	0.001	**[36.2]**	**J**	0.0362	**9.2**	**J**	0.0092	**[9.2]**	**J**	0.0092

Lab Sample ID					L232054-05			L232054-01			L232054-02		
Client Sample ID					MW 4			MW 5			MW 50		
Collection Date					02/01/2006			02/01/2006			02/01/2006		
Method	Parameter	Units	Standard/Guidance Value*	TEF	Value	Qaul	TEF-Adjusted Concentration	Value	Qaul	TEF-Adjusted Concentration	Value	Qaul	TEF-Adjusted Concentration
8290	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/L	0.7	0.001	**22.4**	**J**	0.0224	**7.6**	**J**	0.0076	**8.3**	**J**	0.0083

Notes

Standard/Guidance Values: New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series 1.1.1-New York State Ambient Water Quality Standards and Guidance Values.

* Value is the total of the chlorinated dibenzo-p-dioxins and chlorinated dibenzofurans

Bold Bold indicates compound was detected.

Qualifiers:

J Indicates an estimated value - concentration is based on an analyte to internal standard ratio which is the below calibration curve.

[ ] Indicates an estimated maximum possible concentration for the associated compound

APPENDIX A

Laboratory Analytical Results for November 2005 Sampling Event

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.nealab.com information @nealab.com

LRF # <05110145>

DISPOSAL REQUIREMENTS: (To be filled in by Client)

- ( ) RETURN TO CLIENT
- (X) DISPOSAL BY NORTHEAST ANALYTICAL
- ( ) ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO): STEWART'S	PROJECT#/PROJECT NAME: MINETTO - COLUMBIA MILLS
PROJECT MANAGER: TIM JOHNCOX	PROJECT LOCATION (CITY/STATE) ADDRESS: MINETTO, NY
PHONE: 518 581 1201 EXT 4259	
SAMPLED BY: (Please Print) T. JOHNCOX	REQUIRED TURN AROUND TIME: STD.
SAMPLING FIRM: STEWART'S	NAME OF COURIER (IF USED):
	Data Report: ( ) CLP* (X) Certificates Only
ELECTRONIC RESULTS FORMAT: .PDF (X) EXCEL (.CSV) ( )	E-MAIL ADDRESS:
FAXED RESULTS ( )	FAX #:

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE:	HCl	0						
BOTTLE TYPE:	GLASS	GLASS						
BOTTLE SIZE:	40ml	8oz						

PRESERVATIVE KEY: 0 - NONE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (NEA USE ONLY)	NUMBER OF CONTAINERS	8260 FULL LIST	8260 FULL LIST	8270 FULL LIST	TAL METALS	PCB's (8082)	TPH GRO (8015)		REMARKS:
TP-1	11/18/05	12:00	WATER	G	AI14378	3							6	
TP-1 9-10'	11/18/05	12:10	SOIL	COMP	AI14379	1	X	X	X	X	X	X	X	
TP-2 5'	11/18/05	1:00	SOIL	COMP	AI14380	1	X	X	X	X	X	X		
TP-3 5'	11/18/05	1:30	SOIL	COMP	AI14381	1	X	X	X	X	X	X		

(AMBIENT) OR CHILLED:	TEMP: 10.9°C	COC TAPE: Y (N)	PROPERLY PRESERVED: (Y) N
RECEIVED BROKEN OR LEAKING: Y (N)		COC DISCREPANCIES: Y (N)	RECVD W/I HOLDING TIMES: (Y) N

OTHER NOTES:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: [signature]	SIGNATURE: [signature]	SIGNATURE: [signature]	SIGNATURE: [signature]	SIGNATURE:	SIGNATURE:
PRINTED NAME: TIM JOHNCOX	PRINTED NAME: A Royal	PRINTED NAME: A Royal	PRINTED NAME: Terrance Nelson	PRINTED NAME:	PRINTED NAME:
COMPANY: STEWART'S	COMPANY: NEA	COMPANY: NEA	COMPANY: NEA	COMPANY:	COMPANY:
DATE/TIME: 11/18/05	DATE/TIME: 11/18/05 1130	DATE/TIME: 11/21/05 1230	DATE/TIME: 11/21/05 1200	DATE/TIME:	DATE/TIME:

* CLP LIKE DATA PACKAGE ADDITIONAL COST

(AR) 21

S:\ADMIN\COC FORM 01.XLS (Revised July 1, 2005)

NEA
NORTHEAST ANALYTICAL LABS

CERTIFICATE OF ANALYSIS
11/23/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID: TP-1 **NEA ID:** AI14378

MATRIX : WATER **DATE SAMPLED:** 11/18/2005 **TIME:** 12:00

DATE RECEIVED: 11/21/2005 **TIME:** 11:30 **PROJECT:** MINETTO-COLUMBIA MILLS

SAMPLED BY: T. JOHNCOX **LOCATION:** MINETTO, NY

CUSTOMER PO: N/A **LAB ELAP #:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE COMPLETED	FLAGS
EPA Method 8260B					
1,1,1,2-Tetrachloroethane	ND	1.00	µg/L	11/21/2005	
1,1,1-Trichloroethane	ND	1.00	µg/L	11/21/2005	
1,1,2,2-Tetrachloroethane	ND	1.00	µg/L	11/21/2005	
1,1,2-Trichloroethane	ND	1.00	µg/L	11/21/2005	
1,1-Dichloroethane	ND	1.00	µg/L	11/21/2005	
1,1-Dichloroethene	ND	1.00	µg/L	11/21/2005	
1,1-Dichloropropene	ND	1.00	µg/L	11/21/2005	
1,2,3-Trichlorobenzene	ND	1.00	µg/L	11/21/2005	
1,2,3-Trichloropropane	ND	1.00	µg/L	11/21/2005	
1,2,4-Trichlorobenzene	ND	1.00	µg/L	11/21/2005	
1,2,4-Trimethylbenzene	ND	1.00	µg/L	11/21/2005	
1,2-Dibromo-3-chloropropane	ND	1.00	µg/L	11/21/2005	
1,2-Dibromoethane	ND	1.00	µg/L	11/21/2005	
1,2-Dichlorobenzene	ND	1.00	µg/L	11/21/2005	
1,2-Dichloroethane	ND	1.00	µg/L	11/21/2005	
1,2-Dichloropropane	ND	1.00	µg/L	11/21/2005	
1,3,5-Trimethylbenzene	ND	1.00	µg/L	11/21/2005	
1,3-Dichlorobenzene	ND	1.00	µg/L	11/21/2005	
1,3-Dichloropropane	ND	1.00	µg/L	11/21/2005	
1,4-Dichlorobenzene	ND	1.00	µg/L	11/21/2005	
2,2-Dichloropropane	ND	1.00	µg/L	11/21/2005	
2-Butanone	ND	1.00	µg/L	11/21/2005	
2-Chloroethylvinylether	ND	1.00	µg/L	11/21/2005	
2-Chlorotoluene	ND	1.00	µg/L	11/21/2005	
2-Hexanone	ND	1.00	µg/L	11/21/2005	
4-Chlorotoluene	ND	1.00	µg/L	11/21/2005	
4-Isopropyltoluene	ND	1.00	µg/L	11/21/2005	
4-Methyl-2-pentanone	ND	1.00	µg/L	11/21/2005	
Acetone	ND	5.00	µg/L	11/21/2005	
Benzene	ND	1.00	µg/L	11/21/2005	
Bromobenzene	ND	1.00	µg/L	11/21/2005	
Bromochloromethane	ND	1.00	µg/L	11/21/2005	
Bromodichloromethane	ND	1.00	µg/L	11/21/2005	
Bromoform	ND	1.00	µg/L	11/21/2005	
Bromomethane	ND	1.00	µg/L	11/21/2005	
Carbon Disulfide	ND	1.00	µg/L	11/21/2005	
Carbon Tetrachloride	ND	1.00	µg/L	11/21/2005	
Chlorobenzene	ND	1.00	µg/L	11/21/2005	
Chloroethane	ND	1.00	µg/L	11/21/2005	
Chloroform	ND	1.00	µg/L	11/21/2005	

NEA
NORTHEAST ANALYTICAL LABS

CERTIFICATE OF ANALYSIS
11/23/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID: TP-1
NEA ID: AI14378
MATRIX : WATER
DATE SAMPLED: 11/18/2005 **TIME:** 12:00
DATE RECEIVED: 11/21/2005 **TIME:** 11:30
PROJECT: MINETTO-COLUMBIA MILLS
SAMPLED BY: T. JOHNCOX
LOCATION: MINETTO, NY
CUSTOMER PO: N/A
LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE COMPLETED	FLAGS
Chloromethane	ND	1.00	µg/L	11/21/2005	
cis-1,2-Dichloroethene	ND	1.00	µg/L	11/21/2005	
cis-1,3-Dichloropropene	ND	1.00	µg/L	11/21/2005	
Dibromochloromethane	ND	1.00	µg/L	11/21/2005	
Dibromomethane	ND	1.00	µg/L	11/21/2005	
Dichlorodifluoromethane	ND	1.00	µg/L	11/21/2005	
Ethylbenzene	ND	1.00	µg/L	11/21/2005	
Hexachlorobutadiene	ND	1.00	µg/L	11/21/2005	
Isopropylbenzene	ND	1.00	µg/L	11/21/2005	
m&p-Xylene	ND	1.00	µg/L	11/21/2005	
Methylene Chloride	ND	1.00	µg/L	11/21/2005	
MTBE	ND	1.00	µg/L	11/21/2005	
n-Butylbenzene	ND	1.00	µg/L	11/21/2005	
n-Propylbenzene	ND	1.00	µg/L	11/21/2005	
Naphthalene	2.60	1.00	µg/L	11/21/2005	
o-Xylene	ND	1.00	µg/L	11/21/2005	
sec-Butylbenzene	ND	1.00	µg/L	11/21/2005	
Styrene	ND	1.00	µg/L	11/21/2005	
tert-Butylbenzene	ND	1.00	µg/L	11/21/2005	
Tetrachloroethene	ND	1.00	µg/L	11/21/2005	
Toluene	ND	1.00	µg/L	11/21/2005	
trans-1,2-Dichloroethene	ND	1.00	µg/L	11/21/2005	
trans-1,3-Dichloropropene	ND	1.00	µg/L	11/21/2005	
Trichloroethene	ND	1.00	µg/L	11/21/2005	
Trichlorofluoromethane	ND	1.00	µg/L	11/21/2005	
Vinyl Chloride	ND	1.00	µg/L	11/21/2005	

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

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CERTIFICATE OF ANALYSIS
11/23/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-1 9-10'	**NEA ID:**	AI14379
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 12:10
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE COMPLETED	FLAGS
EPA Method 8260B					
1,1,1,2-Tetrachloroethane	ND	2.51	µg/kg	11/22/2005	
1,1,1-Trichloroethane	ND	2.51	µg/kg	11/22/2005	
1,1,2,2-Tetrachloroethane	ND	2.51	µg/kg	11/22/2005	
1,1,2-Trichloroethane	ND	2.51	µg/kg	11/22/2005	
1,1-Dichloroethane	ND	2.51	µg/kg	11/22/2005	
1,1-Dichloroethene	ND	2.51	µg/kg	11/22/2005	
1,1-Dichloropropene	ND	2.51	µg/kg	11/22/2005	
1,2,3-Trichlorobenzene	ND	2.51	µg/kg	11/22/2005	
1,2,3-Trichloropropane	ND	2.51	µg/kg	11/22/2005	
1,2,4-Trichlorobenzene	ND	2.51	µg/kg	11/22/2005	
1,2,4-Trimethylbenzene	ND	2.51	µg/kg	11/22/2005	
1,2-Dibromo-3-chloropropane	ND	2.51	µg/kg	11/22/2005	
1,2-Dibromoethane	ND	2.51	µg/kg	11/22/2005	
1,2-Dichlorobenzene	ND	2.51	µg/kg	11/22/2005	
1,2-Dichloroethane	ND	2.51	µg/kg	11/22/2005	
1,2-Dichloropropane	ND	2.51	µg/kg	11/22/2005	
1,3,5-Trimethylbenzene	ND	2.51	µg/kg	11/22/2005	
1,3-Dichlorobenzene	ND	2.51	µg/kg	11/22/2005	
1,3-Dichloropropane	ND	2.51	µg/kg	11/22/2005	
1,4-Dichlorobenzene	ND	2.51	µg/kg	11/22/2005	
2,2-Dichloropropane	ND	2.51	µg/kg	11/22/2005	
2-Butanone	ND	2.51	µg/kg	11/22/2005	
2-Chloroethylvinylether	ND	2.51	µg/kg	11/22/2005	
2-Chlorotoluene	ND	2.51	µg/kg	11/22/2005	
2-Hexanone	ND	2.51	µg/kg	11/22/2005	
4-Chlorotoluene	ND	2.51	µg/kg	11/22/2005	
4-Isopropyltoluene	ND	2.51	µg/kg	11/22/2005	
4-Methyl-2-pentanone	ND	2.51	µg/kg	11/22/2005	
Acetone	ND	12.6	µg/kg	11/22/2005	
Benzene	ND	2.51	µg/kg	11/22/2005	
Bromobenzene	ND	2.51	µg/kg	11/22/2005	
Bromochloromethane	ND	2.51	µg/kg	11/22/2005	
Bromodichloromethane	ND	2.51	µg/kg	11/22/2005	
Bromoform	ND	2.51	µg/kg	11/22/2005	
Bromomethane	ND	2.51	µg/kg	11/22/2005	
Carbon Disulfide	ND	2.51	µg/kg	11/22/2005	
Carbon Tetrachloride	ND	2.51	µg/kg	11/22/2005	
Chlorobenzene	ND	2.51	µg/kg	11/22/2005	
Chloroethane	ND	2.51	µg/kg	11/22/2005	
Chloroform	ND	2.51	µg/kg	11/22/2005	

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STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-1 9-10'	**NEA ID:**	AI14379
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 12:10
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE COMPLETED	FLAGS
Chloromethane	ND	2.51	µg/kg	11/22/2005	
cis-1,2-Dichloroethene	ND	2.51	µg/kg	11/22/2005	
cis-1,3-Dichloropropene	ND	2.51	µg/kg	11/22/2005	
Dibromochloromethane	ND	2.51	µg/kg	11/22/2005	
Dibromomethane	ND	2.51	µg/kg	11/22/2005	
Dichlorodifluoromethane	ND	2.51	µg/kg	11/22/2005	
Ethylbenzene	ND	2.51	µg/kg	11/22/2005	
Hexachlorobutadiene	ND	2.51	µg/kg	11/22/2005	
Isopropylbenzene	ND	2.51	µg/kg	11/22/2005	
m&p-Xylene	ND	2.51	µg/kg	11/22/2005	
Methylene Chloride	ND	2.51	µg/kg	11/22/2005	
MTBE	ND	2.51	µg/kg	11/22/2005	
n-Butylbenzene	ND	2.51	µg/kg	11/22/2005	
n-Propylbenzene	ND	2.51	µg/kg	11/22/2005	
Naphthalene	4.59	2.51	µg/kg	11/22/2005	
o-Xylene	ND	2.51	µg/kg	11/22/2005	
sec-Butylbenzene	ND	2.51	µg/kg	11/22/2005	
Styrene	ND	2.51	µg/kg	11/22/2005	
tert-Butylbenzene	ND	2.51	µg/kg	11/22/2005	
Tetrachloroethene	ND	2.51	µg/kg	11/22/2005	
Toluene	ND	2.51	µg/kg	11/22/2005	
trans-1,2-Dichloroethene	ND	2.51	µg/kg	11/22/2005	
trans-1,3-Dichloropropene	ND	2.51	µg/kg	11/22/2005	
Trichloroethene	ND	2.51	µg/kg	11/22/2005	
Trichlorofluoromethane	ND	2.51	µg/kg	11/22/2005	
Vinyl Acetate	ND	2.51	µg/kg	11/22/2005	
Vinyl Chloride	ND	2.51	µg/kg	11/22/2005	

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

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11/23/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-2 5'	**NEA ID:**	AI14380
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 13:00
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE COMPLETED	FLAGS
EPA Method 8260B					
1,1,1,2-Tetrachloroethane	ND	2.19	µg/kg	11/22/2005	
1,1,1-Trichloroethane	ND	2.19	µg/kg	11/22/2005	
1,1,2,2-Tetrachloroethane	ND	2.19	µg/kg	11/22/2005	
1,1,2-Trichloroethane	ND	2.19	µg/kg	11/22/2005	
1,1-Dichloroethane	ND	2.19	µg/kg	11/22/2005	
1,1-Dichloroethene	ND	2.19	µg/kg	11/22/2005	
1,1-Dichloropropene	ND	2.19	µg/kg	11/22/2005	
1,2,3-Trichlorobenzene	ND	2.19	µg/kg	11/22/2005	
1,2,3-Trichloropropane	ND	2.19	µg/kg	11/22/2005	
1,2,4-Trichlorobenzene	ND	2.19	µg/kg	11/22/2005	
1,2,4-Trimethylbenzene	ND	2.19	µg/kg	11/22/2005	
1,2-Dibromo-3-chloropropane	ND	2.19	µg/kg	11/22/2005	
1,2-Dibromoethane	ND	2.19	µg/kg	11/22/2005	
1,2-Dichlorobenzene	ND	2.19	µg/kg	11/22/2005	
1,2-Dichloroethane	ND	2.19	µg/kg	11/22/2005	
1,2-Dichloropropane	ND	2.19	µg/kg	11/22/2005	
1,3,5-Trimethylbenzene	ND	2.19	µg/kg	11/22/2005	
1,3-Dichlorobenzene	ND	2.19	µg/kg	11/22/2005	
1,3-Dichloropropane	ND	2.19	µg/kg	11/22/2005	
1,4-Dichlorobenzene	ND	2.19	µg/kg	11/22/2005	
2,2-Dichloropropane	ND	2.19	µg/kg	11/22/2005	
2-Butanone	ND	2.19	µg/kg	11/22/2005	
2-Chloroethylvinylether	ND	2.19	µg/kg	11/22/2005	
2-Chlorotoluene	ND	2.19	µg/kg	11/22/2005	
2-Hexanone	ND	2.19	µg/kg	11/22/2005	
4-Chlorotoluene	ND	2.19	µg/kg	11/22/2005	
4-Isopropyltoluene	ND	2.19	µg/kg	11/22/2005	
4-Methyl-2-pentanone	ND	2.19	µg/kg	11/22/2005	
Acetone	ND	11.0	µg/kg	11/22/2005	
Benzene	ND	2.19	µg/kg	11/22/2005	
Bromobenzene	ND	2.19	µg/kg	11/22/2005	
Bromochloromethane	ND	2.19	µg/kg	11/22/2005	
Bromodichloromethane	ND	2.19	µg/kg	11/22/2005	
Bromoform	ND	2.19	µg/kg	11/22/2005	
Bromomethane	ND	2.19	µg/kg	11/22/2005	
Carbon Disulfide	ND	2.19	µg/kg	11/22/2005	
Carbon Tetrachloride	ND	2.19	µg/kg	11/22/2005	
Chlorobenzene	ND	2.19	µg/kg	11/22/2005	
Chloroethane	ND	2.19	µg/kg	11/22/2005	
Chloroform	ND	2.19	µg/kg	11/22/2005	

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11/23/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID: TP-2 5'
NEA ID: AI14380
MATRIX : SOIL
DATE SAMPLED: 11/18/2005 **TIME:** 13:00
DATE RECEIVED: 11/21/2005 **TIME:** 11:30
PROJECT: MINETTO-COLUMBIA MILLS
SAMPLED BY: T. JOHNCOX
LOCATION: MINETTO, NY
CUSTOMER PO: N/A
LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE COMPLETED	FLAGS
Chloromethane	ND	2.19	µg/kg	11/22/2005	
cis-1,2-Dichloroethene	ND	2.19	µg/kg	11/22/2005	
cis-1,3-Dichloropropene	ND	2.19	µg/kg	11/22/2005	
Dibromochloromethane	ND	2.19	µg/kg	11/22/2005	
Dibromomethane	ND	2.19	µg/kg	11/22/2005	
Dichlorodifluoromethane	ND	2.19	µg/kg	11/22/2005	
Ethylbenzene	ND	2.19	µg/kg	11/22/2005	
Hexachlorobutadiene	ND	2.19	µg/kg	11/22/2005	
Isopropylbenzene	ND	2.19	µg/kg	11/22/2005	
m&p-Xylene	ND	2.19	µg/kg	11/22/2005	
Methylene Chloride	ND	2.19	µg/kg	11/22/2005	
MTBE	ND	2.19	µg/kg	11/22/2005	
n-Butylbenzene	ND	2.19	µg/kg	11/22/2005	
n-Propylbenzene	ND	2.19	µg/kg	11/22/2005	
Naphthalene	ND	2.19	µg/kg	11/22/2005	
o-Xylene	ND	2.19	µg/kg	11/22/2005	
sec-Butylbenzene	ND	2.19	µg/kg	11/22/2005	
Styrene	ND	2.19	µg/kg	11/22/2005	
tert-Butylbenzene	ND	2.19	µg/kg	11/22/2005	
Tetrachloroethene	ND	2.19	µg/kg	11/22/2005	
Toluene	ND	2.19	µg/kg	11/22/2005	
trans-1,2-Dichloroethene	ND	2.19	µg/kg	11/22/2005	
trans-1,3-Dichloropropene	ND	2.19	µg/kg	11/22/2005	
Trichloroethene	ND	2.19	µg/kg	11/22/2005	
Trichlorofluoromethane	ND	2.19	µg/kg	11/22/2005	
Vinyl Acetate	ND	2.19	µg/kg	11/22/2005	
Vinyl Chloride	ND	2.19	µg/kg	11/22/2005	

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

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NORTHEAST ANALYTICAL LABS

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11/23/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID: TP-3 5'
NEA ID: AI14381
MATRIX : SOIL
DATE SAMPLED: 11/18/2005 **TIME:** 13:30
DATE RECEIVED: 11/21/2005 **TIME:** 11:30
PROJECT: MINETTO-COLUMBIA MILLS
SAMPLED BY: T. JOHNCOX
LOCATION: MINETTO, NY
CUSTOMER PO: N/A
LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE COMPLETED	FLAGS
EPA Method 8260B					
1,1,1,2-Tetrachloroethane	ND	2.16	µg/kg	11/22/2005	
1,1,1-Trichloroethane	ND	2.16	µg/kg	11/22/2005	
1,1,2,2-Tetrachloroethane	ND	2.16	µg/kg	11/22/2005	
1,1,2-Trichloroethane	ND	2.16	µg/kg	11/22/2005	
1,1-Dichloroethane	ND	2.16	µg/kg	11/22/2005	
1,1-Dichloroethene	ND	2.16	µg/kg	11/22/2005	
1,1-Dichloropropene	ND	2.16	µg/kg	11/22/2005	
1,2,3-Trichlorobenzene	ND	2.16	µg/kg	11/22/2005	
1,2,3-Trichloropropane	ND	2.16	µg/kg	11/22/2005	
1,2,4-Trichlorobenzene	ND	2.16	µg/kg	11/22/2005	
1,2,4-Trimethylbenzene	ND	2.16	µg/kg	11/22/2005	
1,2-Dibromo-3-chloropropane	ND	2.16	µg/kg	11/22/2005	
1,2-Dibromoethane	ND	2.16	µg/kg	11/22/2005	
1,2-Dichlorobenzene	ND	2.16	µg/kg	11/22/2005	
1,2-Dichloroethane	ND	2.16	µg/kg	11/22/2005	
1,2-Dichloropropane	ND	2.16	µg/kg	11/22/2005	
1,3,5-Trimethylbenzene	ND	2.16	µg/kg	11/22/2005	
1,3-Dichlorobenzene	ND	2.16	µg/kg	11/22/2005	
1,3-Dichloropropane	ND	2.16	µg/kg	11/22/2005	
1,4-Dichlorobenzene	ND	2.16	µg/kg	11/22/2005	
2,2-Dichloropropane	ND	2.16	µg/kg	11/22/2005	
2-Butanone	ND	2.16	µg/kg	11/22/2005	
2-Chloroethylvinylether	ND	2.16	µg/kg	11/22/2005	
2-Chlorotoluene	ND	2.16	µg/kg	11/22/2005	
2-Hexanone	ND	2.16	µg/kg	11/22/2005	
4-Chlorotoluene	ND	2.16	µg/kg	11/22/2005	
4-Isopropyltoluene	ND	2.16	µg/kg	11/22/2005	
4-Methyl-2-pentanone	ND	2.16	µg/kg	11/22/2005	
Acetone	ND	10.8	µg/kg	11/22/2005	
Benzene	ND	2.16	µg/kg	11/22/2005	
Bromobenzene	ND	2.16	µg/kg	11/22/2005	
Bromochloromethane	ND	2.16	µg/kg	11/22/2005	
Bromodichloromethane	ND	2.16	µg/kg	11/22/2005	
Bromoform	ND	2.16	µg/kg	11/22/2005	
Bromomethane	ND	2.16	µg/kg	11/22/2005	
Carbon Disulfide	ND	2.16	µg/kg	11/22/2005	
Carbon Tetrachloride	ND	2.16	µg/kg	11/22/2005	
Chlorobenzene	ND	2.16	µg/kg	11/22/2005	
Chloroethane	ND	2.16	µg/kg	11/22/2005	
Chloroform	ND	2.16	µg/kg	11/22/2005	

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11/23/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-3 5'	**NEA ID:**	AI14381
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 13:30
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE COMPLETED	FLAGS
Chloromethane	ND	2.16	µg/kg	11/22/2005	
cis-1,2-Dichloroethene	ND	2.16	µg/kg	11/22/2005	
cis-1,3-Dichloropropene	ND	2.16	µg/kg	11/22/2005	
Dibromochloromethane	ND	2.16	µg/kg	11/22/2005	
Dibromomethane	ND	2.16	µg/kg	11/22/2005	
Dichlorodifluoromethane	ND	2.16	µg/kg	11/22/2005	
Ethylbenzene	ND	2.16	µg/kg	11/22/2005	
Hexachlorobutadiene	ND	2.16	µg/kg	11/22/2005	
Isopropylbenzene	ND	2.16	µg/kg	11/22/2005	
m&p-Xylene	ND	2.16	µg/kg	11/22/2005	
Methylene Chloride	ND	2.16	µg/kg	11/22/2005	
MTBE	ND	2.16	µg/kg	11/22/2005	
n-Butylbenzene	ND	2.16	µg/kg	11/22/2005	
n-Propylbenzene	ND	2.16	µg/kg	11/22/2005	
Naphthalene	ND	2.16	µg/kg	11/22/2005	
o-Xylene	ND	2.16	µg/kg	11/22/2005	
sec-Butylbenzene	ND	2.16	µg/kg	11/22/2005	
Styrene	ND	2.16	µg/kg	11/22/2005	
tert-Butylbenzene	ND	2.16	µg/kg	11/22/2005	
Tetrachloroethene	ND	2.16	µg/kg	11/22/2005	
Toluene	ND	2.16	µg/kg	11/22/2005	
trans-1,2-Dichloroethene	ND	2.16	µg/kg	11/22/2005	
trans-1,3-Dichloropropene	ND	2.16	µg/kg	11/22/2005	
Trichloroethene	ND	2.16	µg/kg	11/22/2005	
Trichlorofluoromethane	ND	2.16	µg/kg	11/22/2005	
Vinyl Acetate	ND	2.16	µg/kg	11/22/2005	
Vinyl Chloride	ND	2.16	µg/kg	11/22/2005	

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

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NORTHEAST ANALYTICAL LABS

CERTIFICATE OF ANALYSIS
11/30/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-1 9-10'	**NEA ID:**	AI14379
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 12:10
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
EPA Method 8270C					
1,2,4-Trichlorobenzene	ND	831	µg/kg	11/23/2005	
1,2-Dichlorobenzene	ND	831	µg/kg	11/23/2005	
1,3-Dichlorobenzene	ND	831	µg/kg	11/23/2005	
1,4-Dichlorobenzene	ND	831	µg/kg	11/23/2005	
2,4,5-Trichlorophenol	ND	831	µg/kg	11/23/2005	
2,4,6-Trichlorophenol	ND	831	µg/kg	11/23/2005	
2,4-Dichlorophenol	ND	831	µg/kg	11/23/2005	
2,4-Dimethylphenol	ND	831	µg/kg	11/23/2005	
2,4-Dinitrophenol	ND	831	µg/kg	11/23/2005	
2,4-Dinitrotoluene	ND	831	µg/kg	11/23/2005	
2,6-Dinitrotoluene	ND	831	µg/kg	11/23/2005	
2-Chloronaphthalene	ND	831	µg/kg	11/23/2005	
2-Chlorophenol	ND	831	µg/kg	11/23/2005	
2-Methylnaphthalene	ND	831	µg/kg	11/23/2005	
2-Methylphenol	ND	831	µg/kg	11/23/2005	
2-Nitroaniline	ND	831	µg/kg	11/23/2005	
2-Nitrophenol	ND	831	µg/kg	11/23/2005	
3,3'-Dichlorobenzidine	ND	831	µg/kg	11/23/2005	
3-Nitroaniline	ND	831	µg/kg	11/23/2005	
4,6-Dinitro-2-methylphenol	ND	831	µg/kg	11/23/2005	
4-Bromophenyl-phenylether	ND	831	µg/kg	11/23/2005	
4-Chloro-3-methylphenol	ND	831	µg/kg	11/23/2005	
4-Chloroaniline	ND	831	µg/kg	11/23/2005	
4-Chlorophenyl-phenylether	ND	831	µg/kg	11/23/2005	
4-Methylphenol	ND	831	µg/kg	11/23/2005	
4-Nitroaniline	ND	831	µg/kg	11/23/2005	
4-Nitrophenol	ND	831	µg/kg	11/23/2005	

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11/30/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-1 9-10'	**NEA ID:**	AI14379
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 12:10
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
Acenaphthene	ND	831	µg/kg	11/23/2005	
Acenaphthylene	ND	831	µg/kg	11/23/2005	
Anthracene	ND	831	µg/kg	11/23/2005	
Benzo(a)anthracene	2110	831	µg/kg	11/23/2005	
Benzo(a)pyrene	1650	831	µg/kg	11/23/2005	
Benzo(b)fluoranthene	1350	831	µg/kg	11/23/2005	
Benzo(g,h,i)perylene	894	831	µg/kg	11/23/2005	
Benzo(k)fluoranthene	1440	831	µg/kg	11/23/2005	
bis(2-chloroethoxy)methane	ND	831	µg/kg	11/23/2005	
bis(2-chloroethyl)ether	ND	831	µg/kg	11/23/2005	
bis(2-Chloroisopropyl)ether	ND	831	µg/kg	11/23/2005	
bis(2-Ethylhexyl)phthalate	2220	831	µg/kg	11/23/2005	
Butylbenzylphthalate	ND	831	µg/kg	11/23/2005	
Carbazole	ND	831	µg/kg	11/23/2005	
Chrysene	1890	831	µg/kg	11/23/2005	
Di-n-butylphthalate	ND	831	µg/kg	11/23/2005	
Di-n-octylphthalate	ND	831	µg/kg	11/23/2005	
Dibenz(a,h)anthracene	ND	831	µg/kg	11/23/2005	
Dibenzofuran	ND	831	µg/kg	11/23/2005	
Diethylphthalate	ND	831	µg/kg	11/23/2005	
Dimethylphthalate	ND	831	µg/kg	11/23/2005	
Fluoranthene	5380	831	µg/kg	11/23/2005	
Fluorene	ND	831	µg/kg	11/23/2005	
Hexachlorobenzene	ND	831	µg/kg	11/23/2005	
Hexachlorobutadiene	ND	831	µg/kg	11/23/2005	
Hexachlorocyclopentadiene	ND	831	µg/kg	11/23/2005	
Hexachloroethane	ND	831	µg/kg	11/23/2005	
Indeno(1,2,3-cd)pyrene	ND	831	µg/kg	11/23/2005	
Isophorone	ND	831	µg/kg	11/23/2005	

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CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-1 9-10'	**NEA ID:**	AI14379
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 12:10
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
N-Nitroso-di-n-propylamine	ND	831	µg/kg	11/23/2005	
N-Nitrosodiphenylamine	ND	831	µg/kg	11/23/2005	
Naphthalene	ND	831	µg/kg	11/23/2005	
Nitrobenzene	ND	831	µg/kg	11/23/2005	
Pentachlorophenol	ND	831	µg/kg	11/23/2005	
Phenanthrene	2830	831	µg/kg	11/23/2005	
Phenol	ND	831	µg/kg	11/23/2005	
Pyrene	4440	831	µg/kg	11/23/2005	

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

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Robert E. Wagner, Laboratory Director

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CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-2 5'	**NEA ID:**	AI14380
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 13:00
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
EPA Method 8270C					
1,2,4-Trichlorobenzene	ND	361	µg/kg	11/23/2005	
1,2-Dichlorobenzene	ND	361	µg/kg	11/23/2005	
1,3-Dichlorobenzene	ND	361	µg/kg	11/23/2005	
1,4-Dichlorobenzene	ND	361	µg/kg	11/23/2005	
2,4,5-Trichlorophenol	ND	361	µg/kg	11/23/2005	
2,4,6-Trichlorophenol	ND	361	µg/kg	11/23/2005	
2,4-Dichlorophenol	ND	361	µg/kg	11/23/2005	
2,4-Dimethylphenol	ND	361	µg/kg	11/23/2005	
2,4-Dinitrophenol	ND	361	µg/kg	11/23/2005	
2,4-Dinitrotoluene	ND	361	µg/kg	11/23/2005	
2,6-Dinitrotoluene	ND	361	µg/kg	11/23/2005	
2-Chloronaphthalene	ND	361	µg/kg	11/23/2005	
2-Chlorophenol	ND	361	µg/kg	11/23/2005	
2-Methylnaphthalene	ND	361	µg/kg	11/23/2005	
2-Methylphenol	ND	361	µg/kg	11/23/2005	
2-Nitroaniline	ND	361	µg/kg	11/23/2005	
2-Nitrophenol	ND	361	µg/kg	11/23/2005	
3,3'-Dichlorobenzidine	ND	361	µg/kg	11/23/2005	
3-Nitroaniline	ND	361	µg/kg	11/23/2005	
4,6-Dinitro-2-methylphenol	ND	361	µg/kg	11/23/2005	
4-Bromophenyl-phenylether	ND	361	µg/kg	11/23/2005	
4-Chloro-3-methylphenol	ND	361	µg/kg	11/23/2005	
4-Chloroaniline	ND	361	µg/kg	11/23/2005	
4-Chlorophenyl-phenylether	ND	361	µg/kg	11/23/2005	
4-Methylphenol	ND	361	µg/kg	11/23/2005	
4-Nitroaniline	ND	361	µg/kg	11/23/2005	
4-Nitrophenol	ND	361	µg/kg	11/23/2005	

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CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-2 5'	**NEA ID:**	AI14380
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 13:00
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
Acenaphthene	ND	361	µg/kg	11/23/2005	
Acenaphthylene	ND	361	µg/kg	11/23/2005	
Anthracene	ND	361	µg/kg	11/23/2005	
Benzo(a)anthracene	ND	361	µg/kg	11/23/2005	
Benzo(a)pyrene	ND	361	µg/kg	11/23/2005	
Benzo(b)fluoranthene	ND	361	µg/kg	11/23/2005	
Benzo(g,h,i)perylene	ND	361	µg/kg	11/23/2005	
Benzo(k)fluoranthene	ND	361	µg/kg	11/23/2005	
bis(2-chloroethoxy)methane	ND	361	µg/kg	11/23/2005	
bis(2-chloroethyl)ether	ND	361	µg/kg	11/23/2005	
bis(2-Chloroisopropyl)ether	ND	361	µg/kg	11/23/2005	
bis(2-Ethylhexyl)phthalate	ND	361	µg/kg	11/23/2005	
Butylbenzylphthalate	ND	361	µg/kg	11/23/2005	
Carbazole	ND	361	µg/kg	11/23/2005	
Chrysene	ND	361	µg/kg	11/23/2005	
Di-n-butylphthalate	ND	361	µg/kg	11/23/2005	
Di-n-octylphthalate	ND	361	µg/kg	11/23/2005	
Dibenz(a,h)anthracene	ND	361	µg/kg	11/23/2005	
Dibenzofuran	ND	361	µg/kg	11/23/2005	
Diethylphthalate	ND	361	µg/kg	11/23/2005	
Dimethylphthalate	ND	361	µg/kg	11/23/2005	
Fluoranthene	ND	361	µg/kg	11/23/2005	
Fluorene	ND	361	µg/kg	11/23/2005	
Hexachlorobenzene	ND	361	µg/kg	11/23/2005	
Hexachlorobutadiene	ND	361	µg/kg	11/23/2005	
Hexachlorocyclopentadiene	ND	361	µg/kg	11/23/2005	
Hexachloroethane	ND	361	µg/kg	11/23/2005	
Indeno(1,2,3-cd)pyrene	ND	361	µg/kg	11/23/2005	
Isophorone	ND	361	µg/kg	11/23/2005	

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CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-2 5'	**NEA ID:**	AI14380
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 13:00
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
N-Nitroso-di-n-propylamine	ND	361	µg/kg	11/23/2005	
N-Nitrosodiphenylamine	ND	361	µg/kg	11/23/2005	
Naphthalene	ND	361	µg/kg	11/23/2005	
Nitrobenzene	ND	361	µg/kg	11/23/2005	
Pentachlorophenol	ND	361	µg/kg	11/23/2005	
Phenanthrene	ND	361	µg/kg	11/23/2005	
Phenol	ND	361	µg/kg	11/23/2005	
Pyrene	ND	361	µg/kg	11/23/2005	

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

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Robert E. Wagner, Laboratory Director

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CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-3 5'	**NEA ID:**	AI14381
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 13:30
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
EPA Method 8270C					
1,2,4-Trichlorobenzene	ND	369	µg/kg	11/23/2005	
1,2-Dichlorobenzene	ND	369	µg/kg	11/23/2005	
1,3-Dichlorobenzene	ND	369	µg/kg	11/23/2005	
1,4-Dichlorobenzene	ND	369	µg/kg	11/23/2005	
2,4,5-Trichlorophenol	ND	369	µg/kg	11/23/2005	
2,4,6-Trichlorophenol	ND	369	µg/kg	11/23/2005	
2,4-Dichlorophenol	ND	369	µg/kg	11/23/2005	
2,4-Dimethylphenol	ND	369	µg/kg	11/23/2005	
2,4-Dinitrophenol	ND	369	µg/kg	11/23/2005	
2,4-Dinitrotoluene	ND	369	µg/kg	11/23/2005	
2,6-Dinitrotoluene	ND	369	µg/kg	11/23/2005	
2-Chloronaphthalene	ND	369	µg/kg	11/23/2005	
2-Chlorophenol	ND	369	µg/kg	11/23/2005	
2-Methylnaphthalene	ND	369	µg/kg	11/23/2005	
2-Methylphenol	ND	369	µg/kg	11/23/2005	
2-Nitroaniline	ND	369	µg/kg	11/23/2005	
2-Nitrophenol	ND	369	µg/kg	11/23/2005	
3,3'-Dichlorobenzidine	ND	369	µg/kg	11/23/2005	
3-Nitroaniline	ND	369	µg/kg	11/23/2005	
4,6-Dinitro-2-methylphenol	ND	369	µg/kg	11/23/2005	
4-Bromophenyl-phenylether	ND	369	µg/kg	11/23/2005	
4-Chloro-3-methylphenol	ND	369	µg/kg	11/23/2005	
4-Chloroaniline	ND	369	µg/kg	11/23/2005	
4-Chlorophenyl-phenylether	ND	369	µg/kg	11/23/2005	
4-Methylphenol	ND	369	µg/kg	11/23/2005	
4-Nitroaniline	ND	369	µg/kg	11/23/2005	
4-Nitrophenol	ND	369	µg/kg	11/23/2005	

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CUSTOMER ID:	TP-3 5'	**NEA ID:**	AI14381
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 13:30
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
Acenaphthene	ND	369	µg/kg	11/23/2005	
Acenaphthylene	ND	369	µg/kg	11/23/2005	
Anthracene	ND	369	µg/kg	11/23/2005	
Benzo(a)anthracene	ND	369	µg/kg	11/23/2005	
Benzo(a)pyrene	ND	369	µg/kg	11/23/2005	
Benzo(b)fluoranthene	ND	369	µg/kg	11/23/2005	
Benzo(g,h,i)perylene	ND	369	µg/kg	11/23/2005	
Benzo(k)fluoranthene	ND	369	µg/kg	11/23/2005	
bis(2-chloroethoxy)methane	ND	369	µg/kg	11/23/2005	
bis(2-chloroethyl)ether	ND	369	µg/kg	11/23/2005	
bis(2-Chloroisopropyl)ether	ND	369	µg/kg	11/23/2005	
bis(2-Ethylhexyl)phthalate	ND	369	µg/kg	11/23/2005	
Butylbenzylphthalate	ND	369	µg/kg	11/23/2005	
Carbazole	ND	369	µg/kg	11/23/2005	
Chrysene	ND	369	µg/kg	11/23/2005	
Di-n-butylphthalate	ND	369	µg/kg	11/23/2005	
Di-n-octylphthalate	ND	369	µg/kg	11/23/2005	
Dibenz(a,h)anthracene	ND	369	µg/kg	11/23/2005	
Dibenzofuran	ND	369	µg/kg	11/23/2005	
Diethylphthalate	ND	369	µg/kg	11/23/2005	
Dimethylphthalate	ND	369	µg/kg	11/23/2005	
Fluoranthene	ND	369	µg/kg	11/23/2005	
Fluorene	ND	369	µg/kg	11/23/2005	
Hexachlorobenzene	ND	369	µg/kg	11/23/2005	
Hexachlorobutadiene	ND	369	µg/kg	11/23/2005	
Hexachlorocyclopentadiene	ND	369	µg/kg	11/23/2005	
Hexachloroethane	ND	369	µg/kg	11/23/2005	
Indeno(1,2,3-cd)pyrene	ND	369	µg/kg	11/23/2005	
Isophorone	ND	369	µg/kg	11/23/2005	

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CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-3 5'	**NEA ID:**	AI14381
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 13:30
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE ANALYZED	FLAGS
N-Nitroso-di-n-propylamine	ND	369	µg/kg	11/23/2005	
N-Nitrosodiphenylamine	ND	369	µg/kg	11/23/2005	
Naphthalene	ND	369	µg/kg	11/23/2005	
Nitrobenzene	ND	369	µg/kg	11/23/2005	
Pentachlorophenol	ND	369	µg/kg	11/23/2005	
Phenanthrene	ND	369	µg/kg	11/23/2005	
Phenol	ND	369	µg/kg	11/23/2005	
Pyrene	ND	369	µg/kg	11/23/2005	

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

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Robert E. Wagner, Laboratory Director

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CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-1 9-10'	**NEA ID:**	AI14379
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 12:10
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	METHOD	FLAGS	RESULTS	PQL	UNITS	DATE ANALYZED
Aluminum	SW-846 6010B		9010	1.96	mg/kg	11/29/2005
Antimony	SW-846 6010B		3.67	1.96	mg/kg	11/29/2005
Arsenic	SW-846 6010B		4.07	1.96	mg/kg	11/29/2005
Barium	SW-846 6010B		405	0.196	mg/kg	11/29/2005
Beryllium	SW-846 6010B		0.352	0.196	mg/kg	11/29/2005
Cadmium	SW-846 6010B		1.31	0.196	mg/kg	11/29/2005
Calcium	SW-846 6010B		87049	490	mg/kg	11/29/2005
Chromium	SW-846 6010B		76.8	0.490	mg/kg	11/29/2005
Cobalt	SW-846 6010B		4.80	0.196	mg/kg	11/29/2005
Copper	SW-846 6010B		77.0	0.490	mg/kg	11/29/2005
Digestion for Solids	SW-846 3050B		COMPLETED			11/28/2005
Iron	SW-846 6010B		13600	1.96	mg/kg	11/29/2005
Lead	SW-846 6010B		1090	0.980	mg/kg	11/29/2005
Magnesium	SW-846 6010B		6240	2.45	mg/kg	11/29/2005
Manganese	SW-846 6010B		548	0.196	mg/kg	11/29/2005
Mercury	SW-846 7471A		0.179	0.0122	mg/kg	11/29/2005
Nickel	SW-846 6010B		14.7	0.490	mg/kg	11/29/2005
Potassium	SW-846 6010B		1480	2.45	mg/kg	11/29/2005
Selenium	SW-846 6010B		ND	2.94	mg/kg	11/29/2005
Silver	SW-846 6010B		ND	0.490	mg/kg	11/29/2005
Sodium	SW-846 6010B		786	4.90	mg/kg	11/29/2005
Thalium	SW-846 6010B		ND	1.96	mg/kg	11/29/2005
Vanadium	SW-846 6010B		26.2	0.490	mg/kg	11/29/2005
Zinc	SW-846 6010B		669	0.196	mg/kg	11/29/2005

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

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Robert E. Wagner, Laboratory Director

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STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-2 5'	**NEA ID:**	AI14380
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 13:00
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	METHOD	FLAGS	RESULTS	PQL	UNITS	DATE ANALYZED
Aluminum	SW-846 6010B		11600	1.60	mg/kg	11/29/2005
Antimony	SW-846 6010B		2.56	1.60	mg/kg	11/29/2005
Arsenic	SW-846 6010B		1.76	1.60	mg/kg	11/29/2005
Barium	SW-846 6010B		75.9	0.160	mg/kg	11/29/2005
Beryllium	SW-846 6010B		0.885	0.160	mg/kg	11/29/2005
Cadmium	SW-846 6010B		0.450	0.160	mg/kg	11/29/2005
Calcium	SW-846 6010B		2010	4.00	mg/kg	11/29/2005
Chromium	SW-846 6010B		16.1	0.400	mg/kg	11/29/2005
Cobalt	SW-846 6010B		10.1	0.160	mg/kg	11/29/2005
Copper	SW-846 6010B		3.53	0.400	mg/kg	11/29/2005
Digestion for Solids	SW-846 3050B		Completed			11/28/2005
Iron	SW-846 6010B		22000	1.60	mg/kg	11/29/2005
Lead	SW-846 6010B		3.42	0.799	mg/kg	11/29/2005
Magnesium	SW-846 6010B		5610	2.00	mg/kg	11/29/2005
Manganese	SW-846 6010B		309	0.160	mg/kg	11/29/2005
Mercury	SW-846 7471A		0.0674	0.0154	mg/kg	11/29/2005
Nickel	SW-846 6010B		23.7	0.400	mg/kg	11/29/2005
Potassium	SW-846 6010B		2570	2.00	mg/kg	11/29/2005
Selenium	SW-846 6010B		ND	2.40	mg/kg	11/29/2005
Silver	SW-846 6010B		ND	0.400	mg/kg	11/29/2005
Sodium	SW-846 6010B		64.2	4.00	mg/kg	11/29/2005
Thalium	SW-846 6010B		ND	1.60	mg/kg	11/29/2005
Vanadium	SW-846 6010B		15.0	0.400	mg/kg	11/29/2005
Zinc	SW-846 6010B		45.6	0.160	mg/kg	11/29/2005

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:

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NORTHEAST ANALYTICAL LABS

CERTIFICATE OF ANALYSIS
11/30/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

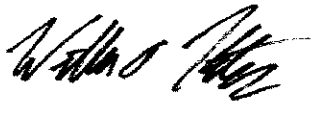
CUSTOMER ID:	TP-3 5'	**NEA ID:**	AI14381
MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005 **TIME:** 13:30
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

PARAMETER PERFORMED	METHOD	FLAGS	RESULTS	PQL	UNITS	DATE ANALYZED
Aluminum	SW-846 6010B		12300	1.78	mg/kg	11/29/2005
Antimony	SW-846 6010B		3.05	1.78	mg/kg	11/29/2005
Arsenic	SW-846 6010B		ND	1.78	mg/kg	11/29/2005
Barium	SW-846 6010B		69.5	0.178	mg/kg	11/29/2005
Beryllium	SW-846 6010B		0.952	0.178	mg/kg	11/29/2005
Cadmium	SW-846 6010B		0.482	0.178	mg/kg	11/29/2005
Calcium	SW-846 6010B		2170	4.45	mg/kg	11/29/2005
Chromium	SW-846 6010B		16.4	0.445	mg/kg	11/29/2005
Cobalt	SW-846 6010B		11.2	0.178	mg/kg	11/29/2005
Copper	SW-846 6010B		6.04	0.445	mg/kg	11/29/2005
Digestion for Solids	SW-846 3050B		Completed			11/28/2005
Iron	SW-846 6010B		22700	1.78	mg/kg	11/29/2005
Lead	SW-846 6010B		2.90	0.890	mg/kg	11/29/2005
Magnesium	SW-846 6010B		6110	2.22	mg/kg	11/29/2005
Manganese	SW-846 6010B		295	0.178	mg/kg	11/29/2005
Mercury	SW-846 7471A		0.0183	0.0179	mg/kg	11/29/2005
Nickel	SW-846 6010B		24.0	0.445	mg/kg	11/29/2005
Potassium	SW-846 6010B		2440	2.22	mg/kg	11/29/2005
Selenium	SW-846 6010B		ND	2.67	mg/kg	11/29/2005
Silver	SW-846 6010B		ND	0.445	mg/kg	11/29/2005
Sodium	SW-846 6010B		52.9	4.45	mg/kg	11/29/2005
Thalium	SW-846 6010B		ND	1.78	mg/kg	11/29/2005
Vanadium	SW-846 6010B		16.1	0.445	mg/kg	11/29/2005
Zinc	SW-846 6010B		49.1	0.178	mg/kg	11/29/2005

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE:



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11/30/2005
STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID: TP-1 9-10'
NEA ID: AI14379 **NEA LRF:** 0511145-02
MATRIX: SOIL
DATE SAMPLED: 11/18/2005 **TIME:** 12:10:00
DATE RECEIVED: 11/21/2005 **TIME:** 11:30
PROJECT: MINETTO-COLUMBIA MILLS
SAMPLED BY: T. JOHNCOX
LOCATION: MINETTO, NY
CUSTOMER PO: N/A
LAB ELAP#: 11078

Parameter Performed	Results	PQL	UNITS	DATE ANALYZED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.175	ug/g	11/29/2005	U
Aroclor 1221	ND	0.175	ug/g	11/29/2005	U
Aroclor 1232	ND	0.175	ug/g	11/29/2005	U
Aroclor 1242	1.82	0.175	ug/g	11/29/2005	AD
Aroclor 1248	ND	0.175	ug/g	11/29/2005	U
Aroclor 1254	ND	0.175	ug/g	11/29/2005	U
Aroclor 1260	ND	0.175	ug/g	11/29/2005	U
Total PCB Amount > Reporting Limit	1.82				

Note: ND(Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL(Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

Laboratory Qualifiers:
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
Note: There were several non-target peaks.

AUTHORIZED SIGNATURE:

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11/30/2005
STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID: TP-2 5'
NEA ID: AI14380 **NEA LRF:** 0511145-03
MATRIX: SOIL
DATE SAMPLED: 11/18/2005 **TIME:** 13:00:00
DATE RECEIVED: 11/21/2005 **TIME:** 11:30
PROJECT: MINETTO-COLUMBIA MILLS
SAMPLED BY: T. JOHNCOX
LOCATION: MINETTO, NY
CUSTOMER PO: N/A
LAB ELAP#: 11078

Parameter Performed	Results	PQL	UNITS	DATE ANALYZED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.0522	ug/g	11/29/2005	U
Aroclor 1221	ND	0.0522	ug/g	11/29/2005	U
Aroclor 1232	ND	0.0522	ug/g	11/29/2005	U
Aroclor 1242	ND	0.0522	ug/g	11/29/2005	U
Aroclor 1248	ND	0.0522	ug/g	11/29/2005	U
Aroclor 1254	ND	0.0522	ug/g	11/29/2005	U
Aroclor 1260	ND	0.0522	ug/g	11/29/2005	U
Total PCB Amount > Reporting Limit	ND				U

Note: ND(Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL(Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

Laboratory Qualifiers:

AUTHORIZED SIGNATURE:

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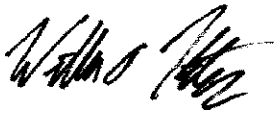

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11/30/2005
STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

CUSTOMER ID: TP-3 5' **NEA ID:** AI14381 **NEA LRF:** 0511145-04

MATRIX: SOIL **DATE SAMPLED:** 11/18/2005 **TIME:** 13:30:00

DATE RECEIVED: 11/21/2005 **TIME:** 11:30 **PROJECT:** MINETTO-COLUMBIA MILLS

SAMPLED BY: T. JOHNCOX **LOCATION:** MINETTO, NY

CUSTOMER PO: N/A **LAB ELAP#:** 11078

Parameter Performed	Results	PQL	UNITS	DATE ANALYZED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.0519	ug/g	11/29/2005	U
Aroclor 1221	ND	0.0519	ug/g	11/29/2005	U
Aroclor 1232	ND	0.0519	ug/g	11/29/2005	U
Aroclor 1242	ND	0.0519	ug/g	11/29/2005	U
Aroclor 1248	ND	0.0519	ug/g	11/29/2005	U
Aroclor 1254	ND	0.0519	ug/g	11/29/2005	U
Aroclor 1260	ND	0.0519	ug/g	11/29/2005	U
Total PCB Amount > Reporting Limit	ND				U

Note: ND(Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL(Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

Laboratory Qualifiers:

AUTHORIZED SIGNATURE:

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11/23/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

NEA ID:	CUSTOMER ID :	METHOD:	RESULTS	PQL	UNITS	DATE ANALYZED
AI14379	TP-1 9-10'	Method 8015 GRO for Solids	13100	11200	µg/kg	11/23/2005

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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11/23/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

NEA ID:	CUSTOMER ID :	METHOD:	RESULTS	PQL	UNITS	DATE ANALYZED
AI14380	TP-2 5'	Method 8015 GRO for Solids	10500	9910	µg/kg	11/23/2005

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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11/23/2005

STEWART'S
PO BOX 435
SARATOGA SPRINGS, NY 12866
CONTACT: CHAD FOWLER

MATRIX :	SOIL	**DATE SAMPLED:**	11/18/2005
DATE RECEIVED:	11/21/2005 **TIME:** 11:30	**PROJECT:**	MINETTO-COLUMBIA MILLS
SAMPLED BY:	T. JOHNCOX	**LOCATION:**	MINETTO, NY
CUSTOMER PO:	N/A	**LAB ELAP #:**	11078

NEA ID:	CUSTOMER ID :	METHOD:	RESULTS	PQL	UNITS	DATE ANALYZED
AI14381	TP-3 5'	Method 8015 GRO for Solids	9980	9570	µg/kg	11/23/2005

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL
PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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APPENDIX B

Soil Boring Logs

ENSR

Client: Stewarts Shops			**BORING ID: MW 1**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* 1 of 1
Drilling Method: Hollow Stem Auger			*Monitoring Well Installed:*
Sample Type(s): 2" by 2' Split Spoons	*Boring Diameter:* 6"		*Screened Interval:* 5-15'
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/19/06 13:00	*Depth of Boring:* 15'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished* 1/19/06 13:20	*Water Level:* 7'

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1		1-2		7"	0.9		0'-2' Brown organic SILT, underlain by brick, 2" of gray brown silty SAND, some mottling/staining, little Gravel, moist.		
2									
3		2-4		8"	0.4		2'-4' Same as above except moist.		
4									
5		4-6		1'	0.8		4'-6' Tannish gray brown silty SAND, little Gravel, moist		
6									
7		6-8		2'	0.5		6'-8' Same as above, except wet at 7'.		
8									
9		8-10		2'	0.9		8'-10' Gray brown clayey SILT, some Sand, little Gravel, moist to wet.		
10									
11		10-12		2'	1.3		10'-12' Same as above	MW-1 (10-12')	10-12' t=10:50
12									
13		12-13.5		1'	0.8		12'-14' Same as above		
14							Refusal at 13.5' Augered to 14'		
		14-15		1'	0.6		14'-15' Same as above, some Gravel, wet.		
15									
16							Refusal at 15'		
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops

Project Number: 10275-008-300

Site Location: Columbia Mills, Minetto, NY

***BORING ID:* SB 9/MW-2**

Coordinates: *Elevation:* *Sheet:* *1 of 1*

Drilling Method: Direct-push/Monitoring Well installed viaHollow Stem Auger *Monitoring Well Installed:* *Y*

Sample Type(s): *2 inch by 4 foot MacroCore Samp.* *Boring Diameter:* *6"* *Screened Interval:* *14-4'*

Weather: *Logged By:* SRD *Date/Time Started:* 1/20/06 8:31 *Depth of Boring:* 14'

Drilling Contractor: Parratt-Wolff, Inc. *Ground Elevation:* *Date/Time Finishec* 1/20/06 9:06 *Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							0'-4' Reddish brown fine to coarse SAND, some Gravel up to 2" subrounded to angular, moist, bottom 2" wet.		
2		0-4		2'					
3					42.3				
4									
5							4'-8' Same as above		
6		4-8		8"	0.6				
7									
8									
9					0.5		8'-9' Brown fine to coarse SAND, some Gravel, moist.		
10		8-12		3'			9'-11' Dark gray/brown fine to coarse SAND, some Gravel, little Silt, moist to wet.		
11					0.9				
12					2.8		11'-13' Same as above, some coal.		
13		12-14		2'	2		12'-13.5' Same as above. Wet with heavy sheen.	SB-9 (12-14)*	12-14' t=9:20
14							13.5-14' Yellow GRAVEL. Refusal at 14'		
15									
16									
17									
18									
19									
20									

NOTES: *Duplicate sample collected from same interval (12'-14') and labeled SB90 collected at 9:21.

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops		***BORING ID:*** **MW 3**
Project Number: 10275-008-300		
Site Location: Columbia Mills, Minetto, NY		
Coordinates:	*Elevation:*	*Sheet:* 1 of 1
Drilling Method: Hollow Stem Auger		*Monitoring Well Installed:* Y
Sample Type(s): 2" by 2' Split Spoons	*Boring Diameter:* 6"	*Screened Interval* 14-4'
Weather:	*Logged By:* SRD / *Date/Time Started:* 1/24/06 11:11	*Depth of Boring:* 14'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:* / *Date/Time Finished* 1/24/06 12:00	*Water Level:* 6'

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1		0.5-2		1.5'	0.4		0-0.5' Concrete 0.5-2' Brown SAND, some Silt, little Gravel.		
2									
3		2-4		2'	0.8		2'-2.5' Brown fine to coarse SAND, trace Silt, moist to wet. 2.5'-4' Brown fine to coarse SAND, some Silt, moist.		
4									
5		4-6		2'	0.1		4'-5' Brown fine to coarse SAND, trace Silt, Moist to wet. 5'-6' Brown fine to coarse SAND, little Silt, moist.		
6									
7		6-8		2'	0.7		6'-7' Same as above except wet. 7'-7.5' Same as above except moist to wet.		
8							7.5'-8' Same as above except some Clay.		
9				2'	0.4		8'-8.5' Brown fine to medium SAND, some Silt, saturated. 8.5'-9.5' Brown clayey SILT	MW-3	9-10'
10		8-10			0.6		9.5'-10' Brown fine to coarse SAND, some Gravel.	(9-10')	t=14:00
11		10-12		2'	0.7		(note: possibly 2' of slough, difficult to tell) Brown clayey SILT for approximately half the spoon, brown fine to coarse SAND and GRAVEL for the rest of the spoon.		
12									
13		12-14			0.5		12'-14' Brown fine to coarse SAND, some Gravel.		
14									
15							Refusal at 14'		
16									
17									
18									
19									
20									

NOTES: *All PID readings are questionable; meter indicated the lamp had been clogged.

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops

Project Number: 10275-008-300

Site Location: Columbia Mills, Minetto, NY

***BORING ID:* MW 4**

Coordinates: *Elevation:* *Sheet:* 1 of 1

Drilling Method: Hollow Stem Auger *Monitoring Well Installed:* Y

Sample Type(s): 2" by 2' split spoon *Boring Diameter:* 6" *Screened Interval* 13.8-3.8'

Weather: *Logged By:* SRD *Date/Time Started:* 01/25/06 *Depth of Boring:* 13.8'

Drilling Contractor: Parratt-Wolff, Inc. *Ground Elevation:* *Date/Time Finished* 01/25/06 *Water Level:* 8'

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1		0.5-2		1'			6" concrete 0'-2' Gray brown f-c SAND, some Silt, little Gravel.		
2									
3		2-4		8"	0.9		Same as above, some brick.		
4									
5		4-6		1'	0.7		Same as above		
6									
7		6-8		6"	0.6		Same as above		
8									
9		8-10		1.5'	1		8'-10' Brown silty SAND, some Gravel, some staining at 9.5', moist to wet, no odor.		
10									
11		10-12		1.5'	1.7		10'-12' Brown sandy SILT, some Gravel, some staining at 10', moist.	MW-4 (10-12)	10-12' t=11:15
12									
13		12-13.8		1'	1		12'-13.8' Same as above except trace Clay, moist to wet.		
14									
15							Refusal at 13.8'		
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops			**BORING ID: MW 5**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* 1 of 1
Drilling Method: Hollow Stem Auger			*Monitoring Well Installed:* Y
Sample Type(s): 2" by 2' Split Spoons	*Boring Diameter:* 6"		*Screened Interval:* 14-4'
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/23/06 10:21	*Depth of Boring:* 14'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished:* 1/23/06 12:30	*Water Level:* 7'

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1		0.5-2		7"	0.4		0-0.5' Concrete 0.5'-2' Reddish brown silty SAND, some Gravel, moist.		
2									
3		2-4		2'	0.3 0.3		2'-4' Same as above.		
4									
5		4-6		1.5'	0.5		4'-6' Same as above, wet at 6'.		
6									
7		6-8		14"	0.8		6'-8' Brown to light brown silty SAND, some Gravel up to 1.5", moist to wet.		
8									
9		8-9		8"	1.7		8'-9' Brown silty SAND, some Gravel, wet. Refusal at 9', augered to 10'.		
10								MW-5 (10-11)	10-11' 12:52
11		10-11		1'	1.8		10'-11' Tannish brown silty SAND, some Gravel, moist to wet. Refusal at 11', augered to 12'.		
12									
13		12-12.5		4"	1.9		12'-12.5' Same as above. Refusal at 12.5'. Augered to 14'		
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops

Project Number: 10275-008-300

Site Location: Columbia Mills, Minetto, NY

***BORING ID:* SB 1**

Coordinates: *Elevation:* *Sheet:* 1 of 1

Drilling Method: Direct push *Monitoring Well Installed:* NA

Sample Type(s): *Boring Diameter:* 2" *Screened Interval:* NA

Weather: *Logged By:* SRD *Date/Time Started:* 1/19/06 13:00 *Depth of Boring:* 11'

Drilling Contractor: Parratt-Wolff, Inc. *Ground Elevation:* *Date/Time Finished* 1/19/06 13:30 *Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1–4		0-4		2"	0.0		0'-4' Brown silty SAND, some Gravel up to 2" subrounded to angular, dry to moist.	SB-1 (1-4)	1-4' 13:30
5–8		4-8		1'	0.0		4'-8' Weathered brick, wood, some sandy SILT, moist to wet.		
9–11		8-11		1.5'	0.0		8'-11' Gray brown sandy SILT, some Gravel up to 1.5" subrounded to angular, dry to moist		
12–20							Probe refusal at 11'.		

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops			***BORING ID:*** **SB 2**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* *1 of 1*
Drilling Method: Direct push			*Monitoring Well Installed:* *N*
Sample Type(s):	*Boring Diameter:*		*Screened Interval:* *NA*
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/19/06 11:50	*Depth of Boring:* 9.5'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished* 1/19/06 12:00	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							0'-1' Organic soil		
2		0-4		3'	36.5		1'-2' Brown silty SAND, little Gravel, wet. 2'-4' Tannish Brown sandy SILT, some Gravel up to 1.5" subrounded to angular, dry to moist.		
3									
4									
5									
6		4-8		3'	28.3		4'-8' Brown sandy SILT, some Gravel up to 1" subrounded to angular, moist to wet. Dry between 7.5 and 8'.	SB-2 (5-7)	5-7' t=12:30
7									
8									
9		8-9.5			34.6		Gravely SILT, some Gravel up to 2" subrounded to angular, dry.		
10							Refusal at 9.5'		
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops			***BORING ID:*** **SB 3**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* 1 of 1
Drilling Method: Direct push			*Monitoring Well Installed:* N
Sample Type(s): 2" by 4' MacroCore	*Boring Diameter:* 2"		*Screened Interval:* NA
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/19/06 10:30	*Depth of Boring:* 9'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished* 1/19/06 11:20	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							6" Organic Soil grades to		
2		0-4		2.5'			Gray brown sandy SILT, some Gravel up to 2" subrounded to angular, moist to wet.		
3					13.8				
4									
5					6.4		4'-5.5' Same as above, saturated	SB-3 (4-6)	4-6' t=11:45
6		4-8		4'			5.5'-8' Tannish gray SILT, some Gravel up to 1", trace Clay, dry.		
7									
8									
9		8-9		2'	11.8		8'-9' Same as above		
10							Refusal at 9'		
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops		***BORING ID:*** **SB 4**
Project Number: 10275-008-300		
Site Location: Columbia Mills, Minetto, NY		
Coordinates:	*Elevation:*	*Sheet:* 1 of 1
Drilling Method: Direct push		*Monitoring Well Installed:* N
Sample Type(s): 2" by 4' Macro Core	*Boring Diameter:* 2"	*Screened Interval:* NA
Weather:	*Logged By:* SRD / *Date/Time Started:* 1/19/06 10:03	*Depth of Boring:* 12'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:* / *Date/Time Finished:* 1/19/06 10:20	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1–4		0-4		2'	72.5		0'-4' Reddish brown fine to coarse SAND, some Silt, some Gravel up to 2" grades to Orange Brown sandy SILT, some Gravel up to 0.5".		
5–8		4-8		4'	95.7		4'-5' Tan silty SAND. 5'-7.5' Orange silty SAND, trace Gravel, moist. 7.5'-8' Gray silty SAND, moist to wet.		
9–12		8-12		3.5'	109		8'-10' Same as above, wet. 10'-12' Gray sandy SILT, little Gravel, dry to moist.	SB-4 (8-11)	8-11 t=10:30
13–20							Refusal at 12'		

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops		***BORING ID:*** **SB 5**
Project Number: 10275-008-300		
Site Location: Columbia Mills, Minetto, NY		
Coordinates:	*Elevation:*	*Sheet:* 1 of 1
Drilling Method: Direct push		*Monitoring Well Installed:* N
Sample Type(s): 2" by 4' Macro Core	*Boring Diameter:* 2"	*Screened Interval:* NA
Weather:	*Logged By:* SRD / *Date/Time Started:* 1/19/06 9:40	*Depth of Boring:* 11'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:* / *Date/Time Finished:* 1/19/06 9:55	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1–4		0-4		3.8'	0.0		0'-4' Reddish brown fine to coarse SAND, some Gravel up to 1" subrounded to angular, little Silt, moist, no odor.	SB-5 (0-6)	0-6 t=10:00
5–8		4-8		3.5'	0.0		4-6.5' Same as above 6.5'-8' Reddish brown sandy SILT, some Gravel.		
9–11		8-11			0.0		8'-11' Same as above		
12							refusal at 11'		
13–20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops			***BORING ID:*** **SB 6**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* *1 of 1*
Drilling Method: Direct push			*Monitoring Well Installed:* *N*
Sample Type(s): *2" by 4' MacroCore*	*Boring Diameter:* *2"*		*Screened Interval:* *NA*
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/19/06 13:33	*Depth of Boring:* 9'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished* 1/19/06 14:07	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1									
2		0-4		2"	63.4		0'-4' Brown sandy SILT, some Gravel up to 1.5" subrounded to angular, moist.		
3									
4									
5								SB-6	4-8
6		4-8		1.5'	85.2		4'-8' Same as above	(4-8)	t=14:00
7									
8									
		8-9		0			No recovery.		
9									
							Refusal at 9'.		
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops			***BORING ID:*** **SB 7**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* 1 of 1
Drilling Method: Direct push			*Monitoring Well Installed:* N
Sample Type(s): 2" by 4' MacroCore	*Boring Diameter:* 2"		*Screened Interval:* NA
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/20/06 7:55	*Depth of Boring:* 12'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished* 1/20/06 8:10	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1–4		0-4		2'	43		0'-4' Reddish brown silty SAND, some Gravel up to 2" subrounded to angular, moist, no odor.		
5–8		4-8		5"	44.3		4'-8' Brown medium to coarse SAND, some Gravel up to 1" subrounded to angular, moist to wet. (note: 3" of broken concrete at bottom of sleeve.)		
9–10		8-12		3'	28.2		8'-10' Broken brick and concrete, some Gravel, little fine to coarse Sand, trace Silt, moist.		
11–12					51.7		10'-12' Gray brown fine to coarse SAND, some Gravel, little Clay, moist to wet.	SB-7 (10-12)	10-12 t=08:15
13–20							Refusal at 12'		

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops			***BORING ID:*** **SB 8**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* *1 of 1*
Drilling Method: Direct push			*Monitoring Well Installed:* *N*
Sample Type(s): *2" by 4' MacroCore*	*Boring Diameter:* *2"*		*Screened Interval:* *NA*
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/20/06 8:20	*Depth of Boring:* 11'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished* 1/20/06 8:27	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							0'-4' Reddish brown silty SAND, some Gravel, moist.		
2				2'					
		0-4							
3					51.9				
4									
5							4'-5' Same as above.		
							5'-7' Mix of broken concrete and gray brown silty SAND (weathered concrete), brick, moist.		
6		4-8		2'					
7							7'-8' Brownish gray silty SAND, some Gravel, moist to wet.		
8									
9							8'-10' Same as above.	SB-8	8-11
		8-11		1'	1.6			(8-11)	t=8:45
10									
							10'-11' Red rock and SAND, grades to gray fine to coarse SAND, some Gravel up to 2", angular.		
11									
12							Refusal at 11'		
13									
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops		***BORING ID:*** **SB 10**
Project Number: 10275-008-300		
Site Location: Columbia Mills, Minetto, NY		
Coordinates:	*Elevation:*	*Sheet:* 1 of 1
Drilling Method: Direct push		*Monitoring Well Installed:* N
Sample Type(s): 2" by 4' MacroCore	*Boring Diameter:* 2"	*Screened Interval:* NA
Weather:	*Logged By:* SRD / *Date/Time Started:* 1/20/06 10:54	*Depth of Boring:* 12'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:* / *Date/Time Finished:* 1/20/06 11:20	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							0'-4' Reddish brown silty SAND, some Gravel up to 1" angular, moist.		
2		0-4		1.5'	1.8				
3									
4							(note: concrete in shoe)		
5							9" slough, 2" concrete. 4'-4.5' Tannish brown SILT, some Sand, little Gravel, moist.		
6		4-8		4'	1.7		4.5'-7' Tan/yellow-brown clayey SILT, some Sand, little Gravel, moist.		
7									
8					1.6		7'-8' Reddish brown silty SAND/fine SAND, some Gravel up to 1.5" subrounded to angular, moist.		
9					2		8'-11' Brown GRAVEL, some fine to coarse Sand, little Silt, saturated.	SB-10 (8-10)	8-10 t-12:00
10		8-12		3.5'					
11									
12					1.7		11'-12' Reddish brown silty SAND, some Gravel, moist to dry.		
13							Refusal at 12'		
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops		***BORING ID:*** **SB 11**
Project Number: 10275-008-300		
Site Location: Columbia Mills, Minetto, NY		
Coordinates:	*Elevation:*	*Sheet:* 1 of 1
Drilling Method: Direct push		*Monitoring Well Installed:* NA
Sample Type(s): 2" by 4' MacroCore	*Boring Diameter:* 2"	*Screened Interval:* NA
Weather:	*Logged By:* SRD / *Date/Time Started:* 1/20/06 9:59	*Depth of Boring:* 11.5'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:* / *Date/Time Finished:* 1/20/06 10:35	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1		0-4		4'			0'-2' Gray brown silty SAND, some Gravel up to 1", moist, some staining 1.5'-2'.		
2					1.9				
3							2'-4' Orange brown sandy SILT, some Gravel, moist.		
4					1.7				
5		4-8		3'			4'-6' Same as above		
6					1.4				
7					1.7		6'-7' Orange brown silty SAND, some Gravel up to 1" angular, wet.		
8							7'-8' Orange brown sandy SILT, some Gravel, moist.		
9		8-11.5		3'	2.4		8'-10' Orange brown GRAVEL, some fine to coarse Sand, saturated.	SB-11 (8-10)	8-10' t=11:40
10									
11					2.1		10'-11.5' Orange brown fine to coarse SAND, some Gravel up to 1.5" angular, saturated.		
12							Refusal at 11.5'		
13									
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops			***BORING ID:*** **SB 12**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* *1 of 1*
Drilling Method: Direct push			*Monitoring Well Installed:* *N*
Sample Type(s): *2" by 4' MacroCore*	*Boring Diameter:* *2"*		*Screened Interval:* *NA*
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/20/06	*Depth of Boring:* 12
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished* 1/20/06	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							0'-4' Tannish brown SILT, some Sand, little Gravel, moist, trace staining at 1.5'.		
2		0-4		3'	1.4				
3									
4					1.4				
5							4'-5' Same as above except some dark gray mottling and wet	SB-12 (4-6)	4-6 t=13:45
6					1.5		5'-8' Same as above, wet.		
7		4-8		3'	1.5			SB-12 (6-8)	6-8 t=13:45
8									
9							8'-12' Same as above, wet.		
10		8-12		2.5	1.2				
11									
12									
13							Refusal at 12'		
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops
Project Number: 10275-008-300
Site Location: Columbia Mills, Minetto, NY
Coordinates: *Elevation:*
Drilling Method: Direct push
Sample Type(s): 2" by 4' MacroCore *Boring Diameter:* 2"

BORING ID: **SB 13**
Sheet: 1 of 1
Monitoring Well Installed: N
Screened Interval: NA

Weather:
Logged By: SRD *Date/Time Started:* 1/20/06 13:00 *Depth of Boring:* 12'
Drilling Contractor: Parratt-Wolff, Inc. *Ground Elevation:* *Date/Time Finished:* 1/20/06 13:40 *Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							0-0.5' concrete 0.5-1' Brown sandy SILT, little Gravel, dry, trace staining. 1'-4' Reddish brown sandy SILT, some Gravel up to 2" subrounded to angular, dry to moist.		
2		0-4		2'					
3					0.5				
4									
5							4'-6' Reddish brown sandy SILT, some Gravel moist to wet.		
6		4-8		6"	0.5				
7					11.4		6'-8' Tannish brown silty SAND, some Gravel up to 2", saturated.	SB-13 (6-8)	6-8 t=8:46
8									
9							8'-12' Tan fine to coarse SAND, some Gravel up to 1" moist to dry.		
10		8-12		4'	76.6				
11									
12					2.8				
13							Refusal at 12'		
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops		***BORING ID:*** **SB 14**
Project Number: 10275-008-300		
Site Location: Columbia Mills, Minetto, NY		
Coordinates:	*Elevation:*	*Sheet:* 1 of 1
Drilling Method: Direct push		*Monitoring Well Installed:* N
Sample Type(s): 2" by 4' MacroCore	*Boring Diameter:* 2"	*Screened Interval:* NA
Weather:	*Logged By:* SRD / *Date/Time Started:* 1/20/06 14:30	*Depth of Boring:* 11'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:* / *Date/Time Finished:* 1/20/06 15:00	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							0'-4' Reddish brown fine to coarse SAND, some Gravel, moist.		
2		0-4		2.2'					
3					1.9				
4									
5							4" slough 4'-7' Brown fine to coarse SAND, little Gravel, wet to saturated.		
6		4-8		3'	1.8				
7									
8							7'-8' Reddish brown fine to coarse SAND, some Gravel.		
9							8'-10' Brown fine to coarse SAND, little Gravel, trace Silt, saturated.		
10		8-11		3'	2			SB-14 (10-11)	8-11' t=16:25
11					2.4		10'-11' Brown Gravel, some Sand, wet to saturated.		
12							refusal at 11'		
13									
14									
15									
16									
17									
18									
19									
20									

NOTES: Sample SB 14 (10-11) was collected over the interval between 8 and 11 feet bgs. This was necessary as there insufficient recovery in the 10-11 foot interval for analyses requested.

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops			***BORING ID:*** **SB 15**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* *1 of 1*
Drilling Method: Direct push			*Monitoring Well Installed:* *N*
Sample Type(s): *2"by 4' MacroCore*	*Boring Diameter:* *2"*		*Screened Interval:* *NA*
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/23/06 8:40	*Depth of Boring:* 11.5
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished* 1/23/06 9:00	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							0-0.5' Concrete		
					0.5		0.5-2' Reddish brown silty SAND, some Gravel, dry to moist.		
2		0-4		2.5'					
					0.8		2'-4' sandy SILT, some Gravel, moist.		
3									
4									
5					0.8		4'-6' Same as above except saturated.	SB-15 (4-6)	4-6 t=9:30
6		4-8		2.5'					
					0.4		6'-8' Few inches of rock overlying red brown clayey fine SAND, wet to saturated.		
7									
8									
9					0.8		8'-11.5' Red brown clayey SILT, some SAND, some Gravel, moist.		
10		8-11.5							
					0.7				
11									
12							Refusal at 11.5'		
13									
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops			***BORING ID:*** **SB 16**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* 1 of 1
Drilling Method: Direct push			*Monitoring Well Installed:* N
Sample Type(s): 2" by 4' MacroCore	*Boring Diameter:* 2"		*Screened Interval:* NA
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/20/06 10:54	*Depth of Boring:* 11'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished* 1/20/06 13:20	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							0'-2' fine to medium SAND, moist.		
2		0-4		2'			2'-2.5' dark borwn rock fragments.		
3							2.5-3' Brown f-c SAND, moist.		
4					0.9		3'-4' Brown sandy SILT, moist.		
5							4'-7' Brown silty SAND, some Gravel, wet.		
6		4-8		3'	1.9				
7					1.5				
8							7'-8' Reddish brown SILT, some Gravel, little Sand, moist.	SB-16 (8-9.5)	8-9.5 16:00
9					1.2		8'-9.5' Brown fine to coarse SAND, some SILT.		
10		8-11		3'			9.5'-11' Brown Gravel, some fine to coarse Sand, wet.		
11					1.6				
12							Refusal at 11'		
13									
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

ENSR

Client: Stewarts Shops			***BORING ID:*** **SB 17**
Project Number: 10275-008-300			
Site Location: Columbia Mills, Minetto, NY			
Coordinates:	*Elevation:*		*Sheet:* *1 of 1*
Drilling Method: Direct push			*Monitoring Well Installed:* *N*
Sample Type(s): *2" by 4' MacroCore*	*Boring Diameter:* *2"*		*Screened Interval:* *NA*
Weather:	*Logged By:* SRD	*Date/Time Started:* 1/23/06 15:03	*Depth of Boring:* 10'
Drilling Contractor: Parratt-Wolff, Inc.	*Ground Elevation:*	*Date/Time Finished* 1/23/06 15:20	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1							0'-4' Reddish brown silty SAND, some Gravel up to 2" subrounded to angular, dry to moist.		
2		0-4		2'	0.5				
3					0.5				
4									
5							4'-6' Same as above		
6		4-8		2'	1.9				
7							6'-8' Same as above, except moist to wet.		
8					1.4				
9		8-10		1.2'	0.8		8'-10' Gray-brown silty SAND, some Gravel up to 1.5" subrounded to angular, moist to wet, some staining in shoe.	SB-17 (8-10)	8-10 t=15:25
10									
11							Refusal at 10'		
12									
13									
14									
15									
16									
17									
18									
19									
20									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

APPENDIX C

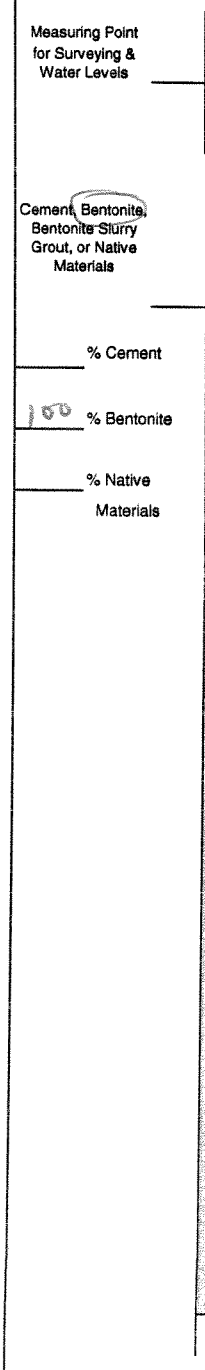
Monitoring Well Construction Details

ENSR INTERNATIONAL

Client: Stewarts Shops
Project Number: 10275-008-300
Site Location: Columbia Mills, Minetto NY.
Well Location: SB-9 Coords:
Method: HSA

WELL ID: MW-1
Date Installed: 1-19-06
Inspector: Sean Dolan
Contractor: Parratt Wolff

MONITORING WELL CONSTRUCTION DETAIL



	Depth from G.S. (feet)	Elevation(feet) Datum relative
Top of Steel Guard Pipe (FLUSH-MOUNT)	0.0	100.50
Top of Riser Pipe	0.39	100.11
Ground Surface (G.S.)	0.0	100.50
Riser Pipe: Length 4.61		
Inside Diameter (ID) 2"		
Type of Material PVC		
Bottom of Steel Guard Pipe	NA	NA
Top of Bentonite	1.0	99.5
Bentonite Seal Thickness 2'		
Top of Sand	3.0	97.5
Top of Screen	5.0	95.5
▲ Stabilized Water Level		
Screen: Length 10'		
Inside Diameter (ID) 2"		
Slot Size 0.010"		
Type of Material PVC		
Type/Size of Sand 0 - US SILICA		
Sand Pack Thickness 12'		
Bottom of Screen	15.0	85.5
Bottom of Tail Pipe:	15.0	85.5
Bottom of Borehole	15.0	85.5

Borehole Diameter: 8"

Approved: _____ Signature _____ Date

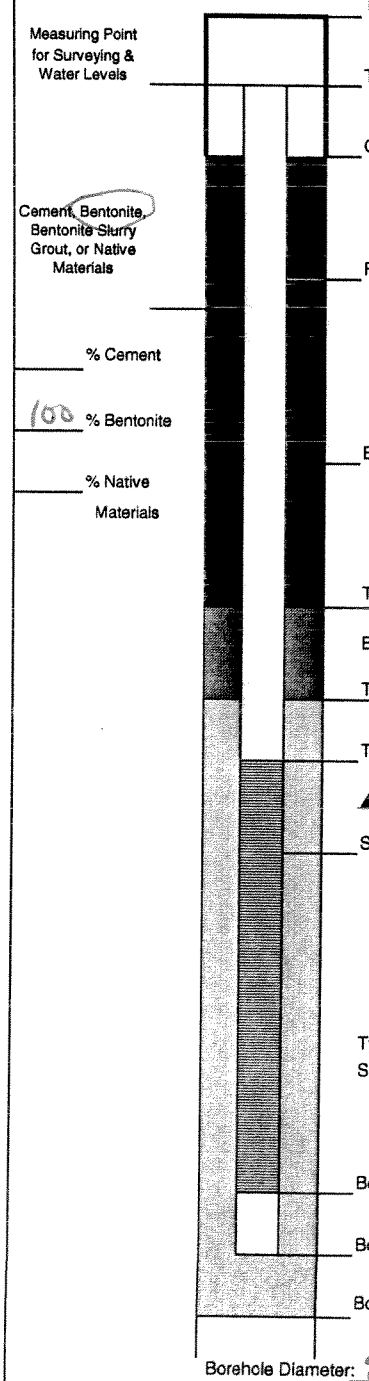
Describe Measuring Point:
High point on PVC casing

ENSR INTERNATIONAL

Client: Stewarts Shops
Project Number: 10275-008-300
Site Location: Columbia mills, Mineito, NY.
Well Location: Coords:
Method: HSA

WELL ID: MW-2
Date Installed: 1-20-06
Inspector: Sean Dolan
Contractor: Parratt Wolff

MONITORING WELL CONSTRUCTION DETAIL



	Depth from G.S. (feet)	Elevation(feet) Datum relative
Top of Steel Guard Pipe (FLUSH MOUNT)	0.0	101.00
Top of Riser Pipe	0.59	100.41
Ground Surface (G.S.)	0.0	101.00
Riser Pipe: Length 3.41		
Inside Diameter (ID) 2"		
Type of Material PVC		
Bottom of Steel Guard Pipe	NA	NA
Top of Bentonite	1.0	100.00
Bentonite Seal Thickness 1'		
Top of Sand	2.0	98.00
Top of Screen	4.0	96.00
▲ Stabilized Water Level		
Screen: Length 10		
Inside Diameter (ID) 2"		
Slot Size 0.010"		
Type of Material PVC		
Type/Size of Sand 0-05 Silica		
Sand Pack Thickness 12'		
Bottom of Screen	14'	86.00
Bottom of Tail Pipe:	14'	86.00
Bottom of Borehole	14'	86.00

Borehole Diameter: 8"

Approved:

Describe Measuring Point:
High Point on PVC

Signature

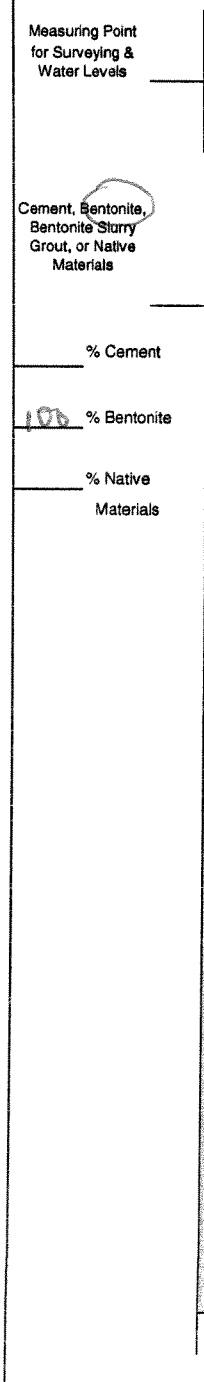
Date

ENSR INTERNATIONAL

Client: STEWARTS SHOPS
Project Number: 10275-008-300
Site Location: Columbia Mills Minetto N.Y.
Well Location: Coords:
Method: HSA

WELL ID: MW-3
Date Installed: 1/24/06
Inspector: Sean Dolan
Contractor: Parratt Wolff

MONITORING WELL CONSTRUCTION DETAIL



	Depth from G.S. (feet)	Elevation(feet) Datum relative
Top of Steel Guard Pipe (FLUSH MOUNT)	0.0	100.06
Top of Riser Pipe	0.51	99.55
Ground Surface (G.S.)	0.0	100.06
Riser Pipe: Length 3.49		
Inside Diameter (ID) 2"		
Type of Material PVC		
Bottom of Steel Guard Pipe	NA	NA
Top of Bentonite	1'	99.06
Bentonite Seal Thickness 1'		
Top of Sand	2'	98.06
Top of Screen	4'	96.06
▲ Stabilized Water Level		
Screen: Length 10'		
Inside Diameter (ID) 2"		
Slot Size 0.010"		
Type of Material PVC		
Type/Size of Sand 0-US SILICA		
Sand Pack Thickness 12'		
Bottom of Screen	14'	86.06
Bottom of Tail Pipe:	14'	86.06
Bottom of Borehole	14'	86.06

Borehole Diameter: 8"

Approved:

Describe Measuring Point:
High Point on PVC Riser

Signature

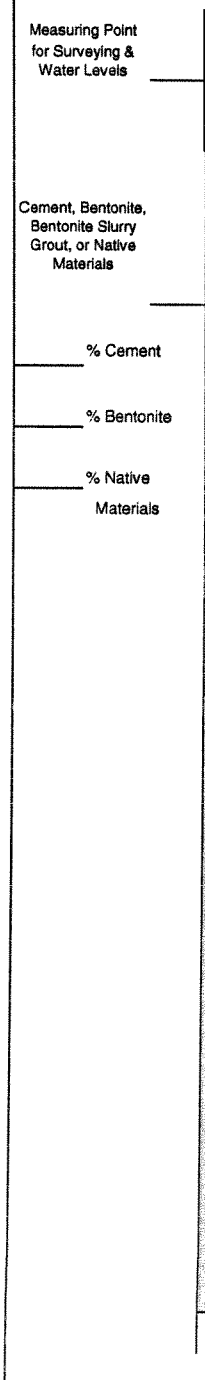
Date

ENSR INTERNATIONAL

Client: Stewarts Shops
Project Number: 10275-008-300
Site Location: Columbia Mills, Miletto, New York
Well Location: MW-4 Coords:
Method: HSA

WELL ID: MW-4
Date Installed: 1-25-06
Inspector: Sean Dolan
Contractor: Parratt Wolff.

MONITORING WELL CONSTRUCTION DETAIL



	Depth from G.S. (feet)	Elevation(feet) Datum relative
Top of Steel Guard Pipe	0.0	100.00
Top of Riser Pipe	0.32	99.68
Ground Surface (G.S.)	0.0	100.00
Riser Pipe: Length 3.48		
Inside Diameter (ID) 2"		
Type of Material PVC		
Bottom of Steel Guard Pipe	NA	NA
Top of Bentonite	1.0	99.00
Bentonite Seal Thickness 0.8		
Top of Sand	1.8	98.2
Top of Screen	3.8	96.2
▲ Stabilized Water Level		
Screen: Length 10'		
Inside Diameter (ID) 2"		
Slot Size 0.010"		
Type of Material PVC		
Type/Size of Sand Q-US SILICA		
Sand Pack Thickness 12'		
Bottom of Screen	13.8	86.2
Bottom of Tail Pipe:	13.8	86.2
Bottom of Borehole	13.8	86.2

Borehole Diameter: 8"

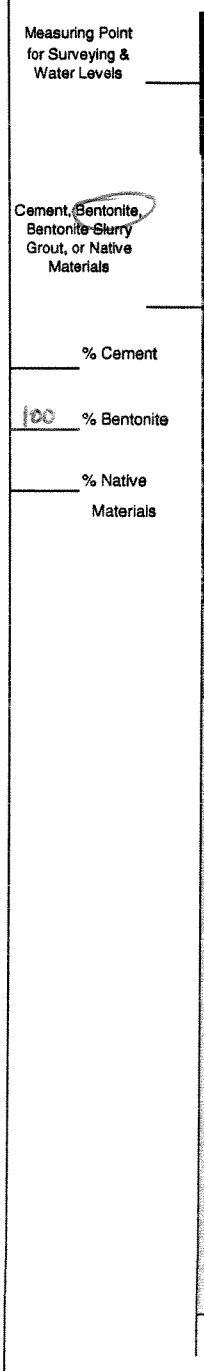
Approved: _____ Signature _____ Date

Describe Measuring Point:
High Point on PVC Casing

ENSR INTERNATIONAL

Client: Stewarts Shops	**WELL ID: MW-5**
Project Number: 10275-008-300	
Site Location: Columbia Mills, Minetto, New York	Date Installed: 1-23-06
Well Location: MW-5 Coords:	Inspector: Sean Dolan
Method: HSA	Contractor: Parratt Wolff

MONITORING WELL CONSTRUCTION DETAIL



	Depth from G.S. (feet)	Elevation(feet) Datum relative
Top of Steel Guard Pipe (FLUSH MOUNT)	0.0	100.00
Top of Riser Pipe	0.7'	99.30
Ground Surface (G.S.)	0.0	100.00
Riser Pipe: Length 3.3		
Inside Diameter (ID) 2"		
Type of Material PVC		
Bottom of Steel Guard Pipe	NA	NA
Top of Bentonite	1'	99.00
Bentonite Seal Thickness 1'		
Top of Sand	2'	98.00
Top of Screen	4'	96.00
▲ Stabilized Water Level		
Screen: Length 10'		
Inside Diameter (ID) 2"		
Slot Size 0.010"		
Type of Material PVC		
Type/Size of Sand 0-US SILICA		
Sand Pack Thickness 12'		
Bottom of Screen	14'	86.0
Bottom of Tail Pipe:	14'	86.0
Bottom of Borehole	14'	86.0

Borehole Diameter: 8"

Approved:

Describe Measuring Point:
Highpoint on PVC risers

Signature

Date

APPENDIX D

Monitoring Well Development Records

ENSR

Well/Piez. ID: MW1

Well/Piezometer Development Record

Client: Stewarts Shops Site Location: Fulton, NY

Project No: 10275-008-30 Date: ~~1/25/06~~ 2/1/06 Developer: _____

WELL/PIEZOMETER DATA

Well ☒ Piezometer ☐ Diameter 2" Material PVC

Measuring Point Description highest Geology at Screen Interval (if known) silt

Depth to Top of Screen (ft.) 4'

Depth to Bottom of Screen (ft.) 14' Time of Water Level Measurement 12:15

Total Well Depth (ft.) 14' Calculate Purge Volume (gal.) 0.46

Depth to Static Water Level (ft.) ~~dry~~ 11.16 Disposal Method drum

Wellhead PID/FID _____

Original Well Development ☒ Redevelopment ☐ Date of Original Development _____

DEVELOPMENT METHOD bailer **PURGE METHOD** _____

Field Testing Equipment Used: Make Model Serial Number

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (10 well volumes) 4.6 gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☐	☑	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

purged dry twice and allowed to recharge as much as ~~practical~~ practical.

Signature _____ Date: 2/1/06

ENSR

Well/Piez. ID: MW 2/SB-9

Well/Piezometer Development Record

Client: Stewarts Shops Site Location: Fulton NY

Project No: 10175-008-300 Date: 1/25/06 Developer: S. Dolan

WELL/PIEZOMETER DATA

Well ☒ Piezometer ☐ Diameter 2" Material PVC

Measuring Point Description highest Geology at Screen Interval (if known) f-c Sand

Depth to Top of Screen (ft.) 4

Depth to Bottom of Screen (ft.) 14 Time of Water Level Measurement 13:35

Total Well Depth (ft.) 14 Calculate Purge Volume (gal.) 1.63

Depth to Static Water Level (ft.) ~4' Disposal Method drum

Wellhead PID/FID

Original Well Development ☒ Redevelopment ☐ Date of Original Development 1/25/06

DEVELOPMENT METHOD whale pump **PURGE METHOD**

Field Testing Equipment Used: Make Model Serial Number

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (10 well volumes) 1.63 gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Signature _____ Date: 1/25/06

ENSR

Well/Piez. ID: MW 3

Well/Piezometer Development Record

Client: Stewarts Shops Site Location: Fulton NY

Project No: 10215-008.300 Date: 1/26/06 Developer: S. DOLAN

WELL/PIEZOMETER DATA

Well ☒ Piezometer ☐ Diameter 2" Material PVC

Measuring Point Description highest

Depth to Top of Screen (ft.) 4'

Depth to Bottom of Screen (ft.) 14'

Total Well Depth (ft.) 14'

Depth to Static Water Level (ft.) 4.55'

Geology at Screen Interval (if known) f-c SAND

Time of Water Level Measurement 9:30

Calculate Purge Volume (gal.) 1.54

Disposal Method drum

Wellhead PID/FID

Original Well Development ☒ Redevelopment ☐

Date of Original Development

DEVELOPMENT METHOD whale pump

PURGE METHOD

Field Testing Equipment Used: Make Model Serial Number

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (10 well volumes) 15.4 gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Signature _____ Date: 1/26/06

ENSR

Well/Piez. ID: MW4

Well/Piezometer Development Record

Client: Stewart's Shops Site Location: Fulton, NY

Project No: ~~10275~~ 10275-008-300 Date: 1/25/06 Developer: S. Polan

WELL/PIEZOMETER DATA

Well ☒ Piezometer ☐ Diameter 2" Material PVC

Measuring Point Description highest Geology at Screen Interval (if known) silty SAND

Depth to Top of Screen (ft.) 4'

Depth to Bottom of Screen (ft.) 14' Time of Water Level Measurement 12:55

Total Well Depth (ft.) 14' Calculate Purge Volume (gal.) 1.14

Depth to Static Water Level (ft.) ~7' Disposal Method drum

Wellhead PID/FID

Original Well Development ☒ Redevelopment ☐ Date of Original Development 1/25/06

DEVELOPMENT METHOD whale pump **PURGE METHOD**

Field Testing Equipment Used: Make Model Serial Number

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (1 well volumes) 11.4 gallons

Maximum Turbidity Allowed 0 NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☐	☒	☒
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Purged dry.

Signature [signature] Date: 1/25/06

ENSR

Well/Piez. ID: MW-5

Well/Piezometer Development Record

Client: Stewarts Shops Site Location: Ft Hon, NY

Project No: 10275-008-300 Date: 1/25/06 Developer: S. Dolan

WELL/PIEZOMETER DATA

Well ☒ Piezometer ☐ Diameter 2" Material SP PVC

Measuring Point Description highest ~~point~~ Geology at Screen Interval (if known) silty SAND

Depth to Top of Screen (ft.) 4'

Depth to Bottom of Screen (ft.) 14' Time of Water Level Measurement 11:10

Total Well Depth (ft.) 14' Calculate Purge Volume (gal.) ~1.75 gal

Depth to Static Water Level (ft.) 3.25' Disposal Method Drum

Wellhead PID/FID

Original Well Development ☒ Redevelopment ☐ Date of Original Development 1/25/06

DEVELOPMENT METHOD whale pump **PURGE METHOD**

Field Testing Equipment Used: Make Model Serial Number

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) ~18 gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Signature _____ Date: 1/25/06

DTW MW2 13.7'

APPENDIX E

Groundwater Sample Collection Records

13.26

ENSR INTERNATIONAL

Well ID: MW-1

Low Flow Ground Water Sample Collection Record

Client: Stewart's Shop
Project No: 10275 008 300
Site Location: Columbia Mills
Weather Conds: Overcast & Cold
Date: 2/1/06
Time: Start 1015 (am/pm)
Finish _____ am/pm
Collector(s): John Imhoff / Sean Dolan

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 14.68
b. Water Table Depth 11.16
c. Length of Water Column 3.52 (a-b)
d. Calculated System Volume (see back) 0.57
Casing Diameter/Material 2" PVC

2. WELL PURGE DATA

a. Purge Method: Purged 3 gallons (5.25 volume) during development in AM

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	±1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used: Make: Horiba U Model: U-22 Serial Number: _____

Time (24hr)	Volume Removed (Liters)	Temp. (°C/F)	pH (SU)	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
		6.02	8.04	0.705	7.29	133	11.2			None

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☐	☒
Have parameters stabilized	☐	☐	☒

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: Peristaltic Pump

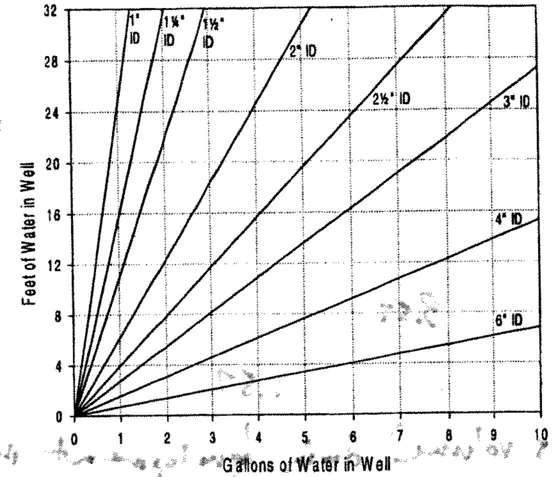
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-1	VOA 40ml	2	HCl	VOCs	1600
MW-1	500 ml Plastic	1	HNO_3	Metals	1600
MW-1	1 L Amber glass	1	None	PCBs	1600
MW-1	1 L Amber glass	1	None	SVOCs	1600
MW-1	" " "	2		Dioxins/Furans	1600

Comments: Low Flow Not Appropriate due to" slow recharge. Several volumes purged during well development in AM. Sample collected directly with Peristaltic Pump. Well went dry during sampling. Let well recharge for 20 min and completed sample collection & field parameter measurement.

Signature: J. Imhoff Date: 2/1/06

Form00

Purge Volume Calculation



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

ENSR INTERNATIONAL

Well ID: MW-2

Low Flow Ground Water Sample Collection Record

Client: STEWARTS
Project No: 10275-008-300
Site Location: COLD, Furnies overcast Columbia Mills
Weather Conds: ↓
Date: 2/1/06
Time: Start 1145 am/pm
Finish _____ am/pm
Collector(s): Sean D. John Imhoff

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 14.02'
b. Water Table Depth 7.61'
c. Length of Water Column 6.39 (a-b)
d. Calculated System Volume (see back) 10 g/vol
Casing Diameter/Material _____

2. WELL PURGE DATA

a. Purge Method: GeoPump Peristaltic Pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
Horiba	U-22	PINE # 01519

Time (24hr)	Volume Removed (Liters)	Temp. (°C/F)	pH (SU)	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1145	START									
1150	0	7.73	7.76	0.480	2.80	6	18.5	250 ml/min	7.61	
11:59	1	8.17	7.79	0.503	1.31	-23	25.0	250	7.65	naptha-like odo
12:05	1.5	8.19	7.68	0.519	0.87	-47	28.8	250	7.66	
12:10	1.75	8.39	7.58	0.529	0.52	-58	23	250	7.66	
12:15	2.0	8.34	7.52	0.539	0.41	-62	21.5	250	7.66	
12:20	2.2	8.38	7.50	0.537	0.30	-67	16.6	250	7.66	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☒
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.
~~GeoPump Peristaltic Pump~~

3. SAMPLE COLLECTION: Method: GeoPump Peristaltic 100-200 ml/min

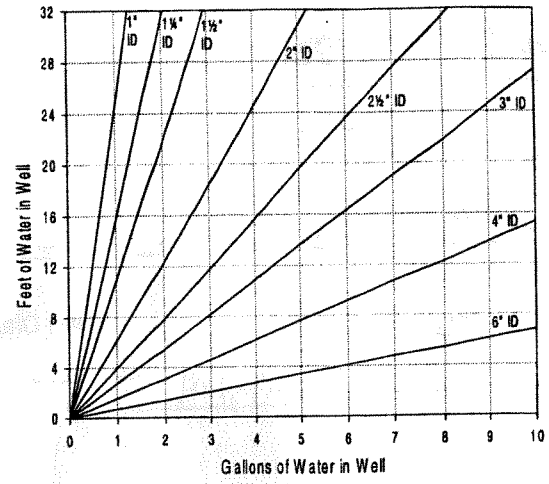
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-2	40 ml VOA	2	HCl	VOCs	1230
MW-2	500 ml Plastic	1	HNO_3	METALS	1230
MW-2	L Amber	1	N.P	SVOCs	1230
MW-2	L Amber	1	"	PCBs	1230
MW-2	L Amber	2	"	Dioxins/Furans	1230

Comments _____

Signature _____ Date 2/1/2006

Form600

Purge Volume Calculation



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
12:25	2.5	8.49	7.46	0.544	0.20	-71	12.9	250	7.66	
12:28	2.7	8.44	7.45	0.548	0.17	-73	10.8	250	7.66	
12:30	2.7	8.44	7.45	0.548	0.17	-73	10.8	250	7.66	Sample collected

Sample MW-2 Collected 12:30

LAST SET of Field DATA COLLECTED at 12:25

ENSR INTERNATIONAL

Well ID: MW-3

Low Flow Ground Water Sample Collection Record

Client: B. Stewarts
Date: 2/1/06
Time: Start 1310 am/pm
Finish 1348 am/pm
Project No: 10275-033-300
Site Location: Columbia Mills, Minetto NY
Weather Conds: snowing
Collector(s): S. Dolan / [illegible]

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 12.74
c. Length of Water Column 11.65 (a-b)
Casing Diameter/Material 2"

b. Water Table Depth ~~10.65~~ 3.35
d. Calculated System Volume (see back) 1.7

14.00
3.35
11.65

2. WELL PURGE DATA

a. Purge Method: ~~Bailer~~ GeoPump Peristaltic Pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
HORIBA	U-22	PINE 01519

Time (24hr)	Volume Removed (Liters)	Temp. (°C/F)	pH (SU)	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
13:10	Start 0								3.37	
1310	0	6.74	7.85	0.320	10.06	67	94	250 ml/min	3.39	
13:18	0.5	8.15	7.79	0.337	1.13	30	68	250	3.6	
13:24	1	8.65	7.78	0.338	1.17	36	48.5	250	3.60	
13:29	1.5	8.77	7.78	0.333	1.24	38	38.2	250	3.6	
13:35	2	8.90	7.77	0.330	1.30	39	26	250	3.6	no odor
13:43	2.5	9.07	7.76	0.325	1.42	43	17.2	250	3.6	Colorless

1345 sample

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☒
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

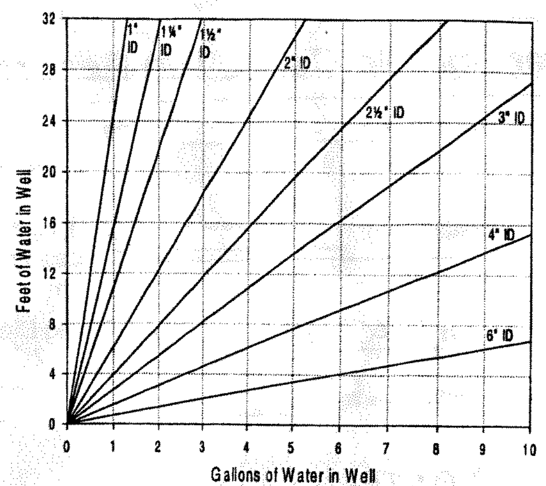
3. SAMPLE COLLECTION: Method: Low flow w/ GeoPump Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-3	40ml VOA	2	HCl	VOCs	1345
"	500 ml Plastic	1	HNO_3	~~HNO_3~~ Metals	1345
"	L Amber Glass	1	N.P.	SVOCs	1345
"	L Amber Glass	1	N.P.	PCBs	1345
"	L Amber Glass	2	N.P.	Dioxins/Furans	1345

Comments

Signature [signature]
Date 2/1/06

Purge Volume Calculation



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

ENSR INTERNATIONAL

Well ID: MW-4

Low Flow Ground Water Sample Collection Record

Client: Stewarts Date: 2/1/06 Time: Start 1420 am/pm
Project No: 10275-008-300 Finish _____ am/pm
Site Location: Columbia Mills Minetto NY
Weather Conds: Snowing ~32°F Collector(s): Sean Doran & John Imhoff

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length ≈14.24 c. Length of Water Column 5.75 (a-b) Casing Diameter/Material 2" PVC

b. Water Table Depth 8.25 d. Calculated System Volume (see back) 0.94 ~ 1.0 gal/vol

2. WELL PURGE DATA

a. Purge Method: ~~Disposable Bailers 3 volumes~~ Geopump Peristaltic Pump removed ~4 gallons w/ Disposable Bailers in Am (1)

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
Horiba	U-22	Pine 01519

Time (24hr)	Volume Removed (gallons)	Temp. (°C/F)	pH (SU)	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1420	0								8.44	
1430	0	7.49°	7.48	0.646	7.91	123	608	150		
1432	0.25	7.74	7.75	0.701	7.27	146	145	200	9.23	none
1435	0.3	7.74	7.75	0.751	7.90	153	87.0	200		
1444	1	7.83	7.75	0.772	8.34	160	65.1	200	9.80	
1450	1.2	7.63	7.75	0.765	8.46	164	37.1	200	10.08	
14:55	1.8	6.64	7.77	0.763	8.74	168	27.2	100	10.21	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☐	☒	☐

If no or N/A - Explain below.
well purged to dryness prior to Attempt at Low Flow

3. SAMPLE COLLECTION: Method: Low Flow w Peristaltic Pump

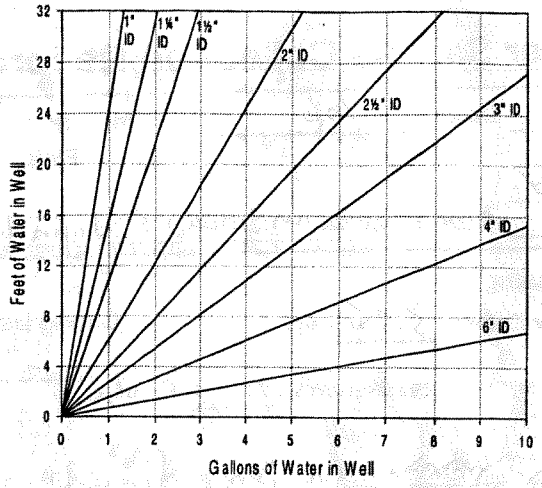
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-4	40 ml VOA	2	HCl	VOCs	1520
"	500 ml Plastic	1	HNO_3	Metals	1500
"	1L Amber Glass	1	N.P.	SVOCs	1500
"	" " "	1	N.P.	PCBs	1500
"	" " "	2	N.P.	Dioxins/furans	1500

Comments 1500 Collected Sample MW-4. Had Purged well to Dryness this Am as initial Purge method. approx 4 gallons removed. Drawdown Water Level will not equilibrate, even at ≤100 ml/min. Decision made to Collect sample.

Signature _____ Date 2/1/06

Form200

Purge Volume Calculation



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed ~~(Liters)~~ gal	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
increased flow rate to achieve										
1500	2	7.53	7.77	0.707	8.35	169	17.4	100ml	10.50	Sample no odor
1500 Sample										

ENSR INTERNATIONAL

Well ID: MW-5

Low Flow Ground Water Sample Collection Record

Client: STEWARTS Date: 2/1/06 Time: Start 0945 am/pm
Project No: 10275 008 300 Finish ____ am/pm
Site Location: Columbia mills
Weather Conds: Snowing 30-35°F Collector(s): John Imhoff/Sean Dolan

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length ~~14~~ 13.42 c. Length of Water Column ~11.05 (a-b) Casing Diameter/Material

b. Water Table Depth 2.95 d. Calculated System Volume (see back) 1.80 gal/volume

2. WELL PURGE DATA

a. Purge Method: Low flow w Geopump peristaltic pump

b. Acceptance Criteria defined (see workplan)

- Temperature 3% -D.O. 10%
- pH ±1.0 unit - ORP ± 10mV <50 NTU.
- Sp. Cond. 3% - Drawdown < 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
Horiba U-22	U-22	PINE 01519

Time (24hr)	Volume Removed (Liters)	Temp. (°C/F)	pH (SU)	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0955	0	6.02	6.55	0.28	9.13	128	154	~~2.~~	2.97	
1000	0.25gal	6.08	6.96	0.301	6.12	99	134	250ml	3.14	no odor
10:11	1 gal	5.75	7.15	0.289	5.94	93	72.1	250ml	3.21	Slight Turbidity
10:17	1.25	5.67	7.20	0.281	5.94	94	38.4	250ml	3.22	
10:22	2.0	5.54	7.25	0.275	6.00	87	23.2	250ml	3.22	
10:28	2.25	5.54	7.28	0.267	6.00	89	19.15	2.50	3.22	
								250	3.24	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☒
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: Peristaltic Pump 100-200 ml/min

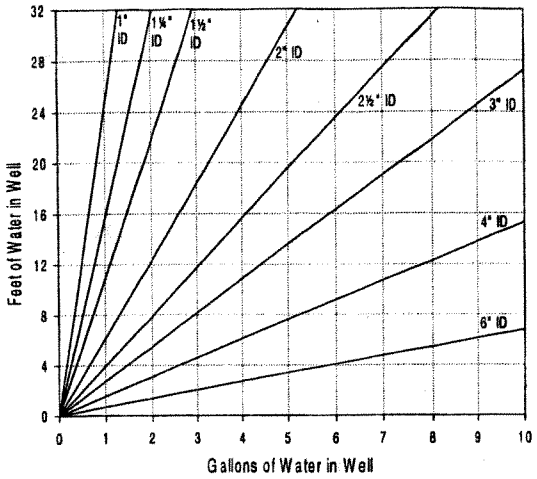
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-5	40ml VOA	2	HCL	VOCs	1035
"	500 ml	1	HNO3	Metals	1035
MW-5	L Amber	1	NA	SVOCs	1035
"	L Amber	1	NA	PCB	1035
"	L Amber	2	NA	Dioxin	1035

Comments
Duplicate of MW-5 collected as MW-5D t=0800, All Parameters

Signature [signature] Date 2/1/06

Forms00

Purge Volume Calculation



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
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1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed ~~(Liters)~~ gal	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
10:32	2.5	5.59	7.28	0.267	6.10	86	16.6	250	3.24	colorless no odor
1035	2.5+	5.60	7.30	0.263	6.08	82	13.7	250	3.24	SAMPLE collected

Sample → MW-5 & MW-50 duplicate @ 1-0500