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

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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









	Guidance	SB-3 4-6 FT	
ter	Value	µg/kg	
	25000	32000	
	20000	40000	

9	Guidance	SB-2 5-7 FT
	Value	µg/kg
	20000	32000

	Guidance	SB-1 1-4	FT
	Value	µg/kg	
	- (*) - (ž -		
e	224	680	
	61	440	
	400	600	
	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	1	
	1000	1200	
	25000	29000	
	20000	43000	J3

99	Guidance	SB 7 10-1	2 F1
48	Value	µg/kg	É
e	224	430	2
	61	560	J8
	400	400	
	100	110	-
	20000	63000	-

120	Guidance	SB-6 4-8 FT
er	Value	µg/kg
ene	1100	5400
	100	180
	10000	13000
	20000	420000

Guidance	SB 13 6-8 F	
Value	µg/kg	
 100	340	
10000	13000	

Guidance	SB 8 8-11	FT
Value	µg/kg	
224	1200	E
61	740	
400	760	E
20000	98000	-





J:\LANSTAND\120\Projects\10275008 00C_Former Columbia Mills\FIGURES\0ld Docs\FIG.5.dwg

100

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

<u>LEGEND</u>

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

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S	DATE								
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TABLES

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

Lab Sam	ple ID				L2305	49-05	L2305	49-04	L2305	49-03	L2305	49-02	L2305	49-01	L2305	49-06	L2306	59-01
Client Sa	ample 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 D	Date				1/19/2	2006	1/19/2	2006	1/19/2	2006	1/19/2	2006	1/19/2	2006	1/19/2	2006	1/20/2	2006
Method	Parameter	CAS #	Units	Standard/ Guidance	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
				Value														
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.
- (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 Sam	ple ID				L2306	59-02	L2306	59-03	L2306	59-04	L2306	59-06	L2306	59-05	L2306	59-08	L2306	59-07
Client Sa	ample ID				SB 8 8	-11 FT	SB 9 12	-14 FT	SB 9D 12	2-14 FT	SB 10 8	-10 FT	SB 11 8	-10 FT	SB 12 4	4-6 FT	SB 12 6	5-8 FT
Collect I	Date				1/20/	2006	1/20/2	2006	1/20/2	2006	1/20/2	2006	1/20/2	2006	1/20/2	2006	1/20/2	2006
Method	Parameter	CAS#	Units	Standard/	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Method	T diameter	040 #	onito	Value	Value	y	Value	y u	Value	y	Value	guui	Value	Guui	Value	y	Value	Quai
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	1

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

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

Lab Sam	ple ID				L2307	95-01	L2306	59-10	L2307	95-02	L2306	59-09	L2307	95-04	L2309	36-01	L2309	36-02	L23079	95-03
Client Sa	ample ID				SB 13	6-8 FT	SB 14 10)-11 FT	SB 15 4	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 I	Date				1/23/	2006	1/20/2	2006	1/23/2	2006	1/20/2	2006	1/23/2	2006	1/24/2	2006	1/24/2	2006	1/23/2	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

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.

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

V3 high. BDL results will be unaffected.

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

Lab Sam	nple ID				L230549-0)5	L230549	-04	L230549	-03	L230549	-02	L230549	-01	L230549	-06	L230659	-01
Client Sa	ample ID				SB-1 1-4 F	T	SB-2 5-7	′ FT	SB-3 4-6	FT	SB-4 8-11	I FT	SB-5 0-6	FT	SB-6 4-8	FT	SB 7 10-1	2 FT
Collect I	Date				1/19/2000	6	1/19/20	06	1/19/20	06	1/19/20	06	1/19/20	06	1/19/20	06	1/20/200	06
				Standard/														
Method	Parameter	CAS #	Units	Guidance	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
				Value														
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	0	<2900	0	<2700	0	<2600	0	<2700	0
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	4300000		32000000		6600000		25000000		32000000		2800000		4700000	
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		1000000		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		900000		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

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

0 (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 San	nple ID				L230659	-02	L230659	-03	L230659-	-04	L230659-	-06	L230659-0)5	L230659	-08	L230659	-07	L230795	-01
Client S	ample ID				SB 8 8-11	FT	SB 9 12-1	4 FT	SB 9D 12-1	4 FT	SB 10 8-10	0 FT	SB 11 8-10	FT	SB 12 4-6	6 FT	SB 12 6-8	FT	SB 13 6-8	s FT
Collect	Date				1/20/20	06	1/20/20	06	1/20/200)6	1/20/200)6	1/20/200	6	1/20/20	06	1/20/200)6	1/23/200	J6
Method	Parameter	CAS #	Units	Standard/ Guidance	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
				Value																
7471	Mercury	7439-97-6	µg/kg	100	88		220	<mark>)</mark>	190		<22		<21		<24		42		340	í
6010B	Aluminum	7429-90-5	µg/kg	SB	680000)	2500000	ט	2200000		5800000		5300000		8300000		7300000		3200000	i i
6010B	Antimony	7440-36-0	µg/kg	SB	<2700	0	<3000	0 0	<2900	0	<2700	0	<2700	0	<3000	0	<3000	0	<2800	<i>,</i> 0
6010B	Arsenic	7440-38-2	µg/kg	7500	2000		41000	<mark>)</mark>	37000		<1100		2300		<1200		<1200		<1100	,
6010B	Barium	7440-39-3	µg/kg	300000	200000		100000	ט	67000		80000		30000		64000		35000		15000	i
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	4400000)	1000000	ט	8200000		3600000		2100000		2000000		1600000		23000000	i i
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	0 0	<2900	0	3400		3900		6400		4900		2200	i
6010B	Copper	7440-50-8	µg/kg	25000	23000		28000	<mark>)</mark>	28000		15000		11000		20000		20000		12000	i
6010B	Iron	7439-89-6	µg/kg	2000000	11000000		3200000	<mark>)</mark>	2900000		9700000		11000000		14000000		12000000		6100000	/
6010B	Lead	7439-92-1	µg/kg	SB	59000		44000	ט	34000		1000		2900		4000		6100		590	i -
6010B	Magnesium	7439-95-4	µg/kg	SB	4500000)	2600000	ט	2800000		5200000		3000000		2600000		2500000		6500000	i
6010B	Manganese	7439-96-5	µg/kg	SB	370000		340000	ט	230000		470000		590000		470000		420000		330000	i
6010B	Nickel	7440-02-0	µg/kg	13000	4100		<12000	0 0	<12000	0	9500		3200		13000		<1200		4700	i
6010B	Potassium	9/7/7440	µg/kg	SB	1100000)	910000	ט	800000		710000		720000		860000		740000		500000	i
6010B	Silver	7440-22-4	µg/kg	SB	3000		<3000	0 0	<2900	0	<550		<540		<600		<600		<560	,
6010B	Sodium	7440-23-5	µg/kg	SB	1500000)	1400000	כ	1400000		51000		1100000		200000		1200000		180000	i I
6010B	Vanadium	7440-62-2	µg/kg	150000	18000		400000	<mark>)</mark>	370000		10000		8900		17000		14000		5900	,
6010B	Zinc	7440-66-6	µg/kg	20000	98000		26000	<mark>)</mark>	23000		18000		21000		50000		36000		11000	J

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

0 (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 Sam	ple ID				L230659-	·10	L230795	-02	L230659	-09	L230795	-04	L230936	-01	L230936	-02	L230795-	-03
Client Sa	ample ID				SB 14 10-1	1 FT	SB 15 4-6	5 FT	SB 16 8-9.	5 FT	SB 17 8-1	0 FT	MW 1 10-1	2 FT	MW 3 9-10) FT	MW 5 10-1	1 FT
Collect I	Date				1/20/200)6	1/23/20	06	1/20/20	06	1/23/200)6	1/24/20	06	1/24/20)6	1/23/200)6
	Benemeter	CAC #	Unite	Standard/	Mahua	Qual	Value	Quel	Malua	Qual	Value	Qual	Value	Quel	Value	0	Value	0
wethod	Parameter	CAS#	Units	Guidance	value	Quai	value	Quai	value	Quai	value	Quai	value	Quai	value	Quai	value	Quai
7471	Mercury	7439-97-6	ua/ka	100	-22		<73	0	-24		230		-22		-22		c21	
6010B	Aluminum	7429-90-5	ug/kg	SB	5500000		8700000	0	7500000		6400000		6400000	V	1000000		5300000	
6010B	Antimony	7440-36-0	ua/ka	SB	<2700	0	<3000	0	<3000	0	<2800	0	3000	•	<2700	0	<2600	0
6010B	Arsenic	7440-38-2	ua/ka	7500	<1100		<1200		1900	<u> </u>	2700		<1000		<1100	0	<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		5600000		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		900000	
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	1
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

0 (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 Sam	ple ID				L2305	49-05	L2305	49-04	L2305	49-03	L2305	49-02	L2305	49-01	L2305	49-06	L2306	59-01	L2306	59-02
Client Sa	mple ID				SB-1 1	-4 FT	SB-2 5	6-7 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 D	t Date				1/19/2	2006	1/19/2	2006	1/19/	2006	1/19/2	2006	1/19/2	2006	1/19/2	2006	1/20/2	2006	1/20/2	2006
				Standard/																
Method	Parameter	CAS #	Units	Guidance	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
				Value																
8082	PCB 1016	12674-11-2	µg/kg	1000	<90	0	<95	0	<94	0	<99	0	<91	0	<89		170		<92	0
8082	PCB 1248	12672-29-6	µg/kg	1000	<90	0	<95	0	<94	0	<99	0	<91	0	330		<91		<92	0

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:

0 (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 Sam	ple ID				L2306	59-03	L2306	59-04	L2306	59-06	L2306	59-05	L2306	59-08	L2306	59-07	L2307	95-01	L2306	59-10
Client Sa	ample ID				SB 9 12	-14 FT	SB 9D 12	2-14 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 D	lect Date				1/20/2	2006	1/20/2	2006	1/20/2	2006	1/20/2	2006	1/20/2	2006	1/20/2	2006	1/23/2	2006	1/20/2	2006
				Standard/																
Method	Parameter	CAS #	Units	Guidance	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
				Value																1
8082	PCB 1016	12674-11-2	µg/kg	1000	<100	0	<98	0	<93	0	<91	0	<100	0	<100	0	<95	0	<93	0
8082	PCB 1248	12672-29-6	µg/kg	1000	<100	0	<98	0	<93	0	<91	0	<100	0	<100	0	<95	0	<93	0

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:

0 (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 Sam	ple ID				L2307	95-02	L2306	59-09	L2307	95-04	L2309	36-01	L2309	36-02	L2307	95-03
Client Sa	ample ID				SB 15 4	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 D	Date			1/23/2	2006	1/20/2	2006	1/23/2	2006	1/24/2	2006	1/24/2	2006	1/23/2	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	0	<100	0	<94		<91	0	<93	0	<90	0
8082	PCB 1248	12672-29-6	µg/kg	1000	<100	0	<100	0	<94		<91	0	<93	0	<90	0

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:

0 (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 Sa	Imple ID					L23162	7-01		L23162	7-02		L23162	27-03		L23162	7-04		L23162	7-05
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	t Date					1/24/2	006		1/24/2	006		1/24/2	006		1/24/2	006		1/24/2	006
Method	Component	Units	Standard/G uidance Value	TEF	Result	Qualifier	TEF-Adjusted Concentration												
8290	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	ng/Kg	NV	0.01	11.302	В	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	В	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 Client Sample ID					L2320 MW	58-06 /-1	L23	32058-03 L2320 MW-2 MV		58-04 /-3	68-04 L232058-05 -3 MW-4		L232058-01 MW-5		L232058-02 MW-50		L232058-0 TRIP BLAN	
Collect Date					2/1/2006		2/1/2006		2/1/2006		2/1/2006		2/1/2006		2/1/2006		2/1/2	006
Method	Parameter	CAS #	Units	Standard/G uidance 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 Sam	Lab Sample ID						L23205	58-03	L232058-04		L232058-05		L232058-01		L232058-02	
Client Sa	ample ID				MW-1		MW	MW-2		MW-3		-4	MW-5		MW	-50
Collect [Collect Date					2/1/2006		2/1/2006		2/1/2006		2/1/2006		2/1/2006		006
				Standard/G												
Method	Parameter	CAS #	Units	uidance	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
				Value												
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 Samp	Lab Sample ID						2054-06		L232	2054-03	L232054-04			
Client Sample ID						IW 1		N	IW 2	MW 3				
Collection Date)1/2006		1/2006	02/01/2006					
Method	Parameter	Units	Standard/G uidance 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						L23	2054-05		2054-01	L232054-02			
Client Sample ID						IW 4		IW 5	MW 50				
Collection Date						1/2006		1/2006	02/01/2006				
Method	Parameter	Units	Standard/G uidance Value*	TEF	Value	Value Qaul TEF-Adjusted Concentration			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

be filled in by Client)	IEAST ANALYTICAL IEAST ANALYTICAL hazardous) or archival. Call for details.	R REQUESTED	1 - HCL	2 - HNO3 3 - H2SO4	5 - Zn. Acetate	6 - MeOH 7 - NaHSO4	8 - Other			R REMARKS:		KA							RECEVED BY	SIGNATURE	PRINTED NAME	COMPANY	DATE/TIME	SIADMINICOC FORM DI XLS (Revised July 1, 2005)
DISPOSAL REQUIREMENTS: (To	Additional charges incurred for disposal (if	EF ANALYSIS AND METHOD NUMBEI	40m 802		5/ 4/ 4/ 5/ 5/m/		K/ W/ ×/ ×/ 0/	1 40 1 A 1 A 1 0	1 2/ 2/ 2/ 2/ 2/		<u>ې</u>									LLYY SIGNATURE	ICON PRINTED NAME	COMPANY		
0F /	110145>	PRESERVATIVE CODE	BOTTLE TYPE: BOTTLE SIZE:	SŁ		DE CON			× / × / ×		(Å)	X. 	X	X					RECEIVED W/I TOULDING TIMES.	REMOTURE	PRINTED NAME	company NG A	DATERTIME 21/05	
PAGE 🖉	LRF #	- COLUMBIA M	/STATE) ADDRESS:	1~	TME:	:(a	P* XCertificates Only	LAB	SAMPLE ID	(NEA USE ONLY)	AT14378	PTEHIEN .	A114380	AJU4381				N N	RELINOUISHED BY	horado mu	t Royw/~	NeA	21/05 12:00	
CORD	L, INC. , NY 12308 8) 381-6055 on @nealab.com	PROJECT#/PROJECT NAM	PROJECT LOCATION (CITY	1111-110	REQUIRED TURN AROUND	NAME OF COURIER (IF USI	Data Report: CL		GRAB	MATRIX COMF	WATER &	Soil COM	SOIL COM	Sore Com				COC DISCREPANCIES:		SIGNATURE	PRINTED N	COMPANY		~
CUSTODY RE	ANAL YTICA We, Schenectady 0-4592 Fax (5- informati		Xa	6524 418				E-MAIL ADDRESS:	FAX #:	DATE TIME	1/12/05 12:00	11/18/05 12:10	11/18/02 1:00	1/18/05 1:30			2 C C	Y (N)	RECEIVED	BIONATURE De	$\propto \left[\frac{\text{PRINTEDYAND}}{P R 0.9 a_{\rm o}} \right]$	COMPANYCA	PATE/ SC/OS	A Stranger
CHAIN OF (NORTHEAST / 2190 Technology Dri Telephone (518) 346 www.nealab.com	CLIENT (REPORTS TO BE SENT TO): S 7 E WART 'S	PROJECT MANAGER:	PHONE: 518 581 1201	SAMPLED BY: (Please Print)	SAMPLING FIRM:	STEWARD'S	ELECTRONIC RESULTS FORMAT:	FAXED RESULTS	SAMPLE ID	72-1	7P-1 9-10'	TP-2 5'	77-3 5'				MABIEN VOH CHILLEU. RECEIVED BROKEN OR LEAKING:	RELINQUISHED BY	SIGNATURE	PRINTED NAME 7:04 JOHNCO	STELLAR 'S	PATERING POS	* CLP LIKE DATA PACKAGE ADD



CERTIFICATE OF ANALYSIS 11/23/2005

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

CUSTOMER ID:	TP-1		NEA ID:	AI	14378		
MATRIX :	WATER		DATE SAMP	'LED: 11/	/18/2005 TIME:	12:00	
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINET	TO-COLUMBIA M	ILLS	
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINET	TO, NY		
CUSTOMER PO:	N/A		LAB ELAP #	: 110	078		
DAD AMETED DEDEODM	7B	RESULTS	POL	UNITS	DATE COMPLETED	FLAGS	
FARAMETER FERFORM		REGUERS	• • •				
EPA Method 8260B		ND	1.00	u a/l	11/21/2005		
1,1,1,2-Tetrachloroethane		ND	1.00	μg/L μg/I	11/21/2005		
1,1,1-Trichloroethane		ND	1.00	μg/L uα/I	11/21/2005		
1,1,2,2-Tetrachloroethane		ND	1.00	μg/L ug/I	11/21/2005		
1,1,2-Trichloroethane		ND	1.00	μg/L μη/Ι	11/21/2005		
1,1-Dichloroethane		ND	1.00	μg/L υσ/Ι	11/21/2005		
1,1-Dichloroethene		ND	1.00	μg/L μα/Ι	11/21/2005		
1,1-Dichloropropene			1.00	μg/L ug/I	11/21/2005		
1,2,3-Trichlorobenzene		ND	1.00	μg/L μg/L	11/21/2005		
1,2,3-Trichloropropane		ND	1.00	н <u>в</u> /Ц нп/I	11/21/2005		
1,2,4-Irichlorobenzene		ND	1.00	μg/L μg/I	11/21/2005		
1,2,4-1rimethylbenzene		ND	1.00	μ <u>5</u> /13 μα/Ι	11/21/2005		
1,2-Dibromo-3-chloroprop	ane	ND	1.00	μ <u>5</u> /L μσ/L	11/21/2005		
1,2-Dibromoetnane		ND	1.00	ug/I	11/21/2005		
1,2-Dichlorobenzene		ND	1.00	но/Т	11/21/2005		
1,2-Dichloroethane		ND	1.00	μο/L	11/21/2005		
1,2-Dichloropropane		ND	1.00	н д /Г.	11/21/2005		
1,3,5-1 mmetnyibenzene		ND	1.00	но/I	11/21/2005		
1,3-Dichloropenzene		ND	1.00	μ <u>σ</u> /Γ.	11/21/2005		
1,3-Dichloropropane		ND	1.00	н <u>я</u> , Е ця/Г.	11/21/2005		
1,4-Dichloropenzene		ND	1.00	но/L	11/21/2005		
2,2-Dicinoropropade		ND	1.00	го- ця/L	11/21/2005		
2-Dutanone		ND	1.00	ng/L	11/21/2005		
2-Chlorotoluono		ND	1.00	ug/L	11/21/2005		
2-Cinorototuche		ND	1.00	нø/L	11/21/2005		
4 Chlorotoluene		ND	1.00	гэ- це/L	11/21/2005		
4-Chlorobultoluene		ND	1.00	ug/L	11/21/2005		
4-Mothyl_2_pentanone		ND	1.00	ug/L	11/21/2005		
A cetone		ND	5.00	ug/L	11/21/2005		
Ranzene		ND	1.00	μg/L	11/21/2005		
Bromohenzene		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		

CERTIFICATE OF ANALYSIS 11/23/2005

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

CUSTOMER ID:	TP-1		NEA ID:	AII	4378	
MATRIX :	WATER		DATE SAMP	LED: 11/	18/2005 TIME :	12:00
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETT	TO-COLUMBIA MI	LLS
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINETT	ſO, NY	
CUSTOMER PO:	N/A		LAB ELAP #	: 110)78 DATE	
PARAMETER PERFORMI	ED	RESULTS	PQL	UNITS	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	
Śtŷrene		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

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

AUTHORIZED SIGNATURE:

NORTHEAST ANALYTICAL LABS

Willing the

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



Chloroform

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:	А	114379	
MATRIX: SOIL		DATE SAMP	LED: 11	1/18/2005 TIME:	12:10
DATE RECEIVED: 11/21/2005	TIME: 11:30	PROJECT:	MINET	TTO-COLUMBIA MI	ILLS
SAMPLED BY: T. JOHNCOX		LOCATION:	MINET	ГТО, NY	
CUSTOMER PO N/A		LAB ELAP #	: 1	1078	
				DATE	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	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	

2.51

µg/kg

ND

11/22/2005


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

CUSTOMER ID:	TP-1 9-10'		NEA ID:	AI1	4379	
MATRIX :	SOIL		DATE SAM	PLED: 11/	18/2005 TIME:	12:10
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETT	O-COLUMBIA M	ILLS
SAMPLED BY:	T. JOHNCOX		LOCATION	I: MINETI	O, NY	
CUSTOMER PO:	N/A		LAB ELAP	#: 110	78	
					DATE	
PARAMETER PERFORMED		RESULTS	PQL	UNITS	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-Xvlene		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:

Robert E. Wagner, Laboratory Director

Northeast Analytical, Inc.

Willo Me



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

CUSTOMER ID: TP-2 5'		NEA ID:	AI143	380	
MATRIX : SOIL		DATE SAMP	LED: 11/18	/2005 TIME:	13:00
DATE RECEIVED: 11/21/2005	TIME: 11:30	PROJECT:	MINETTO	-COLUMBIA MI	LLS
SAMPLED BY: T. JOHNCOX		LOCATION:	MINETTO	, NY	
CUSTOMER PO: N/A		LAB ELAP #:	: 11078	3	
				DATE	
PARAMETER PERFORMED	RESULTS	PQL	UNITS	COMPLETED	FLAGS
FPA Method 8260B					
1.1.1.2. Tetrachloroethane	ND	2.19	ug/kg	11/22/2005	
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	ug/kg	11/22/2005	
1,1-Dichloropropene	ND	2.19	ug/kg	11/22/2005	
1.2.3.Trichlorobenzene	ND	2.19	ug/kg	11/22/2005	
1.2.3-Trichloropropage	ND	2.19	ug/kg	11/22/2005	
1.2.4-Trichlorobenzene	ND	2.19	ug/kg	11/22/2005	
1.2.4.Trimethylbenzene	ND	2.19	ug/kg	11/22/2005	
1.2. Dibromo-3-chloropropage	ND	2.19	ug/kg	11/22/2005	
1.2-Dibromoethane	ND	2.19	ug/kg	11/22/2005	
1.2-Dichlorobenzene	ND	2.19	ug/kg	11/22/2005	
1.2-Dichloroethane	ND	2.19	ug/kg	11/22/2005	
1.2-Dichloropropage	ND	2.19	ug/kg	11/22/2005	
*13 5-Trimethylbenzene	ND	2.19	ug/kg	11/22/2005	
1,3,5-Trimenyioenzene	ND	2.19	ug/kg	11/22/2005	
1.3-Dichloropropane	ND	2.19	ug/kg	11/22/2005	
1 4-Dichlorobenzene	ND	2.19	ug/kg	11/22/2005	
2.2-Dichloropropage	ND	2.19	ug/kg	11/22/2005	
2. Butanone	ND	2.19	ug/kg	11/22/2005	
2-Chloroethylyinylether	ND	2.19	ug/kg	11/22/2005	
2-Chlorotoluene	ND	2.19	ug/kg	11/22/2005	
2-Hevanope	ND	2.19	ug/kg	11/22/2005	
4-Chlorotoluene	ND	2.19	ug/kg	11/22/2005	
4-Isopronyltoluene	ND	2.19	μg/kg	11/22/2005	
4-Methyl-2-pentanone	ND	2.19	µg/kg	11/22/2005	
Acetone	ND	11.0	ug/kg	11/22/2005	
Benzene	ND	2.19	µg/kg	11/22/2005	
Bromohenzene	ND	2.19	µg/kg	11/22/2005	
Bromochloromethane	ND	2.19	ug/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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STEWART'S PO BOX 435 SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-2 5'		NEA ID:	1	AI14380	
MATRIX :	SOIL		DATE SAMP	PLED: 1	11/18/2005 TIME :	13:00
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINE	ETTO-COLUMBIA M	ILLS
SAMPLED BY:	T. JOHNCOX		LOCATION:	: MINE	ETTO, NY	
CUSTOMER PO:	N/A		LAB ELAP #	4: 1	11078 DATE	
PARAMETER PERFORMI	ED	RESULTS	PQL	UNITS	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	
11 A.						

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 LABS

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

Wallas the



CUSTOMER ID:	TP-3 5'		NEA ID:		AI14381	
MATRIX :	SOIL		DATE SAMP	LED:	11/18/2005 TIME :	13:30
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINI	ETTO-COLUMBIA MI	LLS
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINI	ETTO, NY	
CUSTOMER PO:	N/A		LAB ELAP #	:	11078	
					DATE	
PARAMETER PERFORMI	ED	RESULTS	PQL	UNITS	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	
1.7.3.Trichlorohenzene		ND	2.16	ug/kg	11/22/2005	
1.2.3-Trichloropropane		ND	2.16	μg/kg	11/22/2005	
1.2.4 Trichlorobenzene		ND	2.16	ug/kg	11/22/2005	
1,2,4-Trimethylbepzene		ND	2.16	ug/kg	11/22/2005	
1,2,4-Tranonytoenzene	ane	ND	2.16	ug/kg	11/22/2005	
1,2-Dibromoethane	-0.10	ND	2.16	ug/kg	11/22/2005	
1,2-Dioblorobenzene		ND	2.16	ug/kg	11/22/2005	
1,2-Dichloroethane		ND	2.16	ug/kg	11/22/2005	
1,2-Dichloropropaga		ND	2.16	11g/kg	11/22/2005	
1,2-Dichloropropane		ND	2.16	119/kg	11/22/2005	
1,5,5- Hilletilyidenzene		ND	2.16	119/kg	11/22/2005	
1,3-Dichloropropene		ND	2.16	110/kg	11/22/2005	
1,5-Dichlorohongono		ND	2.16	110/kg	11/22/2005	
2.2 Dishlararranana		ND	2.16	110/kg	11/22/2005	
2,2-Dichloropropane		ND	2.16	110/kg	11/22/2005	
2-Butanone		ND	2.10	ng/kg	11/22/2005	
2-Chloroethylvinylether		ND	2.16	40/kg	11/22/2005	
2-Chiorotoluene		ND	2.16	40/kg	11/22/2005	
2-Hexanone		ND	2.10	45/55 110/kg	11/22/2005	
4-Uniorololuene		ND	2.16	ug/kg	11/22/2005	
4-Isopropynoluene		ND	2.16	µ5/15 µa/ka	11/22/2005	
4-ivietnyi-2-pentanone		ND	10.8	907kg	11/22/2005	
Acetone			216	ug/kg	11/22/2005	
Benzene		ND	2.10	μ <u>σ</u> /kg	11/22/2005	
Bromobenzene		ND	2.10	µg/kg ua/ba	11/22/2005	
Bromochioromethane		ND	2.10	ug/kg	11/22/2005	
Bromodichloromethane		ND	2.10	ug/kg	11/22/2005	
Bromotorm		ND	4-10 7 16	µg/ng µg/rg	11/22/2005	
Bromomethane			2.10	н <u>в</u> /№8 110/№0	11/22/2005	
Carbon Disulfide			2.10	µg/ng µg/kg	11/22/2005	
Carbon Tetrachloride		IND ND	2.10 2.16	µg/ng ua/ba	11/22/2005	
Chiorobenzene		ND ND	2.10	μ <u>κ</u> /*ε	11/22/2005	
Chloroethane			2.10	µg/kg	11/22/2005	
Chloroform		ND	2.10	µg/kg	11122/2005	



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

CUSTOMER ID:	TP-3 5'		NEA ID:	AI14	4381	
MATRIX :	SOIL		DATE SAMP	LED: 11/1	8/2005 TIME :	13:30
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETT	O-COLUMBIA MI	LLS
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINETT	O, NY	
CUSTOMER PO:	N/A		LAB ELAP #	: 1107	78	
					DATE	
PARAMETER PERFORM	ED	RESULTS	PQL	UNITS	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-Xvlene		ND	2.16	µg/kg	11/22/2005	
sec-Butylbenzene		ND	2.16	µg/kg	11/22/2005	
Stvrene		ND	2.16	µg/kg	11/22/2005	
tert-Butvlbenzene		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.

Willor He

Robert E. Wagner, Laboratory Director

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CUSTOMER ID:	TP-1 9-10'		NEA ID:	AI14379		
MATRIX :	SOIL		DATE SAMPI	LED: 11/18/200	5 TIME:	12:10
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETTO-CO	LUMBIA MIL	LS
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINETTO, NY		
CUSTOMER PO:	N/A		LAB ELAP #:	11078	DATE	
PARAMETER PERFORM	ED	RESULTS	PQL	UNITS	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-methylpheno)l	ND	831	µg/kg	11/23/2005	
4-Bromophenyl-phenyleth	er	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-phenyleth	er	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	



Dimethylphthalate

Hexachlorobenzene

Hexachloroethane

Isophorone

Hexachlorobutadiene

Indeno(1,2,3-cd)pyrene

Hexachlorocyclopentadiene

Fluoranthene

Fluorene

CERTIFICATE OF ANALYSIS 11/30/2005

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

CUSTOMER ID: MATRIX : DATE RECEIVED: SAMPLED BY: CUSTOMER PO: PARAMETER PERFORM	TP-1 9-10' SOIL 11/21/2005 T. JOHNCOX N/A ED	TIME: 11:30 RESULTS	NEA ID: DATE SAMPI PROJECT: LOCATION: LAB ELAP #: PQL	AI14379 LED: 11/18/2005 MINETTO-COLI MINETTO, NY 11078 UNITS	TIME: UMBIA MII DATE ANALYZED	12:10 .LS 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)methar	ie	ND	831	µg/kg	11/23/2005	
bis(2-chloroethyl)ether		ND	831	µg/kg	11/23/2005	
bis(2-Chloroisopropyl)ethe	r	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	

831

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11/23/2005

ND

5380

ND

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ND

ND

ND

ND

ND



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

CUSTOMER ID:	TP-1 9-10'		NEA ID:	AI14379		
MATRIX :	SOIL		DATE SAMPL	ED: 11/18/2005	TIME:	12:10
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETTO-COL	UMBIA MII	LS
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINETTO, NY		
CUSTOMER PO:	N/A		LAB ELAP #:	11078	DATE	
PARAMETER PERFORMI	ED	RESULTS	PQL	UNITS	ANALYZED	FLAGS
N-Nitroso-di-n-propylami	ne	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	

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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CUSTOMER ID:	TP-2 5'		NEA ID:	AI14380		
MATRIX :	SOIL		DATE SAMPL	ED: 11/18/2005	5 TIME:	13:00
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETTO-COI	LUMBIA MIL	LS
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINETTO, NY		
CUSTOMER PO:	N/A		LAB ELAP #:	11078	DATE	
PARAMETER PERFORM	ED	RESULTS	PQL	UNITS	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-methylphene	ol	ND	361	µg/kg	11/23/2005	
4-Bromophenyl-phenyleth	er	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-phenyleth	er	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	



CUSTOMER ID:	TP-2 5'		NEA ID:	AI14380		
MATRIX :	SOIL		DATE SAMPI	LED: 11/18/2005	TIME:	13:00
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETTO-COL	UMBIA MIL	LLS
SAMPLED BV:	T IOHNCOX		LOCATION:	MINETTO, NY		
CUSTOMED DO.	NT/A		TADELAD4.	11079		
CUSTOMER PO:	N/A		LAD ELAP #:	11078	DATE	
PARAMETER PERFORM	ED	RESULTS	PQL	UNITS	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)methan	ne	ND	361	µg/kg	11/23/2005	
bis(2-chloroethyl)ether		ND	361	µg/kg	11/23/2005	
bis(2-Chloroisopropyl)eth	er	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	
Hexachlorocyclopentadier	ie	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	



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

CUSTOMER ID:	TP-2 5'		NEA ID:	AI14380		
MATRIX :	SOIL		DATE SAMPI	LED: 11/18/2005	TIME:	13:00
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETTO-COL	UMBIA MIL	LS
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINETTO, NY		
CUSTOMER PO:	N/A		LAB ELAP #:	11078	DATE	
PARAMETER PERFORM	ED	RESULTS	PQL	UNITS	ANALYZED	FLAGS
N-Nitroso-di-n-propylami	ıe	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	ug/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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CUSTOMER ID:	TP-3 5'		NEA ID:	AI14381		
MATRIX :	SOIL		DATE SAMPL	ED: 11/18/2005	5 TIME:	13:30
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETTO-COI	LUMBIA MIL	LS
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINETTO, NY		
CUSTOMER PO:	N/A		LAB ELAP #:	11078	DATE	
PARAMETER PERFORM	ED	RESULTS	PQL	UNITS	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-methylphene	ol	ND	369	µg/kg	11/23/2005	
4-Bromophenyl-phenyleth	er	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-phenyleth	er	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	



CUSTOMER ID:	TP-3 5'		NEA ID:	AI14381		
MATRIX :	SOIL		DATE SAMPL	ED: 11/18/2005	TIME:	13:30
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETTO-COL	UMBIA MII	LS
SAMPLED BV	T IOHNCOX		LOCATION:	MINETTO, NY		
SAMELED DI.	1. JOHNCOX		LADELAD#	11079		
CUSTOMER PO:	N/A		LAB ELAP #:	11078	DATE	
PARAMETER PERFORM	ED	RESULTS	PQL	UNITS	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)methat	ıe	ND	369	µg/kg	11/23/2005	
bis(2-chloroethyl)ether		ND	369	µg/kg	11/23/2005	
bis(2-Chloroisopropyl)eth	त्र	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	
Hexachlorocyclopentadier	e	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	



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

CUSTOMER ID:	TP-3 5'		NEA ID:	AI14381			
MATRIX :	SOIL		DATE SAMPL	ED: 11/18/2005	TIME:	13:30	
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETTO-COL	UMBIA MIL	LS	
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINETTO, NY			
CUSTOMER PO:	N/A		LAB ELAP #:	11078	DATE		
PARAMETER PERFORM	ED	RESULTS	PQL	UNITS	ANALYZED	FLAGS	
N-Nitroso-di-n-propylami	ne	ND	369	µg/kg	11/23/2005		
N-Nitrosodiphenvlamine		NUN	360		11/02/2005		
· · · · · · · · · · · · · · · · · · ·		ND	309	µg/ĸg	11/23/2005		
Naphthalene		ND	369	µg/кg µg/kg	11/23/2005		
Naphthalene Nitrobenzene		ND ND ND	369 369 369	µg/кg µg/kg µg/kg	11/23/2005 11/23/2005 11/23/2005		
Naphthalene Nitrobenzene Pentachlorophenol		ND ND ND ND	369 369 369 369	μg/kg μg/kg μg/kg μg/kg	11/23/2005 11/23/2005 11/23/2005 11/23/2005		
Naphthalene Nitrobenzene Pentachlorophenol Phenanthrene		ND ND ND ND	369 369 369 369 369	µg/kg µg/kg µg/kg µg/kg µg/kg	11/23/2005 11/23/2005 11/23/2005 11/23/2005 11/23/2005		
Naphthalene Nitrobenzene Pentachlorophenol Phenanthrene Phenol		ND ND ND ND ND	369 369 369 369 369 369	μg/kg μg/kg μg/kg μg/kg μg/kg μg/kg	11/23/2005 11/23/2005 11/23/2005 11/23/2005 11/23/2005 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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STEWART'S PO BOX 435 SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

CUSTOMER ID:	TP-1 9-10'	NEA ID:	AI14379		
MATRIX :	SOIL	DATE SAMPLE): 11/18/2005	TIME: 12:10	
DATE RECEIVED:	11/21/2005 TIME: 11:30	PROJECT: M	INETTO-COLUM	BIA MILLS	
SAMPLED BY:	T. JOHNCOX	LOCATION: M	INETTO, NY		
CUSTOMER PO:	N/A	LAB ELAP #:	11078		DATE
PARAMETER PERFORMED	METHOD	FLAGS RESULTS	PQL	UNITS	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	COMPLE	TED		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:

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

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CERTIFICATE OF ANALYSIS 11/30/2005 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: 1	3:00
DATE RECEIVED:	11/21/2005 TIME: 11:30	PROJECT: MI	NETTO-COLUM	BIA MILLS	₽
SAMPLED BY:	T. JOHNCOX	LOCATION: MI	NETTO, NY		
CUSTOMER PO:	N/A	LAB ELAP #:	11078		DATE
PARAMETER PERFORMED	METHOD	FLAGS RESULTS	PQL	UNITS	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:

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

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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: MI	NETTO-COLUM	BIA MILLS	•
SAMPLED BY:	T. JOHNCOX	LOCATION: MI	NETTO, NY		
CUSTOMER PO:	N/A	LAB ELAP #:	11078 BOI	UNITS	DATE ANALVZED
PARAMETER PERFORMED	METHOD	FLAGS RESULTS	IQL	01415	ANALIZOD
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:

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

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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: All	4379	NEA LRF: 0	0511145-02
MATRIX:	SOIL		DATE SAMP	LED: 11/	18/2005	TIME: 12:10:00
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETT	O-COLUMBI	A MILLS
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINETT	O, NY	
CUSTOMER PO:	N/A		LAB ELAP#;	11078		
				T. 47		

Parameter Performed	Results	PQL	UNITS	ANALYZED	FLAGS	
SW-846 Method 8082, Polychlorinated I	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.

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CERTIFICATE OF ANALYSIS 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, P	olychlorinated Bip	ohenyls							
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 1254 Aroclor 1260		ND ND	0.0522 0.0522	ug/g ug/g	11/29/2005 11/29/2005	U 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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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: All	4381 N	NEA LRF: 05	511145-04
MATRIX:	SOIL		DATE SAMP	LED: 11/18	8/2005	TIME: 13:30:00
DATE RECEIVED:	11/21/2005	TIME: 11:30	PROJECT:	MINETTO	-COLUMBIA	A MILLS
SAMPLED BY:	T. JOHNCOX		LOCATION:	MINETTO	, NY	
CUSTOMER PO:	N/A		LAB ELAP#:	11078		
				DATI	E	

Parameter Performed	Results	PQL UNIT	S ANALYZED	FLAGS
SW-846 Method 8082, Polychlorinated I	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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STEWART'S PO BOX 435 SARATOGA SPRINGS, NY 12866 CONTACT: CHAD FOWLER

MATH	RIX :	SOIL		DATE SAMPLED:	11/18/2005		
DATE	RECEIVED:	11/21/2005	TIME: 11:30	PROJECT: MIN	ETTO-COLUMB	IA MILLS	
SAMP	LED BY:	T. JOHNCO	X	LOCATION: MIN	ETTO, NY		
CUST	OMER PO:	N/A		LAB ELAP #:	11078		
NEA ID:	CUSTOMER ID :	P	METHOD:	RESULTS	PQL	UNITS	DATE ANALYZED
AI14379	TP-1 9-10'	Ŋ	Method 8015 GRO for Solic	ls 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

AUTHORIZED SIGNATURE:

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

AI14380	TP-2 5'	М	ethod 8015 GRO for Solid	s 10500	9910	μg/kg	11/23/2005
NEA ID:	CUSTOMER ID :	М	іетнор:	RESULTS	S PQL	UNITS	DATE ANALYZED
CUST	OMER PO:	N/A		LAB ELAP #:	11078		
SAMI	PLED BY:	T. JOHNCOX	۶ ۲	LOCATION: MI	NETTO, NY		
DATE	E RECEIVED:	11/21/2005	TIME: 11:30	PROJECT: MI	NETTO-COLUME	BIA MILLS	
MATI	RIX :	SOIL		DATE SAMPLED	11/18/2005		

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

AI14381	TP-3 5'		Method 8015 GRO for Solid	ls 9980	9570	µg/kg	11/23/2005
NEA ID:	CUSTOMER ID :		метнор:	RESULTS	PQL	UNITS	DATE ANALYZED
CUST	OMER PO:	N/A		LAB ELAP #:	11078		
SAMI	PLED BY:	T. JOHNCO	Х	LOCATION: MINE	TTO, NY		
DATE	E RECEIVED:	11/21/2005	TIME: 11:30	PROJECT: MINE	TTO-COLUM	BIA MILLS	
MATI	RIX :	SOIL		DATE SAMPLED:	11/18/2005		

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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APPENDIX B Soil Boring Logs

				Client:	Stewart	s Shops			
EN	SR.			Project l	Number:		10275-008-300 BORING	<i>ID:</i> MW 1	
				Site Loca	ation:	Columb	ia Mills, Minetto, NY		
				Coordin	ates: Mathad		Elevation: Sheet: 1 of 1	11 In stall . d.	
				Druung Sample T	Meinoa. Tyne(s):		2" by 2' Split Spoons Boring Diameter: 6" Screened Inter	u Instatiea: val·	5-15'
Weather	:			Sample	<i>ype</i> (<i>s</i>).		Logged By: SRD Date/Time Started: 1/19/06 13:00 Depth of Borin	g: 15'	5 15
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Time Finisher 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 moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	s), 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 4		2-4		8"	0.4		2'-4' Same as above except moist.		
5	4-6 1' 0.8 6-8 2' 0.5						4'-6' Tannish gray brown silty SAND, little Gravel, moist		
78	6-8 2' 0.5						6'-8' Same as above, except wet at 7'.		
9		8-10		2'	0.9		8'-10' Gray brown clayey SILT, some Sand, little Gravel, moist to wet.		
11		10-12		2'	1.3		10'-12' Same as above	MW-1 (10-12')	10-12' t=10:50
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.		
16							Refusal at 15'		
17									
19 20									
NOTE	ç.						Date Time Depth to groundwa	ter while drilling	
NOTE	5:								
		Checked by	,			Date:			
		-meeneu U	·						

				Client:	Stewart	s Shops			- DODING ID	GD 0.0	
EN	SR.			Project l	Number:	<u> </u>	10275-008-300		BORING ID	: SB 9/M	W-2
				Site Loci Coordin	ation: ates:	Columb	Ia Mills, Minetto, NY Flevation:		Sheet: 1 of 1		
				Drilling	Method.	· · · ·	Direct-push/Monitoring Well installed viaHollow Ster	m Auger	Monitoring Well I	nstalled:	Y
				Sample 2	Type(s):	2 inch b	y 4 foot MacroCore Samp. Boring Diameter: 6"		Screened Interval	•	14-4'
Weather:							Logged By: SRD Date/Time Started: 1.	1/20/06 8:3	1 Depth of Boring:	14'	
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Time Finishec 1.	1/20/06 9:0	6 Water Level:		
Depth (ft)	Geologic sample IL	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPO moisture content, structure, angularity, maxim Geologic Unit (If Known	NENT, mi num grain n)	nor component(s), size, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3		0-4		2'	42.3		0'-4' Reddish brown fine to coarse SAND, some Gravel up to bottom 2" wet.	o 2" subroun	ied to angular, moist,		
4							4'-8' Same as above				
6 7 8		4-8		8"	0.6						
9					0.5		9'-11' Dark gray/brown fine to coarse SAND, some Gravel, moist.	ittle Silt, mo	ist to wet.		
10 11		8-12		3'	0.9		11'-13' Same as above, some coal.				
12					2.8		12'-13.5' Same as above. Wet with heavy sheen.			SB-9	12-14'
13 		12-14		2'	2		13 5-14' Yellow GRAVEL			(12-14)*	t=9:20
15							Refusal at 14'				
16											
18											
19											
20							Da	ate Time	Depth to groundwater	while drilling	I
NOTES	5:	*Duplicat	e sample co	llected fro	m same i	nterval (1	2'-14') and labeled SB90 collected at 9:21.				
		Checked by	/			Date:					

				Client:	Stewart	s Shops	DODING D	D. MW 2	
EN	SR.			Project I Site Loc	Number. ation	Columb	102/5-008-300 DORING II	<i>D:</i> MIW 3	
				Coordin	ates:	Colum	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 Intervo	el 14-4'	
Weather:	•						Logged By: SRD Date/Time Started: 1/24/06 11:11 Depth of Boring.	14'	
Drilling	Contrac	tor:	Parratt-W	olff, Inc.	1	1	Ground Elevation: Date/Time Finishec 1/24/06 12:00 Water Level:	6'	r
Depth (ft)	Geologic sample II	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.)
		0.5-2		1.5'	0.4		0-0.5' Concrete 0.5-2' Brown SAND, some Silt, little Gravel.		
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.		
7		6-8		2'	0.7		6'-7' Same as above except wet. 7'-7.5' Same as above except moist to wet. 7 5'-8' Same as above except some Clay		
9		8-10		2'	0.4 0.6		8'-8.5' Brown fine to medium SAND, some Silt, saturated. 8.5'-9.5' Brown clayey SILT 9.5'-10' Brown fine to coarse SAND, some Gravel.	MW-3 (9-10')	9-10' t=14:00
		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.		
		12-14			0.5		12'-14' Brown fine to coarse SAND, some Gravel.		
15							Refusal at 14'		
16 17									
18									
20									
	-						Date Time Depth to groundwate	r while drilling	
NOTES	S:		*All PID re	eadings are	e question	nable; me	ter indicated the lamp had been clogged.		
		Checked by	/			Date:			

				Client:	Stewart	s Shops	10275 008 200 RORING II	• MW 4	
ER	SR.			Site Loce	ation:	Columb	ia Mills, Minetto, NY		
				Coordin	ates:		Elevation: Sheet: 1 of 1		
				Drilling	Method	:	Hollow Stem Auger Monitoring Well	Installed:	Y
4				Sample '	Type(s):	2" by 2'	split spoon Boring Diameter: 6" Screened Interva	13.8-3.8'	
Weather Duilling	: Cantura	40.00	Domott W	olff Inc			Logged By: SRD Date/Time Started: 01/25/06 Depth of Boring:	13.8'	
Druung	Comrac A	ior:	Parratt-w	onn, me.			Ground Elevation: Date/1 time Finished 01/25/06 water Level:	°	
Depth (ft)	Geologic sample l	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		0.5-2		1'			6" concrete 0'-2' Gray brown f-c SAND, some Silt, little Gravel.		
2 3 4		2-4		8"	0.9		Same as above, some brick.		
5		4-6		1'	0.7		Same as above		
7		6-8		6"	0.6		Same as above		
9 10		8-10		1.5'	1		8'-10' Brown silty SAND, some Gravel, some staining at 9.5', moist to wet, no odor.		
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
13		12-13.8		1'	1		12'-13.8' Same as above except trace Clay, moist to wet.		
14							Refusal at 13.8'		
16									
17									
19									
20									
NOTE	S:	_	_	_			Date Time Depth to groundwater	while drilling	
TOLE									
		Checked by	/			Date:			

				Client:	Stewart	s Shops	DODING I		
EN	SR.			Project i	Number:	Columb	10275-008-300 BORING IL	9: MW 5	
				Site Loci Coordin	ation: ates:	Colume	Flevation: 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	Contrac	tor:	Parratt-W	olff, Inc.		r	Ground Elevation: Date/Time Finishec 1/23/06 12:30 Water Level:	7'	1
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.)
		0.5.2		7"	0.4		0-0.5' Concrete		
1 2		0.5-2		7"	0.4		0.5'-2' Reddish brown silty SAND, some Gravel, moist.		
					0.3				
3		2-4		2'	0.3		Z-4 Same as above.		
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		8-9		8"	1.7		8'-9' Brown silty SAND, some Gravel, wet.		
10							Refusal at 9', augered to 10'.	MW-5	10-11'
11		10-11		1'	1.8		10'-11' Tannish brown silty SAND, some Gravel, moist to wet.	(10-11)	12:52
12							Refusal at 11', augered to 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							Date Time Depth to groundwater	while drilling	
NOTES	S:							0	
		Checked by	/			Date:			

				Client:	Stewart	s Shops							
EN	SR.			Project 1	Number:		10275-008-300				BORING ID:	SB 1	
				Site Loca	ation:	Columb	ia Mills, Minetto, NY				<u> </u>		
				Drilling	ates: Method		Direct puch	levation:			Sheet: 1 of 1 Monitoring Wall I	setallad.	NA
				Dritting Sample 7	Methoa	;	Direct push	oring Diamotor:	2"		Monitoring well in Screened Interval:	isiaiiea:	NA
Weather.				Sample	<i>ypc</i> (<i>s</i>).		Logged By: SRD D	Date/Time Started:	1/19/06	13:00	Depth of Boring:	11'	10/1
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: D	Date/Time Finishec	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, ra moisture content, structur Ge	ange, MAIN COM re, angularity, ma cologic Unit (If Kr	IPONEN' iximum g iown)	Г, min rain si	or component(s), ze, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
		0-4		2"	0.0		0'-4' Brown silty SAND, some Grav	vel up to 2" subround	led to angu	lar, dry	to moist.	SB-1 (1-4)	1-4' 13:30
5 6 7 8	4-8 I' 0.0						4'-8' Weathered brick, wood, some	sandy SILT, moist to	o wet.				
9 10 11	8-11 1.5' 0.0						8'-11' Gray brown sandy SILT, som	ne Gravel up to 1.5" s	ubrounded	to angu	ılar, dry to moist		
12 13 14 15 16 17							Probe refusal at 11'.						
18 19 20 NOTE:	S:								Date	Time	Depth to groundwater v	hile drilling	
								F					
								ŀ					
								ŀ					
		Checked by	/			Date:							

				Client: Project	Stewart	s Shops	0275 008 300		BORING ID:	SB 2	
ER	SK.			Site Loce	ation:	Columb	a Mills, Minetto, NY			52 -	
				Coordin	ates:		Elevation:		Sheet: 1 of 1		
				Drilling	Method	:	Direct push		Monitoring Well I	ıstalled:	Ν
				Sample '	Type(s):		Boring Diameter:		Screened Interval:		NA
Weather:			D 117	100 7			ogged By: SRD Date/Time Started: 1	/19/06 11:5	Depth of Boring:	9.5'	
Drilling	\Box	tor:	Parratt-W	olff, Inc.	-		Fround Elevation: Date/Time Finishec 1	/19/06 12:0) Water Level:		1
Depth (ft)	Geologic sample I	Sample Depth (ft	Blows per 6"	Recovery (inches	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPO moisture content, structure, angularity, maxir Geologic Unit (If Know	ONENT, mi mum grain vn)	nor component(s), size, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
				2	26.5		'-1' Organic soil				
2 3 4		0-4		3'	36.5		'-4' Tannish Brown sandy SILT, some Gravel up to 1.5" su	ibrounded to	ingular, dry to moist.		
567		4-8		3'	28.3		'-8' Brown sandy SILT, some Gravel up to 1" subrounded tetween 7.5 and 8'.	to angular, m	pist to wet. Dry	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 11 12 13 14 15 16 17 18 19 20							Refusal at 9.5'	Date Time	Depth to groundwater v	vhile drilling	
NOTES	5:							Jate Time	Deptn to groundwater v	vrille drilling	
		Checked by	/			Date:					

				Client:	Stewart	s Shops	nonvern			
EN	Project Number: 10275-008-300 BORIN Site Location: Columbia Mills, Minetto, NY Elevation: Sheet: 1 of and a sheet. Coordinates: Elevation: Sheet: 1 of a sheet. Sheet. Sheet.									
				Site Loco Coordin	ation:	Columb	Floyation: Sheet: 1 of 1			
				Drilling	Method.		Direct push Monitoring Well I	nstalled:	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	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Time Finishec 1/19/06 11:20 Water Level:		1	
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.)	
							6" Organic Soil grades to			
1							Gray brown sandy SILT, some Gravel up to 2" subrounded to angular, moist to wet.			
2		0-4		2.5'						
3					13.8					
4								an -		
					6.4		4'-5.5' Same as above, saturated	SB-3	4-6'	
5					0.4			(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	S:						Date Time Depth to groundwater v	vnile drilling		
		Checked by	/			Date:				

				Client:	Stewart	s Shops	10275 009 200	RORING ID	SR 4	
ER	SR.			Site Loc	ation:	Columb	ja Mills, Minetto, NY	bolaite ib.	504	
				Coordin	ates:		Elevation:	Sheet: 1 of 1		
				Drilling	Method	÷	Direct push	Monitoring Well In	istalled:	Ν
				Sample 2	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	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Time Finishec 1/19/06 10:20	Water Level:		
Depth (ft)	Geologic sample II	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, mine moisture content, structure, angularity, maximum grain siz Geologic Unit (If Known)	or component(s), ze, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4		0-4		2'	72.5		0'-4' Reddish brown fine to coarse SAND, some Silt, some Gravel up to 2" Orange Brown sandy SILT, some Gravel up to 0.5".	grades to		
5 6 7		4-8		4'			4'-5' Tan silty SAND. 5'-7.5' Orange silty SAND, trace Gravel, moist.			
8					95.7		7.5'-8' Gray silty SAND, moist to wet.			
9							8'-10' Same as above, wet.		SB-4 (8-11)	8-11 t=10:30
10 11		8-12		3.5'	109		10'-12' Gray sandy SILT, little Gravel, dry to moist.			
12 13							Refusal at 12'			
14										
16										
17										
18										
19										
20							Date Time	Depth to groundwater v	/hile drilling	
NOTES	5:								3	
		Checked by	у			Date:				

				Client:	Stewart	s Shops							
EN	SR			Project l	Number:		10275-008-300				BORING ID:	SB 5	
				Site Loce	ation:	Columb	ia Mills, Minetto, NY						
				Coordin	ates:		Eleva	ation:			Sheet: 1 of 1		
				Drilling	Method.	:	Direct push		,		Monitoring Well In	stalled:	N
Weather				Sample 1	lype(s):		2" by 4" Macro Core Borin	ng Diameter: 2 [°] /Timo Stantodi	1/10/0	6 0.40	Screened Interval:	11	NA
Drilling	Contrac	tor	Parratt-W	olff Inc			Ground Flevation: Date/	/Time Startea. /Time Finisher	1/19/0	6 9.40	Water Level	1	
Dritting	<u>еолагае</u>	.e E	I ullut II	s s	Ê		Brownia Electation.	Time T misnee	1/1//0	0 7.55	mater Eeven.	-	
Depth (ft)	Geologic sample	Sample Depth (f	Blows per 6"	Recovery (inche	Headspace (ppn	U.S.C.S	MATERIALS: Color, size, range moisture content, structure, a Geolog	e, MAIN COMF angularity, max gic Unit (If Kno	PONEN' imum g own)	T, min grain si	or component(s), ze, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4		0-4		3.8'	0.0		0'-4' Reddish brown fine to coarse SAN. Silt, moist, no odor.	ID, some Gravel uj	p to 1" su	brounde	d to angular, little	SB-5 (0-6)	0-6 t=10:00
5 6		4-8		3.5'	0.0		4-6.5' Same as above						
78							6.5'-8' Reddish brown sandy SILT, som	ne Gravel.					
9 10 11		8-11			0.0								
12 13 14							refusal at 11'						
15 16 17													
18 19 20													
Nom	a								Date	Time	Depth to groundwater w	hile drilling	
NOTE	5:												
						_							
		Checked by	/			Date:							

				Client:	Stewart	s Shops					
EN				Project l	Number:		10275-008-300		BORING ID:	SB 6	
				Site Loce	ation:	Columb	a Mills, Minetto, NY				
				Coordin	ates:		Elevation:		Sheet: 1 of 1		
				Drilling	Method.		Direct push		Monitoring Well In	istalled:	N
117 .1				Sample	Type(s):		2" by 4' MacroCore Boring Diameter: 2"	10/06 12 22	Screened Interval:	N	NA
Weather.	Contrac	tor	Dorrott W	olff Inc			Logged By: SRD Date/Time Started: 1/1	19/06 13:33	Depth of Boring: Y)	
Druung	0 0						Ground Elevation: Date/Time Finishet 1/1	19/00 14.07	waler Level.		
Depth (ft)	Geologic sample	Sample Depth (f	Blows per 6"	Recovery (inche	Headspace (ppm	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPO moisture content, structure, angularity, maxim Geologic Unit (If Known	NENT, min uum grain si n)	or component(s), ze, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4		0-4		2"	63.4)'-4' Brown sandy SILT, some Gravel up to 1.5" subrounded	to angular, m	oist.		
5 6 7 8		4-8		1.5'	85.2		4'-8' Same as above			SB-6 (4-8)	4-8 t=14:00
9		8-9		0			No recovery.				
10 11 12 13 14 15 16 17 18 19 20							Refusal at 9'.				
NOTE	S:			·			Da	ate Time	Depth to groundwater v	hile drilling	
TOTE											
		Chaoler J				Data:					
		Cnecked by	/			Date:					

ENSR.				Client:	Stewart	s Shops							
				Project l	Number:			BORING ID: SB 7					
				Site Loce	ation:	Columb	a Mills, Minetto, NY						
				Coordin	ates:		Elevation:		Sheet: 1 of 1				
				Drilling Method:			Direct push Monitoring We		Monitoring Well I	nstalled:	N		
Samj					lype(s):		2" by 4' MacroCore Boring Diameter: 2"	Diameter: 2" Screened Intervo		101	NA		
Drilling Contractor: Parratt-Wolff							Logged By: SRD Date/Time Started: 1/20/0 Ground Elevation: Date/Time Finisher 1/20/0)6 7:55)6 8·10	Depth of Boring: Water Level:	12			
Druung	<u>∈omitac</u>	ເຫ. ີ	1 arratt- **	onn, nic.	2		Ground Elevation. Dute/Time Tritishet 1/20/	0 0.10	water Level.				
Depth (ft)	Geologic sample	Sample Depth (f	Blows per 6"	Recovery (inche	Headspace (ppm	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONEN moisture content, structure, angularity, maximum y Geologic Unit (If Known)	ERIALS: Color, size, range, MAIN COMPONENT, minor component(s), pisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)			Lab Sample Depth (Ft.)		
1							0'-4' Reddish brown silty SAND, some Gravel up to 2" subrounded	d to angu	ılar, moist, no odor.				
23		0-4		2'	43								
4 5 6							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.)						
7 8		4-8		5"	44.3			Sand to	noo Silt moiot				
9 10		8-12			28.2			Sand, ti	ace one, moise.				
11				3' 51.7			10'-12' Gray brown fine to coarse SAND, some Gravel, little Clay, moist to wet.				10-12 t=08:15		
13							Refusal at 12'						
14													
16 17													
18													
19													
20 NOTES:							Date	Time	Depth to groundwater while drilling				
Checked by Date:													
Checked by Date:													
				Client:	Stewart	s Shops							
----------------	--------------------	-------------------	--------------	----------------------	-----------------	---------	--	---	--------------------------	--------------------	--	----------------	---------------------------
EN	SR.			Project l	Number:		10275-008-300				BORING ID:	SB 8	
				Site Loca	ation:	Columb	a Mills, Minetto, NY						
				Coordine Drilling	ates: Mothod		Direct push	n:			Sheet: 1 of 1 Monitoring Well I	netallad.	N
				Dritting Sample 7	Meinoa.	;	2" by 4' MacroCora Boring F	Diamotor: 2			Monitoring well In Screened Interval:	istatiea:	NA
Weather.				Sumple	ype(s).		Logged By: SRD Date/Tin	ne Started:	1/20/0)6 8:20	Depth of Boring:	11'	11/1
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Tim	ne Finishec	1/20/0	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, M moisture content, structure, ang Geologic	IAIN COM gularity, ma Unit (If Kn	PONEN ximum ş own)	T, min grain si	or component(s), ze, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
1		0-4 4-8 8-11		2' 2'	51.9)'-4' Reddish brown silty SAND, some Gra 	vel, moist. /n silty SAND vel, moist to v	• (weather vet.	ed conci	rete), brick, moist.	SB-8 (8-11)	8-11 t=8:45
18 19 20													
	-					•			Date	Time	Depth to groundwater v	/hile drilling	
NOTES	5:							ŀ					
								┝					
								_					
		Checked by	/			Date:							

				Client:	Stewart	s Shops					GP 10	
EN	SR.			Project l	Number:		0275-008-300			BORING ID:	SB 10	
				Site Loco Coordin	ation:	Columb	a Mills, Minetto, NY			Sheat: 1 of 1		
				Drilling	mes. Method		Direct push			Sheet. 1 0j 1 Monitoring Well h	ıstalled•	N
				Sample 7	Type(s):	•	2" by 4' MacroCore Boring Diameter:	2"		Screened Interval:	isianca.	NA
Weather:	•			Sample	<u>ype(b)</u>		Logged By: SRD Date/Time Started:	1/20/06	10:54	Depth of Boring:	12'	
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Time Finishec	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 COM moisture content, structure, angularity, ma Geologic Unit (If Ku	IPONENT aximum g nown)	Г, min rain si	or component(s), ze, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
1	5	0-4 4-8 8-12		4'	1.8 1.7 1.6 2 1.7		7-4' Reddish brown silty SAND, some Gravel up to 1" in a state of the state of t	angular, mo toist. e Gravel, mo zel up to 1.5 Silt, saturat to dry.	ist. Dist.	ounded to angular,	SB-10 (8-10)	8-10 t-12:00
15 16 17 18 19												
20							T	Det-	Time	Dopth to group third	المتعالم الم	
NOTE	5:						ŀ	Date	Ime	Depth to groundwater v	nile drilling/	
								T				
		a				D.	ļ					
l		Checked by	/			Date:						

				Client:	Stewart	s Shops				
EN	SR			Project l	Number:		10275-008-300	BORING ID:	SB 11	
				Site Loca	ation:	Columb	ia Mills, Minetto, NY			
				Coordin	ates:		Elevation: S	Sheet: 1 of 1	. 11 1	274
				Drilling	Method.	:	Direct push // MagraCona Boring Diamatory 2"	Monitoring Well Ir Someoned Internali	stalled:	NA
Weather				Sample I	type(s):		<i>Z by 4 Macrocore Boring Diameter: 2 S</i> Logged By: SBD <i>Date/Time Started</i> : 1/20/06 9:59 <i>I</i>	Depth of Boring:	1.5'	IVA
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Time Finisher 1/20/06 10:35 V	Vater Level:	1.0	
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, mino moisture content, structure, angularity, maximum grain size Geologic Unit (If Known)	r component(s), æ, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
							0'-2' Gray brown silty SAND, some Gravel up to 1", moist, some staining 1.:	5'-2'.		
1										
					1.9					
2		0-4		4'			2' 4' Oron og brown gan dy SILT, ganne Growel, meist			
3					1.7		2 -4 Orange brown sandy S1L1, some Gravel, moist.			
							4'-6' Same as above			
5 6		4-8		3'	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				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		8-11.5			2.1		10'-11.5' Orange brown fine to coarse SAND, some Gravel up to 1.5" angula	ar, saturated.		
12							Refusal at 11.5'			
13										
14										
15										
16										
17										
18										
19										
20										
NOTE	S:						Date Time D	veptn to groundwater w	nile drilling	
		Checked by	/			Date:				

				Client:	Stewart	s Shops					BOBILIC ID	GD 10	
EN	SR.			Project l	Number:	<u></u>	10275-008-300				BORING ID:	SB 12	
				Site Loco	ation:	Columb	a Mills, Minetto, NY	tion.			Shoot, 1 of 1		
				Drilling	ales: Method		Direct nuch	uion:			Sheel: 1 0J 1 Monitoring Well II	nstallød:	N
				Sample 7	Type(s):	,	2" by 4' MacroCore Borin	e Diameter: 2	"		Screened Interval:	isianca.	NA
Weather.				Sampre	<u> </u>		Logged By: SRD Date/	Time Started:	1	/20/06	Depth of Boring:	12	
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/	Time Finishec	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 moisture content, structure, a Geolog	e, MAIN COM angularity, ma gic Unit (If Kn	PONEN' ximum g own)	Г, mine rain si	or component(s), ze, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3		0-4		3'	1.4		0'-4' Tannish brown SILT, some Sand, E	little Gravel, mois	st, trace sta	iining at	1.5'.		
4					1.4								
5				2'	1.5		4'-5' Same as above except some dark gr 5'-8' Same as above, wet.	ray mottling and	wet			SB-12 (4-6)	4-6 t=13:45
7		4-8		2	1.5							SB-12 (6-8)	6-8 t=13:45
9				2.5			8'-12' Same as above, wet.						
		8-12			1.2								
							Refusal at 12'						
15													
16 17													
18													
20													
NOTE	ə.								Date	Time	Depth to groundwater w	/hile drilling	
NOTES	5:							F					
								F					
		Ch. 1 . 1	_			Der							
		Unecked by	/			Date:							

				Client:	Stewart	s Shops	10275 000 200	BOBINC ID.	CD 12	
EN	SR.			Project I Site Loci	vumber: ation:	Columb	ia Mills. Minetto. NY	BORING ID:	50 15	
				Coordin	ates:	conunic	Elevation:	Sheet: 1 of 1		
				Drilling	Method.	•	Direct push	Monitoring Well I	nstalled:	Ν
				Sample 7	Type(s):	2" by 4'	MacroCore Boring Diameter: 2"	Screened Interval.		NA
Weather.	•						Logged By: SRD Date/Time Started: 1/20/06 13	:00 Depth of Boring:	12'	
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Time Finishec 1/20/06 13	:40 Water Level:		1
Depth (ft)	Geologic sample II	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, moisture content, structure, angularity, maximum gra Geologic Unit (If Known)	ninor component(s), n size, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3		0-4		2'	0.5		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.		
4 5 6		4-8		6"	0.5		4'-6' Reddish brown sandy SILT, some Gravel moist to wet.			
78					11.4		6'-8' Tannish brown silty SAND, some Gravel up to 2", saturated.		SB-13 (6-8)	6-8 t=8:46
9 10 11		8-12		4'	76.6 2.8		8'-12' Tan fine to coarse SAND, some Gravel up to 1" moist to dry.			
12 13 14 15 16 17 18 19							Refusal at 12'			
20							Date Ti	ne Depth to groundwater	vhile drillina	
NOTES	5:								· ····9	
							├			
		Checked by	v			Date:				

				Client:	Stewart	s Shops				DODING ID	GD 14	
EN	SR.			Project 1	Number:	Calumb	10275-008-300			BORING ID:	SB 14	
				Site Loca Coordin	ation: ates:	Columb	14 Mills, Minetto, N Y			Sheet: 1 of 1		
				Drilling	Method	· · · ·	Direct push			Monitoring Well I	nstalled:	N
				Sample 1	Type(s):		2" by 4' MacroCore Boring Diameter: 2"			Screened Interval:		NA
Weather.							Logged By: SRD Date/Time Started: 1/	/20/06 1	4:30	Depth of Boring:	11'	
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Time Finishec 1/2	/20/06 1	5:00	Water Level:		1
Depth (ft)	Geologic sample IL	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPO moisture content, structure, angularity, maxim Geologic Unit (If Known	DNENT, num gra n)	, mine ain si	or component(s), ze, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4		0-4		2.2'	1.9		0'-4' Reddish brown fine to coarse SAND, some Gravel, moi	ist.				
5 6 7 8		4-8		3'	1.8		4" slough 4'-7' Brown fine to coarse SAND, little Gravel, wet to satural 7'-8' Reddish brown fine to coarse SAND, some Gravel.	ated.				
9 9 10 11		8-11		3'	2		8'-10' Brown fine to coarse SAND, little Gravel, trace Silt, sa 10'-11' Brown Gravel, some Sand, wet to saturated.	aturated.			SB-14 (10-11)	8-11' t=16:25
12 13 14 15 16 17 18 19 20							refusal at 11'					
20							Da	ate T	Time	Depth to groundwater v	vhile drilling	
NOTES	S:	Sample S	B 14 (10-11) was colle	ected ove	r the inter	val between 8 and 11 feet bgs. This was		-		.9	
		necessary	as there ins	ufficient r	ecovery i	n the 10-	1 toot interval for analyses requested.					
		Checked by	/			Date:						

				Client:	Stewart	s Shops			
EN	SR.			Project 1	Number:		10275-008-300 BORING ID	: SB 15	
				Site Loca	ation:	Columb	ia Mills, Minetto, NY		
				Cooraina Drillina	ates: Method		Elevation: Sheet: 1 of 1 Direct push Monitoring Well I	nstalled	N
				Sample T	Type(s):		2"by 4' MacroCore Boring Diameter: 2" Screened Interval		NA
Weather:				~	<i>J</i> F = (<i>x</i>):		Logged By: SRD Date/Time Started: 1/23/06 8:40 Depth of Boring:	11.5	
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Time Finishec 1/23/06 9:00 Water Level:		
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	N.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		2.5'	0.5		0-0.5' Concrete 0.5-2' Reddish brown silty SAND, some Gravel, dry to moist.		
3					0.8		2'-4' sandy SILT, some Gravel, moist.		
5		4-8		2.5'	0.8		4'-6' Same as above except saturated.	SB-15 (4-6)	4-6 t=9:30
7					0.4		6'-8' Few inches of rock overlying red brown clayey fine SAND, wet to saturated.		
9							8'-11.5' Red brown clayey SILT, some SAND, some Gravel, moist.		
10		8-11.5			0.8				
11					0.7				
12 13							Refusal at 11.5'		
14									
15									
16 17									
18									
19									
20 NOTES	5:						Date Time Depth to groundwater	while drilling	
		Checked by	/			Date:			

				Client:	Stewart	s Shops		DODING ID	CD 16	
EN	SR.			Project l	Number:	<u></u>	10275-008-300	BORING ID:	SB 16	
				Site Loco Coordin	ation:	Columb	IA MIIIS, MINEtto, NY Floration: Sh	heat: 1 of 1		
				Drilling	Method.		Direct push M	leel. 1 0j 1 Ionitoring Well In	stalled:	N
				Sample 2	Type(s):		2" by 4' MacroCore Boring Diameter: 2" Sc	creened Interval:		NA
Weather.							Logged By: SRD Date/Time Started: 1/20/06 10:54 De	epth of Boring: 1	1'	
Drilling	Contrac	tor:	Parratt-W	olff, Inc.			Ground Elevation: Date/Time Finishec 1/20/06 13:20 W	ater 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 moisture content, structure, angularity, maximum grain size, Geologic Unit (If Known)	component(s), e, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
1		0.4		2'			0'-2' fine to medium SAND, moist.			
3		0-4		2	0.9		 2-2.3 dark bolwn fock fragments. 2.5-3' Brown f-c SAND, moist. 3'-4' Brown sandy SILT, moist. 			
4							4'-7' Brown silty SAND, some Gravel, wet.			
5 6		4-8		3'	1.9					
7					1.5		7'-8' Reddish brown SILT, some Gravel, little Sand, moist.		SB-16	8-9 5
9		8-11		3'	1.2		8'-9.5' Brown fine to coarse SAND, some SILT.		(8-9.5)	16:00
10					1.6		9.5'-11' Brown Gravel, some fine to coarse Sand, wet.			
12							Refusal at 11'			
13										
15										
16										
17 										
19										
20										
NOT	g.						Date Time De	epth to groundwater w	hile drilling	-
NOTE	5:									
		Checked by	,			Date:				

				Client:	Stewarts	s Shops							
EN	SR			Project 1	Number:		10275-008-300				BORING ID:	SB 17	
				Site Loce	ation:	Columb	ia Mills, Minetto, NY						
				Coordin	ates:		E	Elevation:			Sheet: 1 of 1		
				Drilling	Method:	•	Direct push		<u> </u>		Monitoring Well I	nstalled:	N
Weather				Sample	lype(s):		2" by 4' MacroCore B	Boring Diameter:	2"	15.02	Screened Interval:	10'	NA
weather. Drilling	Contrac	tor	Parratt-W	olff Inc			Ground Flevation:	Date/Time Stariea: Date/Time Finisher	1/23/06	5 15:05 5 15:20	Depin of Boring: Water Level	10	
Druung	<u>еоли</u> тие А		Tarratt W	s s	(1		Ground Elevation.	Juie/Time Timisnet	1/25/00	15.20	Water Level.		
Depth (ft)	Geologic sample	Sample Depth (f	Blows per 6"	Recovery (inche	Headspace (ppn	U.S.C.S	MATERIALS: Color, size, ra moisture content, structu Ga	ange, MAIN COM 1re, angularity, ma eologic Unit (If Ki	1PONEN aximum g nown)	T, min grain si	or component(s), ze, odor, and	Lab Sample ID	Lab Sample Depth (Ft.)
							0'-4' Reddish brown silty SAND, s	some Gravel up to 2"	subrounded	l to ang	lar, dry to moist.		
1 		0-4		2'	0.5								
				_									
3					0.5								
4							d' 6' Sama as abova						
5													
					1.9								
6		4-8		2'									
							6'-8' Same as above, except moist t	to wet.					
7					1.4								
8					1.4								
							8'-10' Gray-brown silty SAND, sor some staining in shoe.	me Gravel up to 1.5"	subrounde	d to ang	ılar, moist to wet,	SB-17	8-10
9		8-10		1.2'	0.8							(8-10)	t=15:25
10							Refusal at 10'						
11													
12													
12													
15 <u> </u>													
14													
15													
16													
17													
18													
19													
20									Date	Time	Depth to groundwater v	vhile drilling	
NOTE	S:												
								-					
								ŀ					
								ļ					
		Checked by	/			Date:							



APPENDIX C Monitoring Well Construction Details







	Client: Stewarts Shops		
ENSK.	Project Number: 10275-008-300	WELL IC): MW-4
INTERNATIONAL	Site Location: Columbia Mills Minetto, No	Mark Date Installed:	25-06
	Well Location: WW-4 Coords:	Inspector: Sear	Dolan
	Method: H3H	Contractor:	ratt wolff.
	MONITORING WELL CONSTRUCT	ION DETAIL	
		Depth from G.S. (feet)	Elevation(feet) Datum <u>relation</u>
Measuring Boint	Top of Steel Guard Pipe	0.0	100,00
for Surveying &	Top of Riser Pipe	0.32	99.68
	Ground Surface (G.S.)	0.0	100.00
Cement, Bentonite, Bentonite Slurry Grout, or Native Materials % Cement	Riser Pipe: Length <u>3.48</u> Inside Diameter (ID) <u>2</u> ^m Type of Material <u>PVC</u>		
% Bentonite	Bottom of Steel Guard Pipe	NA	NA
% Native Materials			- 6
	Top of Bentonite	1.0	99.00
	Bentonite Seal Thickness	x Qu	00 0
	Top of Sand	1.8	78.2
	Top of Screen	3.8	96.2
	Stabilized Water Level		
	Screen: Length		
	Inside Diameter (ID) Slot Size Type of Material		
	Type/Size of Sand Q-US SILICA Sand Pack Thickness		
	Bottom of Screen	13.8	86.2
	Bottom of Tall Pipe:	13.8	86.2
	Bottom of Borehole	13.8	86.2
Bore	shole Diameter: Approved:		
Describe Measuring Point: High Point on PVZ	- GuingSignature	Date	





APPENDIX D Monitoring Well Development Records

ΞN	SR.	N	Mall/I	Diozomo	tor Develo				Well/Piez. ID:	-/
Client: Project No	<u>A Sema.</u> : 10275-0	13 Shq 08-30	Date:	Site Location	1 er Develoj 1: <u>Fa.How, N</u> <u>2</u> /1/06	p ment M Developer				
WELL/PIE	ZOMETER DAT	Γ Α		/						
Well		Piezometer	r 🗆		Diameter2			Material	YO PR	
Measuring	Point Descriptio	on	hig	hest	-	Geology at	t Screen Inte	erval	SIH	
Depth to T	op of Screen (ft.	.)	4	/	-	(if known)				
Depth to E	Bottom of Screen	(ft.)	14	/	_	Time of W	ater Level N	leasurem	ent	12:15
Total Well	Depth (ft.)		14	1	_	Calculate I	^o urge Volun	ne (gal.)		0.46
Depth to S	Static Water Leve	əl (ft.)	~~~~	<u></u>	<u>1</u> 1.16	Disposal M	lethod		nin	
						Wellhead I	PID/FID		······	
Original W	ell Development			Redevelopm	ent	Date of Or	iginal Devel	opment		
DEVELOF	MENT METHO	D	bail	er	-	PURGE M	ETHOD			
Field Testi	ing Equipment U	sed:			Make	Мо	del	Seri	al Number	
Field Testi	ing Calibration D	ocumentatio	on Foun	d in Field Note	ebook #	P	age #			_
Time	Volume Removed (gal)	T° (C/F)	рН	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other	
										-
										-
										1
ACCEPTA Min. Purge Maximum Stabilizatio	NCE CRITERIA Volume (<u>/o</u> Turbidity Allowed In of parameters	(from work well volume #NTU #%	kplan) s) <u>-4. ℓ</u> Js	gallons	Has required volu Has required turbi Have parameters If no or N/A exp purged dry As practice	me been re dity been re stabilized lain below:	moved eached d <u>allowe</u> tical.	Yes	No N/A D D D D D D D D D D D D D	much
Signature	-Ank	all	****	M. W			Date:	2/1/	06	

Client:	Stewn As	Shops		Site Locatior	: Faltor	NY			
Project No	:/0275-00	18 3-00	Date:	1/25/06	-	(Developer	: <u>S,D</u>	har	
WELL/PIE	ZOMETER DAT	A							
Well 🔽	}	Piezometer			Diameter			Material _	PVC
Measurinç	9 Point Descriptio	'n	higi	hest	-	Geology a	t Screen Int	erval	Acs
Depth to T	op of Screen (ft.)	4	4	-	(if known)			
Depth to E	Bottom of Screen	(ft.)	14		••	Time of W	ater Level N	leasureme	nt
Total Well	Depth (ft.)		- 14		-	Calculate	Purge Volur	ne (gal.)	
Depth to S	Static Water Leve	el (ft.)	~4	1	-	Disposal N	Nethod	dm	AAn
						Wellhead	PID/FID		
Original W	ell Development			Redevelopm	ent	Date of Or	riginal Devel	opment _	1/25/26
DEVELO	MENT METHO	ַ	what	e pung	-	PURGE M	IETHOD		¥
Field Test	ing Equipment U ing Calibration D	sed: ocumentatio	on Foun	d in Field Note	Make	M	odel Page #	Seria	al Number
Field Test	ing Equipment U ing Calibration D	sed: ocumentatio	on Foun	d in Field Note	Make 	M.	odel 	Seria	al Number
Field Test Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatic T° (C/F)	on Foun pH	d in Field Note	Make ebook # Turbidity (NTUs)	Mi	odel Page # Color	Seria	al Number
Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	pn Foun	d in Field Note	Make ebook # Turbidity (NTUs)	Mi	odel Page # Color	Seria Odor	al Number
Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	pn Foun	d in Field Note	Make ebook # Turbidity (NTUs)	Mi	odel Page # Color	Seria Odor	Al Number
Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	ph Foun	d in Field Note	Make	DO	Color	Seria Odor	Al Number
Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	ph Foun	d in Field Note	Make	M	Color	Seria Odor	Al Number
Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	pH	d in Field Note	Make	M	Del	Seria Odor	Al Number
Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	pH	d in Field Note	Make	M	Del 2000 #	Seria	Al Number
Field Test	Ing Equipment U Ing Calibration D Volume Removed (gal) 	sed: 	on Foun <u>pH</u> (pH) (plan) (b) Js	d in Field Note	Make	Mi DO DO Interest of the stabilized Dain below:	emoved eached	Seria	Al Number

Client:	Stewarts ?	shows		Site Locatio	n: Fin How I	M			
Project No	D: 18215-008	. 300	Date:	1/26/04		Developer	: 5, Dol	AN	
		ra -							
Well 🕅		Piezomete	,		Diamotor 2"			Bernard	PUL
Measuring	' Point Descriptic	n	' L hial	last			• O === = = 1 = 1	Material	100
Depth to 1	Fon of Screen (ft	1		1		(if known)	t Screen Int	ervai	<u> </u>
Depth to F	Bottom of Screen	· /		11	_	T '			•
Total Mol	Denth (ft)	. (14.)		/	2050	ume of W	ater Level N	/leasurem	ent
Denth to 9	Static Mator Low	al (ft)	· /	1551	_	Calculate	Purge Volur	ne (gal.)	
oopin to a	Jiano Waldi Leve	əi (IL.)	l	<u>1 _1 _1 _1 _1 _1 _1 _1 _1 _1 _1 _1 _1 _1</u>	_	Uisposal N	riethod	dr	21 <i>0</i> 0
Original M				.	. —	Wellhead	PID/FID		
				Hedevelopn	nent 🛄	Date of Or	iginal Devel	opment	
DEVELO	PMENIMEIHO	ט	Wha Q	prop		PURGE M	ETHOD		
Field Test	ing Equipment U	sed:	_		Make	Mo	odel	Ser	ial Number
Field Test Field Test	ing Equipment U ing Calibration D	sed: ocumentatio	on Foun	d in Field Not	Make	Мс	odel 	Seri	ial Number
Field Test Field Test Time	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	on Foun	d in Field Not Spec. Cond (umhos)	Make ebook #	P DO	odel 'age #	Seri	other
Field Test Field Test Time	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	pn Foun	d in Field Not Spec. Cond (umhos)	Make ebook #	Мс Р 	odel 'age #	Seri	ial Number
Field Test Field Test Time	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	ph Foun	d in Field Not	Make ebook #	Мс Р 	odel 'age #	Seri Odor	ial Number
Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	pH	d in Field Not	Make	Mc P	odel 'age # Color	Odor	ial Number
Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	pH	d in Field Not	Make ebook #	Mc	odel 'age # Color	Odor	ial Number
Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	pH	d in Field Not	Make	Mc P	odel Page # Color	Seri	ial Number
Field Test	ing Equipment U ing Calibration D Volume Removed (gal)	sed: ocumentatio	pH	d in Field Not	Make	Mc	odel 'age # Color	Seri	ial Number
Field Test Field Test Time Time ACCEPTA Min. Purge Maximum Stabilizatic	Volume Removed (gal) Removed (gal)	sed: ocumentation 	pH pH s) <u>∕S;</u> y Js	d in Field Not	Make	Mo	color Color	Seri	No N/A Image: No N/A Image: No N/A Image: No N/A Image: Image: No N/A Image: I
Field Test Field Test Time Time ACCEPTA Min. Purge Maximum Stabilizatic	Ing Equipment U Ing Calibration D Volume Removed (gal) NCE CRITERIA Volume (<u>/</u> Turbidity Allowed on of parameters	sed: ocumentation T° (C/F) 	pH pH s) ∕ <u>S;</u> ∕ Js	d in Field Not	Make Turbidity (NTUs) Turbidity (NTUs) Has required volu Has required turbi Have parameters If no or N/A exp	Mo	odel Page # Color Color moved bached	Seri	Image: Number Other Image: No No No Image: No

	KR.	v	Vell/I	Piezome	ter Develo	nment	Record	4	MW4	•
Olianti	Sharra Aria &	st al			KIL. M		necon	4		
Client:	NewArts 0	- 008-3	500	Site Location	: <u>[[] [] [] [] []</u>		< ;	>/		
Project No	0: 2000 /02	3	Date:	125/06	-	Developer		JAN		
WELL/PI	EZOMETER DAT	A							,	
Well 🔀	1	Piezometer	r 🗆		Diameter2/	·/		Material _	PVC	
Measuring	g Point Descriptic	'n	high	lest	-	Geology at	t Screen Int	erval	silty S	qN.
Depth to 7	Top of Screen (ft.)	4	1	-	(if known)				
Depth to [Bottom of Screen	(ft.)	14	/		Time of W	ater Level N	Measureme	ent	_
Total Wel	ll Depth (ft.)		14	•/	-	Calculate I	Purge Volur	me (gal.)		_
Depth to \$	Static Water Leve	el (ft.)	~ 7	7'	-	Disposal N	lethod	down	h	
						Wellhead I	PID/FID			
Original V	Vell Development			Redevelopm	ent	Date of Or	iginal Deve	lopment	1/20/06	
DEVELO	PMENT METHO	D.	while	pump		PURGE M	ETHOD		,	
Field Test	ting Equipment U	sed:	6	· /	Make	N.		-	al Niccala au	
Field Test	ting Calibration D	ocumentatio	on Foun	d in Field Note	ebook #		age #	Seri		
Field Test	ting Calibration D	ocumentatio	on Foun	d in Field Note	ebook #	P	2age #	Seri		
Field Test	ting Calibration D Volume Removed (gal)	ocumentatic	on Foun pH	d in Field Note Spec. Cond (umhos)	ebook #	P P	age #	Seri	Other	
Field Test	ting Calibration D Volume Removed (gal)	ocumentatio	pH	d in Field Note Spec. Cond (umhos)	book #	DO	'age #	Odor	Other	
Field Test	ting Calibration D Volume Removed (gal)	ocumentatio	pH	d in Field Note	ebook # Turbidity (NTUs)	DO	age #	Odor	Other	
Field Test	ting Calibration D Volume Removed (gal)	ocumentatio	pH	d in Field Note	book #	DO	2age #	Odor	Other	
Field Test	ting Calibration D Volume Removed (gal)	ocumentatio	pH	d in Field Note	book #	DO	Color	Odor		
Field Test	ting Calibration D Volume Removed (gal)	ocumentatio	pH	d in Field Note	2book #	DO	Color	Odor		
Field Test	ting Calibration D Volume Removed (gal)	ocumentatio	pH	d in Field Note	ebook #	DO	Color	Odor		
Field Test	Volume Removed (gal)	ocumentatio	on Foun <u>pH</u> (plan) s) <u>//. 4</u> Js	d in Field Note	Has required volu Has required turb Have parameters If no or N/A exp Rurged dry	DO DO DO DO DO DO DO DO DO DO DO DO DO D	Color Color	Seri		
Field Test	Volume Removed (gal)	ocumentatio	on Foun <u>pH</u> (plan) s) <u>//. 4</u> Js	d in Field Note	As required volutions and the sequired to the sequence of the	DO DO DO DO DO DO DO DO DO DO DO DO DO D	Color Color	Seri		

ΞŅ	SR.		A.F 11/P	,		a , ا	-		Well/Piez. ID MW	5
		١	vell/ł	lezome	ter Develo	pment	Record	1		
Client:	Stempts	Shops.	-	Site Location	E Fr How	M				
Project No): 10275 00	8 300	Date:	1/25/26	-	Developer:	5. T.	lar		
WELL/PIE	ZOMETER DAT	A			72					
Well 🖂	t	Piezomete	r 🗌		Diameter	<u></u>		Material	\$ pre	
Measuring	g Point Descriptio	on	high	s t-f -4414	-	Geology at	Screen Inte	erval	Silly SAND	>
Depth to 1	Fop of Screen (ft.	.)	<u> </u>			(if known)				
Depth to E	Bottom of Screen	(ft.)	14'		-	Time of Wa	ater Level N	leasureme	ent	11:10
Total Wel	I Depth (ft.)		14'		-	Calculate F	urge Volun	ne (gal.)		~1.75 g./
Depth to S	Static Water Leve	el (ft.)	3.2	5'	-	Disposal M	ethod	Dorum		-
						Wellhead F	PID/FID			
Original W	Vell Development	t 🖂		Redevelopm	ent	Date of Ori	ginal Devel	opment	1/25/06	
DEVELO	PMENT METHO	D	who's	pinna	-	PURGE MI	ETHOD		And 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Field Test	ing Equipment U	sed:		ç •	Make	Мо	del	Seri	ial Number	
Field Test	ing Calibration D	ocumentati	on Foun	d in Field Note	ebook #	P	age #			-
Time	Removed (gal)	T° (C/F)	рН	(umhos)	Turbidity (NTUs)	DO	Color	Odor	Other	_
										-
										_
										-
										_
ACCEPTA Min. Purge Maximum Stabilizatio	ANCE CRITERIA e Volume (Turbidity Allowed on of parameters	d (from wor well volume d NT	kplan) es) <u>*//</u> // Us	gallons	Has required volu Has required turb Have parameters If no or N/A exp	ime been re idity been re stabilized blain below:	moved eached		No N/A	
		1								
Signature	July	ß					Date:	1/Z5,	106	
U		tryft X		*****				1 /		
					DTW MW2	13,7) 7			



APPENDIX E Groundwater Sample Collection Records



13.26

Well ID:Mw-1

Low Flow Ground Water Sample Collection Record

Site Location: <u>Columbia mills</u>	N.,	<u>,</u> П	me: Start u	ois (am/p
			Finish_	am/p
Weather Conds: Overcas f & Coro	Collector(s):	nn Imhoff,	15-0-1	
1. WATER LEVEL DATA: (measured from Top of Ca	sina)		Jean Ver	
a. Total Well Length 14.68 c. Length of Water	Column 3.52 (a	ı-b)	Casing Diar	meter/Material
b. water Table Depth 11.10 d. Calculated Syste	em Volume (see back)	0.57	~ ~	VC
a. Purge Method: Purged 3 gallons (5.2)	r Volume) du	in develops	rent 1	Am
b. Acceptance Criteria defined (see workplan)		·) · · ·		
- Temperature 3% -D.O. 10	%			
- Sp. Cond. 3% - ORP ± 1	0mV			
C Field Testing F	.3'			
C. Heid Testing Equipment used:	Mod	el	Serial	Numbor
in the second se	0-22	la se an an an an an a		radinpel
Volume		- 25 		
(24hr) (Liters) (°C/F) (SU) Spec. Cond. DO	ORP Turbid	ity Flow Rate	Drawdown	Cala-/O.L
6.02 8.04 0.705 7.29) (mV) (NTU	(ml/min)	(feet)	Color/Odor
	/33 //.2			None
		n and a second	anggan generation	
and the second field to append the second				
d. Acceptance criteria pass/fail Yes	No N/A			
Has required turbidity been removed			(0	continued on back)
Have parameters stabilized			· .	
If no or N/A - Explain below				
A second s				
SAMPLE COLLECTION				
Method: Teristaltic	inp			
nple ID Container Type No. of Containers				
-1 VOA 40m0 2 1 SOO ME PLASH:	Preservation HCI	Analysis R V 0C s	leq.	Time /600
-1 IL Ambes glass 1	HNOZ	metals		600
1-1 1 - Ambes glass 1	NON	PCBS	/	600
in in it way	· //	SVOL	16	00
ments fin the A	to share an	ber cr.	ney 16	00
and volume and Appropriate due				
ments low Flow Nor Appropriate due al volumes purged during well Developme Peristance funde ability well Developme	tin AM. Sam	ele collecte	A brank	1
ments low flow Nor Appropriate due at volumes purged during well revelopme peristance Pring. Nell went day during completed same collection to the	serpily . I	et well re	id direct	ly 20 mm
ments low flow Nor Appropriate due al volumes purged during well bevelopme penistourie Pomp. Nell went day during completed cample collection & Giero Par	sampling. T.	et collecte et well re	d direct	ty ZO mini



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5/15/02



Well ID: MW-2

Low Flow Ground Water Sample Collection Record

Client: STEWARTS Project No: 10275-008-300 Site Location: COLO Furnes overcas Weather Conds:	Date: 2/1/06	Time: Sta	art <u>1145</u> am/pm isham/pm
1. WATER LEVEL DATA: (measured from Top of Ca a. Total Well Length <u>*14.02</u> c. Length of Wate	asing) er Column <u>(0,39</u> (a-l	b) Casing	Diameter/Material
 a. Purge Method: <u>Graphing Forsmunic func</u> 	tem Volume (see back)	1043/101	
b. Acceptance Criteria defined (see workplan) - Temperature 3% -D.O. 1(- pH <u>+</u> 1.0 unit - ORP <u>+</u> - Sp. Cond. 3% - Drawdown <	0% 10mV 0.3'		
c. Field Testing Equipment used: Make	Mode 1) -22	S PINE H	erial Number 01519
Volume <u>Time Removed Temp. pH Spec. Cond. DC</u> (24hr) (Liters) (°C/F) (SU) (µS/cm) (mg/	<u>D ORP Turbidit</u> /L) (mV) (NTU)	y <u>Flow Rate</u> Drawdo (ml/min) (feet)	wn Color/Odor
150 0 7.73 7.76 0.480 2.80 1:59 1 8.17 7.79 0.503 1.31 2:05 1.5- 8.19 7.68 0.519 8.83 2:10 1.7.5- 8.39 7.58 0.5-29 0.5	$ \begin{array}{c} 6 & 13.5 \\ -23 & 25.0 \\ 7 & -47 & 28.8 \\ 2 & -97 & 28.8 \\ \end{array} $	7.61 250me/min 7.65 250 7.66 250 7.66	Naptha-like
2://5- 2.0 3:34 7.52 3:39 3:41 1:20 2:2 8:38 7:50 0:537 0:30 d. Acceptance criteria pass/fail Yes Yes Yes	-62 21.5 -67 16.6 No N/A	250 7.66 250 7.66 250 7.66	
Has required turbidity been reached Have parameters stabilized If no or N/A - Explain below.			
SAMPLE COLLECTION: Method: Geo fun,	, Peristactic	100-200 m2/m	1
Imple IDContainer TypeNo. of Containersw-240 meviA2-2501 mePrantic1	Preservation	Analysis Req.	Time (230
w-2 LAmber (w-2 LAmber 1 -2 LAmber 2 mments	MN03 N.P N	METALS SVOCS PERI Dioxins/Furthes	1230 1230 1230 1230
nature		_Date	11/2006







No.

Low Flow Ground Water Sample Collection Record

	Client: Project No Site Locat Weather (2. <u>/</u> 2 bion: Conds:	275- Collun SMJ1	ts - 253 - . h . n _ / . h	300 11.118 Mint	ettu M	Date: Collector(s):5.	т Давал	ime: Start Finish	1316 am/pm 345 am/pm
	1. WATE a. Tota b. Wat	R LEVEL Il Well Le er Table (DATA: ngth 3.3 Depth	(measu 2.74 5-65	red from Top c. Length c d. Calculate	p of Casing of Water Col ed System '	3) lumn <u>////</u> Volume (see	ک (a-b) e back)	,7	Casing Dia	meter/Material
14 3	2. WELL a. Purg	PURGE [e Method		×¢	Geo P.	mp	Penson	ALTIC	Pimp		
3.35	b. Acce - Temp - pH - Sp. C	eptance C erature ond.	riteria d 3% <u>+</u> 1. 3%	efined (s 0 unit	ee workplan) -D.O. - ORP - Drawdow) 10% <u>+</u> 10m n < 0.3'	v		φ		-Sig.
	c. Field	Testing I	Equipme	ent used: -	Hoe	lake b A	,	Model U - 23	Į.,	Seria PINE 0	Number
	<u>Time</u> [(24hr)	Volume Removed (Liters)	<u>Temp.</u> (°C/F)	- <u>pH</u> (SU)	Spec. Cond (µS/cm)	<u>. DO</u> (mg/L)	ORP (mV)	Turbidity	Flow Rate	Drawdown	Color/Odor
Ĵ.	13:10 3 13:10 13:18 13:24	0 0.5 1	6.74 8.75 8.65	7.85 7.79 7.78	0.320	10.06	67 30	94	250-2/2	3.37 3.63 3.63	
1345 mple	13:29 13:35 13:43	1.5 2 2.5	8.77 <u>8.99</u> 7.07	7.78 7.77 7.76	0.333 0.330 0.325	1.24 1.30 1.42	38 39 43	38.2 26 17.2	250 250 250 250	3,60 3,6 3,6 3,6	No odor Colorless
500.	Has Has Have If	required t required t paramet no or N/A	volume l urbidity ers stab A - Expla	iss/fail been ren been rea ilized ain belov	noved ached v.	Yes No			-		(continued on back)
	3. SAMPLI	ECOLLE	CTION:	N	lethod: Lo.	n flow	i the Ge	chimp	Peristra	Enic Pu	~~~^°
	Sample ID	Con 4	tainer T Onl wl P	vpe VDA Lastic	No. of Conta Z	ainers	Preserv HCL	vation	Analysis VDC:	s Req.	Time 1345
	Comments		Amber Amber Imber	Glass Glass Glas	s s s 2		N.P. N.P N.P	3	Svo PCBC Diorns/	cs frans	1345 1345 1345 1345
	Signature	2	ġ,	R	wh				_Date _	2/1/06	

							ti yakara magan				ata X	
	Purae	Volume C	alculati	on		5						
	3-											
C* 3033		32	· 114 - 1600	i	Z		-	n de trans 1945 Alexandre de trans	ĝi Malektore			
					10 2% * 10 6 7	6' D 6' D		Volume ID (in) 0.25 0.375 0.5 1.25 1.25 1.5 2.5 3 4	/ Linear Gallon 5 0.0025 5 0.0102 5 0.0102 5 0.0229 1 0.0408 5 0.0637 5 0.0918 2 0.1632 5 0.2550 3 0.3672 4 0.6528	Ft. of Pipe Liter 0.0097 0.0217 0.0386 0.0869 0.1544 0.2413 0.3475 0.6178 0.9653 1.3900 2.4711		
			G	allons of W	ater in Well		nu Nagaran	En e	5 1.4688	5.5600		
	(continued Time (24 hr)	d from front) Volume Removed (Liters)	d Temp (°C)	pН	Spec. Conc (uS/cm)	i . DO (ma/l.)	ORP (mV)	Turbidity (NTU)	Flow Rate	e Drawdown	Color/Odor	-17
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		and the second sec		n an								
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Well ID: MW-4

Low Flow Ground Water Sample Collection Record

Client:	Stewar	255				Date: 2	1,100	T:		lot a
Project N	No: 10	275-	008	-300					me: Start	<u>/723</u> am/pm
Site Loc	ation: Co	Jumbi	A Mi	115 minet	CNY.				Finisn_	am/pm
Weather	Conds:	Snowin	y \$32	0,2		Collector(s): <u>Sean</u>	Docan É	John In	nhoff
1. WAT	ER LEVEL	DATA:	(measu	red from Top	of Casin	a)				
a. To	tal Well Le	ngth_	14,24	c. Length of	Water Co	lumn <u>5.7</u>	<u>(a-b)</u>		Casing Diar	neter/Material
b. Wa	ater Table I	Depth S	8.25	d. Calculate	d System	Volumo /a	a harded fit	ad a 10 a	2	PVC.
2 WELL					a cystom	Volume (Se	e back) 0.	1 - 1 - 6 - 6 - 6	<u>-</u> /vol	
a. Pu	rae Methor	UATA + Na	i cali	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~ ~ ~		<u> </u>	, n		- 0
	.go moulot	- N	Now)	V A.	$\langle \gamma \rangle$	Loudort	Geor	ump re	nstrun	<u>c timp</u>
b. Ac	ceptance C	Criteria d	efined (s	see workplan)	von i	~ Disi	مادد ماد	Brites	in Am	9
- Tem	perature	3%	•	-D.O.	10%					
- pri	Cond	<u>+</u> 1.	.0 unit	- ORP	<u>+</u> 10m	٧r				
- Sp.	Cond.	3%		- Drawdown	< 0.3'					
c. Fie	ld Testing I	Equipme	ent used	: M	ake		Model		Contal	N Is sume for a second
			-	Hori	66	Ď	-22		Pine A	Number
	galler	S	_						11112 01	3.1
Time	Volume	T								
(24hr)	Litera)	(°C)E)	(SU)	Spec. Cond.	$\frac{DO}{mat}$	ORP	Turbidity	Flow Rate	Drawdown	Color/Odor
1420	0		<u>1 – 1 – 1 – 1 – 1 – 1 – 1 – 1 – 1 – 1 –</u>		(mg/L)	(mv) T	(NTU) T	(mi/min)	(feet)	
1430	Ó	7.490	7.48	0.646	7.91	12.3	608	1890. A	8-77	
1432	0.25	7.74	7.75	0.701	7.27	140	145	200	9 22	
1435	0.3	7.74	7.75	0.751	7.90	153	87.0	200	Er han with	Mare
1499		7.83	7.75	0,772	8.34	160	65.1	200	9.80	
14:55	1.0	1.65	7.75	0.755	8.46	164	37.1	200	10.08	
d. Acc	ceptance c	riteria pa	ss/fail	9:163	8.77 Voc No	168	27.2	100	10.21	
Ha	s required	volume	been ren	noved		N/A י ריז				(continued on back)
Has	s required t	turbidity	been rea	ached	K H					
Hav	ve paramet	ters stab	ilized			, L				
	If no or N//	A - Expla	ain belov	V						
	well	purge	0 TO	dyress	<u>prie</u>	>r to i	Attempt	- at 1	Low Flo	Y
3. SAMPI	LE COLLE	CTION:	N	lethod:	v Flou		2			
							iensm.	nc ru	<u>~~</u>	
Sample ID) Cor	ntainer T	уре	No. of Contai	ners	Preser	vation	Analysis	Rea	Timo
mw-c	4	only	DA	2		HC	Å	she s	neq.	1520
<u> </u>	5	<u>20 ml</u>	Plasni	<u> </u>		HNO	2	Meto	14	<u>, , , , , , , , , , , , , , , , , , , </u>
		Ambe.	v Glas	<u> </u>		N.P		SVIG		1500
<u>ki</u>	÷ (5 à	89. 6-5			<u> </u>		PCBS	0	1500
Comments	1500	Colles	sted .	Samol m	w-4	N.P.	Q	Diexins	/ hurans	1500
<u>Am a</u>	is initia	1 Pm	te mi	hed co	pwx 4	- Asilo	me ha	ACT -	to anyres	<u>s this</u>
WATE	K LEVE	<u> </u>	<u>):11 i</u>	NOT Church	libral	e eve	n at	× 100	- Joan o	
<u> </u>	in m	<u>ladi</u>	to (ellect 'S	and.				10010	
Signature_	$\sim n$	LT	\sim	Amp. (V			Data	J. Lat	
	\sim	formation .		<u> </u>	· //				41100	
	North Contraction of the Contrac			1	U			i		



	 Solid State 	 A.M. 1911 	
1	Volume /	Linear FI	. of Pipe
	ID (in)	Gallon	Liter
	0.25	0.0025	0.0097
	0.375	0.0057	0.0217
d'	0.5	0.0102	0.0386
	0.75	0.0229	0.0869
	. ee . ee 1	0.0408	0.1544
	1.25	0.0637	0.2413
	1.5	0.0918	0.3475
- in the second s	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) Volume

Time (24 hr)	Removed (Liters)	Temp (°C)	рН	Spec. Cond (µS/cm)	. DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
INCRE	ased flo	V 1M	1 to	achieve.	me di	nudou	N SING	Could	Not get	o stuble Flow M
1500	2	7:53	7.77	0.707	8.35	169	17.4	1002	10.50	SAMPLE NO
		an adamati sa kat	,				a la gita e Reference. N			
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Sec. Standard

Forms99

5/15/02



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Well ID: MW-5

Low Flow Ground Water Sample Collection Record

Client: STEWARTS			Date: 2	1106	7	ime: Start	nauc.	
Site Location: 10275 008 3	· 11.			1		Finish	<u>e 115</u> a a	m/pm m/pm
Weather Conds: Sugaria 3	0-55%		Collector	·	· . M	1		
			Collector	S): <u>work</u>	Inholf	/SEAN DOL	b. ~~	
a Total Well Longth 77 /3	ured from To	p of Casing	g)	<i>"</i> .				
	_/~Ç. Length c	of Water Co		<u>. ర</u> క (a-b))	Casing Dia	meter/Mate	rial
b. Water Table Depth 2.95	d. Calculat	ed System	Volume (se	ee back)	.80 ast h	10		
2. WELL PURGE DATA						- ward		
a. Purge Method: Low II	ow to be	opimp 1	PERISTR	ene pu	mp			
b. Acceptance Criteria defined (see workplan)						
- Temperature 3%	-D.O.	,10%						
- Sp. Cond. 3%	- ORP	± 10m	١V	<50 >	JTU.			
	- Drawdow	n < 0.3'						
c. Field Testing Equipment used	l: 💦 💦 N	/lake		Model		Seria	Number	
	torida	V-22		U-22		PINE	01519	
Volume								
(24br) Removed Temp. pH	Spec. Cond	<u>. DO</u>	ORP	Turbidity	Flow Rate	Drawdown		
(Enters) (°C/F) (SU)	(µS/cm)	(mg/L)	(mV)	(NTU)	(ml/min)	(feet)	Color/Od	or
0955 0 6.02 6.55	0.28	9.12	120	1	- Angeline In the second	2.97		
1000 0.25gal 6.08 6.96	0.301	6.12	99	121	25000	3.14	no edec	
10.17 125 Ekis	0.289	5.94	93	72.1	250mi	3.21	Slight Tus	6.1.
0.22 2.0 5. 5 4 7.20	0.251	5.94	94	38:4	250ml	3.22		1
10:28 2.25 5.54 7.28	0.267	0.00 1 XA	81	43.2	2.50	3.22		
d. Acceptance criteria pass/fail		Yes No	N/A	1713	4 877	7.2.Y		į.
Has required turbidity been rer	noved		Ø				(continued on b	ack)
Have parameters stabilized	ached							
If no or N/A - Explain below	V.		L					
							•	
SAMPLE COLLECTION		۰.	0		1			
	lethod: <u>Peris</u>	STALME	rimp	100-2	ou my m	l in		
ample ID Container Type	No. of Conta	iners	Presen	ation	Amaharta			
W-S 40me VDA	2-		HCL	auon	Analysis	Req.	Time	
all soo and			HNO	3	metac	~ Š	1035	
1 L Antos	1		NA		SVOLS		1035	
omments L Amber	2		<u>NA</u>		<u> 966</u>		1035	
Duplicate of Mula	- i all		1011		pioxin		1035	
	2 Collec	teo a	s mu	1-50	t=08	DU, AII	Parame	te s
anature) n	1				11		
	NY.	/			Date 2	1106		
Carine	v O				l	1		
ma00								

