

New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway Albany, New York 12233

Re: ISC Data Summaries for Herkimer (Smith St.), Fort Edward, and Watervliet Non-Owned Former MGP Sites

Dear Mr. Deyette:

Niagara Mohawk, a National Grid Company (Niagara Mohawk), is providing the enclosed copies of the Initial Site Characterization (ISC) Data Summaries for the above mentioned sites.

We look forward to discussing the data and overall site conditions in our upcoming meeting on March 1<sup>st</sup> in Albany. Please contact me at (315) 428-5652 if you have any questions.

Sincerely,

Steven P. Stucker, C.P.G Senior Analyst

Cc (letter only): William Holzhauer-National Grid Service Company John Parkinson- National Grid Service Company Charles F. Willard-Niagara Mohawk, a National Grid Company Deanna Ripstein-NYSDOH Maureen Schuck-NYSDOH Greg Rys-NYSDOH File

# DATA SUMMARY for the Fort Edward, NY (Canal Street) Non-Owned Former MGP Site

**Prepared for:** 

# Niagara Mohawk

A National Grid Company

300 Erie Boulevard West Syracuse, New York 13202

# Prepared by:

MWH Americas, Inc 10 Airline Drive, Suite 200 Albany, New York 12205

February 20, 2004

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# **ABBREVIATIONS**

ASP	Analytical Services Protocol
BDL	Below detectable limits
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylene
COCs	contaminants of concern
DUSR	Data Usability Summary Report
ft/ft	feet per foot
FSP	Field Sampling Plan
ft <sup>3</sup>	cubic foot
HASP	Health and Safety Plan
HSA	hollow stem auger
I.D.	inside diameter
IP	Interface Probe
IRM	interim remedial measure
MGP	manufactured gas plant
mg/kg	milligrams per kilogram (equivalent to parts per million)
ND	not detected
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenols
PID	photoionization detector
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
QA/QC	quality assurance/quality control
SVOCs	Semivolatile Organic Compounds
TAGM	Technical and Administrative Guidance Memorandum
ug/kg	micrograms per kilogram (equivalent to parts per billion)
ug/l	micrograms per liter (equivalent to parts per billion)
USCS	Unified Soil Classification System
VOCs	volatile organic compounds

# **EXECUTIVE SUMMARY**

The overall objective of the Site Characterization/Interim Remedial Measure (SC/IRM) Study at Fort Edward site was to complete the preliminary characterization of the site with respect to establishing the nature and extent of any MGP-related residuals. Specifically, the objectives of this SC/IRM Report are to describe the site characterization activities conducted, and to present the data collected and the associated conclusions and recommendations based on the interpretation of that data.

No previous environmental investigations had been conducted at the Ft. Edward (Canal St.) site prior to the SC/IRM study. The SC/IRM field investigation activities consisted of the following tasks:

- Reconnaissance Visit
- Surface Soil Sampling
- Test Pit Installation
- Soil Boring/Monitoring Well Installation
- Subsurface Soil Sampling
- Groundwater Gauging and Sampling
- Survey of the Study Area

A summary description of the results from these field investigation tasks is presented below. In addition to the scope of work identified in the SC/IRM work plan, an in-ground swimming pool and a previously unidentified underground structure that was discovered were closed in place. These activities are included in the discussion.

# **Reconnaissance Visit**

A reconnaissance visit was conducted on July 2, 2003. Attendees included representatives of Niagara Mohawk, a National Grid Company (Niagara Mohawk), the New York State Department of Environmental Conservation (NYSDEC), MWH Americas, Inc. (MWH), the New York State Department of Health (NYSDOH), and the drilling subcontractor (Aquifer Drilling & Testing, Inc.). During the visit, the following activities were completed:

• An overview of the site-specific Health & Safety Plan (HSP) was presented and health and safety issues were discussed

Markouts of underground utilities were examined

- Soil boring, monitoring well, and test pit locations were selected
- Surface soil sampling locations were selected (on-site and off-site, background locations)
- Access for the drill rig to the proposed soil boring and monitoring well locations was evaluated
- Locations for equipment and materials staging areas and the decontamination pad were determined

In addition, areas of the site that required clearing and grubbing were identified and a survey/ inspection of the inside of the former MGP building was performed. Both the interior and exterior of the building were photo-documented. Photographs of the building are on file at Niagara Mohawk's Syracuse office.

As a result of the site reconnaissance, additional tasks were added to the scope of work described in the SC/IRM Work Plan. These tasks included:

Install two (2) additional test pits

Clear and grub brush to provide access to the selected sampling locations

#### Surface Soil Sampling

The SC/IRM Work Plan specified collection and laboratory analysis of a total of 16 surface soil samples. The specific locations for sample collection were selected during the reconnaissance visit based on collaborative concurrence with the NYSDEC, NYSDOH, and Niagara Mohawk. Thirteen (13) on-site locations (SS-01 through SS-13) and 3 off-site locations (SS-14, SS-15, and SS-16) were selected.

Off-site locations that were accessible and representative were limited. The three locations that were acceptable to the NYSDOH were located at the State Street Cemetery (property owned by the Town of Fort Edward). Niagara Mohawk submitted a request for access and a representative attended two meetings of the Town Board. Permission to access the cemetery property was not secured by Niagara Mohawk.

All surface soil samples were analyzed for semivolatile organic compounds (SVOCs), target analyte list (TAL) metals, and total organic carbon (TOC). The laboratory results from the SVOC analyses for the 13 on-site surface soil samples are summarized in **Table 5-1**. As shown on **Figure 5-1a**, the total concentration of the seven potentially carcinogenic PAHs (cPAHs) ranged from BDL (7 samples) to 40.8 mg/kg (SS-06 collected near former burn pit located near center of property). The total cSVOC results from the samples collected from around the perimeter of the property ranged from below detectable levels (BDL) (6 samples) to 0.26 mg/kg as shown on the table below.

Sample I.D.	Total cPAHs (mg/kg)	Sample I.D.	Total cPAHs (mg/kg)
SS-01	BDL	SS-08	0.44 J
SS-02	BDL	SS-09	BDL
SS-03	0.26 J	SS-10	BDL
SS-04	0.36 J	SS-11	BDL
SS-05	0.35 J	SS-12	BDL
SS-06	40.8 JD	SS-13	0.17 J
SS-07	BDL		

Table ES-1

J- indicates estimated value

V- validation indicated one or more reported analyte conc. were estimated B- one or more analytes detected in blank

Results from the TAL metals analyses are summarized in **Table 5-2**. All metals were within generally anticipated New York State average background concentrations as defined in Appendix A, Table 4 of TAGM 4046. No individual soil sample exhibited an elevated concentration of any of the metals reported.

The results from the TOC analyses are summarized in **Table 5-3**. TOC values in the surface soil samples ranged from 2,700 - 5,800 mg/kg.

#### **Test Pit Installation**

Per the SC/IRM Work Plan, two test pits were installed across opposite walls of the former gas holder to determine the location, dimensions, and construction of the pad remnants, and

D- sample required laboratory dilution

to investigate the presence, or absence, of MGP impacts. Test pit TP-1 was installed across the northwest wall of the holder and TP-2 was installed across the southeast wall. The remnants appeared to be a 1-foot thick concrete floor of the former holder on top of a  $1\frac{1}{2}$ -foot deep concrete footer. The floor of the former holder was approximately 52 feet in diameter. No visual or olfactory evidence of MGP-impacts existed. Some limited evidence of ash was detected in the top 6-inches of soils at TP-1. The soils on top of the concrete floor were removed and the location of the concrete floor was surveyed.

In addition, based on field observations two additional test pits (TP-3 and TP-4) were installed. TP-3 was installed to investigate an apparent brick and concrete footer located northeast from the former holder. No evidence of impacts existed around this footing.

Test pit TP-4 was installed near the southeastern corner of the former MGP structure to investigate surface exposures of materials appearing to be coal, ash, slag, and a blue-green coarse material. These materials were present to 7.5-feet below grade (depth of test pit). The lateral extent of these materials was not identified and represents a data gap that requires additional investigation.

The locations of the test pits are included on Figure 2-1. No soil samples from the test pits were sent for laboratory analysis.

#### Soil Boring/Monitoring Well Installation

Eleven (11) soil borings were installed during the field investigation between June 4, 2003 and June 11, 2003. The locations of the soil borings are also presented on **Figure 2-1**. The soil borings were installed with a drill rig using hollow stem auger (HSA) drilling techniques. Soil samples were continuously collected at 2 feet long intervals using a split-spoon sampler. The split-spoons were decontaminated between each sampling interval to avoid cross contamination. All samples were screened for volatile organic compounds (VOCs) using a field photoionization detector (PID). Moisture content, color, consolidation, lithology, grain size distribution, and any visual or olfactory evidence of contamination, along with the PID reading, were recorded on field Drilling Logs. The soil boring installed to investigate the soils beneath the former gas holder pad (SB-8) was installed to a depth of 5 feet below the top of the concrete pad. Soil borings installed to investigate the subsurface geology at other areas of the site were installed to depths ranging from 30 to 42 feet bgs to the top of a clay confining unit.

Four of the soil borings were completed as 2-inch inside diameter (I.D.) monitoring wells with 0.020-inch slotted screen and riser. The wells were installed to depths of 30 to 42 feet bgs. Well construction details are included on the boring logs. These four (4) wells were oriented for collection of water level measurements to ascertain groundwater flow direction and to investigate the presence or absence of dissolved MGP residuals.

#### Subsurface Soil Sampling

Approximately 6-7 soil samples were collected for laboratory analysis from each of the 11 borings installed (total of 69 samples). The samples were sent to the laboratory for analysis of PAHs, BTEX, and Cyanide (total and amenable). Approximately 10 percent of the total sample volume were selected (at the discretion of the Field Geologist based on field observations) for TCL/TAL analysis. Additionally, one soil sample was collected from each soil boring and analyzed for TOC.

The results from the TCL VOC and BTEX analyses are provided in **Table 5-4** and **Table 5-5**, respectively. The results are summarized on **Figure 5-2**. No volatile analytes were detected in soil samples collected from 10 of the 11 soil borings. At one soil boring (SB-04/MW-01), three of the seven samples possessed benzene at concentrations well below the NYSDEC's Recommended Soil Cleanup Objective (RSCO). These samples were collected at depths ranging from 12-22 feet below ground surface (bgs).

The results from the TCL SVOC and PAH analyses are provided in **Table 5-6** and **Table 5-**7, respectively. The results are summarized on **Figure 5-3**. When the results for phthalate compounds are removed (plasticizers associated with sampling and/or laboratory artifacts), no SVOC or PAH analytes were detected in any of the soil samples collected from 7 of the 11 soil borings (SB-02, SB-04, SB-05, SB-06, SB-07, SB-08, and SB-11). At SB-03, one soil sample collected from 28-30 feet bgs possessed fluorene at a concentration of 0.046 mg/kg (well below its NYSDEC RSCO of 50 mg/kg). Similarly, at SB-01 pyrene was detected in a sample collected from 4-6 feet bgs at 0.041 mg/kg, well below its RSCO of 50 mg/kg. At SB-10, the sample collected from 10-12 feet bgs possessed benzo(a)pyrene at a concentration of 0.085 mg/kg (slightly exceeding its RSCO of 0.061 mg/kg). Only one soil sample

(collected from SB-09 from 0-2 feet bgs) possessed more than one analyte that slightly exceeded their respective RSCOs (total of four analytes). The four PAH analytes that were present in this shallow sample were the same analytes that were typically found in surface, soils from the site.

The results from the analyses for TAL Metals are presented in **Table 5-8**, and for cyanide in **Table 5-8a**. The concentrations of most metals were within published typical background levels. Iron was present in all of the samples at concentrations higher than published typical background levels, however, the highest concentrations of iron were generally in samples collected from the deepest depths (i.e. from 26-32 feet bgs). This suggests that these levels of iron in undisturbed soils are naturally occurring.

In addition, two undisturbed soil samples were collected during soil boring installation using a Shelby Tube sampler and sent for analysis of geotechnical parameters to evaluate the soil's physical characteristics. One sample was collected at SB-10 (32-34 feet bgs) from a silt material (with some clays), the other from SB-11 (42-44 feet bgs) from a clay unit. The geotechnical parameters included porosity, permeability, bulk density, grain size, Atterburg Limits, percent moisture, and specific gravity. The geotechnical results are presented in **Table 5-9**. The data indicated that the lacustrine clay material that is detected across the site had a porosity of  $4.60 \times 10^{-8}$ . This continuous proglacial lacustrine clay unit is shown on the geologic cross-section (**Figure 4-1**).

# Groundwater Gauging and Sampling

Two groundwater gauging and sampling events were conducted approximately two months apart (June 23 and September 9, 2003). Groundwater samples were collected and sent for analysis of VOCs, SVOCs, TAL Metals, and Natural Attenuation Parameters. The results are presented in Table 5-10, Table 5-11, Table 5-12, and Table 5-13, respectively.

No VOCs were detected in samples collected from any of the wells during either sampling event. With the exception of phenol (detected at two wells during one of the two sampling events) no SVOCs were detected.

# **Closure of Swimming Pool and Underground Structure**

An in-ground swimming pool that was located in the back yard (i.e. east) of the former MGP structure was closed in place by Niagara Mohawk The pool was closed to eliminate a potential safety hazard to trespassers at the site, and to remove a potential breeding place for insects. Holes were made in the bottom of the pool, and the pool filled to grade with a self-compacting material.

In addition, a previously unknown underground brick structure was discovered southeast of the swimming pool. The structure appeared to be cylindrical, approximately 6 feet in diameter, and constructed of brick Standing water was present within the structure at approximately 4 feet below grade. Niagara Mohawk used a backhoe to remove the cover and investigate the structure's interior; no visual or olfactory evidence of MGP impacts were detected. The structure was closed in place to eliminate a potential safety hazard to trespassers at the site. The structure was photo-documented prior to closure; photographs of the structure are maintained on file at Niagara Mohawk's Syracuse, New York office. The origin of structure is unknown.

#### Survey of the Study Area

At the completion of the field investigation activities, New York State licensed surveyors from Niagara Mohawk surveyed the locations and ground elevations at all the soil boring, monitoring well, test pit, and surface soil sampling locations. Top of casing elevations were also collected at each of the monitoring well locations. This survey information was used to create the figures included in this report.

# APPENDIX A

**Drilling Logs** 

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

Geologist: John Santacroce

									(
	SUB	SURFACE PROFILE			SAMPLE				
Depth	USCS	Description	Number	Type	Bl s/6in	Recovery	PID (p )	Well Construction	Remarks
0-1		Ground Surface							
		Poor recovery, 2" Top soil, FILL, sand and fine gravel		SS	14,38,16,14	2	0		Boring backfilled with betonite grout mix.
3		No recovery, pushed limestone cobble, FILL		SS	18,19,10,10	0	0	$\begin{array}{c} \mathbf{v} \in \mathcal{A}  \forall  \mathbf{v} \in \mathcal{A} \\ \mathbf{v} \in \mathcal{A}  \forall  \mathbf{v} \in \mathcal{A}  \forall  \mathbf{v} \in \mathcal{A} \\ \mathbf{v} \in \mathcal{A}  \forall  \mathbf{v} \in \mathcal{A}  \forall  \mathbf{v} \in \mathcal{A}  \forall  \mathbf{v} \in \mathcal{A} \\ \mathbf{v} \in \mathcal{A}  \forall  \mathbf{v} \in \mathcal{A}  \forall$	
4 11 1		Brown tan medium to fine SILTY SAND		SS	8,7,6,6	.12	0		
		Brown tan medium to fine SAND and SILT grading to medium to coarse sand, with some medium to fine gravel, wet		SS	7,5,10,14	16	0		
9		Brown gray fine SAND and SILT, some clay, wet, mottled, corse sand seam, saturated		SS	6,6,5,5	18	0		
		Poor recovery, gray SILT and coarse to fine SAND		SS	4,4,6,7	6	0		
12		Saturated green gray medium SAND and poorly sorted GRAVEL		SS	6,5,5,5	18	0		
14		Green gray medium to coarse SAND		SS	5,5,15,17	6	0		
16		Green gray fine to medium SAND, some silt		SS	16,11,13,13	10	0		
18		Saturated fine to medium SAND, some silt, some medium to fine rounded gravel.		SS	19,17,8,9	6	o		
20 21 21		Green gray medium to fine SAND, some silt, grading to fine sand and silt.		ss	8,14,14,21	12	0		
	ntract	tor: ADT	,			Hole	Size:	6.5	

Drill Method: HSA, 4.25-inch ID Augers

Drill Date: 6/4/03

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

	SUE	SURFACE PROFILE			SAMPLE					
Depth	uscs	Description	Number	Туре	Blows/6in	Recovery	PID (p )	Well Construction	Remarks	
23		No recovery, refusal at 22.5' bgs. Augered to 24' bgs		ss	50 5'	0	0			
24 25		Gray fine to coarse SAND, little silt, some round gravel, shale cobbles		ss	16,5,6,6	18	0			
26 27		Gray coarse to fine SAND, little silt and gravel, saturated		SS	5,6,16,16	18	0			
28 29 30		Gray green fine to coarse SAND, little silt and gravel; silt content increases with depth.	-	SS	3,8,10,12	14	0		÷	
31 32 33 34 35 36 37 38 39 40 41 42 43		End of Borehole								
Contractor: ADT Hole Size: 6.5										
Drill Method: HSA, 4.25-inch ID Augers										
Dr	ill Dat	e: 6/4/03				Shee	et: 2 o	f 2		

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

Geologist: John Santacroce

	SUE	SURFACE PROFILE			SAMPLE				
Depth	USCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
0		Ground Surface							
0-		12" Organinc top soil 4" orange fine to medium SAND and SILT, mottled		SS	2,6,2,3	16	0		Boring backfilled with betonite grout
3-		Orange fine to medium SAND, some silt, mottled, moist last 3"	1	SS	3,7,8,12	20	0		
4- 5- 6-		10" Orange fine to medium SAND some silt, mottled 6" fine to meduim SAND, saturated at 5' bgs		SS	5,8,9,10	16	0		
7-		Orange brown fine to medium SAND , little silt	2	SS	12,8,9,8	13	0		
8- 9-		Gray fine SAND , some silt		SS	2,1,1,3	24	0		
10-		Green gray fine to medium SAND, some fine to medium round gravel.		SS	4,5,7,6	6	0		
12-		Green gray fine to coarse SAND, some gravel and shale cobbles.		SS	2,3,8,10	8	0		
14-		Green gray fine to corse SAND, some round gravel, little silt	3	SS	14,2,5,4	8	0		
16-		Green gray fine to coarse SAND, some round gravel, little silt.		SS	7,9,9,13	12	0		
18-		Green gray fine to coarse SAND, some round gravel, little silt		SS	2,7,8,5	6	0		
20- 21- 22-		Gray fine SAND, some silt and clay	4	SS	3,3,6,9	24	0		
	Contract	tor: ADT				Hole	Size:	6.5	

Contractor: ADT

Hole Size: 6.5

Drill Method: HSA, 4.25-inch ID Augers

Drill Date: 6/4/03

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

	SUE	SURFACE PROFILE			SAMPLE				
Depth	USCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
23-		Gray fine SAND, some silt and clay. clay seam at 3"		SS	6,6,12,14	24	0		
24 25		Gray fine SAND, some silt and clay. clay seam at 6" and 13"	5	SS	6,5,9,11	18	0		
26-		Gray fine SAND and SILT grading to clayey silt		SS	3,5,9,9	24	0		-
28 29- 30-		Gray fine SAND and SILTY CLAY , clay decreses with depth	6	SS	1,3,9,7	24	0		
31 32 33 34 35 36 37 38 39 40 41 42 43 44		End of Borehole							
		tor: ADT				Hole	Size:	6.5	
Dr	rill Met	hod: HSA, 4.25-inch ID Augers							
Di	rill Dat	e: 6/4/03				Shee	et: 2 o	f 2	

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

# MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

Geologist: John Santacroce

	SUE	BSURFACE PROFILE			SAMPLE	1			
Depth	usc	Description	Number	Typ	Blows/6in	Re overy	PID (p )	Well Construction	Remarks
0		Ground Surface							
0		6" Organic top soil, 18" Brown SILTY SAND		SS	3,3,6,7	24	0		Boring backfille with betonite gro
2		Orange fine SAND and SILT, mottled moist	1	SS	7,8,7,9	24	0		mix.
4 5		8" Orange fine SAND and SILT 4" fine to medium orange brown SAND, some silt		SS	7,9,8,7	12	0		
7		12" Orange brown SAND and SILT, wet 12" Gray fine to medium SAND, little silt, saturated	2	SS	9,9,6,3	24	0		
9		Gray fine to medium SAND, some silt, seam of fine sand	3	SS	3,2,2,4	17	0		
10		Poor recovery, gray SILT and coarse to fine SAND, sluff		SS	1,2,1,4	3	0		
12		Saturated green gray medium SAND and poorly sorted GRAVEL, little silt and shale cobbles		SS	2,3,4,3	7	0		
14-1 15-1		Green gray fine to coarse SAND and fine to medium rounded GRAVEL, little silt		ss	3,3,4,5	14	o		
16-11-1		Green gray fine to coarse SAND and fine to medium rounded GRAVEL, little silt		ss	5,5,5,5	8	0		
18 19 19		Green gray fine to coarse SAND and fine to medium rounded GRAVEL, little silt	5	SS	6,3,9,10	14	o		
20		Gray fine SAND, some silty clay		SS	2,4,5,7	13	0		
22-	Contrac	tor: ADT				Hole	Size.	65	

Drill Method: HSA, 4.25-inch ID Augers

Drill Date: 6/5/03

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

	SUE	SURFACE PROFILE			SAMPLE				
Depth	uscs	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
23-		Gray fine SAND, some silt, trace clay, clay seam at 3"		ss	7,9,11,8	12	0		
24-		Fine gray caorse to fine SAND and GRAVEL, grading to fine sand and silty clay	6	SS	4,12,13,19	18	0		
26- 27-		Gray fine SAND, some silt, seams of clay		SS	5,9,12,16	12	0		
28- 29- 30-		Gray fine SAND, some silt, seams of clay	7	SS	6,6,8,9	12	0		i di a tria.
31- 32- 33- 34- 35- 36- 37- 38- 39- 40- 41- 42- 43- 44-		End of Borehole							
	ontrac	tor: ADT			1	Hole	Size:	6.5	
Dr	ill Met	thod: HSA, 4.25-inch ID Augers							
Di	Drill Date: 6/5/03 Sheet: 2 of 2								

Boring / Well ID: SB04/MW01

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

					1				
	SUE	BSURFACE PROFILE			SAMPLE				
Depth	NSCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
0-		Ground Surface							
1-		16" Organic dark brown topsoil 4" Gray tan SILTY SAND, mottled		SS	3,6,6,5	22	0		
3-		12" SILTY SAND, mottled 6" Gray medium to fine sand and silt, wet	1	SS	5,5,6,4	18	0		Bentonite/ grout backfill
4-		Brown gray fine to medium SAND, some silt, saturated		SS	6,6,3,2	15	0		
6- 7-		Gray coarse to fine sand, some silt, clay seam bottom 1" , saturated		SS	1,2,H,5	16	0		2" Sch. 40 PVC Riser
8- 9-		Gray coarse to fine SAND, some silt, saturated	2	SS	4,2,3,5	12	0	1. 2. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
10-		Gray coarse to fine SAND some silt, saturated		SS	1,2,7,5	8	0		
12-		Gray coarse to fine SAND, some silt, saturated, trace round fine to medium gravel.	3	SS	8,8,9,8	16	0		
14-		Poor recovery, pushed shale cobble.		SS	3,6,8,7	3	0		00-Sand Bentonite
16- 17-		Green gray fine to coarse SAND some rounded gravel, little silt	4	SS	8,8,9,6	12	0		00-Sand
18- 19-		Green gray fine to coarse SAND some rounded gravel, little silt		SS	4,4,7,10	8	0		0-Sand
20- 21- 22-		Green gray fine to coarse SAND some rounded gravel, little silt	5	SS	5,6,8,8	6	0		
(	Contrac	tor: ADT				Hole	Size:	6.5	
		thod: HSA, 4.25-inch ID Augers							
I I	Drill Dat	e: 6/12/03				Shee	t: 1 o	f 2	

Boring / Well ID: SB04/MW01

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

	SUE	SURFACE PROFILE			SAMPLE					
Depth	usc	Description	Number	Typ	Blows/6in	Recovery	( d) OIA	Well Construction	Remarks	
23		Green gray fine to coarse sand some rounded gravel, little silt		SS	2,12,22,33	9	0		0.010" Slotted PVC Screen	
24		10" Green gray fine to coarse SAND and some round gravel, trace silt. 3" Gray fine sand and silty clay, saturated	6	SS	10,9,8,12	13	0			
26		Gray fine SAND grading to silty clay	7	SS	; 1,1,H,3	24	Ö			
28- 29- 30-		Saturated soft gray CLAY with 1/4" Fine sand seams.		SS	1,1,1,H	24	0		, selfs, se , set "et	
31 32 33 34 35 36 37 38 39 40 41 42 43		End of Borehole								
Contractor: ADT Hole Size: 6.5										
		hod: HSA, 4.25-inch ID Augers								
Dr	ill Dat	e: 6/12/03				Shee	et: 2 o	f 2		

Boring / Well ID: SB05/MW02

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

Geologist: John Santacroce

	SUE	SURFACE PROFILE			SAMPLE				
Depth	usc	Description	Number	Type	Blows/6in	Recovery	PID (p )	Well Construction	Remarks
0-		Ground Surface							
1	ตามชาตา เป็น บาร์ร	7" Top soil, 7" Brown fine SAND and SILT		SS	2,4,6,8	14	0		
2 3 3		18" Brown gray fine SAND and SILT, mottled 2" Green gray fine sand, some silt, wet	1	ss	7,9,9,9	20	0		Bentonite grou backfill
4		Gray green fine SAND with decreasing downward silt content, saturated at 5' bgs		SS.	7,7,8.9	24	0		
7		Gray green fine to medium SAND, little silt		ss	1,3,3,5	19	0		2" Sch 40 PVC Riser
8 9		Green gray ccarse to fine SAND, trace silt, fine sand, silt seam at 2"	2	SS	1,H,6,9	12	0	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
10		Green gray fine to coarse SAND, little silt		SS	3,4,5,5	6	0	1997-1997 1997-1997	
12		Green gray fine to coarse sand, little silt, trace shale cobbles	3	ss	5,8,9,10	14	0		
14		Green gray fine to coarse SAND, trace silt and shale		ss	6,5,6,6	12	0		00-sand Bentonit
16		Green gray fine to coarse SAND some shale cobbles	4	SS	5,6,10,10	16	0		00-sand
18		Green gray fine to medium SAND some round fine to medium gravel		SS	2,7,9,10	12	0		0-sand
20		Green gray fine to medium SAND some round fine to medium gravel	5	SS	3,2,8,9	18	0		
22-	Contract	tor: ADT				Hole	Size <sup>.</sup>	6.5	

Drill Method: HSA, 4.25-inch ID Augers

Drill Date: 6/9/03

Boring / Well ID: SB05/MW02

Client: Niagara Mohawk

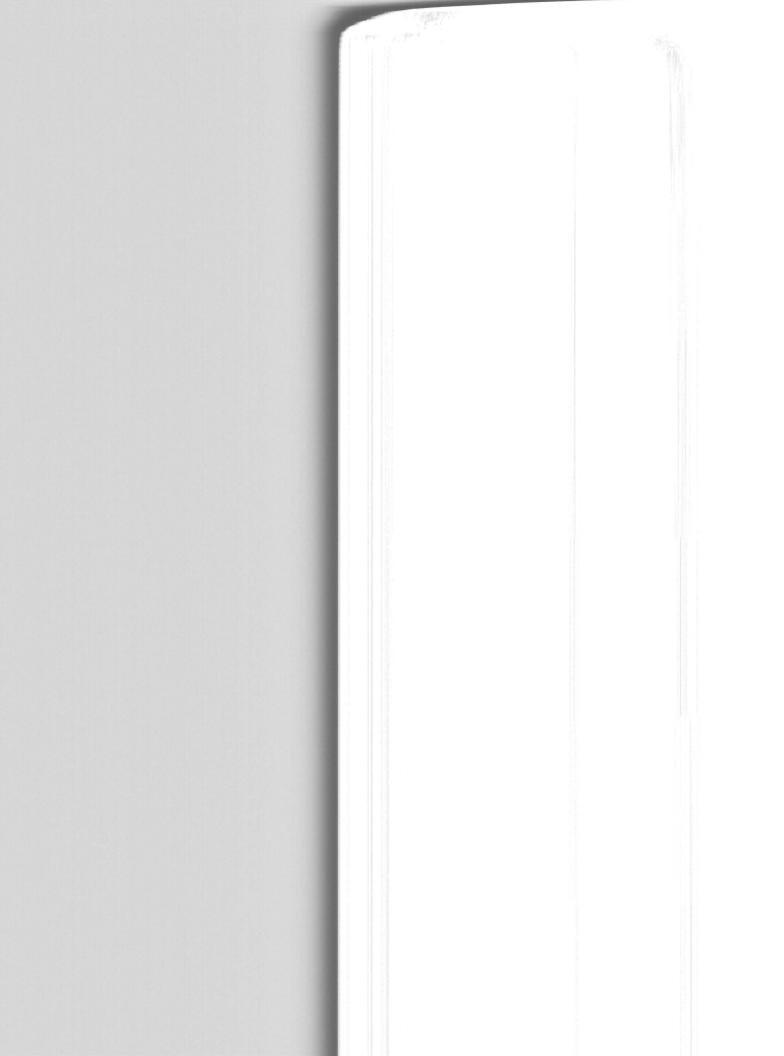
Project Name: Former MGP Site

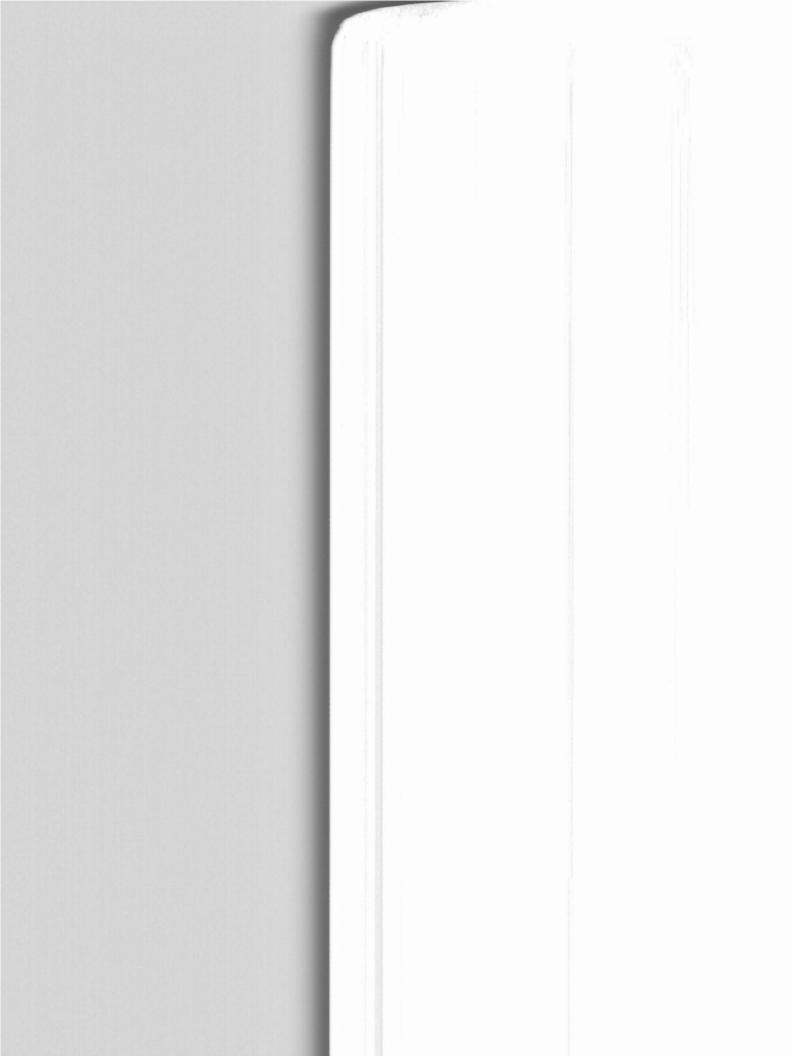
Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

	SUE	SURFACE PROFILE			SAMPLE				
Depth	USCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
23	=	Green gray fine to coarse SAND, little silt, grading to fine sand and silt, bottom 3" clayey silt		SS	3,4,5,10	16	0		0.010" Slated DVC
25	=111H11H	Gray SILTY SAND	6	SS	5,8,9,10	12	0		0.010" Sloted PVC screen
26 27 28		Gray SILTY CLAY, occasional fine to medium sand lens	7	SS	2,4,6,5	24	0		
28 29 30		Gray CLAY occasional fine sand seam		SS	3,3,2,3	24	0		the start starts
31 32 33 34 35 36 37 38 39 40 41 42 43 44		End of Borehole							
C	ontrac	tor: ADT				Hole	Size:	6.5	
D	rill Met	hod: HSA, 4.25-inch ID Augers							
C	rill Dat	e: 6/9/03				Shee	et: 2 o	f 2	





Client: Niagara Mohawk

Albany, NY 12205 10 Airline Drive Suite 200 aspinemA HWM

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

Project Number: 4260146

Santacroce	uuor	:ารเชื่อเอลก	1

End     Description     Boing and the control of the section					<b>SAMPLE</b>			SURFACE PROFILE	ans
2     2     5     5     5     5     5     5     5       1     3     5     1     5     1     5     1     5     1       2     5     5     5     5     5     5     5     5     5       2     5     5     5     5     5     5     5     5     5       3     5     5     5     5     5     5     5     5     5       3     5     5     5     5     5     5     5     5     5       4     5     5     5     5     5     5     5     5       5     5     5     5     5     5     5     5     5       5     5     5     5     5     5     5     5     5       5     5     5     5     5     5     5     5     5       6     5     5     5     5     5     5     5     5       6     5     5     5     5     5     5     5     5       7     5     5     5     5     5     5     5       6     5 <th>Kemarka</th> <th>Well Construction</th> <th>PID (ppm)</th> <th>Recovery</th> <th>Blows/6in</th> <th>Туре</th> <th>Number</th> <th>Description</th> <th>Depth USCS</th>	Kemarka	Well Construction	PID (ppm)	Recovery	Blows/6in	Туре	Number	Description	Depth USCS
3       4       5	with betonite grout		0	50	2,2,5,4	SS		7" Brown, organic top soil, 13" Orange	
5     Soore ends of the SAND, some slif, indepin indepine inde			0	52	71,21,01,ð	SS	L	6" Brown gray fine SAND, some silt,	3-1-2-2
7     Scome sili, saturated at 7 bys.     2     55     66.6,6     78     78     7       8     Green gray fine to medium SAND, some     3     55     3,3,6,6     24     0       9     Green gray fine to medium round gravel, little silit     3     55     3,4,6,6     7     10     0       11     fine to medium round gravel, little silit     3     55     3,4,4,6     72     0       12     Green gray fine to coarse SAND, some     55     3,4,4,6     72     0     0       13     fine to medium round gravel, little silit     3     55     3,4,4,6     7     0       14     fine to medium round gravel, little silit     3     55     3,4,4,6     7     0     0       14     fine to medium round gravel, little silit     3     55     3,4,4,6     7     0     0       15     fine to medium round gravel, little silit     35     5,4,4,6     7     0     0       16     Green gray fine to coarse SAND, some     55     5,6,7,7,1,1     25     0       16     Green gray fine to coarse SAND, some     55     5,4,4,6     7     0       17     fine to medium round gravel, little silit     4     55     5,4,4,6     0       16			0	50	6'9'∠'∠	SS			G
23       3,3,6,6       2,4       6       0         11       The to medium round gravel, little slift       3       3,3,6,6       2,4       0         12       The to medium round gravel, little slift       4       55       5,8,10,11       3       0         14       The to medium round gravel, little slift       3       55       5,8,10,11       3       0         15       The to medium round gravel, little slift       55       5,8,10,11       3       0         16       Green gray fine to coarse SAND, some       55       5,8,10,11       3       0         17       The to medium round gravel, little slift       4       55       5,8,10,11       3       0         17       The to medium round gravel, little slift       55       5,8,10,11       3       0         18       Poor recovery, pushed cobbles       55       5,8,10,11       2       0         18       Poor recovery, pushed cobbles       55       5,8,10,111       2       0         19       The to medium round gravel, little slift       55       5,8,10,111       2       0         10       The to medium round gravel, little slift       55       5,8,10,111       2       0         10 <td>ante Francis e sua</td> <td></td> <td>ò</td> <td>81</td> <td>8,9,9,8</td> <td>SS</td> <td>2</td> <td></td> <td>E.</td>	ante Francis e sua		ò	81	8,9,9,8	SS	2		E.
11       If the form of the consist of the silf       3       55       7,1,2,2       24       0         12       Green gray fine to coarse SAND, some fifte silf       3       55       4,4,66,7       10       0         12       Green gray fine to coarse SAND, some fifte silf       3       55       3,4,4,6       12       0         13       Green gray fine to coarse SAND, some fifte silf       55       3,4,4,6       12       0         14       Green gray fine to coarse SAND, some fifte silf       55       3,4,4,6       12       0         16       Green gray fine to coarse SAND, some fifte silf       55       5,7,9,11       2       0         17       The to medium round gravel, liftle silf       55       5,7,9,11       2       0         16       Green gray fine to coarse SAND, some fiftle silf       4       55       5,6,7,0,11       3       0         17       The to medium round gravel, liftle silf       4       55       5,6,7,0,11       3       0         18       Poor recovery, pushed cobble       55       5,6,10,11       3       0       0         18       Foor recovery, pushed stace lift size size size size size size size size			0	54	3,3,6,6	SS			6
13       The to medium round gravel, little slit       55       4,4,66,7       10       0         14       Green gray fine to coarse SAND, some       55       3,4,4,6       12       0         16       Green gray fine to coarse SAND, some       55       3,4,4,6       12       0         16       Green gray fine to coarse SAND, some       55       5,7,9,11       2       0         17       fine to medium round gravel, little slit       4       55       5,7,9,11       2       0         16       Green gray fine to coarse SAND, some       55       5,7,9,11       2       0       0         17       Foor recovery, pushed cobble       4       55       5,8,10,11       3       0         17       Foor recovery, pushed cobble       55       5,8,10,11       3       0       19         20       Foor recovery, pushed cobble       55       5,8,10,11       3       0       19         20       Foor recovery       55       55       5,8,10,11       3       0       10         20       Foor recovery       55       55       55       6       0       0         21       Foor recovery       Frace slit       55       70,8,10,12			0	54	۲,۲,۲,۲	SS	З		Ē
15       Infine to medium round gravel, little slit       5S       3,4,4,6       12       0         16       Green gray fine to coarse SAND, some       5S       3,4,4,6       12       0         17       Infine to medium round gravel, little slit       4       5S       5,7,9,11       2       0         18       Poor recovery, pushed cobble       5S       5,7,9,11       2       0         19       SS       5,7,9,11       3       0       2         10       SS       5,8,10,11       3       0       2         10       SS       5,8,10,11       3       0       2         10       Green gray fine to coarse SAND, some       SS       5,7,9,11       3       0         110       SS       5,8,10,11       3       0       2         10       Green gray fine to coarse SAND, some       SS       10,8,10,12       6       0         12       SS       10,8,10,12       S       0       0       0       0			0	OL	۲,68,4,4	SS		Green gray fine to coarse SAND, some fine to medium round gravel, little silt	13
17       The to medium round gravel, liftle slift       4       55       5,7,9,11       2       0         18       Poor recovery, pushed cobble       55       5,7,9,11       2       0       19         19       Poor recovery, pushed cobble       55       5,7,9,11       3       0       19         20       Green gray fine to coarse SAND, some       55       5,8,10,11       3       0       19         21       round gravel, liftle shale, trace slift       55       5,7,9,11       3       0       10			0	٦٢	3,4,4,6	SS			E SI
20 21 20 21 21 22 25 55 55 55 55 55 55 55 55			0	2	5,7,9,11	SS	4		-21
21 Interior coarse SAND, some SS 10,8,10,12 6 0			0	е	11,01,8,3	SS		Роог гесоvегу, ризћед сорble	E-6L
			0	9	S1,01,8,01	SS			51

Drill Date: 6/9/03

Drill Method: HSA, 4.25-inch ID Augers

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

	SUE	SURFACE PROFILE			SAMPLE				
Depth	USCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
23-		6" Green gray fine to coarse SAND, little silt 6" Gray fine sand and silt	5	SS	7,9,9,8	12	0		
24- 25-		Gray fine SAND, some silt; clay seam at 12"		SS	5,10,11,10	24	0		
26- 27-		Gray fine SAND, some silt, seams of clay	6	ŚŚ	3,6,2,6	20	0		
28- 29- 30-	3111111	Intervals of SILTY CLAY and fine sand seams.	7	SS	2.3,6,7	20	0		
31- 32- 33- 34- 35- 36- 37- 38- 39- 40- 41- 42- 43- 44-		End of Borehole							
С	ontrac	tor: ADT				Hole	Size:	6.5	
D	rill Met	thod: HSA, 4.25-inch ID Augers							
D	Drill Date: 6/9/03 Sheet: 2 of 2								

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

# MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

Geologist: John Santacroce

	SUE	SURFACE PROFILE			SAMPLE				
Depth	NSCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
-		Ground Surface							
0		6" Brown, organic top soil, 6" Orange SILTY SAND FILL with brick and two inches white ash.		SS	4,4,3,6	12	0		Boring backfilled with betonite grout mix.
3		Orange SILTY SAND, mottled moist. Last 4" brown gray fine SAND, wet.		SS	5,8,11,11	20	0		inia.
5		Brown gray fine SAND, some silt, saturated at 6.5' bgs	1	ss	7,5,6.5	12	0		k ta i,.
6		Saturated brown gray fine SAND, some silt, pyrite		SS	4,3,4,4	14	0		landar an an Anna (Car Martin - Carlos M
8 9		saturated green gray fine to coarse SAND, trace silt, some gravel, garnet and pyrite		SS	3,3,4,3	12	0		1
10		Green gray fine to coarse SAND and fine GRAVEL, trace shale	2	SS	4,3,4,7	14	0		
12		Green gray fine to coarse SAND and fine GRAVEL, trace shale		SS	3,4,6,3	13	0		
14		Green gray fine to coarse SAND, some fine to medium round gravel, some shale	3	SS	2,4,4,5	8	0		
16		Green gray fine to coarse SAND, some gravel, clay seam at bottom of sample		SS	2,4,3,6	13	0		
18		Green gray fine to coarse SAND, some fine gravel, wood (root) at 6"	4	SS	2,4,4,5	10	0		
20		Green gray fine SAND, some silt, trace fine round gravel		SS	7,9,3,4	12	0		
22								. N. Z N	
C	ontrac	tor: ADT				Hole	Size:	6.5	

Drill Method: HSA, 4.25-inch ID Augers

Drill Date: 6/10/03

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

	SUE	SURFACE PROFILE			SAMPLE				
Depth	USCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
23-		Green gray fine SAND, some silt, trace fine round gravel, clay seam at 6"		SS	2,2,2,4	17	0		
24 25		Green gray fine SAND , some silt, trace fine round gravel, clay seam at 6" and 11"	5	SS	1,4,5,5	16	0		
26- 27-		Gray medium to fine SAND, saturated		SS	3,5,8,11	10	0		
28- 29-		Gray medium to fine SAND, clay seam at 3"	6	SS	5,6,13,19	14	Q		line d'a faile à a a tail
30- 31-		Gray medium to fine SAND, and silt, clay layer 2-10" in spoon		SS	3,3,7,6	18	0		
32- 33-	111111	16" CLAYEY SILT 4" Gray fine sand and silt	7	SS	1,2,3,5	24	0		
34 35		Gray CLAY, fine sand seams at 2", and 16"		SS	2,2,3,5	24	0		
36-		End of Borehole							
37-									
38-									
39-									
40-									
41-									
42-									
43-									
44-							Size:	<u>c</u> c	
		tor: ADT hod: HSA, 4.25-inch ID Augers				HOIE	SIZE:	G.0	
Dr	ill Dat	e: 6/10/03				Shee	et: 2 of	f 2	
51	Drill Date: 6/10/03 Sheet: 2 of 2								

Client: Niagara Mohawk

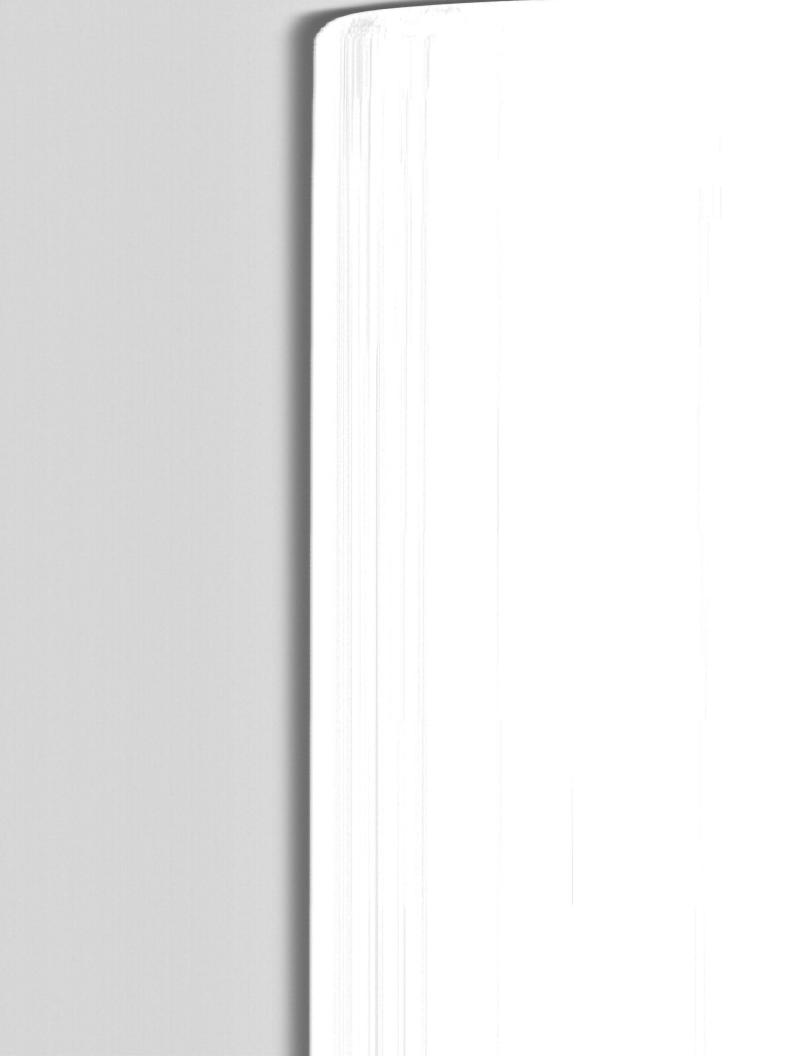
Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

# MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

UNDERCONSTRUCT       UNDERCONSTRUCTION       Under Set of the									
adia       St       Fill       Adia       NA	SUE	SURFACE PROFILE			SAMPLE				
Holder foundation concrete       AG       NA       NA       NA       NA         2       S* FILL consisting of limestone and brick, 7* fine SAND and SILT mottled, 1       1       SS       4,66.9       22       0         3       Brown fine SAND and SILT, mottled, pyrite, wet       I       SS       10,111,10,13       10       0         6       Green gray fine to medium SAND, trace silt       2       SS       6,5,5,7       20       0         7       Green gray fine to medium SAND, trace silt       2       SS       6,5,5,7       20       0         11       12       SS       6,5,5,7       20       0       1       1         10       Trace silt       1       SS       1,11,10,13       10       0         11       12       SS       6,5,5,7       20       0       1         11       SS       1,11,10,13       10       0       1       1         11       SS       1,11,10,13       10       0       1       1         11       SS       6,5,5,7       20       0       1       1         11       SS       1,11,10,13       10       1       1       1       1	Depth USCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
Prodeer Notification Concrete       AG       NA       NA       NA       NA         2       0       0" FLIL consisting of limestone and brick. "The SND and SILT. mottled.       1       SS       4.6.6.9       22       0         4       0       Dreen gray fine SAND and SILT. mottled.       1       SS       10.11.10.13       10       0         6       0       Green gray fine to medium SAND. Frace silt       2       SS       6.5.5.7       20       0         7       0       0       0       0       0       0       0       0         1       1       SS       10.11.10.13       10       0       0       0       0       0       0         1       2       SS       6.5.5.7       20       0	0-	Ground Surface							
2       B* FLL consisting of limestone and prick, 7* firstown fine sand, some sit, mottled, 7* Brown fine sand, some sit, mottled, 9       1       SS       4,6,6,9       22       0         4       Brown fine sand, some sit, mottled, prifte, wet       Iss       SS       10,11,10,13       10       0         6       Green gray fine to medium SAND, trace sit       2       SS       6,5,5,7       20       0         7       End of Borehole       Iss       Iss       Iss       Iss       Iss       Iss         9       End of Borehole       Iss       Iss       Iss       Iss       Iss       Iss         11       Iss       Iss       Iss       Iss       Iss       Iss       Iss       Iss         7       Iss       Iss       Iss       Iss       Iss       Iss       Iss       Iss         11       Iss       <	1			AG	NA	NA	NA		Boring backfilled
5       10       11       10       0         0       Green gray fine to medium SAND.       2       55       6.5.5.7       20       0         1       1       2       55       6.5.5.7       20       0       1         1       1       1       1       1       1       1       1         1       1       1       1       1       1       1       1         1       1       1       1       1       1       1       1         1       1       1       1       1       1       1       1         1       1       1       1       1       1       1       1         1       1       1       1       1       1       1       1       1         1       1       1       1       1       1       1       1       1         1       1       1       1       1       1       1       1       1         1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	2- 3-	7" Brown fine sand, some silt, mottled,	1	SS	4,6,6,9	22	0		
trace silt       2       SS       6.5.5.7       20       0         B       End of Borehole       I       I       I       I       I         10       I       I       I       I       I       I       I         11       I       I       I       I       I       I       I       I         11       I	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	pyrite, wet		SS	10,11,10,13	10	0		
B     End of Borehole       9     0       10     1       11     1       12     1       13     1       14     1       15     1       16     1       17     1       18     1       19     1       20     1       21     1       22     1   Contractor: ADT Kole Size: 6.5 Drill Method: HSA, 4.25-inch ID Augers		Green gray fine to medium SAND, trace silt		SS (	6,5,5,7	20	0		
9       10       1	8				· · · · · · · ·		1.00		
Drill Method: HSA, 4.25-inch ID Augers	10 11 12 13 14 14 15 16 17 18 19 19 20 21								
	Contrac	tor: ADT				Hole	Size:	6.5	
Drill Date: 6/10/03 Sheet: 1 of 1	Drill Me	thod: HSA, 4.25-inch ID Augers							
	Drill Da	te: 6/10/03				Shee	t: 1 o	f 1	



Моћаwk	PIPAPINI	CILEUL	
hucdow	CICOCIIA	.40010	

Boring / Well ID: SB09/MW03

Project Name: Former MGP Site Location: Canal St., Fort Edward

Albany, NY 12205

ssoinemA HWM

10 Airline Drive Suite 200

Geologist: John Santacroce

Project Number: 4260146

	······	gg.əz	is slot				Dr. ADT	Contract
Bentonia		0	91	5,5,9,9	SS	g	Green gray fine to medium SAND, some black shale, little silt	55 54 50
bns2-00		0	15	۶۲,9,9,7	SS		Green gray fine to medium SAND, some black shale, little silt	61
		0	01	۲۲,7,8,8	SS	4	Green gray fine to coarse SNAR some shale cobbles	21
		0	8	8,8,7,8	SS		Green gray fine to medium SAUD, some fine-medium gravel, little silt.	- 51 - 51 - 51 - 51
	1444 1444 1444 1444 1444 1444 1444 144	0	15	۲,۲,е,۲	SS	3	Green gray fine to medium SAUD, some fine-medium gravel, little silt.	13
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	0	13	₽'ᢒ'⋻'⋻	SS		Gray fine SAND, some silt, some fine rounded gravel, trace shale cobbles.	
Sch 40 PVC riser	<b>X</b> J <b>X</b> J	0	14	9,4,8,8	SS		Green gray fine SAND, some silt, some fine rounded gravel. Saturated at 8.5' bgs.	6
i al a la cara		0	21	9,4,8,8	SS	2	10" Brown gray fine SAND and SILT. 7" Green gray sand and silt, some fine rounded gravel, mottled.	
· · · · · · · · · · · · · · · · · · ·		0	91	9,4,8,8	SS		sow ,TJIS bns ONAS əni yeş Brown gray	9 9 9 9 9 9 9
Bentonite grout backfill		0	81	6,7,8,8	SS		3" Black ash and slag FILL. 15" Brown fine SILTY SMD (virgin soil) mottled.	ε
	2.7.7.2.7 2.7.7.2.7 2.7.7.2.7	0	81	£'£'4'3	SS	L	Ground Surface 6" Top soil, remainder FILL consisting of 2" black ash, silty sand with brick and angular corse gravel and cobbles	
Remarks	noitourtenoO IIe	PID (ppm)	Recovery	Blows/6in	Туре	Number	Description	Depth USCS
				SAMPLE			SURFACE PROFILE	

Drill Method: HSA, 4.25-inch ID Augers

Boring / Well ID: SB09/MW03

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

	SUE	SURFACE PROFILE			SAMPLE				
Depth	uscs	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
23-		Green gray fine to medium SAND, some black shale, little silt		SS	6,5,6,4	13	0		00-sand
24- 25-		Green gray fine to medium SAND, some black shale, little silt		SS	6,5,7,4	12	0		0-sand
26- 27-		Green gray fine to medium SAND, some black shale, little silt		SS	6,5,7,6	12	0		
28- 29-		Green gray fine to medium SAND, some black shale, little silt	алан 8 •	SS	7,8,9,11	16	Ó		0.010" Slotted PVC Screen
30- 31-		Gray fine to medium SAND, silty clay seam at 3"	6	SS	6,10,8,8	12	0		
32-		Gray CLAYEY SILT, some medium coarse sand lenses		SS	6,5,2,2	24	0		
34- 35- 36- 37- 38- 39- 40- 41- 42- 43- 44-		End of Borehole				Hole	Size:	6.5	
		thod: HSA, 4.25-inch ID Augers				1010	0120.		
	Drill Date: 6/11/03 Sheet: 2 of 2								

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

Geologist: John Santacroce

	SUE	SURFACE PROFILE			SAMPLE				
Depth	USCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
0-		Ground Surface							
1-		6" Top soil then FILL consisting of ash, slag and brick.		SS	16, 11, 10, 3	16	0		
3		3" Brick, 6" White ash, FILL 12" Virgin soil, brown orange fine SAND and SILT, moist	1	SS	5, 5, 5, 5	21	0		
5		Brown fine SAND and SILT, mottled	2	SS	3, 3, 2, 4	24	0		
, 6- , 7-		Brown fine sand some silt, mottled, pyrite		SS	6, 4, 4, 7	16	0		a sana sana sa Ang ang ang ang ang ang ang ang ang ang a
8 9		No recovery, pushed cobble		SS	9, 11, 13, 14	0	0	ан Гарана — — — — — — — — — — — — — — — — — —	¥ 1.15
10		Brown fine SAND, some silt mottled, saturated	3	SS	2, 6, 8, 11	7	0		
12 13		No recovery		SS	6, 7, 8, 6	0	0		
14		Green gray fine to medium SAND, little silt, saturated		SS	5, 5, 5, 9	3	0		
16- 17-		Green gray fine to coarse SAND, trace silt, some gravel	4	SS	12,8,9,13	12	0		
18 19		Green gray fine to coarse SAND, some shale cobbles, some fine to medium round gravel		SS	6,5,7,8	15	0		
20 21 22		Green gray fine to coarse SAND, some shale cobbles, some fine to medium round gravel		SS	4,6,7,7	6	0		
C	Contract	or: ADT				Hole	Size:	6.5	
		hod: HSA, 4.25-inch ID Augers							

Drill Date: 6/11/03

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

Aller and a second

	SUE	BSURFACE PROFILE			SAMPLE				
Depth	USCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
23-		Green gray fine to coarse SAND, some shale cobbles, some fine to medium round gravel	5	SS	5,8,10,12	16	0		
24-		Green gray fine to coarse SAND, some shale cobbles, some fine to medium round gravel		SS	4,4,7,8	9	0		
26-		Green gray fine to coarse SAND, some shale cobbles, some fine to medium round grave!		SS	5,6,5,7	8	0		n ni na ta Mana
28- 29-		Green gray fine to coarse SAND, some shale cobbles, some fine to medium round gravel	6	SS	2,3,6,12	19	0		200 - 29 73 203 51 - 22 7 75 203 79 - 25 20
30- 31- 32-		Gray fine to medium SAND, some silt, black shale and organics, clay seams at 6" and 12" 6" Organic black SAND and SHALE, some silt, no odor or sheen. 14"	7	SS	2,3,6,16	18	0		2 4:3763 ( 1 1 1 . 2 423 1
32- 33- 34-		CLAYEY SILT, wet	8	SS	SHELBY	24	NA		
34 35 36 37 38 39 40 41 41 42 43 44		End of Borehole							
	ontrac	tor: ADT				Hole	Size:	6.5	
Dri	Drill Method: HSA, 4.25-inch ID Augers								
Dr	Drill Date: 6/11/03 Sheet: 2 of 2								

Boring / Well ID: SB11/MW04

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

Geologist: John Santacroce

	SUE	SURFACE PROFILE			SAMPLE	1			
Depth	USCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
0-		Ground Surface							
1 1 2 3		Hand dig for utility clearance. SILTY SAND FILL with brick and concrete.		Hand	NA	NA	0	rez frizz frizz fri	Bentonite Grout Backfill
5		Orange tan FILL with brick, some clay	1	SS	1,1,2,3	20	0	47. A. 47.	
7		Brown orange fine to medium SA ND and SILT, mottled	2	SS	3,3,4,4	22	0		1 - 1 - 1 - 1 - 2 - 2 1
8 9		Brown orange fine to coarse SAND, some silt, trace pyrite, wet last 2"		SS	5,5,7,8	12	0	17	
10		Gray fine to medium SAND, little silt, some pyrite, saturated		SS	4,6,10,9	8	0	<u>(* * * * * * * * * * * * * * * * * * * </u>	
12 13 14		Poor recovery, sluff		SS	11,12,11,8	1	0	7. 2. 4. 7. 4. 7. 2. 4. 7. 7. 4.	Sch. 40 PVC Riser
14 15 16		Green gray fine to medium SAND, trace silt, some fine to medium round gravel, saturated.	3	SS	8,6,6,6	10	0	ner frier	
17		Green gray fine to medium SAND, trace silt, some fine to medium round gravel, saturated		SS	6,8,9,11	7	0		
18		Green Gray medium to coarse SAND, little shale, saturated	4	SS	10,9,13,11	15	0		
20 21 22		Green Gray medium to coarse SAND, little shale, saturated		SS	8,8,3,9	7	0	ARE ARE	
	Contract	or: ADT				Hole	Size:		J
		hod: HSA, 4.25-inch ID Augers							

Drill Date: 6/12/03

Boring / Well ID: SB11/MW04

Client: Niagara Mohawk

Project Name: Former MGP Site

Site Location: Canal St., Fort Edward

MWH Americas 10 Airline Drive Suite 200 Albany, NY 12205

Project Number: 4260146

Geologist: John Santacroce

SUBSURFACE PROFILE				SAMPLE					
Depth	NSCS	Description	Number	Type	Blows/6in	Recovery	PID (ppm)	Well Construction	Remarks
23		Green Gray medium to coarse SAND, some black shale.	5	SS	5,6,8,8	12	0	2.7.2.7. 2.7.2.7.	
24-		Green Gray fine to coarse SAND with fine to medium gravel and black shale.		SS	15,12,9,10	6	0		00-sand
26-		Green Gray fine to coarse SAND with fine to medium gravel and black shale. Clay seam at 3".		SS	14,10,9,8	6	0		Bentonite 00-Sand
28-		Green Gray medium to fine SAND, some silt, clay seam at 3"	in er	SS	15,10,9,11	24	0		0-Sand
30- 31-		No recovery pushed cobble		SS	7,9,10,8	0	NA		0.010 Slot PVC Screen
32 33		Green gray fine to medium SAND and silt,6" gray clay at bottom of sample.	6	SS	14,13,7,8	17	0		
34 35		Green gray fine to medium SAND amd silt, 2" clay seams at 5" and 12"		SS	10,12,11,1	20	0		
36 37		6" Gray Green fine to medium SAND and silt 6" Gray SILTY CLAY, wet		SS	9,6,6,5	12	0		
38 39		Gray CLAY, moist, soft, trace fine sand seams	7	SS	1,1,1,1	24	0		
40-		Shelby Tube	8	SS	NA	24	NA		
42-43-		End of Borehole							
Contractor: ADT Hole Size: 6.5									
Drill Method: HSA, 4.25-inch ID Augers									

Drill Date: 6/12/03

### MWH TEST PIT LOG

PROJECT NAME: Niagara Mohawk- Former MGP	LOCATION: Canal St	Fort Edward, NY	TEST PIT ID: TP-2
GEOLOGIST/ENGINEER: John Santacroce	-		DATE: 6/3/03
DRILLERS NAME/COMPANY: ADT			SHEET 1 of 1
EQUPMENT USED: Bobcat Excavator			-
EXCAVATION METHOD: 4' x 4' Trench			-
LONGITUDE: LATITUDE:	WATER:	DEPTH:	TIME:
CHECKED BY:		NOT ENCOUNTERED	

DEPTH (FT.)	DID (mdd)	uscs	DESCRIPTION
	- 0		Test pit located South-east of holder foundation. 0-1' Topsoil, black, organic
2-	- 0		<ul> <li>1-4' Tan medium to coarse SAND FILL, wet, orange mottling, brick and shingles 0-3' bgs. Excavation stopped due to cast iron pipe found at 3' bgs.</li> <li>Holder foundation is approximately 1' thick concrete with limestone footers extending to 2' bgs</li> </ul>
4- 			

#### **MWH** MWH TEST PIT LOG

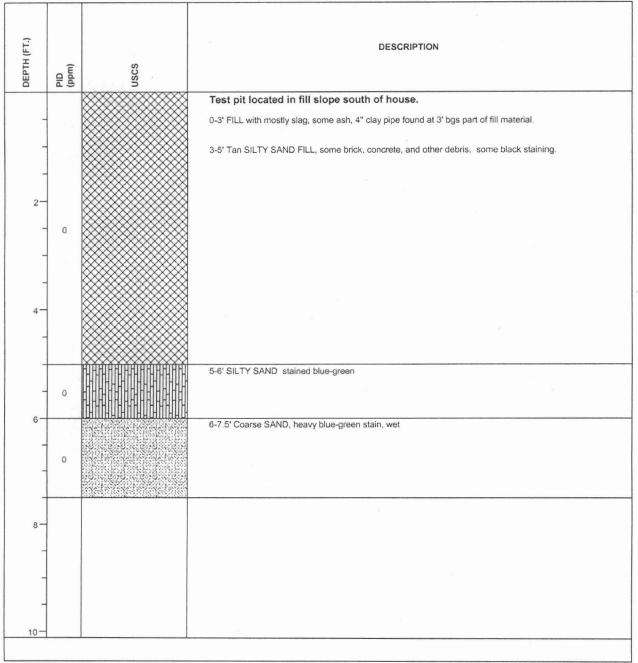
	100	Niagara Monawk-Former M	GP LOCATION: Canal S	t Fort Edward, NY	DATE: 6/3/03
					_
			WATER:		TIME:
				NOT ENCOUNTERED	
011201120					
				2	
Ê				DESCRIPTION	
DEPTH (FT.)	Ê	Ś			
DEP	(mqq) DId	nscs			
			Test pit located near apparen	t former structure, eas	st of holder foundation.
-			0-3' Black SANDY FILL with brick, b	ottles and assorted debris.	
_			Wall is made of concrete and brick, I	possibly a footer for a forme	er unknown structure.
-	0				
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10-

#### MWH TEST PIT LOG

()) мwн

PROJECT NAME: Niagara Mohawa	- Former MGP	LOCATION: Canal St	Fort Edward, NY		TEST PIT ID: TP-4
GEOLOGIST/ENGINEER: John San	tacroce				DATE: 6/3/03
DRILLERS NAME/COMPANY: ADT					SHEET 1 of 1
EQUPMENT USED: Bobcat Excavat	or				
EXCAVATION METHOD: 4' x 4' Tre	nch				
LONGITUDE:L	ATITUDE:	WATER:	DEPTH: 6'	TIM	E <u>:</u>
CHECKED BY:			NOT ENCOUNT	ERED 🗌	



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#### ()) мwн MWH TEST PIT LOG

PROJECT NAME: Niagara Mohawk- Former MGP	LOCATION: Canal St Fort Edward, NY	TEST PIT ID: TP-1
GEOLOGIST/ENGINEER: John Santacroce		DATE: 6/3/03
DRILLERS NAME/COMPANY: ADT		SHEET 1 of 1
EQUPMENT USED: Bobcat Excavator		
EXCAVATION METHOD: Trench		
LONGITUDE: LATITUDE:	WATER: DEPTH:	TIME <u>:</u>
CHECKED BY:	NOT ENCOUNTERE	ED 🖌

DEPTH (FT.)	DID (mqq)	RSCS	DESCRIPTION
	0	_ 	Test pit located North-west of holder foundation. 0-6" Topsoil
	0		2-4' Fill SAND with some ash and brick. Holder foundation is aproximately 1' thick concrete with limestone fotters extending to 2.3' bgs.
2-	- o		2-4' Tan SILTY SAND, tight, trace clay, dry
6-	- 0		4-6' Coarse moist SAND, some medium sand
	-		
10-	-		

**FIGURES** 

TABLES

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DUP
= Field Duplicate Sample; J
= Estimated value, I
D = Diluted sample;
U = Not detected at laboratory reporting limit;
V = Estimated value based on validation criteria; BE
OL = Result Bel
low Detection/Reporting Limit

			Location ID	SS01	SS02	SS03	SS04	SS05	SS06	SS07	SOSS	SS09	SS10	SS	SS11	SS12	SS13	
	Analyte	KSCU	Units	Ub/US/ZUUS	UB/US/ZUUS	06/04/2003	Ub/U4/2UU3	06/04/2003	06/04/2003	06/04/2003	06/05/2003	06/05/2003	06/05/2003	06/49/2003	SS11-DUP 06/09/2003	06/12/2003	06/12/2003	SS13-DUP 6/12/2003
	2,4,5-Trichlorophenol	0.1	mg/Kg	10	1.4 U	1 U	0.97 U	1.1 U	0.071 J	1.1 U	1.2 U	1.1 U	1.2 U	N 68'0	0.92 U	1.2 U	1 U	1.1 U
	2,4,6-Trichlorophenol		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0,44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
	2,4-Dimethylphenol	. 0.4	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
	2,4-Dinitrophenol	0.2	mg/Kg	1 UV	1.4 UV	1 UV	0.97 UV	1.1 UV	1.1 UV	1.1 UV	1.2 UV	1.1 UV	1.2 UV	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
	2,4-Dinitrotoluene		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0 41 U	0.4311
	2,6-dinitrotoluene	<del>.</del>	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 0	0.43 U
	2-Chloronaphthalene		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 11	0.4110	0.4311
	2-Chlorophenol	0.8	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
	2-Methylnaphthalene	36.4	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.15 J	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
	2-Methylphenol (o-cresol)	0.1	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
	2-Nitroaniline	0.43	mg/Kg	1 U	1.4 U	1 U	0.97 U	1.1 U	1.1.U	1.1 U	1.2 U	1.1 U	1.2 U	N 68'0	0.92 U	1.2 U	10	1.1 U
More         More <th< td=""><th>2-Nitrophenol</th><td>0.33</td><td>mg/Kg</td><td>0.4 U</td><td>0.57 U</td><td>0.4 U</td><td>0.38 U</td><td>0.44 U</td><td>0.44 U</td><td>0.44 U</td><td>0.47 U</td><td>0.42 U</td><td>0.46 U</td><td>0.35 U</td><td>0.37 U</td><td>0.47 U</td><td>0.41 U</td><td>0.43 U</td></th<>	2-Nitrophenol	0.33	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
0.0000         0.000 <t< td=""><th>3,3'-Dichlorobenzidine</th><td></td><td>mg/Kg</td><td>0.4 U</td><td>0.57 U</td><td>0.4 U</td><td>0.38 U</td><td>0.44 U</td><td>0.44 U</td><td>0.44 U</td><td>0.47 U</td><td>0.42 U</td><td>0.46 U</td><td>0.35 U</td><td>0.37 U</td><td>0.47 U</td><td>0.41 U</td><td>0.43 UV</td></t<>	3,3'-Dichlorobenzidine		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 UV
were         were <th< td=""><th>3-Nitroaniline</th><td>0.5</td><td>mg/Kg</td><td>10</td><td>1.4 U</td><td>1 U</td><td>0.97 U</td><td>1.1 U</td><td>1.1 U</td><td>1.1 U</td><td>1.2 U</td><td>1.1 U</td><td>1.2 U</td><td>N 68'0</td><td>0.92 U</td><td>1.2 U</td><td>1 U</td><td>1.1 U</td></th<>	3-Nitroaniline	0.5	mg/Kg	10	1.4 U	1 U	0.97 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	N 68'0	0.92 U	1.2 U	1 U	1.1 U
0         0	4,6-Dinitro-2-methylphenol		mg/Kg	1 UV	1.4 UV	1 UV	0.97 UV	1.1 UV	1.1 UV	1.1 UV	1.2 UV	1.1 UV	1.2 UV	0.89 UV	0.92 UV	1.2 UV	1 UV	1.1 UV
New         New <th>4-Bromopnenyi pnenyi etner</th> <td></td> <td>mg/Kg</td> <td>0.4 U</td> <td>0.57 U</td> <td>0.4 U</td> <td>0.38 U</td> <td>0.44 U</td> <td>0.44 U</td> <td>0.44 U</td> <td>0.47 U</td> <td>0.42 U</td> <td>0.46 U</td> <td>0.35 U</td> <td>0.37 U</td> <td>0.47 U</td> <td>0.41 U</td> <td>0.43 U</td>	4-Bromopnenyi pnenyi etner		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
mem         mem <th>4-Chloroopilino</th> <td>0.24</td> <td>mg/Kg</td> <td>0.4 U</td> <td>0.57 0</td> <td>0.4 0</td> <td>0.38 U</td> <td>0.44 U</td> <td>0.44 U</td> <td>0.44 U</td> <td>0.47 U</td> <td>0.42 U</td> <td>0.46 U</td> <td>0.35 U</td> <td>0.37 U</td> <td>0.47 U</td> <td>0.41 U</td> <td>0.43 U</td>	4-Chloroopilino	0.24	mg/Kg	0.4 U	0.57 0	0.4 0	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
0         0	4-Chlorophonyl phonyl other	0.22	mg/Kg	0.4 0	0.57 0	0.4 0	0.38 0	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
0         0	4-Cillotophenyi phenyi ether		mg/kg	0.4 0	0.57	0.4 0	0.38 0	U.44 U	U.44 U	U.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
0         0	4-Nitronhenol	<u>.</u> .	mg/Kg	1 -	1.40	1 -	0.97 0	1110	1.10	1.1 0	1.20	1.10	1.20	0.89.0	0.92 U	1.2 U	10	1.1 UV
Matrix         Yan         Yan<	Acenaphthene	50	ma/Ka	041	0.5711	0411	0.3811	0 44 11	1.10	0 44 11	1.2.0	0 1.1 0	0.71	0.89 UV	0.92 UV	1.2 UV	1 UV	1.1 UV
0         0	Acenaphthylene	41	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	· 0.44 U	1.2	0.44 U	0.47 U	0.42 U	0.46 U	0.25.0	0.37 0	L CCU'N	0.41 U	0.43 U
	Acetophenone		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	1.0	0.42 U	0.46 U	0.13 J	0.37 U	0.47 11	0.4110	0.4311
Monte         Monte <th< td=""><th>Anthracene</th><td>50</td><td>mg/Kg</td><td>0.4 U</td><td>0.57 U</td><td>0.4 U</td><td>0.38 U</td><td>• • • 0.44 U</td><td>7.2 D</td><td>0.44 U</td><td>0.47 U</td><td>0.42 U</td><td>0.46 U</td><td>0.35 U</td><td>0.37 U</td><td>0.47 U</td><td>0.41 U</td><td>0.43 U</td></th<>	Anthracene	50	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	• • • 0.44 U	7.2 D	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
No.         No. <th>Atrazine</th> <td></td> <td>mg/Kg</td> <td>0.4 U</td> <td>0.57 U</td> <td>0.4 U</td> <td>0.38 U</td> <td>0.44 U</td> <td>0.44 U</td> <td>0.44 U</td> <td>0.47 U</td> <td>0.42 U</td> <td>0.46 U</td> <td>0.35 U</td> <td>0.37 U</td> <td>0.47 U</td> <td>0.41 U</td> <td>0.43 U</td>	Atrazine		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
0         0	Benzaldehyde		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	- 0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 UV	0.37 U	0.47 U	0.41 U	0.43 U
No.         No. <th>Benzo(a)anthracene</th> <td>0.224</td> <td>mg/Kg</td> <td>0.4 U</td> <td>0.57 U</td> <td>L 180.0</td> <td>0.091 J</td> <td>0.1 J</td> <td>9.5 0</td> <td>0.44 U-</td> <td>0.12 J</td> <td>0.42 U</td> <td>0.46 U</td> <td>0.35 U</td> <td>0.37 U</td> <td>0.47 U</td> <td>0.077 J</td> <td>0.051 V</td>	Benzo(a)anthracene	0.224	mg/Kg	0.4 U	0.57 U	L 180.0	0.091 J	0.1 J	9.5 0	0.44 U-	0.12 J	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.077 J	0.051 V
Matrix         Matrix<	Benzo(a)pyrene Benzo(h)fluoranthene	1 4	mg/Kg	0.4 0	0.57 U	0.4 0	0.4 J	0.083 J	06.7	0.44 U	0.094 J	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.075 V	0.057 V
	Benzo(g,h,i)perylene	50	ma/Ka	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	1.5	0.44 U	0.4711	0.42 0	0.46 0	0.35 0	0.37 U	0.47 U	0.1 V	0.43 UV
mum         i         mage         i         mage         i         mage         i         mage         mage <thmage< th="">         mage         mage</thmage<>	Benzo(k)fluoranthene	0.224	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	3.1	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 UV	0.43 UV
	Biphenyl (diphenyl)		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.11 J	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
mbmc         i         mg/s         0.41         0.51         0.41         0.31         0.41         0.	bis(2-Chloroethoxy) methane		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	bis(2-Chloroethyl) ether		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
	bis(2-Chloroisopropyl) ether		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
	Carbatole		mg/Kg	0.4 0	0.57 U	0.4 0	0.38 0	0.44 U	U.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Christene	<b>.</b> .	majika	0.40	0.57.0	0.40	0.30 0	0.44 0	0.74	0.44 U	0.47 0	0.42 0	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
Ny Jennine         N	Cresols M & P	0.4	mg/Kg	0.4 0	0.57.0	0.019 J	L 100.0	0.084 J	0.718	0.44 U	0.17 J	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	L 260.0	0.07 V
Abjunthasene         6.04         man         6.11	Di-n-butyl phthalate	8.1	ma/Ka	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 0	0.400	0.35.0	0.37 U	0.47 U	0.41 U	0.43 U
Mam         62         mg/d         0.41         0.51         0.41         0.301         0.41         0.89         0.41         0.81         0.41         0.81         0.41         0.81         0.41         0.81         0.41         0.81         0.41         0.81         0.41         0.41         0.81         0.41         0.41         0.81         0.41         0.41         0.81         0.41         0	Dibenz(a,h)anthracene	0.014	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.92	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.3711	0.4711	0.41 IV	0.43 0
Bybhalse         7.1         mg/kg         0.41         0.51         0.41	Dibenzofuran	6.2	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.88	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
Inthine         S0         mgKg         0.41         0.571         0.42         0.12         0.12         0.11         0.21         0.11         0.11         0.21         0.11         0.21         0.11         0.21         0.11         0.21         <	Diethyl phthalate	7.1	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
e         de         dd         ddd         dddd         ddd         ddd	Fluoranthene	50	mg/Kg	0.4 U	0.57 U	0.14 J	0.12 J	0.17 J	24 D	0.44 U	0.17 J	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.11 J	0.43 U
Onconstant         ON	Fluorene	50	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	1.8	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
Discription         Since	Hexachlorobenzene	0.41	mg/Kg	0.4 0	0.57 U	0.4 0	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 UV	0.37 U	0.47 U	0.41 U	0.43 U
Ionochane         ·         mg/G         0.40         0.570         0.40         0.380         0.40         0.400         0.4	Hexachlorocvclopentadiene		ma/Ka	0.4 UV	0.57 UV	0.4 UV	0.38 UV	0 44 UV	0.44 IIV	0.44 IV	0.4711/	0.42 0	0.40 0	U.35 UV	0.37 UV	0.47 UV	0.41 UV	0.43 U
1/2.3-c./ilyyrene         3.2         mg/G         0.4 U         0.5 U         0.4 U         0.3 U         0.4 U         0.3 U         0.4 U         0.3 U         0.4 U         0.3 U         0.4 U	Hexachloroethane		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.4611	0.52.0	0.37 0	0.47 1	0.41 U	0.43 U
one         4.4         mg/Kg         0.4 U         0.5 U         0.4 U         0.3 U         0.4	Indeno(1,2,3-c,d)pyrene	3.2	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	2.9 3D	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.4711	0.4111	0.43 11/
iodi-n-propylamine         ·         mg/Kg         0.4U         0.5TU         0.4U         0.3U         0.4U         0.4U <th>Isophorone</th> <td>4.4</td> <td>mg/Kg</td> <td>0.4 U</td> <td>0.57 U</td> <td>0.4 U</td> <td>0.38 U</td> <td>0.44 U</td> <td>0.44 U</td> <td>0.44 U</td> <td>0.47 U</td> <td>0.42 U</td> <td>0.46 U</td> <td>0.35 U</td> <td>0.37 U</td> <td>0.47 U</td> <td>0.4111</td> <td>0.4311</td>	Isophorone	4.4	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.4111	0.4311
iodiphenylamine         ·         mg/Kg         0.4U         0.5TU         0.38U         0.4U	n-Nitrosodi-n-propylamine		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
alene         13         mg/Kg         0.4U         0.5TU         0.4U         0.4U <t< td=""><th>n-Nitrosodiphenylamine</th><td></td><td>mg/Kg</td><td>0.4 U</td><td>0.57 U</td><td>0.4 U</td><td>0.38 U</td><td>0.44 U</td><td>0.44 U</td><td>0.44 U</td><td>0.47 U</td><td>0.42 U</td><td>0.46 U</td><td>0.35 U</td><td>0.37 U</td><td>0.47 U</td><td>0.41 U</td><td>0.43 U</td></t<>	n-Nitrosodiphenylamine		mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
nzene         0.2         mg/Kg         0.4U         0.5U         0.4U         0.4U <t< td=""><th>Naphthalene</th><td>13</td><td>mg/Kg</td><td>0.4 U</td><td>0.57 U</td><td>0.4 U</td><td>0.1 J</td><td>0.44 U</td><td>0.46</td><td>0.44 U</td><td>0.47 U</td><td>0.42 U</td><td>0.46 U</td><td>0.35 U</td><td>0.37 U</td><td>0.47 U</td><td>0.41 U</td><td>0.43 U</td></t<>	Naphthalene	13	mg/Kg	0.4 U	0.57 U	0.4 U	0.1 J	0.44 U	0.46	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
Intropenen         1.         mg/Kg         1.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <th< td=""><th>Nitrobenzene</th><td>0.2</td><td>mg/Kg</td><td>0.4 U</td><td>0.57 U</td><td>0.4 U</td><td>0.38 U</td><td>0.44 U</td><td>0.44 U</td><td>0.44 U</td><td>0.47 U</td><td>0.42 U</td><td>0.46 U</td><td>0.35 U</td><td>0.37 U</td><td>0.47 U</td><td>0.41 U</td><td>0.43 U</td></th<>	Nitrobenzene	0.2	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
Immene         SD         mg/Kg         0.4/1         0.07,1         0.07,1         0.07,1         0.07,1         0.017,1         0.4/1         0.65,1         0.4/2	Pentachlorophenol	:	mg/Kg	10	1.4 U	10	0.97 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	0.89 U	0.92 UV	1.2 UV	1 UV	1.1 U
u.us         mg/kg         0.4 U         0.3 U         mg/kg         0.4 U         0.3 U         0.4 U         0.3 U         0.4 U         0.3 U         0.4 U	Phenanthrene	50	mg/Kg	0.4 U	0.57 U	0.072 J	0.38 U	0.046 J	14 D	0.44 U	0.056 J	0.42 U	0.46 U	0.35 U	0.37 U	0.13 J	0.41 U	0.43 U
Solution	Phenol	0.03	mg/Kg	0.4 U	0.57 U	0.4 U	0.38 U	0.44 U	0.44 U	0.44 U	0.47 U	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.41 U	0.43 U
·         Img/Ng         BDL         BDL         0.71 J         0.730 J         11.4 J         BDL         0.13 J         BDL         0.185 J         0.599 JV           ·         mg/Kg         BDL         BDL         0.577 J         0.711 J         0.730 J         1194 JD         BDL         0.840 J         BDL         BDL         BDL         0.185 J         0.599 JV           ·         mg/Kg         BDL         0.577 J         0.711 J         0.730 J         1094 JD         BDL         0.840 J         BDL         BDL         BDL         0.185 J         0.599 JV		20	mg/Kg	U.4 U	U.57 U	0.77 J	0.744	0.76 J	18.0	0.44 U	0.17 J	0.42 U	0.46 U	0.35 U	0.37 U	0.47 U	0.14 J	0.43 UV
mg/Kg BDL BDL 0.255 J 0.361 J 0.354 J 40.8 J BDL 0.444 J BDL	Total PAHs		ma/ka	BDI	RDI	0.577.1	0.711.J	0.730 J	109.4 JD	BUL	0 840 J	BDL	BDL	0.13 J	BDL	0.185 J	0.599 JV	0.178 V
	cPAHs		ma/Ka	BDL	BDL	0.255 J	0.361 J	0.354 J	40.8 J	BDI	0.444 .)	RDI	RDI	800		0.100 J	AF 66C'D	0.1/8 J

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# Table 5-1 Surface Soils - TCL SVOCs

Analyte	RSCO	Location ID Sample Date Units	SS01 06/03/2003	SS02 06/03/2003	SS03 06/04/2003	SS04 06/04/2003	SS05 06/04/2003	SS06 06/04/2003	SS07 06/04/2003	SS08 06/05/2003	SS09 06/05/2003	SS10 06/05/2003	06/0g/2003	11 SS11-DUP 06/09/2003	SS12 06/12/2003	SS13 06/12/2003	513 SS13-DUP 06/12/2003
Aluminum	33,000	mg/Kg	2,910	8,220	13,500	4,840	9,730	10,300	10,800	6,360	7,440 *	9,130	7,570	8,030	9,610	5,290	5,440
Antimony		mg/Kg	14.5 U	20.3 U	14.3 U	13.8 U	1.3 J	16 U	16 U	11.8 U	14.9 U	16.7 U	12.0 UN	13.5 UN	16.6 UN	14.9 UN	15.8 UN
Arsenic	7.5	mg/Kg	1.2 J	8.6	4.3	ω	6	6.1	6.2	4.5	2.1 J	3.9	2.8	2.7	2.8	3.1	3.3
Barium	300	mg/Kg	27.7 J	96.5	113	52.8	59.5	69.4	63.5	61.4	52.4 N*	107	56.9	58.9	69.2	59.6	61.9
Beryllium	0.16	mg/Kg	0.16 J	L 65.0	0.59 J	0.29 J	0.46 J	0.43 J	0.49 J	0.31 J	0.4 J	0.43 J	0,4 J	0.43 J	0.53 J	0.28 J	0.27 J
Cadmium	10	mg/Kg	0.18 J	0.51 J	0.33 J	0.4 J	0.16 J	1.3 U	1.3 U	U.09 J	0.14 J	1.9	1.4 U	1.1 U	1.4 U	0.41 J	0.42 J
Calcium		mg/Kg	82,300	5,200	7,890	26,100	1,730	1,930	1,830	2,550	1,820 *	4,250	1,030	2,270	2,990	5,220	5,230
Chromium, total	50	mg/Kg	3.6	9.6	22.5	5.4	8.3	8.8	9.2	5	5.8 *	13.1	7.7	8.1	9.7	8.7	8.8
Cobalt	30	mg/Kg	2.1 J	4.9 J	11.5 J	4 J	4.4 J	4.7 3	4.8 J	2.8 J	3.8 J	6.6 J	4.1 J	4.8 J	5.4 J	4.2 J	4 J
Copper	25	mg/Kg	8.5	19.3	17.7	16	10.7	14.2	11.3	5.5	6.3	13.2	7.6	8.1	11.2	17.8	18
Iron .	2,000	mg/Kg	6,080	14,100	21,800	10,000	13,700	16,600	15,200	13,500	10,400	13,000	13,500	15,800	18,400	10,900	11,200
Lead	,	mg/Kg	143	228	59.9	62.1	44.3	50.7	45.3	35.9	18	136	20.7 N	20.1 N	26.8 N	107 N	112 N
Magnesium		mg/Kg	6,610	1,340 J	5,390	9,390	1,200 J	1,320 J	1,360	876 J	1,200 J	1,340 J	. 1,010 J	-1,100 J	1,350 년	1,570	1,690
Manganese		mg/Kg	141	310	704	258	. 204	217 .	210	307	203	211	3#2	434	382	235	232
Mercury	0.1	mg/Kg	0.12 U	0.2	0.14	0.14	.0.14	0.18	0.13 U	0.09 U	0.12 U	0.28	0.1 U	0.11 U	0.13 U	0.12 U	0.12
Nickel	13	mg/Kg	4.8 J .	12.7 J	19.1	8.6 J	5.4 J	5.7 J	5.8 J	3.8 J	5 J	6.1 J	4.2 J	4.8 J	5.8 J	6.7 J	7.4 J
Potassium	43,000	mg/Kg	358 J	440 J	1,570	671 J	171 J	204 J	194 J	221 J	316 V	369 J	19g JE	217 JE	245 JE	375 JE	384 JE
Selenium	2	mg/Kg	0.82 J	2.2	2.3	1 J	2.1	1.8	1.9	0.98 U	1.2 U	1.9	1.1 U	1.1 U	1.4 U	1.2 U	1.3 U
Silver		mg/Kg	2.4 UN	0.54 JN	0.45 JN	2.3 UN	2.6 UN	0.71 V	2.7 UN	2 UN	2.5 U	2.8 UN	2.2 UN	2.2 UN	2.8 UN	2.5 UN	2.6 UN
Sodium		mg/Kg	1,210 U	1,690 U	1,200 U	95.8 J	1,290 U	1,330 U	1,330 U	81.4 J	1,240 U	1,390 U	11,3 J	1,120 U	1,390 U	168 J	156 J
Thallium		mg/Kg	2.4 U	3.4 U	2.4 U	2.3 U	2.6 U	2.7 U	2.7 U	2 U	2.5 U	2.8 U	2.2 U	2.2 U	2.8 U	2.5 U	2.6 U
Vanadium	150	mg/Kg	8.1 J	22.5	30	11.2 J	20.6	21	22.4	15	15.2	20.9	18-9	21.6	25.4	15.6	16.3
Zinc	20	mg/Kg	43.9 E	173 E	131 E	211 E	47.4 E	50.9 V	56.8 E	56.2	51	2002 E	35 7 F	48.9 F	64 6 F	277 E	170 E

DUP = Field Duplicate Sample; J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit; V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit

# Table 5-2 Surface Soils - TAL Metals

Table 5-3 Surface Soils- Total Organic Carbon

	5502-01 5503-01 6/3/2003 6/4/2003	SS04-01	SS05-01 6/4/2003	SS06-01	<b>SS07-01</b>
TOC (ma/ka) 4.000 4.500		5.800	2.700	5.000	4,200

Sample Date         6/5/2003         6/5/2003         6/9/2003         6/12/2003         6/12/2003           TOC (mg/kg)         5,700         3,900         4,800         3,400		SS08-01 SS09-01	SS10-01	SS09-01	SS12-01	SS13-02
5,700 4,400 5,700 3,900 4,800	Anna - Carton		6/5/2003	6/9/2003	6/12/2003	6/12/2003
			5,700	3,900	4,800	3,400
		-				
			1. 18 M. 1.			
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able 5-4	Soils- TCL V
T	Subsurface

		Location ID	SB03 SB03-07-6-8	S 201 07 26 20	SB04 SB04 of 26 40 DUID	SB05	SB07	SB08	SB09	SB10	SB11
Analyte	RSCO	Sample Date Units	06/05/2003	06/06/2003	06/06/2003	06/09/2003	06/10/2003	06/10/2003	06/11/2003	06/11/2003	06/12/2003
1,1,1-Trichloroethane	0.8	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,1,2,2-Tetrachloroethane	0.6	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,1,2-Trichloroethane		mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,1,2-Trichlorotrifluoroethane		mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethane	0.2	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,1-Dichloroethene	0.4	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,2,4-Trichlorobenzene	3.4	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,2-Dibromo-3-chloropropane	,	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,2-Dibromoethane (ethylene Dibromide)		mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,2-Dichlorobenzene	7.9	mg/Kg	0.012 U	0.013 U	0(013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,2-Dichloroethane	0.1	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,2-Dichloropropane		mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,3-Dichlorobenzene	1.6	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
1,4-Dichlorobenzene	8.5	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
2-Butanone		mg/Kg	0.012 UV	0.013 UV	0.013-UV	0.013 UV	0.013 UV	0.011 UV	0.012 UV	0.012 UV	0.013 UV
2-Hexanone		mg/Kg	0.012 UV	0.013 UV	0.013 UV	0.013 UV	0.013 UV	0.011 UV	0.012 UV	0.012 UV	0.013 UV
4-Methyl-2-pentanone	1.0	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0 011 11	0 012 11	0.01211	0.013.11
Acetone	0.2	mg/Kg	0.012 UV	0.013 UV	0.013 UV	0 013 LIV	0.013.11V	0 111 LIV	0.01010	0.01010	1012100
Benzene	0.06	ma/Ka	0.012 U	0.013 U	0.013 11	0.01311	0.013.11	111100	0.012.00		
Bromodichloromethane		mg/Kg	0.012 U	0.013 U	0.013 11	0.013 11	0.013.0	0.011	0.410.0		
Bromoform	,	ma/Kn	0.01211	0.013 11	0.013 11			0.011.0	0.010.0	0.210.0	0.010.0
Bromomethane		By/Ru	0 210.0	11 610 0	0.010.0		0.013 UV	VU 110.0	0.012 UV	0.012 UV	0.013 UV
Carbon disulfide	7 6	By/Ru	10.012 0		0.010.0	0.010.0	0.013.0	0 110.0	0.012 U	0.012 U	0.013 U
Carbon tetrachloride	30	Building	0 210.0	0.013.0	0.013 U	0.013 0	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Chlorohanzana	0.0	6v/6m	0.210.0	0.013.0	0.013.0	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Chloroethane	1.1	By/Bu	0.210.0	0,013,0	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Chloroform	n	By/Bm	0.210.0	0.013 U	0.013.0	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Chloromothane	0.0	By/Bm	0.210.0	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
cis.1 2-Dichloroothylono		By/Gm	0.012.0	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
cis-1,2-Dichloroncondia		By/Bm	0.012 0	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
cis-1,3-Ulchioropropene	,	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Cyclonexane		mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Dishlosodianosmetnane		mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Ethylhomono		mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Iconson/horzona (Cumana)	c.c	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
		6y/6m	0.210.0	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Mothul Acotato	7.1	бу/бш	0.012 0	0.013 U	0.013 U	C.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Methyl tott-high Ether		mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Methylevelohevano		by/bm	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Methylene chloride		By/Bill	0.210.0	0.013 0	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
		By/Bu	0.012.0	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Styrene	7	By/Bu	U.212.U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Tetrachloroethylene (DCE)		By/Bm	0.012 U	0.013 U		0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
	4. L	ву/вш	U.2.L.0	0.013 U		· 0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
	1.5	mg/Kg	0.012 U	0.013 U	0.013 U.	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
trans-1,2-Dichloroetnene	0.3	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Trichloroothulooo (TCE)		mg/kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Trichlorofluoromethane	0.7	mg/Kg	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Vinvl chloride	00	By/Bui	0.210.0	0.013.0	0.013.0	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
Total BTFX	3.0	Bu/Rui		0.610.0	0.013.0	0.013 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U
		ñu/ĥili	DUL	DUL	201	BUL	BUL	BDL	BDL	BDL	BDL
10(2) 2003		mg/Kg	BUL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

DUP = Field Duplicate Sample: J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit; V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit

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		Location ID			SB01		A Design of the second s
Analyte	RSCO	Field ID Sample Date Units	SB01-02-8-10 06/04/2003	SB01-03-14-16 06/04/2003	SB01-04-20-22 06/04/2003	SB01-05-24-26 06/04/2003	SB01-06-28-30 06/04/2003
Benzene	0.06	mg/Kg	0.0068 U	0.006 U	0.006 U	0.006 U	0.0058 UV
Ethylbenzene	5.5	mg/Kg	0.0068 U	0.006 U	0.006 U	0.006 U	0.0058 UV
m,p-Xylene	1.2	mg/Kg	0.0068 U	0.006 U	0.006 U	0.006 U	0.0058 UV
o-Xylene	1.2	mg/Kg	0.0068 U	0.006 U	0.006 U	0.006 U	0.0058 UV
Toluene	1.5	mg/Kg	0.0068 U	0.006 U	0.006 U	0.006 U	0.0058 UV
Total BTEX	•	mg/Kg	BDL	BDL	BDL	BDL	BDL

Field ID         SB0           RSCO         Sample Date         06           Units         0.06         mg/Kg         0           5.5         mg/Kg         0         0           1.2         mg/Kg         0         0           1.2         mg/Kg         0         0           1.5         mg/Kg         0         0			Location ID			SB02		
e 0.06 mg/kg e 1.2 mg/kg 1.2 mg/kg 1.2 mg/kg 1.2 mg/kg 1.5 mg/kg 1	Analyte	RSCO	Field ID Sample Date Units	SB02-02-8-10 06/05/2003	SB02-03-12-14 006/05/2003	SBO	SB02-05-20-22 06/05/2003	SB02-06-26-28 06/05/2003
le 5.5 mg/kg 1.2 mg/kg 1.2 mg/kg 1.5 mg/kg	e	0.06	mg/Kg	0.0063 U	0.006 U	0.0057 UV	0.0064 U	0.0066 UV
1.2 mg/kg 1.2 mg/kg 1.5 mg/kg	nzene	5.5	mg/Kg	0.0063 U	0.006 U	0.0057 UV	0.0064 U	0.0066 UV
1.2 mg/kg 1.5 mg/kg	ene	1.2	mg/Kg	0.0063 U	0.006 U	0.0057 UV	0.0064 U	0.0066 UV
1.5 mg/Kg	е	1.2	mg/Kg	0.0063 U	0.006 U	0.0057 UV	0.0064 U	0.0066 UV
		1.5	mg/Kg	0.0063 U	0.006 U	VU 7200,0	0.0064 U	0.0066 UV
- mg/Kg	Total BTEX		mg/Kg	BDL	BDL	BDL	BDL	BDL

a provide an or other		Location ID			SB03		
Analyte	RSCO	Field ID Sample Date Units	SB03-03-8-10 06/05/2003	SB03-04-14-16 06/05/2003	SB03-05-18-20 06/05/2003	SB03-06-24-26 06/05/2003	SB03-07-28-30 06/05/2003
Benzene	0.06	mg/Kg	0.0062 U	0.0059 U	0.006 U	0.0061 U	0.006 U
Ethylbenzene	5.5	mg/Kg	0.0062 U	0.0059 U	0.006 U	0.0061 U	0.006 U
m,p-Xylene	1.2	mg/Kg	0.0062 U	0.0059 U	0.006 U	0.0061 U	0.006 U
o-Xylene	1.2	mg/Kg	0.0062 U	0.0059 U	0.006 U	0.0061 U	0.006 U
Toluene	1.5	mg/Kg	0.0062 U	0.0059 U	0.006 U	0.0061 U	0.006 U
Total BTEX	r	mg/Kg	BDL	BDL		BDL	BDL

DUP = Field Duplicate Sample; J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit, V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit

		Location ID			SB04		
Analyte	RSCO	Field ID Sample Date Units	SB04-02-8-10 06/06/2003	SB04-03-12-14 06/06/2003	SB04-04-16-18 06/06/2003	SB04-05-20-22 06/06/2003	SB04-06-24-26 06/06/2003
Benzene	0.06	mg/Kg	0.0061 U	0.01	0.014	0.003 J	0.0057 U
Ethylbenzene	5.5	mg/Kg	0.0061 U	0.006 U	0.0058 U	0.0062 U	0.0057 U
n,p-Xylene	1.2	mg/Kg	0.0061 U	0.006 U	0.0058 U	0.0062 U	0.0057 U
o-Xylene	1.2	mg/Kg	0.0061 U	0.006 U	0.0058 U	0.0062 U	0.0057 U
<b>Foluene</b>	1.5	mg/Kg	0.0061 U	0.006 U	0.0058 U	0.0062 U	0.0057 U
Total BTEX		mg/Kg	BDL	0.01	0.014	0.003 J	BDL

and a state of the	100 - 10 - 1 - 1	I ocation ID			as	SRUE		
Analyte	RSCO	Field ID Sample Date Units	SB05-02-6-8 06/09/2003	SB05-03-10-12 06/09/2003	SB05-04-14-16 06/09/2003	SB05-05-20-22 06/09/2003	SB05-05-20-22-DUP 06/09/2003	SB05-06-26-28 06/09/2003
Benzene	0.06	mg/Kg	0.0063 U	0.006 U	0.006 U	0.006 U	0.006 U	0.0068 U
Ethylbenzene	5.5	mg/Kg	0.0063 U	0.006 U	0.006 U	0.006 U	0.006 U	0.0068 U
m,p-Xylene	1.2	mg/Kg	0.0063 U	0.006 U	0.006 U	0.006 U	0.006 U	0.0068 U
o-Xylene	1.2	mg/Kg	0.0063 U	0.006 U	0.006 U	0.006 U	0.006 U	0.0068 U
<b>Foluene</b>	1.5	mg/Kg	0.0063 U	0.006 U	0.006 U	0.006 U	0.006 U	0.0068 U
Total BTEX		mg/Kg	BDL	BDL	BDL	BDL	BDL	BDL

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		Location ID		And Andrew A			
Analyte	RSCO	Field ID Sample Date Units	SB06-02-6-8 06/09/2003	SB06-03-10-12 06/09/2003	SB06-04-16-18 06/09/2003	SB06-05-22-24 06/09/2003	SB06-05-28-30 06/09/2003
Benzene	0.06	mg/Kg	0.0063 U	0.006 U	0.0059 U	0.0061 U	0.0062 U
Ethylbenzene	5.5	mg/Kg	0.0063 U	0.006 U	0.0059 U	0.0061 U	0.0062 U
m,p-Xylene	1.2	mg/Kg	0.0063 U	0.006 U	0.0059 U	0.0061 U	0.0062 U
o-Xylene	1.2	mg/Kg	0.0063 U	0.006 U	0.0059 U	0.0061 U	0.0062 U
Toluene	1.5	mg/Kg	0.0063 U	0.006 U	0.0059 U	0.0061 U	0.0062 U
Total BTEX		mg/Kg	BDL	BDL	BDL	BDL	BDL
		-					

DUP = Field Duplicate Sample; J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit; V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit

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		Location ID			SB07		and the second se
Analyte	RSCO	Field ID Sample Date Units	SB07-02-10-12 06/10/2003	SB07-03-14-16 06/10/2003	SB07-04-18-20 06/10/2003	SB07-05-24-26 06/10/2003	SB07-06-28-30 06/10/2003
Benzene	0.06	mg/Kg	0.0059 U	0.006 U	0.006 U	0.0057 U	0.0062 U
Ethylbenzene	5.5	mg/Kg	0.0059 U	0.006 U	0.006 U	0.0057 U	0.0062 U
m,p-Xylene	1.2	mg/Kg	0.0059 U	0.006 U	0.006 U	0.0057 U	0.0062 U
o-Xylene	1.2	mg/Kg	0.0059 U	0.006 U	0.006 U	0.0057 U	0.0062 U
Toluene	1.5	mg/Kg	0.0059 U	0.006 U	0.006 U	0.0057 U	0.0062 U
Total BTEX		mg/Kg	BDL	BDL	BDL	BDL	BDL

Analyte	RSCO	Location ID Field ID Sample Date Units	SB08 SB08-02-5.5-7.5-DUP 06/10/2003
Benzene	0.06	mg/Kg	0.006 U
Ethylbenzene	5.5	mg/Kg	0.006 U
m,p-Xylene	1.2	mg/Kg	0.006 U
o-Xylene	1.2	mg/Kg	0.006 U
Toluene	1.5	mg/Kg	0.006 U
Total BTEX	×	mg/Kg	BDL

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		Location ID			SB09		
Analyte	RSCO	Field ID Sample Date	SB09-02-6-8 06/11/2003	SB09-03-12-14 06/11/2003	SB09-04-16-18 06/11/2001	SB09-05-22-24 06/11/2003	SB09-07-32-34 06/11/2003
		Units					
Benzene	0.06	mg/Kg	0.0059 U	0.006 U	0.006 U	0.0057 U	0.0068 U
Ethylbenzene	5.5	mg/Kg	0.0059 U	0.006 U	0.006 U	0.0057 U	0.0068 U
m,p-Xylene	1.2	mg/Kg	0.0059 U	0.006 U	0.006 U	0.0057 U	0.0068 U
o-Xylene	1.2	mg/Kg	0.0059 U	0.006 U	0 006 U	0.0057 U	0.0068 U
Toluene	1.5	mg/Kg	0.0059 U	0.006 U	0.006 U	0.0057 U	0.0068 U
Total BTEX		mg/Kg	BDL	BDL	BDL	BDL	BDL

DUP = Field Duplicate Sample; J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit; V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit

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		Location ID			SB10		
Analyte	RSCO	Field ID Sample Date Units	SB10-03-10-12 06/11/2003	SB10-04-16-18 06/11/2003	SB10-05-22-24 06/11/2003	SB10-06-28-30 06/11/2003	SB10-07-30-32 06/11/2003
Benzene	0.06	mg/Kg	0.0063 U	0.0058 U	0.006 U	0.0057 U	0.0068 U
Ethylbenzene	5.5	mg/Kg	0.0063 U	0.0058 U	0.006 U	0.0057 U	0.0068 U
m,p-Xylene	1.2	mg/Kg	0.0063 U	0.0058 U	0.006 U	0.0057 U	0.0068 U
o-Xylene	1.2	mg/Kg	0.0063 U	0.0058 U	0.006 U	0.0057 U	0.0068 U
Toluene	1.5	mg/Kg	0.0063 U	0.0058 U	0.006 U	0.0057 U	0.0068 U
Total BTEX		mg/Kg	BDL	BDL	BDL	BDL	BDL

		Location ID			SB11	11		
Analyte	RSCO	Field ID Sample Date Units	SB11-02-6-8 06/12/2003	SB11-03-14-16 06/12/2003	SB11-04-18-20 06/12/2003	SB11-05-22-24 06/12/2003	SB11-07-38-40 06/12/2003	SB11-07-38-40-DUP-RE 06/12/2003
Benzene	0.06	mg/Kg	0.006 U	0.0059 U	0.0059 U	0.006 U	VU 700.0	0.0072 UV
Ethylbenzene	5.5	mg/Kg	0.006 U	0.0059 U	0.0059 U	0.006 U	0.007 UV	0.0072 UV
m,p-Xylene	1.2	mg/Kg	0.006 U	0.0059 U	0.0059 U	0.006 U	0.007 UV	0.0072 UV
o-Xylene	1.2	mg/Kg	0.006 U	0.0059 U	0.0059 U	0.006 U	0.007 UV	0.0072 UV
Toluene	1.5	mg/Kg	0.006 U	0.0059 U	- 0.0059 U	0.006 U	0.007 UV	0.0072 UV
Total BTEX	•	mg/Kg	BDL	BDL	BDL	BDL	BDL	BDL

DUP = Field Duplicate Sample; J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit; V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit

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Table 5-6 Subsurface Soils - TCL SVOCs

				5002 00 0					0000	6000		
1         0	Analyte	RSCO	Sample Date Units	06/05/2003	06/06/2003	36/4-0/-28-28-DUP 06/06/2003	06/09/2003	06/10/2003	SB08-01-1.5-3.5 06/10/2003	SB09-06-30-32 06/11/2003	56/11/2003 06/11/2003	SB11-06-32-34 06/12/2003
	,4,5-Trichlorophenol	0.1	mg/Kg		1.1 U	1 U	1.1 U	1.1 U	0.92 U	U 66:0	10	1.1 U
	4,6-Trichlorophenol		mg/Kg	4 .	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
(1)         (2)         (3) <td>4-Dicitior oprieriol 4-Dimethylphenol</td> <td>4</td> <td>mg/kg</td> <td>0.4.0</td> <td>0.43.0</td> <td>0.41 U</td> <td>0.43 U</td> <td>0.43 U</td> <td>0.37 U</td> <td>0.39 U</td> <td>0.4 U</td> <td>0.42 U</td>	4-Dicitior oprieriol 4-Dimethylphenol	4	mg/kg	0.4.0	0.43.0	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
	4-Dinitrophenol	0.2	mg/Kg	1 UV	1.1 UV	1 UV	1.1 UV	1.1 UV	0.92 UV	VU 99.0	100	1.1 UV
	4-Dinitrotoluene	•	mg/Kg	0.4 U	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
	6-dinitrotoluene	1.0	mg/Kg	0.4 U	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
	Chloronaphthalene	•	mg/Kg	0.4 U	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
	Chlorophenol	0.8	mg/Kg	0.4 U	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
	Methylnaphthalene	36.4	mg/Kg	0.4 U	0.43 U	0.41 U	4	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
	-Metnylphenol (o-cresol)	1.0	mg/Kg	0.4 U	0.43 U	0.41 U	A.	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
	Nitronhenol	0.33	mg/kg		1.1 U	10	. 2	1.1 U	0.92 U	0.99 U	10	1.1 U
	3'-Dichlorohenzidine	cc	By/Sun	0.4.0	0.43.0	0.41.0	1 1	0.43.0	0.37 U	0.39 U	0.4.0	0.42.0
	Nitroaniline	0.5	ma/kn	0.4.0	0.45.0	0.41.0	1	0.43 0	0.37 U	0.39 0	0.4.0	0.42 U
1.2.         mmode mode mode (1.2.         0.41         0.641 <td>6-Dinitro-2-methylphenol</td> <td>2</td> <td>ma/Ka</td> <td>111</td> <td>1110</td> <td>VIII</td> <td></td> <td>1111</td> <td>0.32.0</td> <td>0.999.0 1100 0</td> <td>110</td> <td>1110</td>	6-Dinitro-2-methylphenol	2	ma/Ka	111	1110	VIII		1111	0.32.0	0.999.0 1100 0	110	1110
	Bromophenyl phenyl ether	•	mg/Kg	0.4 U	0.43 U	0.41 U		0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Memory (mode)         0.2         maging (mode)         0.10         0.010 <td>Chloro-3-methylphenol</td> <td>0.24</td> <td>mg/Kg</td> <td>0.4 U</td> <td>0.43 U</td> <td>0.41 U</td> <td>A</td> <td>0.43 U</td> <td>0.37 U</td> <td>0.39 U</td> <td>0.4 U</td> <td>0.42 U</td>	Chloro-3-methylphenol	0.24	mg/Kg	0.4 U	0.43 U	0.41 U	A	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
W phony relate         ·         mg/g         1.4         0.41         0.41         1.4         1.4         0.30 <th0.30< th=""></th0.30<>	Chloroaniline	0.22	mg/Kg	0.4 U	0.43 U	0.41 U	4	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
1         1	Chlorophenyl phenyl ether		mg/Kg	0.4 U	0.43 U	0.41 U	4	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
	Nitroaniline	•	mg/Kg	1U	1.1 U	10	<u> </u>	1.1 U %	0.92 U	0.99 U	10	1.1 U
Image: constraint of the major of the constraint of the const	Nitrophenol	0.1	mg/Kg	10	1.1.U' .	10		1.1 UV	0.92 UV	VU 66:0	1 UV	1.1 UV
memory         memory<	cenaphthylene	0C	5y/Sm	0.4.0	0.43.0	0.41 U	4 4	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
me         me<	certapunity terte	<del>,</del> ,,	- Bulku	0.4.0	0.43.0	0.41.0	2 4	0.43.0	0.37 U	0.39 0	0.4.0	0.42.0
$h_{1}$ $h_{1}$ $h_{2}$ $h_{2}$ $h_{1}$ $h_{2}$ <	thracene	50	ma/Ka	0.4 U	0.48.U	0.41U	1 4	0.43.0	0.37 1	0.3910	0.4.0	0.4211
Bhyle         3:1         mg/d         3:1	razine		mg/Kg	0.4 U	0.43.U	0.41 U	4	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Image: constraint constrant constraint constraint constraint constraint cons	enzaldehyde		mg/Kg	0.4 U	0.43 U	0.41 U	4	0.43 U *	0.37 U	0.39 U	0.4 U	0.42 U
(Motorither Index         Under         mayor mayor         0.01         0.03	enzo(a)anthracene	0.224	mg/Kg	0.4 U	0.43 U	0.41 U	4	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Appendixation         Bit         maged         Out	inzo(a)pyrene inzo(h)filioranthene	0.061	mg/Kg	0.4.0	0.43 U	0.41 U	4 4	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Ministratione         0.24         mg/d         0.11         0.31         0.41         0.32 <th0.32< th="">         0.32         0.32</th0.32<>	nzo(a,h.i)pervlene	20	ma/Ka	0.4.0	0.43.0	0.4111	1 4	0.43.0	0.3711	0.39.0	0.4.0	0.42.0
(16)horsy)         0.41         0.41         0.41         0.43         0.44	enzo(k)fluoranthene	0.224	mg/Kg	0.4 U	0.43 U	0.41 U	A	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Arrow         Construction         Construction <thconstruction< th="">         Construction</thconstruction<>	phenyl (diphenyl)		mg/Kg	0.4 U	0.43 U	0.41 U		0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
	s(2-Chloroethoxy) methane		mg/Kg	0.4 U	0.43 U	0.41 U		0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Total state $3.3$	s(z-Ciriol Oetriyi) etrier s(2-Chloroisonronvi) ether	•	Bu/ku	0.4.0V	0.43.0	0.41 U	4. 1	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
$m_{\rm R}$ <	sterolioroloopiopy) eulei inrolactam		Bu/Run	0.4.0	0.43.0	0.41 0	1 4	0.43 0	0.37 U	0.39.0	0.4.0	U.42 U
e         0.4         mg/6         0.41         0.431         0.41         0.331 <td>rbazole</td> <td></td> <td>mg/Kg</td> <td>0.4 U</td> <td>0.43 U</td> <td>4</td> <td>0.43 U</td> <td>0.43 U</td> <td>0.37 U</td> <td>0.39 U</td> <td>0.4 U</td> <td>0.42 U</td>	rbazole		mg/Kg	0.4 U	0.43 U	4	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
M & P         0.3         mg/kg         0.41         0.431         0.431         0.331         0.	Irysene	0.4	mg/Kg	0.4 U	0.43 U	41	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Mithilate $0.11$ $mg/kg$ $0.046J$ $0.43U$ $0.43U$ $0.030J$ $0.03J$	esols, M & P	0.9	mg/Kg	0.4 U	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Jandimatene0.014mgKg0.010.430.430.430.430.430.430.330Minatiracene60.014mgKg0.410.430.410.430.430.430.330Minatire7.1mgKg0.410.430.410.430.410.430.430.330Minatire7.1mgKg0.410.430.410.430.410.430.430.330Minatire50mgKg0.410.430.410.430.410.430.430.330Minatire50mgKg0.410.430.410.430.410.430.430.330Minatire50mgKg0.410.430.410.430.410.430.430.330Montarine0.410.430.410.430.410.430.430.430.330Montarine0.410.430.410.430.410.430.430.430.330Montarine0.410.430.410.430.410.430.410.430.330Montarine0.40.410.430.410.430.410.430.330Montarine0.40.410.410.410.430.410.430.330Montarine0.40.40.410.410.410.430.410.330<	-n-butyl phthalate	8.1	mg/Kg	0.046 J	0.43 U	0.41 U	0.059 J	0.43 U	0.039 J	0.39 U	0.4 U	0.058 J
Mutation $7.2$ mgkg mgkg $0.44$ $0.443$ $0.443$ $0.443$ $0.37$ $0.394$ <td>benz(a,h)anthracene</td> <td>0.014</td> <td>mg/Kg</td> <td>0.4 U</td> <td>0.43 U</td> <td>0.41 U</td> <td>0.43 U</td> <td>0.43 U</td> <td>0.37 U</td> <td>0.39 U</td> <td>0.4 U</td> <td>0.42 U</td>	benz(a,h)anthracene	0.014	mg/Kg	0.4 U	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
There is50mg/kg mg/kg0.410.4300.4100.4300.4400.4300.4400.3700.390e e for50mg/kg mg/kg0.410.4300.4100.4300.4300.3710.3900.390e for50mg/kg mg/kg0.410.4300.4100.4300.4100.4300.3710.3900.390e rooverlopentatione.mg/kg mg/kg0.410.4300.4100.4300.4300.3710.3900.390e rooverlopentatione.mg/kg mg/kg0.410.4300.4100.4300.4300.3710.3900.390e rooverlopentatione.mg/kg rooverlopentatione0.4100.4100.4100.4300.4300.3710.3900.390e rooverlopentatione.mg/kg rooverlopentatione0.4100.4100.4100.4300.3710.3900.390e rooverlopentatione.mg/kg rooverlopentatione0.4100.4100.4100.4300.3710.3900.390f rooverlopentatione.mg/kg rooverlopentatione0.4100.4100.4100.4300.3710.3900.390f rooverlopentationemg/kg rooverlopentatione0.4100.4300.4300.3710.3900.390f rooverlopentationemg/kg rooverlopentatione0.4100.4300.4300.3710.390 <td>benzoruran ethvl nhthalate</td> <td>7.1</td> <td>mg/kg</td> <td>0.4.0</td> <td>0.43 U</td> <td>0.41 U</td> <td>0.43 U</td> <td>0.43 U</td> <td>0.37 U</td> <td>0.39 U</td> <td>0.4 U</td> <td>0.42 U</td>	benzoruran ethvl nhthalate	7.1	mg/kg	0.4.0	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
e50mgKg0.410.430.410.430.440.430.440.440.440.440.440.440.440.440.440.440.440.440.430.440.440.440.430.440.440.440.440.440.440.440.440.440.440.440.440.440.440.440.440.440.440.370.330.340.340.340.340.330.33 <td>uoranthene</td> <td>20</td> <td>ma/Ka</td> <td>0.4 U</td> <td>0.43 U</td> <td>0410</td> <td>0.43.11</td> <td>0.43.0</td> <td>11 28 0</td> <td>0.39.0</td> <td>0.4.0</td> <td>0.42.0</td>	uoranthene	20	ma/Ka	0.4 U	0.43 U	0410	0.43.11	0.43.0	11 28 0	0.39.0	0.4.0	0.42.0
orobenizene         0.41         mg/kg         0.41         mg/kg         0.41         0.43         0.43         0.43         0.43         0.37         0         0.39         0<	uorene	50	mg/Kg	0.4 U	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U		0.42 U
Octobalizatione         •         mg/kg         0.41U         0.43U         0.43U         0.33UV         0.33UV<	xachlorobenzene	0.41	mg/Kg	0.4 U	0.43 U	0.41 U	N. 1	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
orocyclopentatiene         •         mg/kg         0.4 UV         0.43 UV         0.43 UV         0.43 UV         0.33 UV	exachlorobutadiene	•	mg/Kg	0.4 U	0.43 U	0.41 U	4	0.43 UV	0.37 UV	0.39 UV	0.4 UV	0.42 UV
A contained (1.2.5.cd)pyrene3.2mg/kg mg/kg0.4400.4300.4400.4300.4300.3700.330A.2.5.cd)pyrene3.2mg/kg mg/kg0.4410.4310.4310.4310.3710.3310.330A.3.5.cd/pyrene3.2mg/kg 	xacniorocyclopentagiene	•	mg/Kg	0.4 UV	0.43 UV	0.41 UV	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
(1,1) $(1,1)$ <	deno(1.2.3-c.d)ovrene	3.2	ma/Ka	0.4.U 0.4.I	0.43.0	0.41.0	4. 1	0.43.0	0.37 U	0.39.0	0.4.0	0.42 U
odi-n-prop/lamine-mg/Kg0.4 U0.43 U0.41 U0.43 U0.43 U0.37 U0.33 U0odiphenylamine-mg/Kg0.4 U0.43 U0.41 U0.43 U0.43 U0.37 U0.39 U0odiphenylamine-mg/Kg0.4 U0.43 U0.41 U0.43 U0.43 U0.37 U0.39 U0odiphenylamine-mg/Kg0.4 U0.41 U0.41 U0.41 U0.43 U0.43 U0.37 U0.39 U0alere13mg/Kg0.4 U0.41 U0.41 U0.41 U0.43 U0.43 U0.37 U0.39 U0zene0.2mg/Kg0.4 U0.43 U0.41 U0.43 U0.43 U0.37 U0.39 U0zene0.2mg/Kg0.4 U0.43 U0.41 U0.43 U0.43 U0.37 U0.39 U0zene0.3mg/Kg0.4 U0.43 U0.41 U0.43 U0.43 U0.37 U0.39 U0zene0.3mg/Kg0.4 U0.43 U0.41 U0.43 U0.43 U0.37 U0.39 U0zene0.30.41 U0.41 U0.41 U0.41 U0.43 U0.43 U0.37 U0.39 U0zene0.3mg/Kg0.4 U0.41 U0.41 U0.43 U0.43 U0.37 U0.39 U0zene0.3mg/Kg0.4 U0.41 U0.41 U0.41 U0.43 U0.43 U0.37 U0.39 U0zene	ophorone	4.4	mg/Ka	0.4 U	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4.0	0.42 U
odiphenylamine         -         mg/kg         0.4.0         0.4.3.0         0.4.3.0         0.37.0         0.39.0         0           ielne         13         mg/kg         0.4.0         0.4.3.0         0.4.3.0         0.37.0         0.39.0         0.39.0         0           ielne         13         mg/kg         0.4.0         0.4.3.0         0.4.3.0         0.4.3.0         0.37.0         0.39.0         0           rate         0.2         mg/kg         0.4.0         0.4.3.0         0.4.3.0         0.4.3.0         0.4.3.0         0.37.0         0.39.0         0           rate         0.2         mg/kg         0.4.0         0.4.3.0         0.4.10         0.4.3.0         0.4.3.0         0.37.0         0.39.0         0           rate         0.2         mg/kg         0.4.0         0.4.3.0         0.4.3.0         0.4.3.0         0.37.0         0.39.0         0           hene         0.0         mg/kg         0.4.0         0.4.3.0         0.4.3.0         0.4.3.0         0.37.0         0.39.0         0           hene         0.0         mg/kg         0.4.1         0.4.3.0         0.4.3.0         0.37.0         0.39.0         0.39.0           hene	Nitrosodi-n-propylamine	•	mg/Kg	0.4 U	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Table         0.43 U         0.44 U         0.44 U         0.44 U         0.43 U         0.44 U </td <td>Nitrosodiphenylamine</td> <td></td> <td>mg/Kg</td> <td>0.4 U</td> <td>0.43 U</td> <td>0.41 U</td> <td>1</td> <td>0.43 U</td> <td>0.37 U</td> <td>0.39 U</td> <td>0.4 U</td> <td>0.42 U</td>	Nitrosodiphenylamine		mg/Kg	0.4 U	0.43 U	0.41 U	1	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Incophend         1.0         mgKg         1.0         1.1 U         1.1 U         0.92 UV         0.99 UV <td>trobenzene</td> <td>0.2</td> <td>ma/Ka</td> <td>0.4.0</td> <td>0.43 U</td> <td>0.41.0</td> <td>0.43.0</td> <td>0.43.0</td> <td>0.3711</td> <td>0.3910</td> <td>0.4 U</td> <td>0.42 U</td>	trobenzene	0.2	ma/Ka	0.4.0	0.43 U	0.41.0	0.43.0	0.43.0	0.3711	0.3910	0.4 U	0.42 U
threne         50.         mgKg         0.4 U         0.3 U         0	entachlorophenol	1.0	mg/Kg	10	1.1 U	10	1.1 UV	1.1 UV	0.92 UV	VU 66.0	100	1.1 UV
0.03         mg/Kg         0.4U         0.43U         0.41U         0.43U         0.43U         0.37U         0.37U         0.39U         0           Total SVOCs         50°         mg/Kg         0.4U         0.43U         0.41U         0.43U         0.43U         0.37U         0.39U         0.39U<	nenanthrene	50 .	mg/Kg	0.4 U	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U	0.39 U	0.4 U	0.42 U
Total SVOCs         500°         mg/Kg         0.046.J         BDL         BDL         BDL         0.059.J         BDL         BDL         DDL	ienol	0.03	mg/Kg mg/Kg	0.4 U 0.4 II	0.43 U	0.41 U	0.43 U	0.43 U	0.37 U 0.37 II	0.39 U	0.4 U	0.42 U
		500	ma/Ka	0.046.1			0 DED 1		1 080 0			- 450 0
	1 0141 34 003	nnc	6u/fill	0.040	BUL	BUL	C BCU.U	BUL	0.089 J	BUL	BUL	L 80.0

DUP = Field Duplicate Sample; J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit; V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit

Page 1 of 1

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DUP = Field Duplicate Sample; J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit; V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit

	and the second	Location ID			SB03			and the second		SB04	04			SB05	05
		Field ID	SB03-03-8-10	SB03-04-14-16	SB03-05-18-20	SB03-06-24-26	SB03-07-28-30	SB04-01-2-4	SB04-02-8-10	SB04-03-12-14	SB04-04-16-18	SB04-05-20-22	SB04-06-24-26	SB05-01-2-4	SB05-02-6-8
Analyte	RSCO	Sample Date	06/05/2003	06/05/2003	06/05/2003	06/05/2003	06/05/2003	06/06/2003	06/06/2003	06/06/2003	06/06/2003	06/06/2003	06/06/2003	06/09/2003	06/09/2003
Acenaphthene	50	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Acenaphthylene	41	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Anthracene	50	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Benzo(a)anthracene	0.224	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Benzo(a)pyrene	0.061	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Benzo(b)fluoranthene	1.1	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Benzo(g,h,i)perylene	50	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Benzo(k)fluoranthene	0.224	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Chrysene	0.4	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Dibenz(a,h)anthracene	0.014	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Fluoranthene	50	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Fluorene	50	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.046 J	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Indeno(1,2,3-c,d)pyrene	3.2	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Naphthalene	13	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Phenanthrene	50	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U
Pyrene	50	mg/Kg	0.41 U	0.38 U	0.39 U	0.4 U	0.4 U	0.45 U	0.4 U	0.4 U	0.38 U	0.4 U	0.38 U	0.38 U	0.41 U

		Location ID			SB01	01					SB02	02			SB03
		Field ID	SB01-01-4-6	SB01-02-8-10	SB01-03-14-16	SB01-04-20-22	SB01-05-24-26	SB01-06-28-30	SB02-01-4-6	SB02-02-8-10	SB02-03-12-14	SB02-04-16-18	SB02-05-20-22	SB02-06-26-28	SB03-01-2-4
Analyte	RSCO	Sample Date	06/04/2003	06/04/2003	06/04/2003	06/04/2003	06/04/2003	06/04/2003	06/05/2003	06/05/2003	06/05/2003	06/05/2003	06/05/2003	06/05/2003	06/05/2003
		Units				the second second second second									
Acenaphthene	50	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Acenaphthylene	41	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Anthracene	50	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Benzo(a)anthracene	0.224	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Benzo(a)pyrene	0.061	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Benzo(b)fluoranthene	1.1	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Benzo(g,h,i)perylene	50	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Benzo(k)fluoranthene	0.224	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Chrysene	0.4	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Dibenz(a,h)anthracene	0.014	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Fluoranthene	50	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Fluorene	50	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Indeno(1,2,3-c,d)pyrene	3.2	mg/Kg	0.4 U	0.44 U	0.4 U	0,39 JU	0.39 U	0.38 U	0.4 U	0.42 U	0.39 U	0.38 U	0.42 U	0.43 U	0.4 U
Naphthalene	13	mg/Kg	0.4 U	0.44 U	0.4 U	U 65'0	0.39 U	0.38 U	0.4 U	0.42 U	0:39 U	0.38 U	0.42 U	0.43 U	0.4 U
Phenanthrene	50	mg/Kg	0.4 U	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.30 U	0.38 U	0.42 U	0.43 U	0.4 U
Pyrene	50	mg/Kg	0.041 J	0.44 U	0.4 U	0.39 U	0.39 U	0.38 U	0.4 U	0.42 U	0.30 U	0.38 U	0.42 U	0.43 U	0.4 U

Table 5-7 Subsurface Soils - PAHs

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		Location ID	and the second se	S	SB07		S	SB08			SB09	60		
		Field ID	SB07-03-14-16	SB07-04-18-20	SB07-05-24-26	SB07-06-28-30	SB08-02-5.5-7.5	SB08-02-5.5-7.5 B08-02-5.5-7.5-DUI	SB09-01-0-2	SB09-02-6-8	SB09-03-12-14	SB09-04-16-18	SB09-05-22-24	SB09-07-32-34
Analyte	RSCO	Sample Date	06/10/2003	06/10/2003	06/10/2003	06/10/2003	06/10/2003	06/10/2003	06/11/2003	06/11/2003	06/11/2003	06/11/2001	06/11/2003	06/11/2003
		Units		And the state of the state of the state of the				and the second se						
Acenaphthene	50	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.36 U	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Acenaphthylene	41	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	L 80.0	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Anthracene	50	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.055 J	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Benzo(a)anthracene	0.224	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.25 J	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Benzo(a)pyrene	0.061	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.3 J	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Benzo(b)fluoranthene	1.1	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.3 J	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Benzo(g,h,i)perylene	50	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.24 J	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Benzo(k)fluoranthene	0.224	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.25 J	0.39 U	0.39 UV	0.39 UV	0.38 UV	0.45 UV
Chrysene	0.4	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.27 J	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Dibenz(a,h)anthracene	0.014	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.058 J	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Fluoranthene	50	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.41	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Fluorene	50	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.36 U	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Indeno(1,2,3-c,d)pyrene	3.2	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.21 J	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Naphthalene	13	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.36 U	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Phenanthrene	50	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.15 J	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U
Pyrene	50	mg/Kg	0.39 U	0.39 U	0.37 U	0.41 U	0.4 U	0.39 U	0.35 J	0.39 U	0.39 U	0.39 U	0.38 U	0.45 U

		Location ID			SB05					SB06	06			SE	SB07
		Field ID	SB05-03-10-12	SB05-04-14-16	SB05-05-20-22	SB05-05-20-22-DUF	F SB05-06-26-28	SB06-01-0-2	SB06-02-6-8	SB06-03-10-12	SB06-04-16-18	SB06-05-22-24	SB06-05-28-30	SB07-01-4-6	SB07-02-10-12
Analyte	RSCO	Sample Date	06/09/2003	06/09/2003	06/09/2003	06/09/2003	06/09/2003	06/09/2003	06/09/2003	06/09/2003	06/09/2003	06/09/2003	06/09/2003	06/10/2003	06/10/2003
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Acenaphthene	50	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U
Acenaphthylene	41	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U
Anthracene	50	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U
Benzo(a)anthracene	0.224	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U
Benzo(a)pyrene	0.061	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 UV	0.39 U
Benzo(b)fluoranthene	1.1	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 UV	0.39 U
Benzo(g,h,i)perylene	50	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 UV	0.39 U
Benzo(k)fluoranthene	0.224	mg/Kg	0.39 U	0.39 UV	0.39 UV	0.39 UV	0.44 UV	0.47 UV	0.41 UV	0.4 UV	0.39 UV	0.4 UV	0.41 UV	0.41 UV	0.39 U
Chrysene	0.4	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U
Dibenz(a,h)anthracene	0.014	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 UV	0.39 U
Fluoranthene	50	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U
Fluorene	50	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U
Indeno(1,2,3-c,d)pyrene	3.2	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U
Naphthalene	13	mg/Kg	0.39 U	0:39 U	0.39 U	0.39 U	0.44 U	0.47 U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U
Phenanthrene	50	mg/Kg	0.39 U	0,39 U	0.39 U	U 85 0	0.44 U	0.47 U	0.41 U	0:4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U
Pyrene	50	mg/Kg	0.39 U	0.39 U	0.39 U	0.39 U	0.44 U	0.47.U	0.41 U	0.4 U	0.39 U	0.4 U	0.41 U	0:41 U	0.39 U

# Table 5-7 Subsurface Soils - PAHs

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Table 5-8 Subsurface Soils - TAL Metals

RSCO	Location ID Field ID Sample Date Units	SB03 SB03-02-6-8 06/05/2003	SB04 SB04-07-26-28 06/06/2003	SB04 SB04-07-26-28-DUP 06/06/2003	SB05 SB05-07-28-30 06/09/2003	SB07-07-32-34 06/10/2003	SB08 SB08-01-1.5-3.5 06/10/2003	SB09 SB09-06-30-32 06/11/2003	SB10-01-2-4 06/11/2003	SB11 SB11-06-32-34 06/12/2003
SB	mg/Kg	2,570	9,730	7,550	6,120	13,000	8,500	2,600	8,110	4,600
SB	mg/Kg	14.8 U	15.8 U	14.9 U	15.3 UN	15.5 UN	13.1 UN	14.5 UN	14.2 UN	15.4 UV
7.5 or SB	mg/Kg	2.5 U	1.6 J	2.1 J	1.8 J	2.6 J	1.3 J	2.6	4.9	1.2 J
300 or SB	mg/Kg	21.8 J	109	89.1	70.6	164	32.9 J	22.8 J	84.6	53.1
0.16 or SB	mg/Kg	0.17 J	0.52 J	0.41 J	0.33 J	0.65 J	0.38 J	0.19 J	0.45 J	0.25 J
10	mg/Kg	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.1 U	1.2 U	1.2 U	1.3 U
SB	mg/Kg	1,340	21,400	20,000	16,400	21,700	1,950	1,680	4,690	6,910
50	mg/Kg	3.7	13.9	11	9.8	20.9	7.2	4.3	6.8	7.2
30 or SB	mg/Kg	2.8 J	10.5 J	8.4 J	7.8 J	12.1 J	4.9 J	4.9 J	4.7 J	6 J
25 or SB	mg/Kg	3.2 J	16.8	14.3	14.2	23.2	5.7	13.3	6.8	12.8
2,000 or SB	mg/Kg	4,710	22,000	17,900	14,500	30,800	13,600	6,210	12,200	12,600
400*	mg/Kg	2.4	6.1	7.1	3.7 N	8.5 N	2.2 N	5.2 N	11.3 N	4.2 V
SB	mg/Kg	1110 J	8,450	7,460	6,190	9,830	1,340	1,790	1,420	4,060
SB	mg/Kg	22.9	417	380	280	529	201	44	254	174
0.1	mg/Kg	0.12 U	0.13 U	0.13 U	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U	0.13 U
13 or SB	mg/Kg	3.Ż J	20.7	16.4	14.1	25.6	6.2 J	9.1 J	7.9 J	11.2
SB	mg/Kg	139 J	1,490	1,130 J	879 JE	4,140 E	309 JE	550 JE	318 JE	1,320 V
2 or SB	mg/Kg	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.1 U	1.2 U	1.2 U	1.3 U
SB	mg/Kg	2.5 UV	2.6 UN	2.5 UN	2.5 UN	2.6 UN	2.2 UN	2.4 UN	2.4 UN	2.6 UV
SB	mg/Kg	101 J	117 J	249 J	125 J	2,400	92.4 J	323 J	1,180 U	892 J
SB	mg/Kg	2.5 U	2.6 U	2.5 U	2.5 U	2.6 U	2.2 U	2.4 U	2.4 U	2.6 U
150 or SB	mg/Kg	13.4	23.8	16.9	15.8	27.5	22.4	8 J	17.8	12.8
20 or SB	mg/Kg	25	53.4	44.9	43.7 E	62.4 E	31 E	37.9 E	38 E	34.5 V

• e) D = Diluted sample; U = Not detected at laboratory reporting limit; V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit 御知) established a residential screening level of 400 ppm

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Analyte	Eastern
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Aluminum	00055
Antimony	nia
Arsenic	3-12
Barium	15-600 +
Beryllium	0-1.75
Cadmium	0.1 - 1
Calcium	130-35,000
Chromium, total	1.5 - 40
Cobalt	2.5-60
Copper	1 - 50
Iron	2,000-550.00
Lead	400*
Magnesium	100 - 5,000
Manganese	50 - 5,000
Mercury	0.001 - 0.2
Nickel	0.5 - 25
Potassium	8,500-43,000
Selenium	0.1 - 3.9-
Silver	n/a
Sodium	6,000-8,000
Thallium	n/a
Vanadium	1 - 300
Zinc	18507
DUP = Field Duplicate Sample; J = Estimated vai * - USEPA's Interim Lead Hazard Guidance (1)	= Estimated val

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SB - Site Background n/a - Not Available

Table 5-8a Subsurface Soils - Cyanide

		Location ID	and the second second	defines of the minimum training	SE	SB01			and the second	and the second se	SB02	12	A state in the second se	and the second se
Analyte	RSCO	Field ID Sample Date Units	SB01-01-4-6 6/4/2003	SB01-02-8-10 6/4/2003	SB01-03-14-16 6/4/2003	SB01-04-20-22 6/4/2003	SB01-05-24-26 6/4/2003	SB01-06-28-30 6/4/2003	SB02-01-4-6 6/5/2003	SB02-02-8-10 6/5/2003	SB02-03-12-14 6/5/2003	SB02-04-16-18 6/5/2003	SB02-05-20-22 6/5/2003	SB02-06-26-28 6/5/2003
Cyanide	n/a	mg/kg	0.612 U	0.680 U	0.602 U	0.604 U	0.603 U	0.579 U	0.617 U	0.636 U	0.600 U	0.575 U	0.644 U	0.662 U
Amenable Cyanide	n/a	mg/kg	0.61 U	0.68 U	0.60 U	0.60 U	0.60 U	0.58 U	0.62 U	0.64 U	0.60 U	0.57 U	0.64 U	0.66 U

		Location ID		and the second se	SE	SB03		and the second se		and the second	SB04	14	and the second second second second	and the second second second
Analyte	RSCO	Field ID Sample Date Units	SB03-01-2-4 6/5/2003	SB03-03-8-10 6/5/2003	SB03-04-14-16 6/5/2003	SB03-05-18-20 6/5/2003	SB03-06-24-26 6/5/2003	SB03-07-28-30 6/5/2003	SB04-01-2-4 6/6/2003	SB04-02-8-10 6/6/2003	SB04-03-12-14 6/6/2003	SB04-04-16-18 6/6/2003	SB04-05-20-22 6/6/2003	SB04-06-26-28 6/6/2003
Cyanide	n/a	mg/kg	0.605 U	0.627 U	0.587 U	0.605 U	0.608 U	0.604 U	0.688 U	0.608 U	0.604 U	0.581 U	0.616 U	0.577 U
Amenable Cyanide	n/a	mg/kg	0.60 U	0.63 U	0.59 U	0.60 U	0.61 U	0.60 U	0.69 U	0.61 U	0.60 U	0.58 U	0.62 U	0.58 U

		Location ID				SB05				and the second se		SB06	6	and the second	and a second second second
Analyte	RSCO	Field ID Sample Date Units	SB05-01-2-4 6/9/2003	SB05-02-6-8 6/9/2003	SB05-03-10-12 6/9/2003	SB05-04-14-16 6/9/2003	SB05-05-20-22 6/9/2003	SB05-05-20-22 SB05-05-20-22FD 6/9/2003	SB05-06-26-28 6/9/2003	SB06-01-0-2 6/9/2003	SB06-02-6-8 6/9/2003	SB06-03-10-12 6/9/2003	SB06-04-16-18 6/9/2003	SB06-05-22-24 SB06-06-28-30 6/9/2003 6/9/2003	SB06-06-28-30 6/9/2003
Cyanide	n/a	mg/kg.	0.587 U	0.631 U	0.592 U	0.599 U	0.600 U	0.600 U.	0.679 U	0.711 U	0.631 U	0.600 U	0.590 U	0.609.0	0.622 U
Amenable Cyanide	n/a	mg/kg	0.59 U	0.63 U	0.59 U	0.60 U	0.60 U	0.60 U	0.68 U	0.71 U	0.63 U	0.60 U	0.59 U	0.61 U	0.62 U

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		Location ID		and the strength of the strength of the	SB	SB07		and the second	SB	SB08
Analyte	RSCO	Field ID Sample Date Units	SB07-01-4-6 6/10/2003	SB07-02-10-12 6/10/2003	SB07-02-10-12         SB07-03-14-16         SB07-04-18-20         SB07-05-24-23           6/10/2003         6/10/2003         6/10/2003         6/10/2003	SB07-04-18-20 6/10/2003	SB07-05-24-25 6/10/2003	SB05-07-28-30 6/10/2003	SB08-02-5.5-7.5 6/10/2003	SB08-02-5.5-7.5 SB08-02-5.5-7.5FD 6/10/2003 6/10/2003
Cyanide	n/a	mg/kg	0.623 U	0.590 U	0.598 U	0.600 U	0.569 U	0.616 U	0.611 U	0.602 U
Amenable Cyanide	n/a	mg/kg	0.62 U	0.59 U	0.60 U	0.60 U	0.57 U	0.62 U	0.61 U	0.60 U

		Location ID	E SHO HAN		SE	SB09					SB10	0	
		Field ID	SB09-01-0-2	SB09-02-6-8	SB09-03-12-14	SB09-04-16-18	SB09-05-22-24	SB09-07-32-34	SB10-02-4-6	SB10-03-10-12	SB10-04-14-16	SB10-05-22-24	SB10-0
Analyte	RSCO	Sample Date	6/11/2003	6/11/2003	6/11/2003	6/11/2003	6/11/2003	6/11/2003	6/11/2003	6/11/2003	6/11/2003	6/11/2003	6/11/
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Cyanide	n/a	mg/kg	0.550 U	0.591 U	0.599 U	0.599 U	0.577 U	0.690 U	0.614 U	0.632 U	0.583 U	0.595 U	0.57
Amenable Cyanide	n/a	mg/kg	0.55 U	0.59 U	0.60 U	0.60 U	0.58 U	0.69 U	0.61 U	0.63 U	0.58 U	0.59 U	0.58

	6	Location ID	A CHO PAN		SE	SB09					SB10	10		
Analyte	RSCO	Field ID Sample Date Units	SB09-01-0-2 6/11/2003	SB09-02-6-8 6/11/2003	SB09-03-12-14 6/11/2003	SB09-04-16-18 SB09-05-22-24 6/11/2003 6/11/2003	SB09-05-22-24 6/11/2003	SB09-07-32-34 6/11/2003	SB10-02-4-6 6/11/2003	SB10-03-10-12 6/11/2003	SB10-04-14-16 6/11/2003	SB10-05-22-24 6/11/2003	SB10-06-28-30 6/11/2003	SB10-07-30-32 6/12/2003
Cyanide	n/a	mg/kg	0.550 U	0.591 U	0.599 U	0.599 U	0.577 U	0.690 U	0.614 U	0.632 U	0.583 U	0.595 U	0.577 U	0/687 U
Amenable Cyanide	n/a	mg/kg	0.55 U	0.59 U	0.60 U	0.60 U	0.58 U	0.69 U	0.61 U	0.63 U	0.58 U	0.59 U	0.58 U	0.69 U

n/a - Not Available	<ul> <li>U - Not detected at Laboratory Reporting Limit</li> <li>J - Estimated value</li> </ul>	Analysis by Method SW 9012
	SB11-07-38-40 SB11-07-38-40FD 6/12/2003 6/12/2003	0.727 U 0.73 U
	SB11-07-38-40 6/12/2003	0.703 U 0.70 U
	SB11-05-22-24 6/12/2003	0.594 U 0.59 U
SB11	SB11-04-18-20 6/12/2003	0.587 U 0.59 U
and the second se	SB11-03-14-16 6/12/2003	0.587 U 0.59 U
And a state of the	SB11-02-6-8 6/12/2003	0.593 U 0.59 U
Carlina a la la la	SB11-01-4-6 6/12/2003	0.612 U 0.61 U

		Location ID	No. Carl
		Field ID	SB.
Analyte	RSCO	Sample Date	./9
	law and a second	Units	1
Cyanide	n/a	mg/kg	0
Amenable Cyanide	n/a	mg/kg	0

Table 5-8b Subsurface Soils- Total Organic Carbon

1

		Sample ID	SB01-02-8-10	SB02-02-8-10	SB03-03-8-10	SB04-01-2-4	SB05-01-2-4	SB06-05-28-30
Analyte	RSCO	Sample Date	6/4/2003	6/5/2003	6/5/2003	6/6/2003	6/9/2003	6/9/2003
		Units						
Total Organic Carbon	,	ma/ka	5 100	3 600	4 100	3 300	5 000	7 400

		-	
	-	5	
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			,
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1

Analyte	RSCO	Sample ID Sample Date Units	<b>SB07-01-4-6</b> 6/10/2003	SB07-01-4-6         SB08-01-1.5-3.5         SB09-06-30-32           6/10/2003         6/10/2003         6/13/2003	<b>SB09-06-30-32</b> 6/13/2003	<b>SB10-01-2-4</b> 6/11/2003	<b>SB11-02-6-8</b> 6/12/2003
Total Organic Carbon	,	mg/kg	3,300	4,600	3,100	5,700	3,500

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#### Table 5-9 **Geotechnical Parameters**

Sample ID Sample Depth (Feet) Sample Date	SB-10 32-34 6/11/03	SB-11 42-44 6/12/03
Porosity	0.34	0.48
Permeability (cm/sec)	1.80E-05	4.60E-08
Bulk Density	106.42	83.79
Grain Size	*	**
USCS Classification	SC	SC
Atterberg Limits	12	11
% Moisture	19.47	35.34
Specific Gravity	2.59	2.56

\* 0.6 % Gravel, 77% Sand, 22.4 % Fines
\*\* 5.4 % Gravel, 86.1% Sand, 8.5% Fines

the state of the second se											
Analyte	NYSDEC Std or GV	Loc Id Field Id Sample Date Units	MW01 MW01-01 06/23/2003	MW01 MW01-02 09/03/2003	MW02 MW02-01 06/23/2003	MW02 MW02-02 09/03/2003	MW02-DUP MW02-02-DUP 09/03/2003	MW03 MW03-01 06/23/2003	MW03-DUP MW03-01-DUP 06/23/2003	MW04 MW04-01 06/23/2003	MW04 MW04-02 09/03/2003
1,1,1-Trichloroethane	ŝ	ng/L	10 U	10 U	10 U	10 U	10 U				
1,1,2,2-Tetrachloroethane	5	ug/L	10 U	10 U	10 N	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	-	ng/L	10 U	10 U	10 U	10 N	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichlorotrifluoroethane	ŝ	ng/L	10 U	10 U	10 U	10 U	10 U				
1,1-Dichloroethane	ŝ	ng/L	10 U	10 U	10 U	10 Ú	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	ι Ω	ng/L	10 U	10 U	10 U	10 U	10 U				
1,2,4-Trichlorobenzene	5	ng/L	10 U	10 U	10 0	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane		ug/L	10 U	10 U	10 U	10 U	10 U				
1,2-UIDromoetnane (etnylene UIDromide)		ng/L	10 U	10 U	10 0	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	en []	ng/L	10 U	10 U	10 0	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroetnane	9.0	ug/L	10 U	10 U	10 0	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane		ug/L	0.01	0.01	0	10 N	10 U	10 U	10 0	10 U	10 U
1,3-UICHIOFOBENZENE	m (	ng/L	10 U	10 U	10 0	10 U	10 U	10 U	10 U	10 U	10 U
1,4-UICIIIOIODENZENE	'n	ng/L	10 0	10 U	0	10 0	10 U	10 U	10 U	10 U	10 U
2-Butanone		ng/L	10 0	10 U	10 0	10 U	10 U	10 U	10 U	10 U	10 U
	00	ng/L	10 0	10 0	10 0	10 0	10 U	10 U	10 U	10 N	10 U
4-wetnyr-z-pentanone		ug/L	10.01	10 0	0.01	10.0	10 U	10 U	10 U	10 U	10 U
Bentene	00	ug/L		0.01	10 01	10 0	10 0	10 UV	10 UV	10 UV	10 U
Bromodichloromethane	- 9	ug/L		0.01	2 2	0.01	100	10.0	101	10 0	10 0
Bromoform	005	ug/L			0.01	0.01	10 U	101	10 0	10 U	10 0
Bromomethane	2 2 2	ug/L									
Carbon disulfide	en o	ug/L					101				
Carbon tetrachloride	3 40	ua/L	1011	101			1101	1101	101	0.01	
Chlorobenzene	5	ng/L	10 U	10 U	10 01	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	ŝ	ng/L	10 U	10 U	10 U	10 U	10 U				
Chloroform	7	ng/L	10 U	10 U	10 U	10 U	10 U				
Chloromethane		ng/L	10 U	10 U	10 U	10 U	10 U				
cis-1,2-Dichloroethylene		ng/L	10 U	10 U	10 U	10 U	10 U				
cis-1,3-Dichloropropene		ng/L		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane		ng/L	10 U	10 U	10 U	10 U	10 U				
Dibromocnioromethane	2	ng/L		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylhenzene	' u	ug/L		0.01	0 0	10.01	0.01	10.01	101	101	10 01
Isopropylbenzene (Cumene)	, ·	מקיר נומ/ו									
m,p-Xylene	ŝ	ua/L	20 U	20 U	20 17	2011	2011	2011	102	11 02	11 02
Methyl Acetate		ng/L	10 U	10 U	10 U	10 U	10 U				
Methyl tert-butyl Ether		ng/L	10 U	10 U	10 U	10 U	10 U				
Methylcyclohexane		ng/L		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	£	ng/L	10 U	10 U	n'ot.	U 01	10 U	10 U	10 U	10 U	10 U
o-Xylene		ng/L		10 U	10 C	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	2	ng/L	10 U	10 U	10 U	10 U	10 U				
Tetrachloroethylene (PCE)	ιΩ I	ng/L		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans.1 2.Dichloroothone	n u	ng/L	10 0	10 U		10 0	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloronronene	0	ug/L			10.0	0.04	0.01	10.0	0.01		0.01
Trichloroethylene (TCE)	5	ng/L		10 U	000	10 0	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	•	ng/L	10 U	10 U	10 U	10 U	10 U				
Vinyi chloride	2	ng/L	10 U	10 U	10 U	10 U	10 U				
VOCS, Total		ng/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

all shows

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DUP = Field Duplicate Sample; J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit; V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit

Table 5-11 Groundwater - TCL SVOCs

Analyte	NYSDEC Std. or GV	Field Id Sample Date Units	MW01 MW01-01 06/23/2003	MW01-02 09/03/2003	MVV02 MVV02-01 06/23/2003	MW 02 MW 02-02 09/03/2003	MW02-DUP MW02-02-DUP 09/03/2003	MVV03 MVV03-01 06/23/2003	MW03-DUP MW03-01-DUP 06/23/2003	MW 04 MW 04-01 06/23/2003	MW04-02 09/03/2003
2,4,5-Trichlorophenol	•	ng/L	10 U	10 U	11 U	10 U		10 U	10 U		10 U
2,4,6-Trichlorophenol	•	ng/L	10 U	10 U	1: U	10 U		10 U	10 U	11 U	10 U
2,4-Dichlorophenol	2 C	ug/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
2,4-Dinitronhanol	00	ug/L IIG/I	2111/	2111	0110	1100	10.01	10.01	10.01	11 0	10.0
Dinitrotoluene	2 12		1011	1011	-15	1011	101	1011	1011	1111	1011
linitrotoluene	22.02	ua/L	10 U	10 U	11	101	101	101	101	11 1	101
loronaphthalene	10	ua/L	10 U	10 U	110	10 U	10 U	1011	1011	1111	101
2-Chlorophenol	,	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
2-Methylnaphthalene	•	ug/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
2-Methylphenol (o-cresol)		ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
2-Nitroaniline	5	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
2-Nitrophenol		ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Dichlorobenzidine	5	ng/L	21 U	21 U	21 U	20 U	21 U	21 U	21 U	21 U	21 U
troaniline	5	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
4,6-Dinitro-2-methylphenol	1	ng/L	21 UV	21 U	21.IJV	20 U	21 U	21 UV	21 UV	21 UV	21 U
4-Bromophenyl phenyl ether	1	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
4-Chloro-3-methylphenol	•	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
4-Chloroaniline	5	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
4-Chlorophenyl phenyl ether	•	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
4-Nitroaniline	5	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
4-Nitrophenol		ng/L	21 U	21 U	21 U	20 U	21 U	21 U	21 U	21 U	21 U
Acenaphthene	20	ug/l.	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U .	10 U
Acenaphthylene		ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Acetophenone		ng/L	10 U	10 U	11 U	10·U	10 0	10 U	10 U	11 U	10 U
Anthracene	50	ng/L	10 U	10 U	· 11:U	10 U	10 U	10 U	10 U	11 U	10 U
Atrazine	1 <b>1</b> 4 5	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	· 11 U	10 U
Benzaldehyde		ng/L	10 U	10 U	110	10 U	10 U	10 U	10 U	11 U	10 U
Benzo(a)anthracene		ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Benzo(a)pyrene	,	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Benzo(b)fluoranthene	0.002	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Benzo(g,h,i)perylene	•	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Benzo(k)fluoranthene	0.002	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Bipnenyl (dipnenyl)	, ,	ug/L	10.0	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
bis(z-Unioroetnoxy) methane	0 -	ug/L		0.01	011	0.01		10.0		0 11	10 0
bis(z-critoroetriyi) etner		ug/L	10.0	0.01		0.01	0.01	0.01	n nl	011	10 0
Dis(z-Unioroisopropyi) etner		ug/L	10.0	0.01	011	10.0	10.0	10.0	10.0	011	10.0
Carhazolo		ug/L	101		1 2			101	100	2 7	
Chrysene	0.002	ug/L	1011	1011	111	101	101	101	101	5 7	
Cresols. M & P		ua/L	10 U	10 U	11 U	101	1011	101	101	1111	101
Di-n-butvl phthalate	50.	ua/L	10 U	10 U	11 U	101	1011	10.11	101	1111	101
Dibenz(a,h)anthracene		ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Dibenzofuran		ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Diethyl phthalate	50	ng/L	10 U	10 U	11 U	10 U		10 U	10 U	11 U	10 U
Fluoranthene	50	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Fluorene	50	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Hexachlorobenzene	0.04	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Hexachlorobutadiene	0.05	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Hexachlorocyclopentadiene	5	ng/L	10 U	10 U	11 UV	10 U	10 U	10 U	10 U	11 UV	10 U
Hexachloroethane	5	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Indeno(1,2,3-c,d)pyrene	0.002	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
lsophorone	50	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
n-Nitrosodi-n-propylamine		ng/L	10 U	10 U	11 U.	10 U	10 U	10 U	10 U	11 U	10 U
n-Nitrosodiphenylamine	09	ng/L	10 U	10 U	11 U	10 U	10 U	10 U	10 U	11 U	10 U
Naprtnalene		ng/L	10.0	10 U	011	10.0	10 U	10.0	10 0	11 U	10 0
Dentachloronhenol	1.4	ug/L	10.0	10.01	110	100	10.01	10.01	10.0		10.01
Phenanthrene	- 20	ug/L	1011	1012		1011	1017	1012	101	1111	2101
Phanol		ug/L	101	76.1	110	1101		101	101	1	
Pvrene	50	ua/L	101	101	11 U	101			101		1011
SUNCE Total		1/20			DLA						
SVUCS, IOTAI	,	ng/L	BUL	1.6.1	BUL	BUL	BUL	BUL	BUL	BUL	1.1.

Analyte	
Trichlorophen	
4-D	
4.	
2,4-Dinitrophenol	
6-dinitrotoluen	
Q	
1	
-Methylnaphthale	1
2-Methylphenol (o-cresol)	
itroaniline	
6-Dinitro-2-methylphe	
-Bromo	
4-Chloro-3-metnylphenol 4-Chloroaniline	
4-Nitrophenol	
Acenaphthene	
Acenaphthylene	
Acetopnenone	
Anthracene	
Benzaldehvde	
Benzo(a)anthracene	
Benzo(a)pyrene	
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
bis(2-Chloroethyl) ether	
Chloroisopro	1
Caprolactam	
Carbazole	1
hrysene	1
0 0	
Dibenzofuran	
Diethyl phthalate	
Fluoranthene	
Fluorene	1
Hexachlorobenzene	- 1
Hexachlorobutadiene	
Hexachlorocyclopentagiene	
Indeno(1.2.3-c.d)pvrene	
Isophorone	
n-Nitrosodi-n-propylamine	
n-Nitrosodiphenylamine	
Naphthalene	- 1
Nitrobenzene	1
Pentachlorophenol	- 1-
Phenol	
Pyrene	
SVOCs, Total	

Table 5-12 Groundwater - TAL Metals 19

Analyte	NYSDEC Standard or GV	Location ID Field ID Sample Date Units	MW01 MW01-01 06/23/2003	MW01 MW01-02 09/03/2003	MW02 MW02-01 06/23/2003	MW02 MW02-02 09/03/2003	MW03 MW03-01 06/23/2003	MW03-DUP MW03-01-DUP 06/23/2003	MW04 MW04-01 06/23/2003	MW04 MW04-02 09/03/2003
Aluminum	100	ng/L	200 U	83.6 J	130 J	77.4 J	65.4 J	91.4 J	72.6 J	74.9 J
Antimony	3	ng/L	60 U	5.2 J	60 U					
Arsenic	25	ng/L	10 U	10 U	10 U					
Barium	1000	ng/L	232	196 J	119 J	99.9 J	241	243	357	295
Beryllium	e	ng/L	5 U	0.43 J	0.63 J	0.43 J	0.63 J	0.62 J	0.69 J	0.45 J
Cadmium	£	ng/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	n/a	ng/L	42700	35600	36100	30400	89900	88400	92500	82000
Chromium, total	50	ng/L	4.1 J	10 U	0.74 J	10 U	10 U	10 U	10 U	10 U
Cobalt	n/a	ng/L	50 U	50 U	0.74 J	50 U	50 U	0.84 J	50 U	50 U
Copper	200	ng/L	2.3 J	25 U	25 U	25 U				
Iron	300	ng/L	7860	6910	8980 -	7920	10100	10100	20400	16900
Lead	25	ng/L	3 U	2 J	3.0	- 3 U	3 U	3 U	, 3 U	2 J
Magnesium	35000	ng/L	7560 V	5680	7210 E	5980	14400 E	14300 E	20200 E	15800
Manganese	300	ng/L	453 V	354	230 E	193	967 E	941 E	971 E	784
Mercury	0.7	ng/L	0.2 U	0.2 U	0.2 U .	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	ng/L	40 U	40 U	40 U					
Potassium	n/a	ng/L	5200 V	4250 JE	2130 JE	1770 JE	6220 E	6000 E	7240 E	6620 E
Selenium	10	ng/L	5 UN	5 U	5 UN -	5 U	5 UN	5 UN	5 UN	5 U
Silver	50	ng/L	1.8 V	10 U	- 10 UN	-10 U	10 UN	10 UN	10 UN	1.7 J
Sodium	20000	ng/L	7960	8470	4680 J	3890 J	51600	50800	50900	55800
Thallium	0.5	ng/L	10 U	10 U	10 U					
Vanadium	n/a	ng/L	3.5 J	50 U	50 U	50 U				
Zinc	2000	ng/L	20.8	25.5	18.1 J	23.	17.8 J	22.5	28.5	22.7

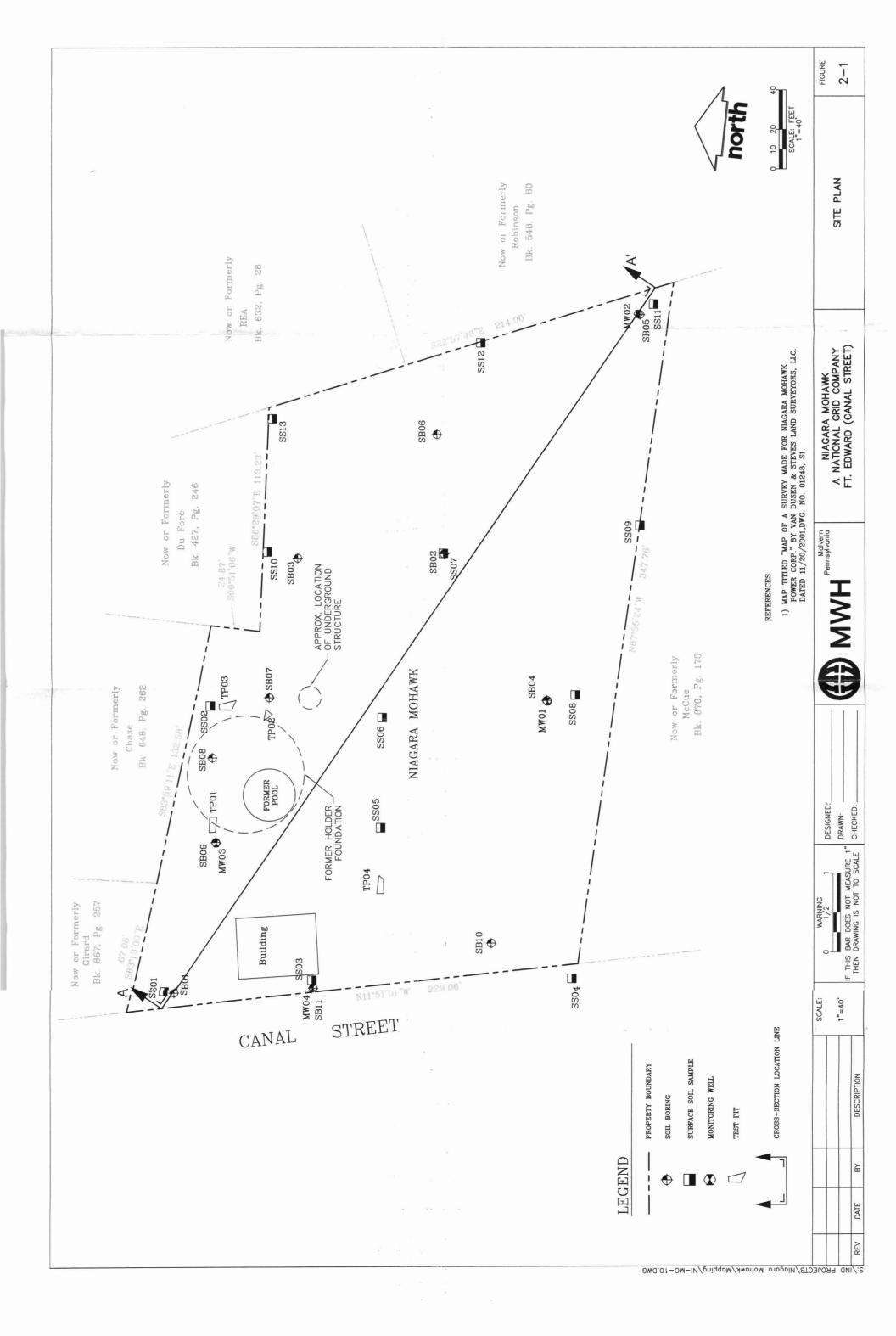
DUP = Field Duplicate Sample; J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit: V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit 

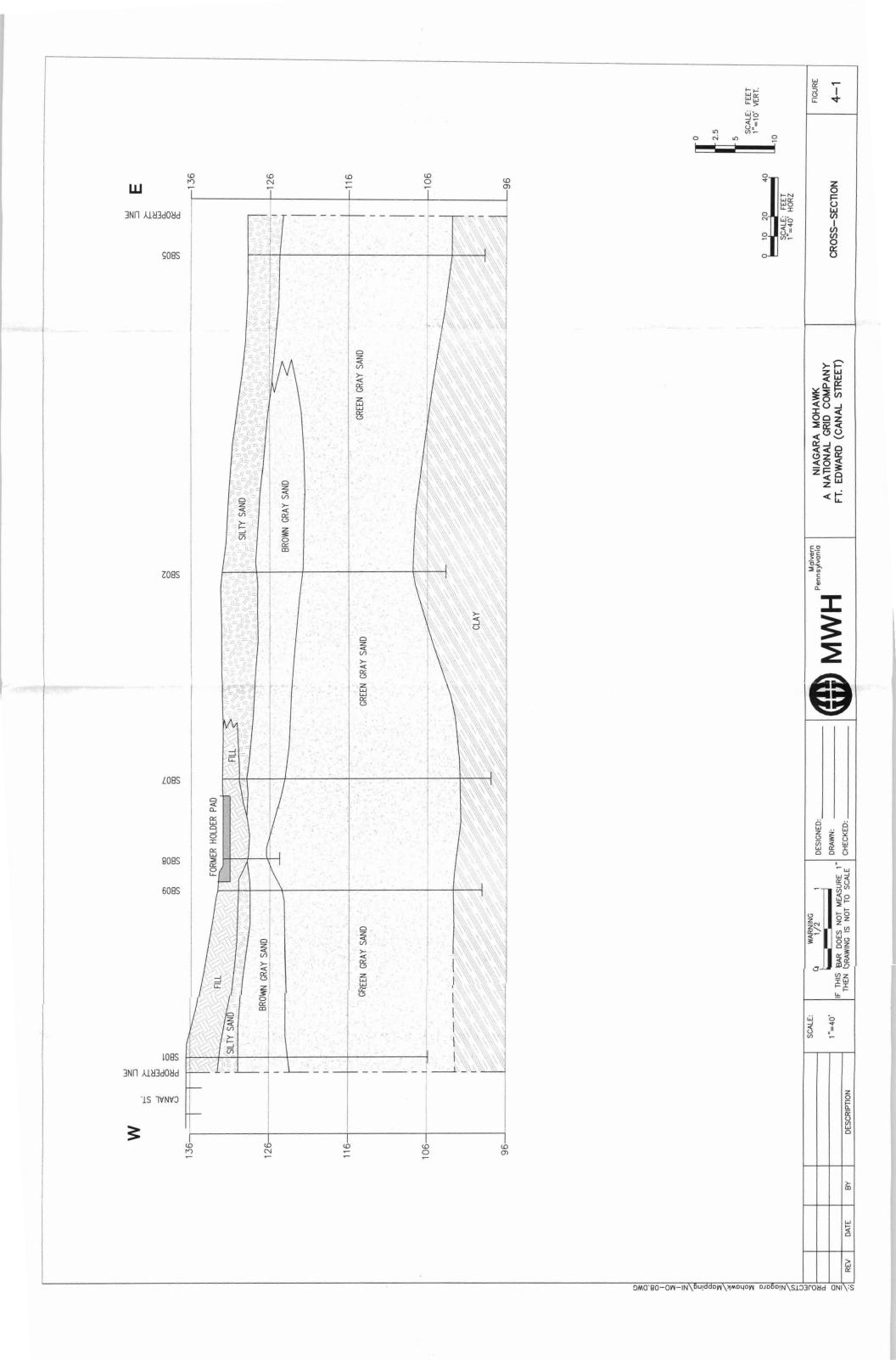
Table 5-13 Groundwater - Natural Attenuation Parameters

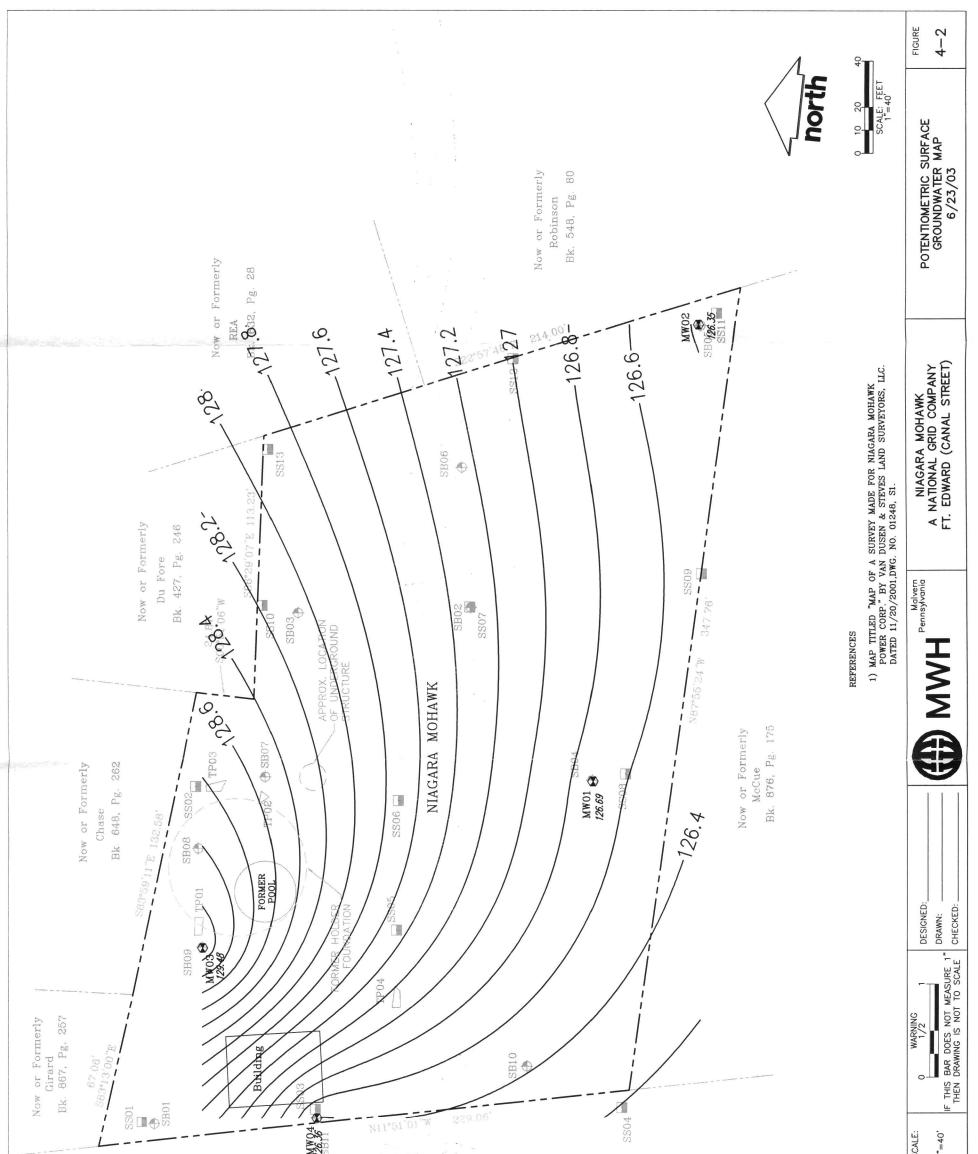
90         100         90         100         90         160         200         200           0.6         -         0.67         -         0.32         0.2U         0.31         20           25         12         28         14         31         28         19         0.31           56         40         50         27         100         100         100         100           51U         -         51U         -         51U         51U         51U         51U           51U         -         51U         -         51U         120         130         100           38         32         19         17         120         130         130         130           0.01U         -         0.01U         -         0.01U         0.01U         0.01U         0.01U         0.01U           7.9         6.9         9-         7.9         10.1         0.01U         0.0	Analyte	Location ID Field ID Sample Date Units	MW01 MW01-01 06/23/2003	MW01 MW01-02 09/03/2003	MW02 MW02-01 06/23/2003	MW02 MW02-02 09/03/2003	MW03 MW03-01 06/23/2003	MW03-DUP MW03-01-DUP 06/23/2003	MW/04 MW/04-01 06/23/2003	MW04 MW04-02 09/03/2003
mg/L         0.6         -         0.67         -         0.32         0.2         0.31         0.31           lemand, five day         mg/L         25         12         28         14         31         28         19         0.31           demand         mg/L         56         12         28         14         31         28         190         100           demand         mg/L         50         27         100	Alkalinity, total (as CaCO3)	mg/L	90	100	06	96	180	180	200	240
lemand, five daymg/L2512281431281919demandmg/L56405027100100100100100demandmg/L5U5U $\cdot$ $0.01$ $0.01$ $0.00$ $0.00$ $0.00$ demandmg/L $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ mg/L $0.001$ $0.003$ $\cdot$ $0.001$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ mg/L $0.010$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ mg/L $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ mg/L $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ mg/L $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ mg/L $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ mg/L $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ mg/L $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ mg/L $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ mg/L $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ $0.01$ </th <th>Ammonia</th> <td>mg/L</td> <td>0.6</td> <td></td> <td>0.67</td> <td></td> <td>0.32</td> <td>0.2 U</td> <td>0.31</td> <td></td>	Ammonia	mg/L	0.6		0.67		0.32	0.2 U	0.31	
mg/L         56         40         50         27         100	Biologic oxygen demand, five day	mg/L	25	12	28	14	31	28	19	9.4
demandmg/L $5 U$ mg/Lmg/L $38$ $32$ $19$ $17$ $120$ $120$ $130$ $130$ mg/L $0.063$ $ 0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $ 0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $7.9$ $6.9$ $0.01$ $0.1U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L <th>Carbon dioxide</th> <td>mg/L</td> <td>56</td> <td>40</td> <td></td> <td>· 27</td> <td>100</td> <td>100</td> <td>100</td> <td>84</td>	Carbon dioxide	mg/L	56	40		· 27	100	100	100	84
mg/L38321917120120130130mg/L $mg/L$ $0.063$ $ 0.02$ $ 0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.063$ $ 0.061U$ $ 0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $ 0.01U$ $ 0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $7.9$ $6.9$ $0.0$ $ 0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.1U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ mg/L $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ $0.01U$ <th>Chemical oxygen demand</th> <td>mg/L</td> <td>5 U</td> <td></td> <td>50</td> <td>•</td> <td>5 U</td> <td>5 U</td> <td>5 U</td> <td></td>	Chemical oxygen demand	mg/L	5 U		50	•	5 U	5 U	5 U	
mg/L         0.063 $\cdot$ 0.02 $\cdot$ 0.01U         0.01	Chloride (as Cl)	mg/L	38	32	19	17	120	120	130	110
let contantion         mg/L         0.01U $-$ 0.01U $-$ 0.01U $0.01U$	Cyanide	mg/L	0.063		0.02		0.01 U	0.01 U	0.01 U	
mg/L         7.9         6.9         9         7.9         10.1         10.1         20.4         20.4           mg/L         mg/L         0.1U         0.1B         0.1U         0.1B         0.1U         0.1U <th>Cyanide, amenable to chlorination</th> <td>mg/L</td> <td>0.01 U</td> <td></td> <td>- 0.01 U</td> <td></td> <td>0.01 U</td> <td>0.01 U</td> <td>0.01 U</td> <td>-</td>	Cyanide, amenable to chlorination	mg/L	0.01 U		- 0.01 U		0.01 U	0.01 U	0.01 U	-
mg/L         0.1U         0.1B         0.1U         0.01U         0.	Ferric Iron	mg/L	7.9	6.9	-6.	7.9	10.1	10.1	20.4	16.9
mg/L         0.01 U         0.08 U         0.01 U </th <th>Ferrous Iron</th> <td>mg/L</td> <td>0.1 U</td> <td>0.1 B</td> <td>0.1 U</td> <td>0.1 B</td> <td>0.1 U</td> <td>0.1 U</td> <td>0.1 U</td> <td>0.1 B</td>	Ferrous Iron	mg/L	0.1 U	0.1 B	0.1 U	0.1 B	0.1 U	0.1 U	0.1 U	0.1 B
mg/L         0.5 U	Methane	mg/L	0.01 U	0.08 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.04 U
I orthophosphate (as PO4)         mg/L         0.01U         -         0.01U         0.01U </th <th>Nitrate</th> <td>mg/L</td> <td>0.5 U</td>	Nitrate	mg/L	0.5 U	0.5 U	0.5 U					
mg/L         280         27         19         14         77         47         130           olids         mg/L         341         257         220         198         697         692         781           c/1ml         150         66         410         3400         220         180         370	Phosphorus, total orthophosphate (as PO4)	mg/L	0.01 U		0.01 U		0.01 U	0.01 U	0.01 U	
olids         mg/L         341         257         220         198         697         692         781           c/1ml         150         66         410         3400         220         180         370	Sulfate (as SO4)	mg/L	280	27	19	14	77	47	130	140
c/1ml 150 66 410 3400 220 180	Total dissolved solids	mg/L	341	257	220	198	697	692	781	604
	Total Plate Count	c/1ml	150	66	410	3400	220	180	370	-

DUP = Field Duplicate Sample; J = Estimated value, D = Diluted sample; U = Not detected at laboratory reporting limit; V = Estimated value based on validation criteria; BDL = Result Below Reporting Limit

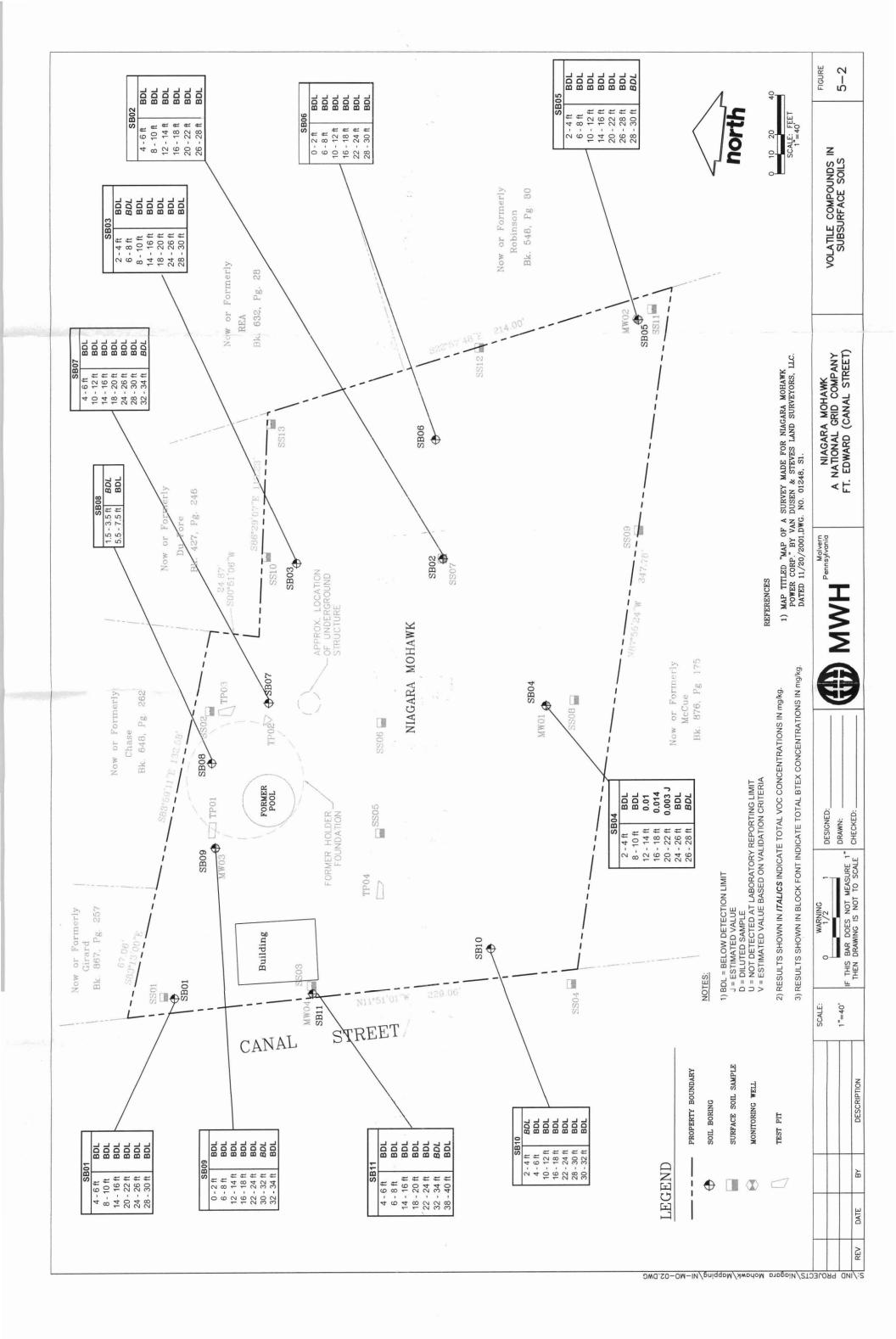
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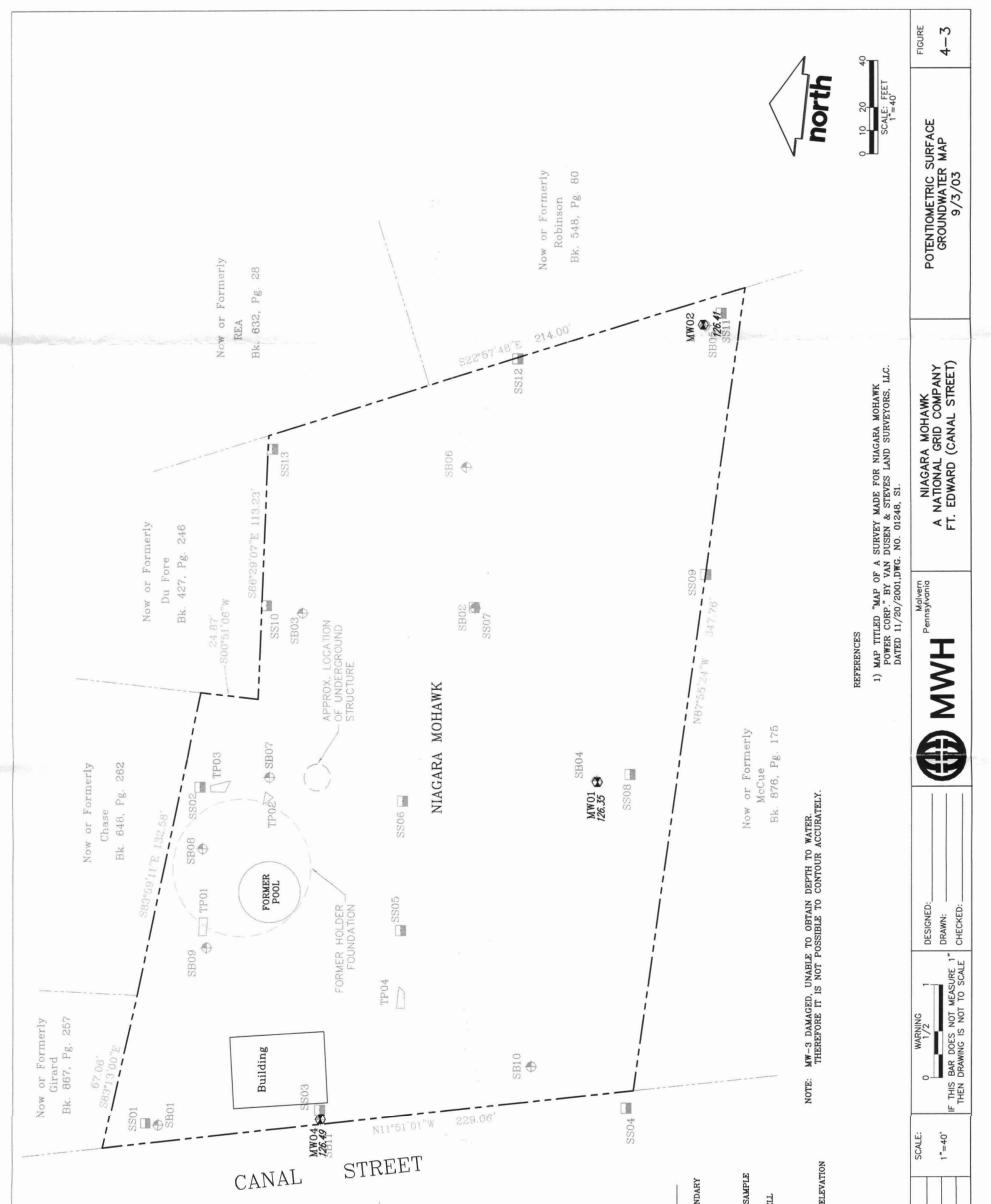






CANAL STREET	PROPERTY BOUNDARY SOIL BORING SURFACE SOIL SAMPLE MONTORING WELL TEST PIT TEST PIT GROUNDWATER CONTOUR (FT, MSL) GROUNDWATER ELEVATION (FT, MSL)	DESCRIPTION
	ISE SO	BY
		DATE
	ИП РЕОЈЕСТЗ/Ијадага Моћамк/Маррілg/ИІ-МО-06.DWG	REV





	X	12		ATION	SCA	-	_
	PROPERTY BOUNDARY SOIL BORING	SURFACE SOIL SAMPLE MONITORING WELL	TEST PIT	GROUNDWATER ELEVATION (FT, MSL)			DESCRIPTION
LEGEND	•			126.69			BY
LEG	İ						DATE
		90-0M-IN,			JECTS/Niaga		REV S:/IN

