

LIMITED SITE DATA

ERDLE PERFORATING COMPANY

TOWN OF GATES, MONROE COUNTY, NEW YORK

SITE NO. 828072

These documents that follow are NOT part of the Contract Documents for the remedial work at the Erdle Perforating Company (Erdle) Site. The Department neither represents that the Site conditions will be the same as in the attached document nor considers the attached documents as being comprehensive and an actual description of the site conditions. The Contractor shall be responsible for performing the remediation work based on the existing conditions at the Site.

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INVESTIGATION SUMMARY

The following is a summary of reports detailing historical investigations conducted at the Erdle Perforating Company between 2007 and 2012. These are provided in chronological order.

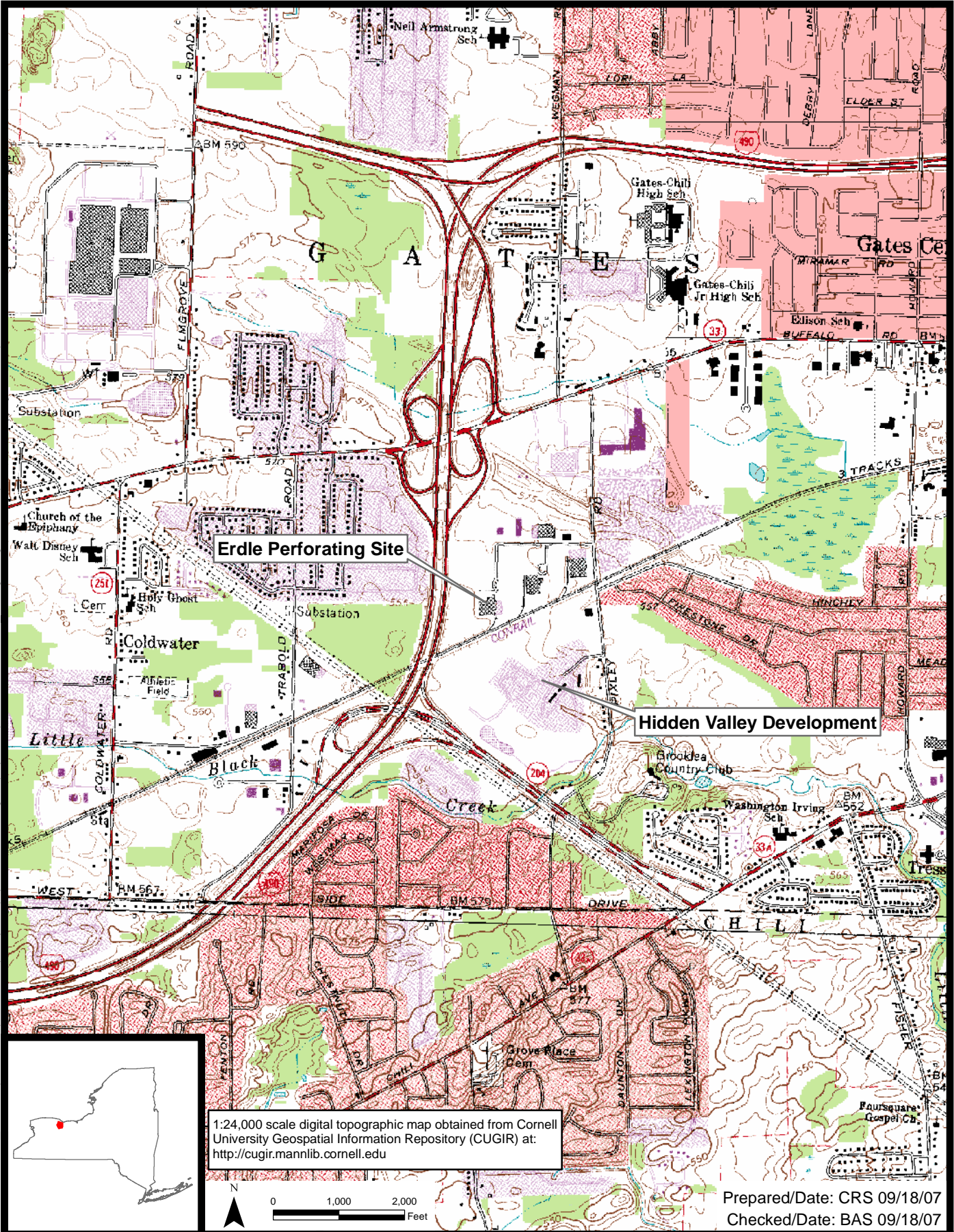
- MACTEC Engineering & Consulting, P.C. (MACTEC), 2010. Draft Final Remedial Investigation / Feasibility Study Report, Erdle Perforating Company. Site No. 828072. February 2010.
- MACTEC Engineering & Consulting, P.C. (MACTEC), 2010. Supplemental Soil Sampling Report, Erdle Perforating Company. Site No. 828072. June 2010.
- MACTEC Engineering & Consulting, P.C. (MACTEC), 2012. Remedial Design Basis Report, Erdle Perforating Company, Site No. 828072. August 2012.
- MACTEC Engineering & Consulting, P.C. (MACTEC), 2012. Remedial Design Baseline Groundwater Sampling Letter Report, Erdle Perforating Company, Site No. 828072. October 2012.

This information is being offered for consideration when planning the remedial work. Electronic copies of these reports can be provided upon request.

FIGURES

SITE MAPS/SITE FEATURES

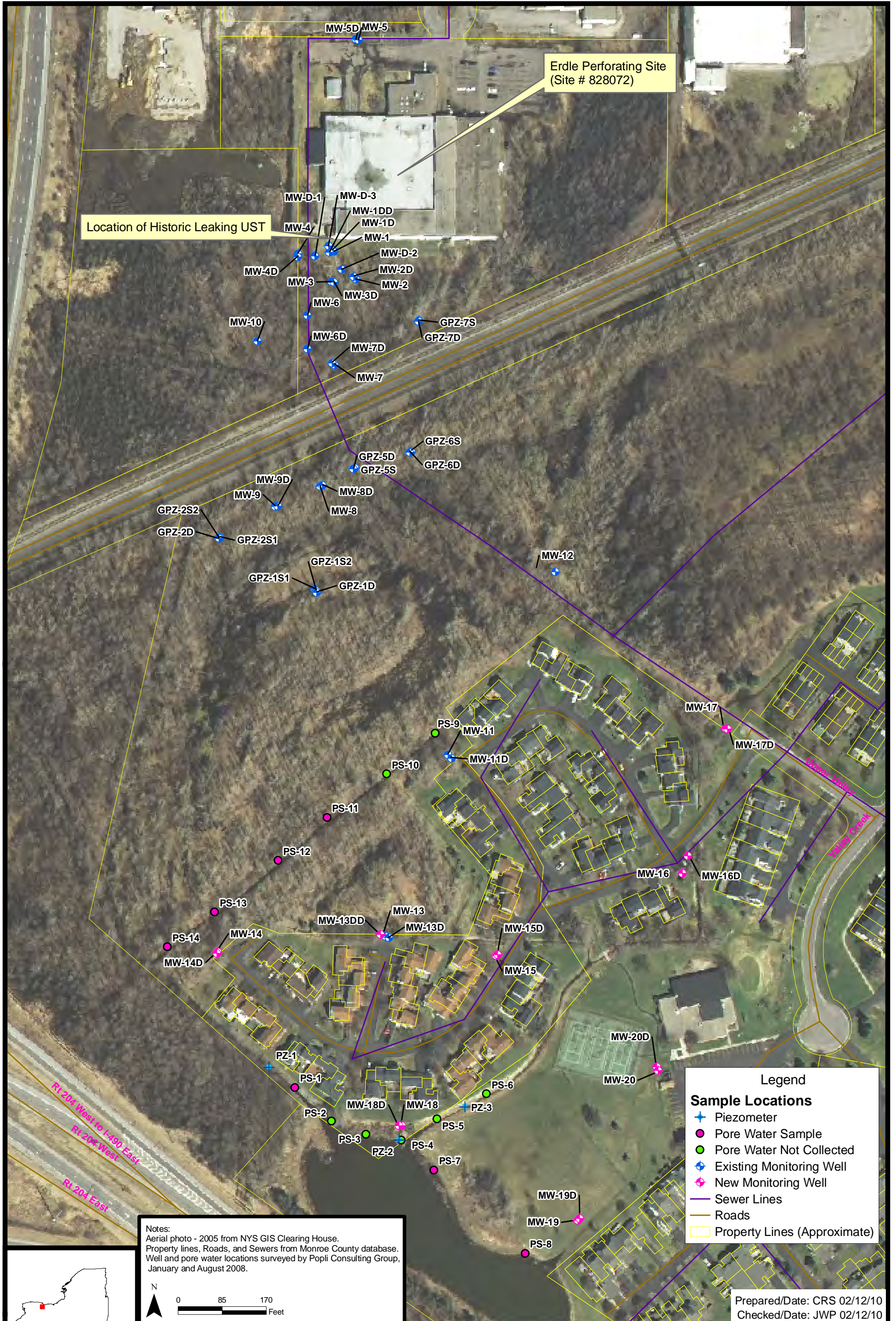
The enclosed figures are taken from historical Erdle Perforating Company Site investigation reports. In general, the figures depict onsite and nearby area conditions observed at various times between 2007 and 2012. The intent of each figure is to illustrate site conditions as they were known to have existed at the time the figure was generated. This information is being offered for consideration when planning the remedial work.



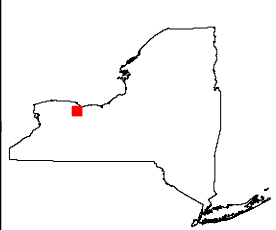
NYSDEC
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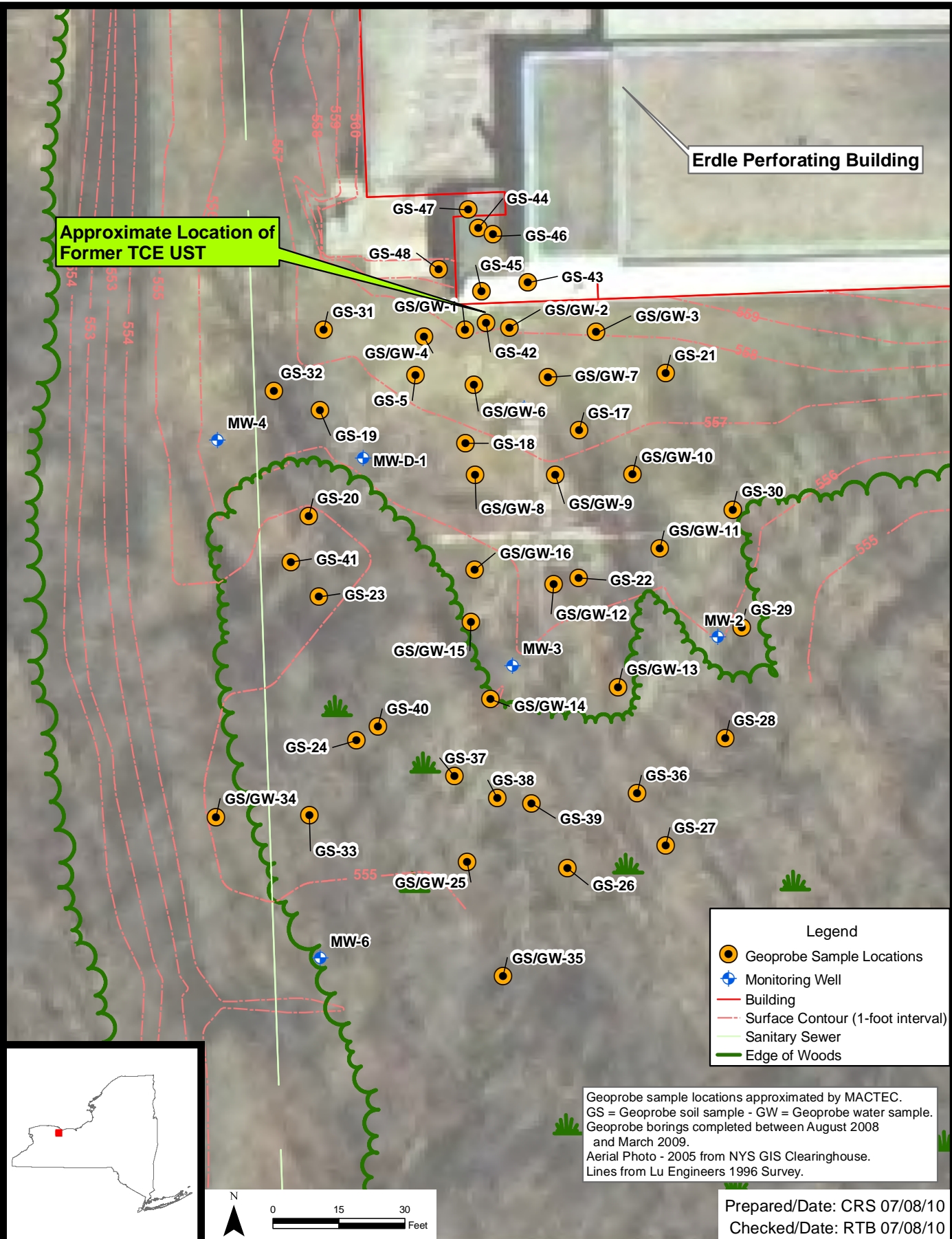


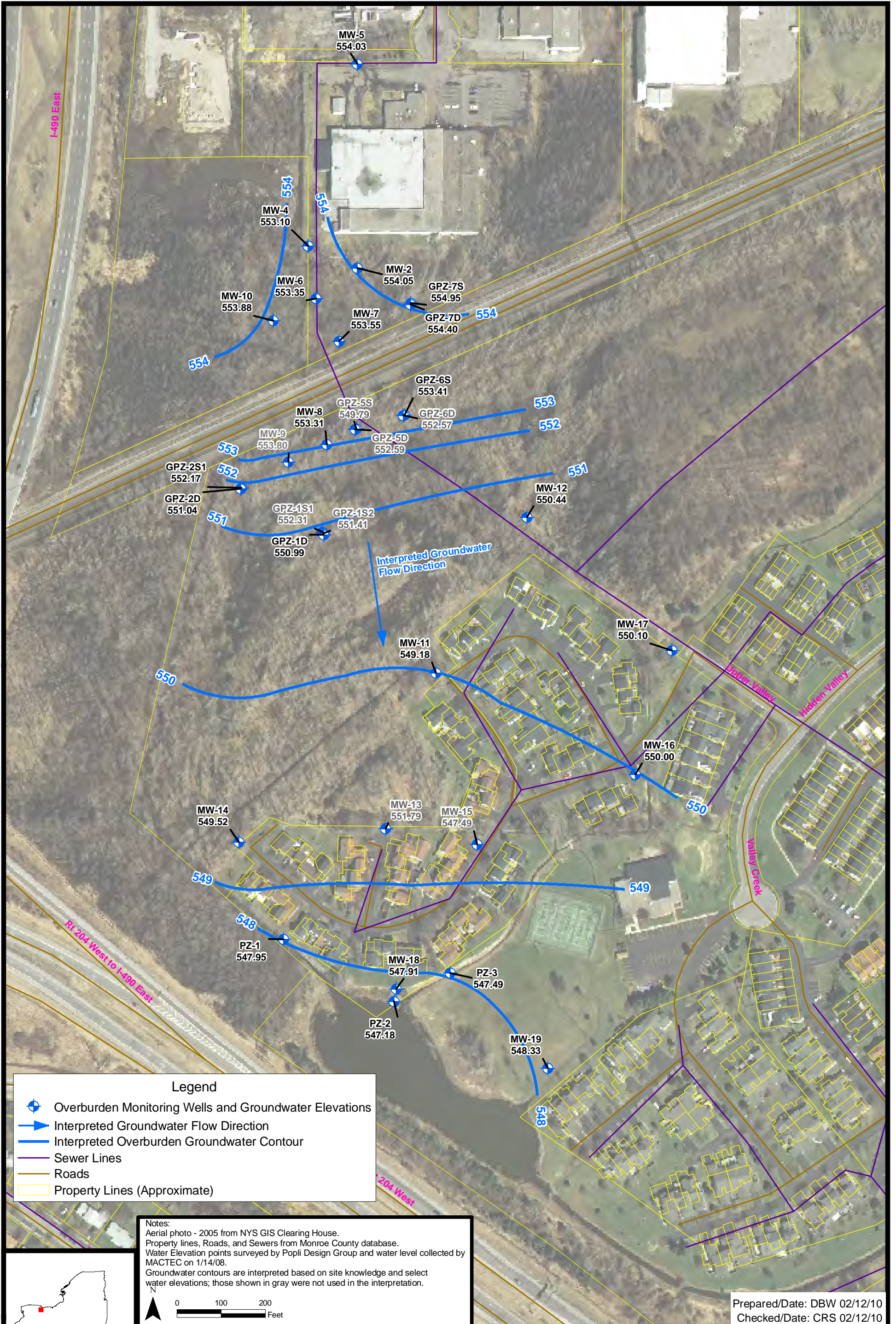
Site Location
Project 3612-07-2094
Figure 1.1



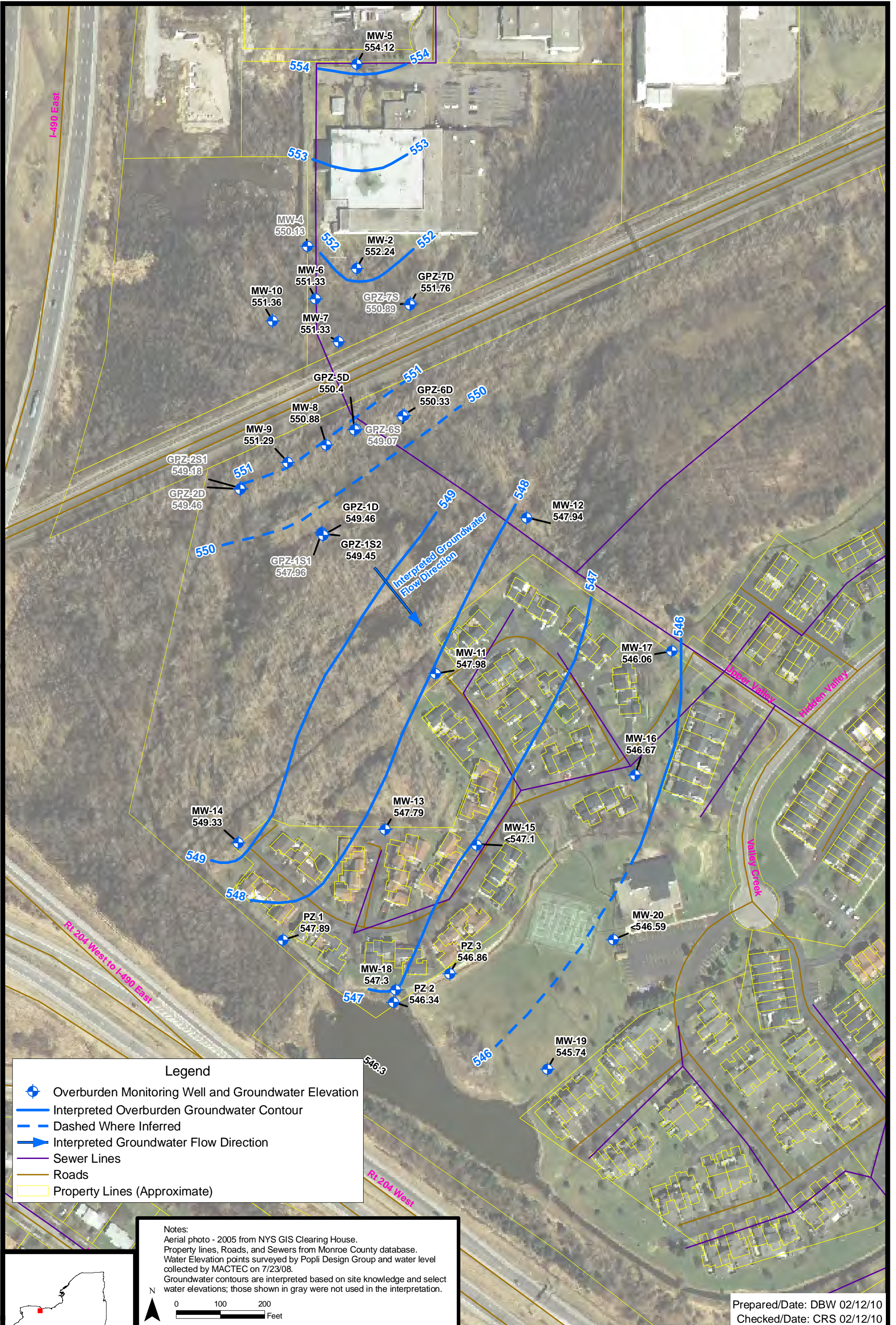
Notes:
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Property lines, Roads, and Sewers from Monroe County database.
Well and pore water locations surveyed by Popli Consulting Group,
January and August 2008.







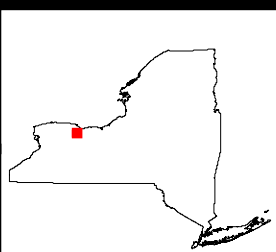
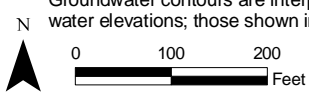
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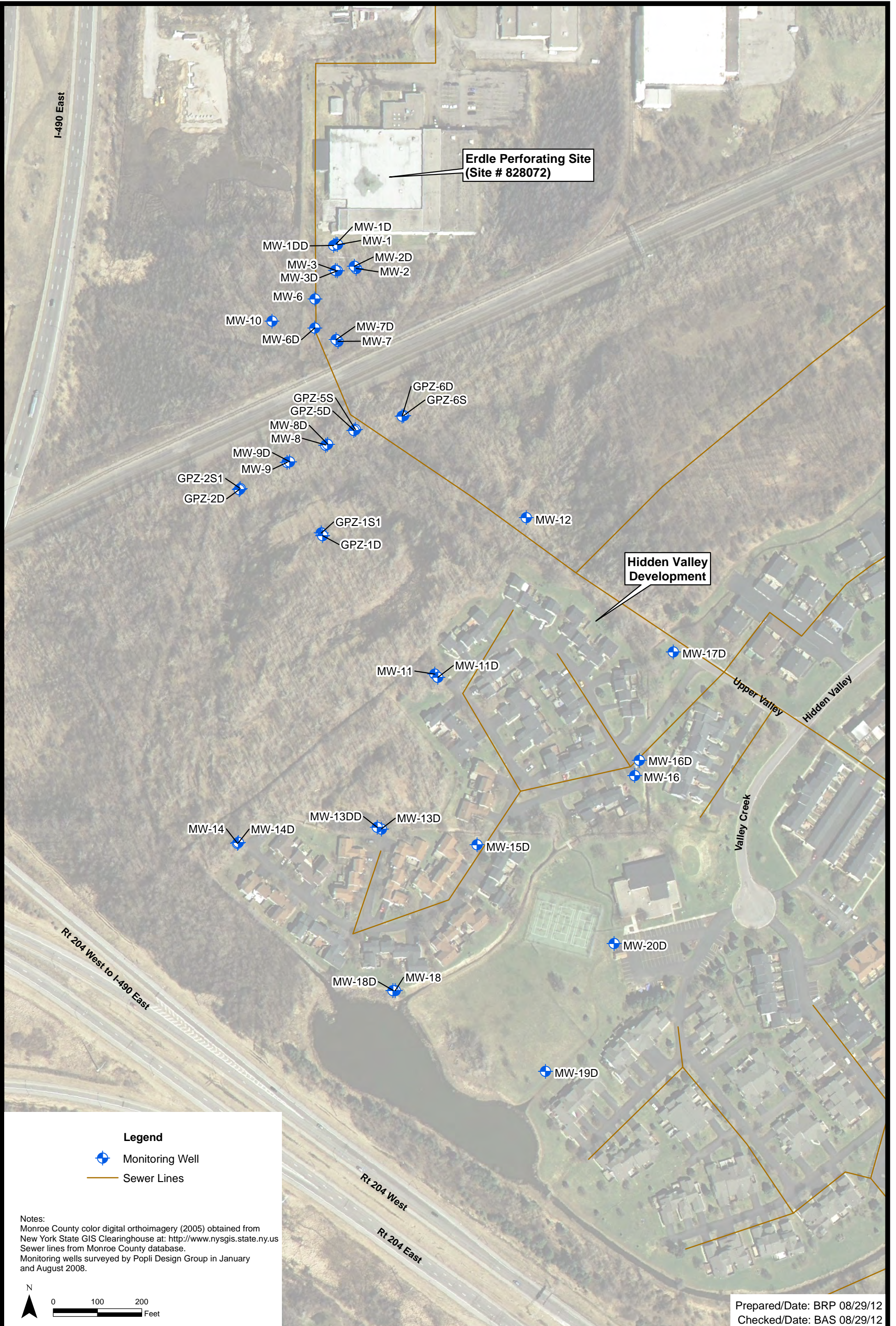
Legend

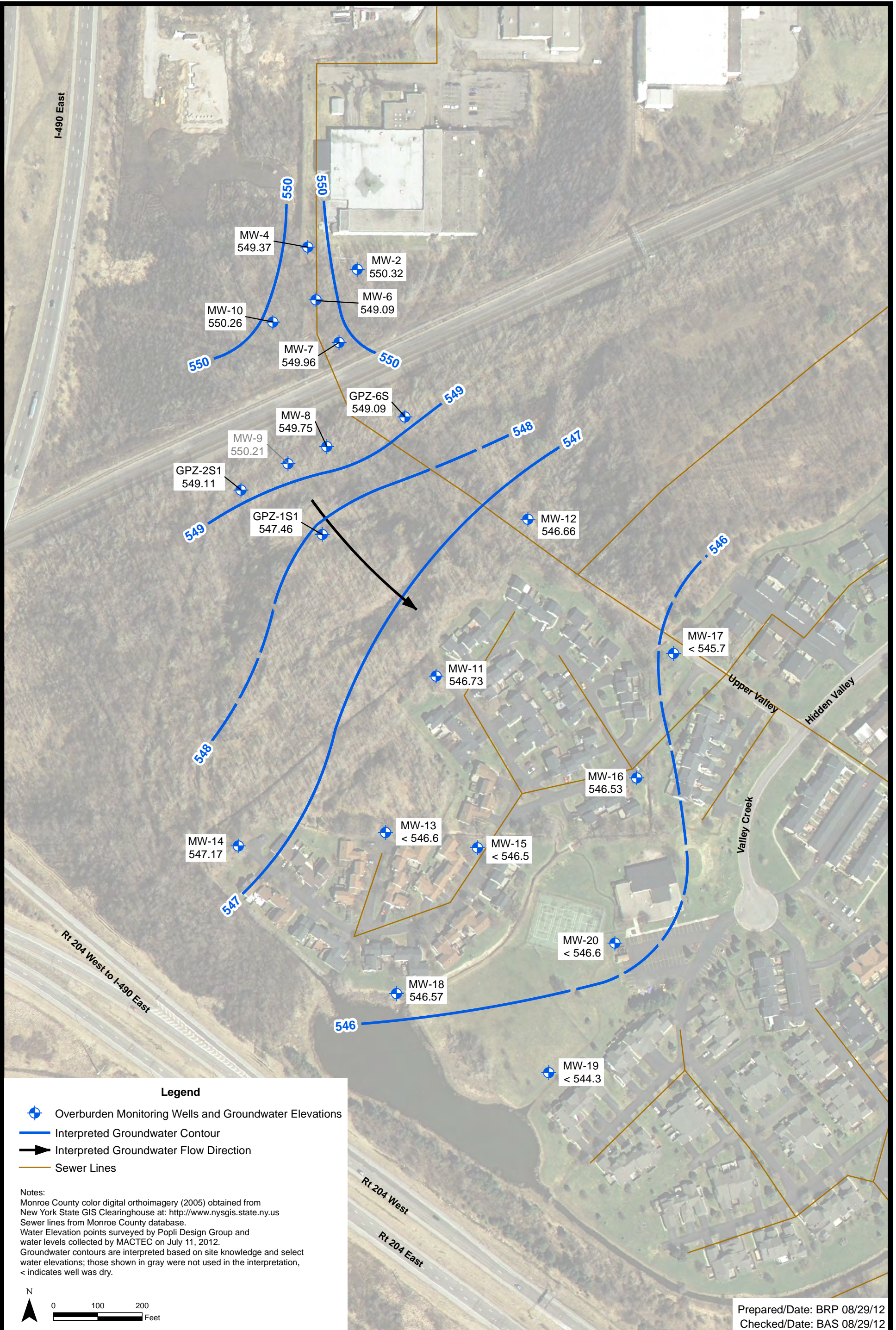
- ⊕ Overburden Monitoring Well and Groundwater Elevation
- Interpreted Overburden Groundwater Contour
- - - Dashed Where Inferred
- ➔ Interpreted Groundwater Flow Direction
- Sewer Lines
- Roads
- Property Lines (Approximate)

Notes:
 Aerial photo - 2005 from NYS GIS Clearing House.
 Property lines, Roads, and Sewers from Monroe County database.
 Water Elevation points surveyed by Popli Design Group and water level collected by MACTEC on 7/23/08.
 Groundwater contours are interpreted based on site knowledge and select water elevations; those shown in gray were not used in the interpretation.



Prepared/Date: DBW 02/12/10
 Checked/Date: CRS 02/12/10

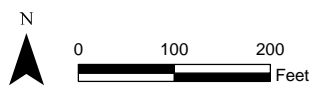




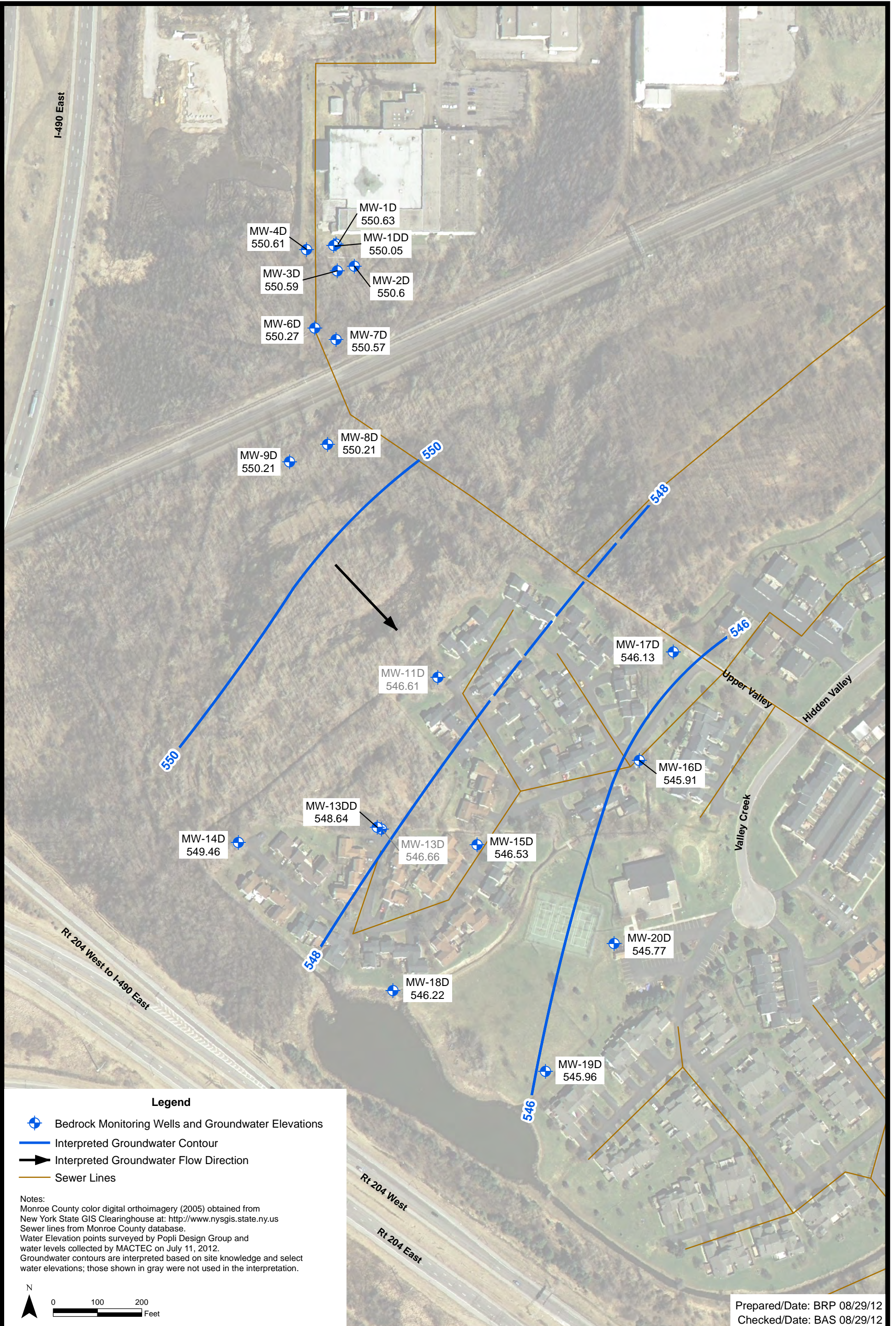
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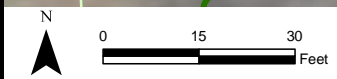
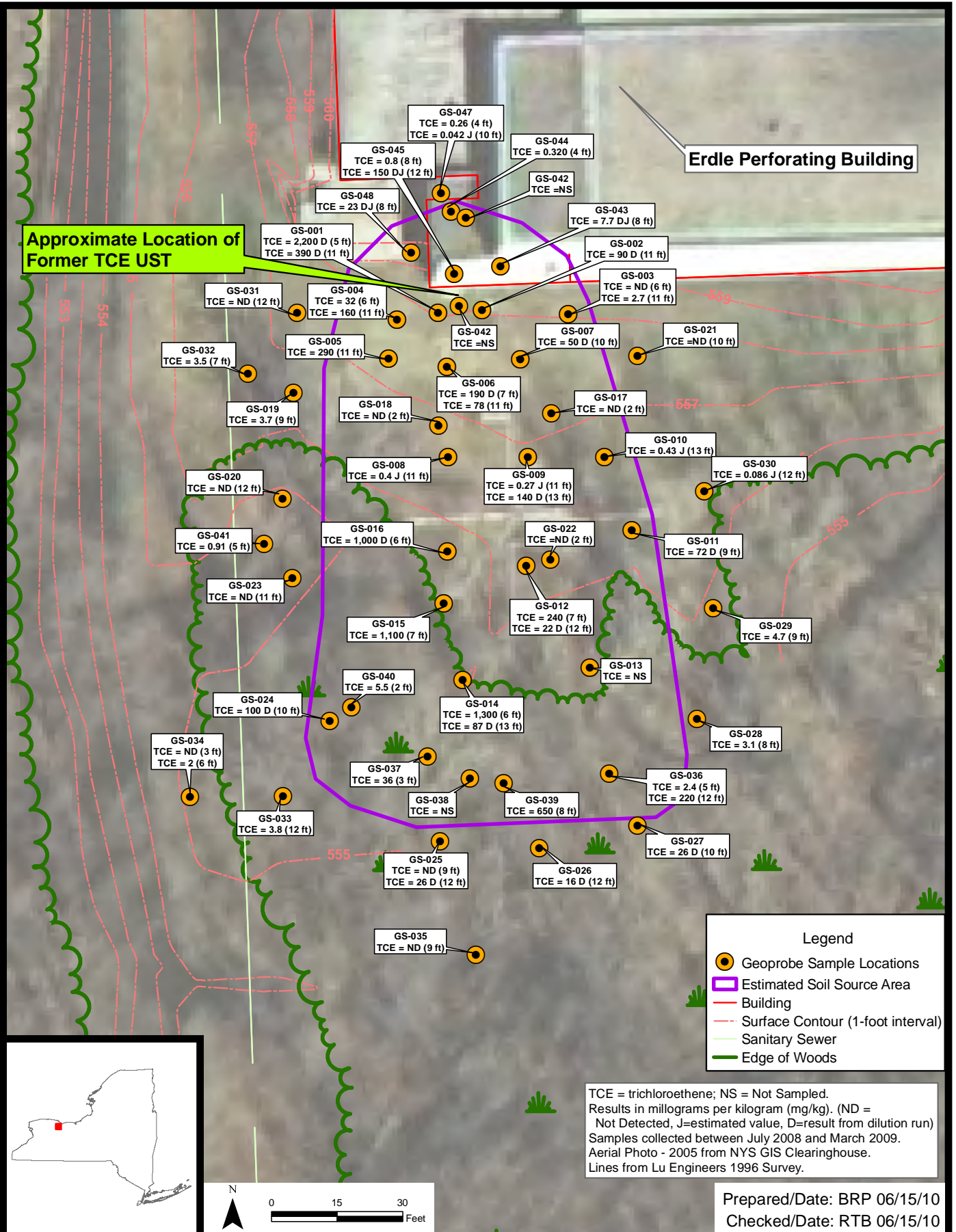
- ◆ Overburden Monitoring Wells and Groundwater Elevations
- Interpreted Groundwater Contour
- ➔ Interpreted Groundwater Flow Direction
- Sewer Lines

Notes:
 Monroe County color digital orthoimagery (2005) obtained from New York State GIS Clearinghouse at: <http://www.nysgis.state.ny.us>
 Sewer lines from Monroe County database.
 Water Elevation points surveyed by Popli Design Group and water levels collected by MACTEC on July 11, 2012.
 Groundwater contours are interpreted based on site knowledge and select water elevations; those shown in gray were not used in the interpretation, < indicates well was dry.



Prepared/Date: BRP 08/29/12
 Checked/Date: BAS 08/29/12

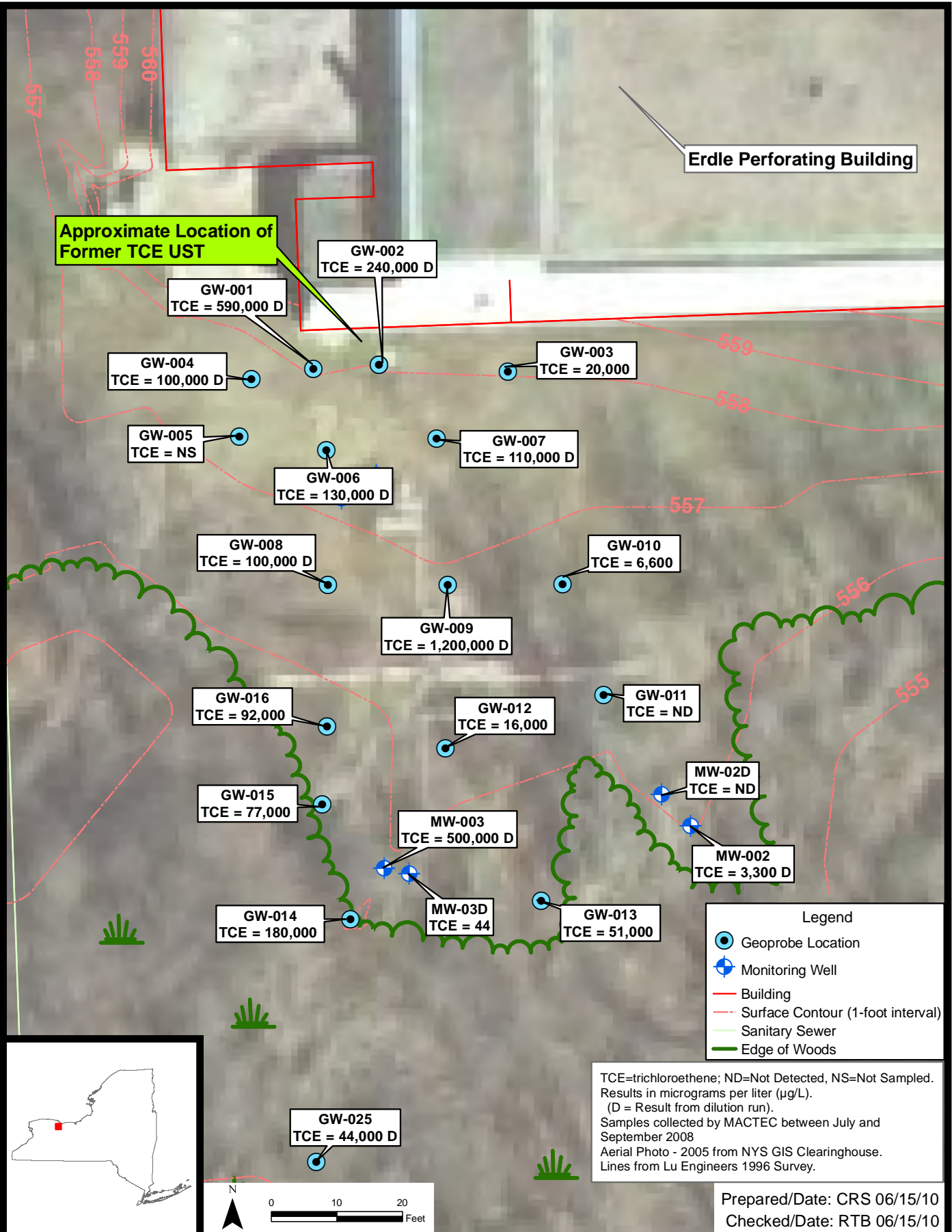


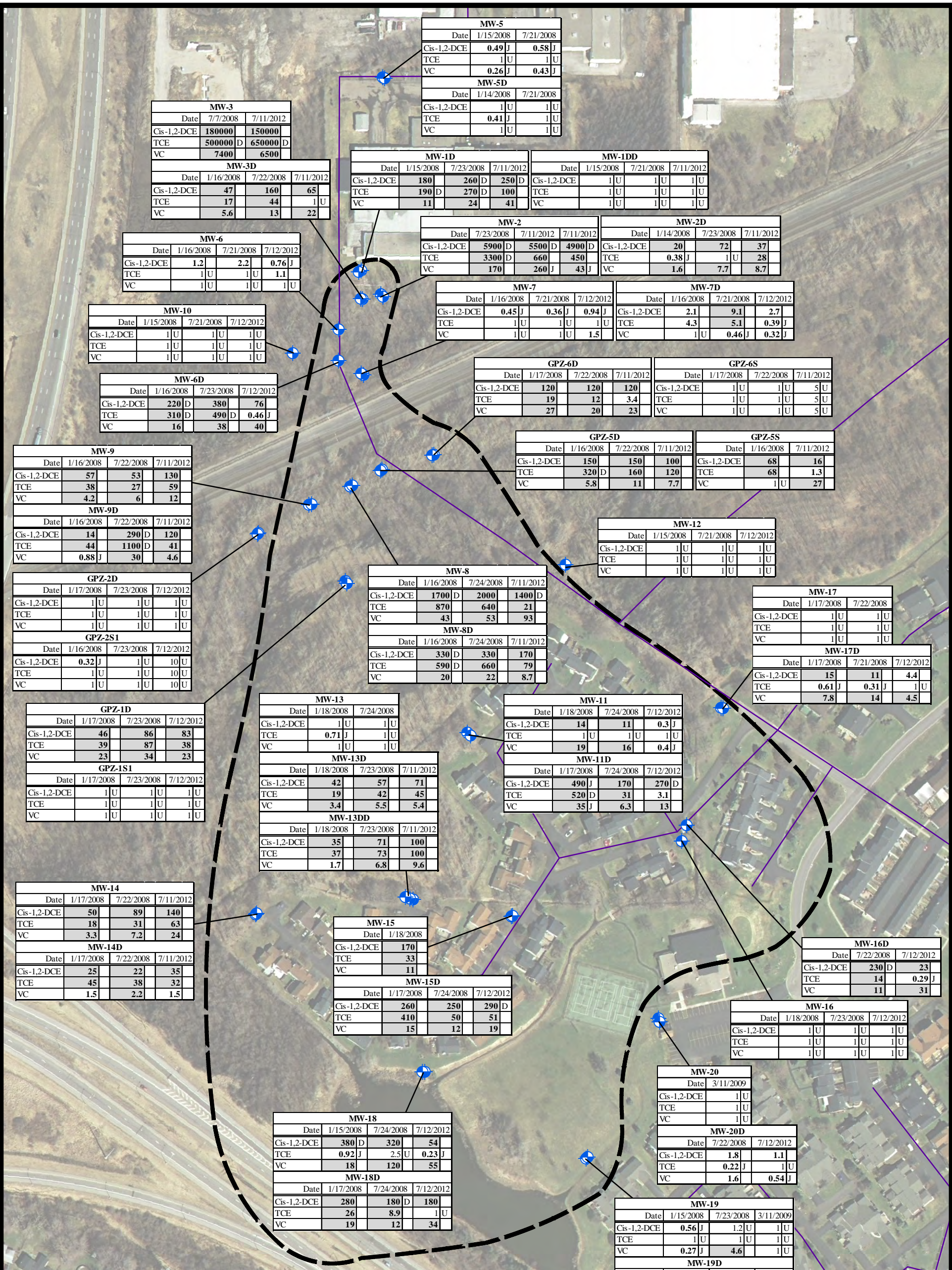


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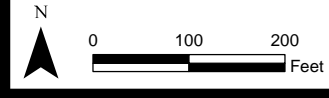


Source Area Soil Results-TCE
 Project 3612-07-2094
 Figure 4.1





Notes:
 TCE = trichloroethene, cis-1,2-DCE = cis-1,2-dichloroethene,
 VC = vinyl chloride
 Results in µg/L; U = not detected, J = estimated value, D= result from diluted run.
 Monitoring Wells surveyed by Popli Design Group and water samples collected by MACTEC in 2008 and 2012.
 Aerial photo - 2005 from NYS GIS Clearing House.
 Property lines, Roads, and Sewers from Monroe County database.



Legend

- Monitoring Well
- Sewer Lines
- Interpreted Extent of Exceedance of Groundwater Standards (for TCE, cis-1,2-DCE, and Vinyl Chloride)

Prepared/Date: BRP 09/27/12
 Checked/Date: BAS 09/27/12

NYSDEC
 Erdle Perforating Site
 Gates, New York



TCE, cis-1,2-DCE, and Vinyl Chloride
 in Groundwater - 2008 and 2012
 Project 3612-11-2215 Figure 5

TABLES

The enclosed tables are taken from historical Erdle Perforating Company Site investigation reports. In general, the tables depict onsite and nearby area conditions observed at various times between 1994 and 2012. The intent of the tables is to depict onsite and nearby area conditions at the site including water levels, contaminant concentrations and a conceptual model.

Contaminant concentrations presented on the tables are those reported at the time the table was generated. This information is being offered for consideration when planning the remedial work.

Table 3.1: Water Level Measurement Data

Exploration ID	Ground Elevation	Casing Elevation	Riser Elevation	Depth of Monitoring Well	Measure Point	Measured Depth (TOR/TOC) Date:1/14/08	DTW- (TOR/TOC) (1/2008)	Groundwater Elevation (1/2008)	DTW- (TOR/TOC) (7/2008)	Groundwater Elevation (7/2008)
MW-D-1	555.02	557.54	NA	NA	TOC	NA	4.22	553.32	6.2	551.34
MW-1D	556.49	559.07	558.91	26.50	TOR	26.4	4.59	554.32	7.09	551.82
MW-1DD	556.46	558.42	558.30	41.70	TOC	42.8	4.11	554.19	6.89	551.41
MW-2	555.49	557.81	557.42	10.60	TOR	10.7*	3.37	554.05	5.18	552.24
MW-2D	555.59	557.32	NA	NA	TOC	22.1	3.06	554.26	5.49	551.83
MW-3D	554.76	556.87	NA	20.25	TOC	16.7	2.58	554.29	5.18	551.69
MW-4	555.41	557.06	556.94	NA	TOR	NA	3.84	553.1	6.81	550.13
MW-4D	555.46	557.51	NA	NA	TOC	NA	3.21	554.3	5.79	551.72
MW-5	555.00	555.00	554.76	7.80	TOR	7.8*	0.73	554.03	0.64	554.12
MW-5D	555.16	555.36	NA	NA	TOC	12.2	0.55	554.81	3.06	552.3
MW-6	554.14	556.34	556.36	10.10	TOR	10.1	3.01	553.35	5.03	551.33
MW-6D	553.76	555.67	NA	25.60	TOC	25.9*	1.77	553.9	4.31	551.36
MW-7	553.89	556.48	556.24	17.00	TOR	17.1	2.69	553.55	4.91	551.33
MW-7D	553.70	555.49	NA	27.10	TOC	26.9	1.26	554.23	3.81	551.68
MW-8	565.37	566.73	566.80	27.90	TOR	28.0	13.49	553.31	15.92	550.88
MW-8D	565.25	566.65	NA	38.70	TOC	38.2	12.80	553.85	15.33	551.32
MW-9	567.01	568.86	568.91	30.20	TOR	30.1	15.11	553.8	17.62	551.29
MW-9D	566.76	568.86	NA	48	TOC	40.2	15.02	553.84	17.56	551.3
MW-10	553.86	557.03	556.90	17.00	TOR	16.9	3.02	553.88	5.54	551.36
MW-11	553.55	556.75	556.60	13.25	TOR	13.3	7.42	549.18	8.62	547.98
MW-11D	554.05	557.81	555.09	23.70	TOC	23.7*	8.64	549.17	9.84	547.97
MW-12	554.66	557.74	557.60	12.00	TOR	11.9	7.16	550.44	9.66	547.94
MW-13	553.71	553.79	553.40	7.80	TOR	6.7	1.61	551.79	5.61	547.79
MW-13D	553.57	553.63	553.33	12.25	TOR	12.1	4.64	548.69	5.55	547.78
MW-13DD	553.55	553.60	553.33	40.10	TOR	40.1	1.61	551.72	3.71	549.62
MW-14	552.88	553.01	552.64	16.20	TOR	16.3*	3.12	549.52	3.31	549.33
MW-14D	552.96	552.97	552.78	33.80	TOR	33	0	552.78	2.01	550.77
MW-15	553.18	553.30	553.11	6.50	TOR	6.5	5.62	547.49	<6.01	< 547.1
MW-15D	553.22	553.28	553.09	23.90	TOR	23.9	3.32	549.77	4.11	548.98
MW-16	553.94	553.96	553.78	8.90	TOR	8.9	3.78	550	7.11	546.67
MW-16D	553.94	553.97	553.64	22.20	TOR	22.2*	NA	NA	6.51	547.13
MW-17	553.88	553.95	553.43	7.70	TOR	7.7	3.33	550.1	7.37	546.06
MW-17D	554.01	554.09	553.73	23.20	TOR	23.2	4.49	549.24	6.31	547.42
MW-18	552.34	552.25	551.84	10.90	TOR	10.9	3.93	547.91	4.54	547.3
MW-18D	552.28	552.23	551.72	22.80	TOR	21.7	3.84	547.88	4.69	547.03
MW-19	552.03	551.95	551.55	7.20	TOR	7	3.22	548.33	5.81	545.74
MW-19D	551.98	552.02	551.43	19.50	TOR	19.7	3.36	548.07	5.65	545.78
MW-20	553.62	553.70	553.39	6.8	TOR	6.8*	NA	NA	<6.8	< 546.59
MW-20D	553.59	553.64	553.39	20.9	TOR	20.85*	NA	NA	6.52	546.87
GPZ-1S1	552.70	NA	554.91	8.60	TOR	8.6	2.60	552.31	6.95	547.96
GPZ-1S2	552.69	NA	554.68	12.60	NA	12.5*	3.27	551.41	5.23	549.45
GPZ-1D	552.99	NA	555.50	15.50	NA	15.7	4.51	550.99	6.04	549.46
GPZ-2S1	562.77	NA	565.01	16.60	TOR	16.6	12.84	552.17	15.83	549.18
GPZ-2S2	562.58	NA	NA	NA	NA	NA	NA	NA	NA	NA
GPZ-2D	562.38	NA	564.88	27.50	NA	20.9	13.84	551.04	15.42	549.46
GPZ-5S	563.99	NA	566.94	20.00	TOR	20.0	17.15	549.79	18.47	548.47
GPZ-5D	564.08	NA	566.98	29.10	TOR	28.2	14.39	552.59	16.58	550.4
GPZ-6S	563.72	NA	564.14	20.10	TOR	20.1	10.73	553.41	15.07	549.07
GPZ-6D	564.25	NA	566.74	28.40	NA	29.1	14.17	552.57	16.41	550.33
GPZ-7S	557.95	NA	560.57	NA	NA	NA	5.62	554.95	9.68	550.89
GPZ-7D	557.82	NA	560.37	NA	NA	NA	5.97	554.4	8.61	551.76
PZ 1	NA	NA	549.60	NA	TOR	NA	1.65	547.95	1.71	547.89
PZ 2	NA	NA	549.09	NA	TOR	NA	1.91	547.18	2.75	546.34
PZ 3	NA	NA	549.27	NA	TOR	NA	1.78	547.49	2.41	546.86

Notes:
 Wells Surveyed by Popli Deseign Group - Northing/Easting = North American Datum 83/96 - NYSPCS WEST (US SURVEY FT.)
 Elevations = North Atlantic Vertical Datum 88 (US SURVEY FT.)
 DTW = Depth to Water
 TOR/TOC = from top of riser or top of casing
 Water levels collected by MACTEC Engineering

Table 3.2: Summary of Hydraulic Conductivity Test Results

Well Identification	Well Type	Hvorslev (cm/sec) FHT	Hvorslev (cm/sec) RHT	Bouwer-Rice (cm/sec) FHT	Bouwer-Rice (cm/sec) RHT	Geometric mean (cm/sec)	K values (ft/day)	V = Ki/n (ft/day)	V (ft/year)	Geometric mean	=V (ft/year)
MW-14D	Bedrock		0.011		0.009	0.0098	27.8	5.0	1826	962	
MW-15D	Bedrock	0.009	0.011	0.006	0.008	0.0084	23.8	4.3	1564	Bedrock	
MW-17D	Bedrock	0.003	0.002	0.002	0.002	0.0020	5.6	1.0	371		
MW-18D	Bedrock	0.004	0.004	0.003	0.003	0.0031	8.8	1.6	577		
MW-19D	Bedrock	0.009	0.008	0.007	0.006	0.0072	20.5	3.7	1348		
MW-14	Overburden	0.002	0.001	0.002	0.001	0.0011	3.2	0.0	16	50	
MW-17	Overburden		0.010		0.005	0.0071	20.1	0.3	103	Overburden	
MW-18	Overburden	0.002	0.002	0.001	0.001	0.0014	4.1	0.1	21		
MW-19	Overburden		0.015		0.009	0.0119	33.7	0.5	172		

Well Identification	Well Type	Butler (ft/day) FHT	Butler (ft/day) RHT	Springer-Gelhar (ft/day) FHT	Springer-Gelhar (ft/day) RHT	Geometric mean K value (ft/day)	V = Ki/n (ft/day)
MW-13DD	Bedrock	169.6	170.1	126.9	138.8	150.1	35.0

FHT = Falling Head Slug Test

RHT = Rising Head Slug Test

cm/sec = centimeter per second

ft/day = feet per day

ft/year = feet per year

K = hydraulic conductivity

V = velocity (in either ft/day or ft/year)

i = hydraulic gradient (feet per foot); hydraulic gradient calculated at .009 feet per foot for the bedrock wells and .0035 feet per foot for the overburden wells.

n = porosity, using assumed porosity of 0.03 for the deep bedrock well, 0.05 for the bedrock wells, and 0.25 for the overburden wells.

slug testing conducted in 2008

Table 4.1: Source Area Soil VOC Results

Parameter	Criteria	GS-001		GS-001		GS-001		GS-002		GS-003		GS-003	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.68	12	J	0.56	U	17	U	0.5	U	0.5	U	0.46	U
1,1,2-Trichloroethane	NA	26	U	0.56	U	17	U	0.5	U	0.5	U	0.46	U
1,1-Dichloroethane	0.27	26	U	0.61	J	17	U	0.15	J	0.051	J	0.043	J
1,1-Dichloroethene	0.33	26	U	0.34	J	17	U	0.15	J	0.5	U	0.46	U
1,2,4-Trichlorobenzene	NA	26	UJ	0.56	UJ	17	UJ	0.5	UJ	0.5	UJ	0.46	UJ
Acetic acid, methyl ester	NA	52	U	0.11	J	34	U	0.99	U	0.068	J	0.92	U
Acetone	0.05	100	U	0.71	J	69	U	2	U	2	U	1.8	U
Carbon disulfide	NA	52	U	1.1	U	34	U	0.99	U	0.05	J	0.92	U
Chloroethane	NA	52	U	1.1	U	34	U	0.99	U	1	U	0.92	U
Cis-1,2-Dichloroethene	0.25	110	J	23	JD	27	J	59	D	0.5	U	6.2	J
Cyclohexane	NA	26	U	0.56	U	17	U	0.5	U	0.073	J	0.46	U
Ethyl benzene	1	26	U	0.56	U	17	U	0.5	U	0.041	J	0.46	U
Isopropylbenzene	NA	26	U	0.56	U	17	U	0.5	U	0.5	U	0.46	U
Methyl cyclohexane	NA	26	U	0.56	U	17	U	0.5	U	0.5	U	0.46	U
Tetrachloroethene	1.3	17	J	1.2	J	17	U	1.3	J	0.5	U	0.12	J
Toluene	0.7	26	U	0.56	U	17	U	0.039	J	0.058	J	0.044	J
trans-1,2-Dichloroethene	0.19	26	U	0.56	U	17	U	0.16	J	0.5	U	0.097	J
Trichloroethene	0.47	2200	D	390	D	380	J	90	D	0.5	U	2.7	J
Vinyl chloride	0.02	5.6	J	1.4	J	17	U	2.9	J	0.5	U	1.7	J
Xylene, m/p	0.26	26	U	0.56	U	17	U	0.5	U	0.5	U	0.46	U
Xylene, o	0.26	26	U	0.56	U	17	U	0.5	U	0.061	J	0.46	U
Total Organic Carbon	NA	1700	J					865	J			1320	J
Percent Solids	NA	82.6	J	85.4	J	86.4	J	87.1	J	82.4	J	85.9	J

Notes:

Results in milligrams per kilogram (mg/Kg)
 Depth in feet below ground surface
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:

FS = Field Sample
 FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit
 J = Estimated value
 D = Result from dilution run
 B = analyte detected in blank (see* below)

Criteria - 6 NYCRR 375 Soil Cleanup Objectives for unrestricted use.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

* =sample result as reported by NYSDEC laboratory (sample not validated)

- for this sample NA = not analyzed

Table 4.1: Source Area Soil VOC Results

Parameter	Criteria	GS-004		GS-004		GS-005		GS-006		GS-006		GS-007	
		7/7/2008		7/7/2008		7/7/2008		7/7/2008		7/7/2008		7/7/2008	
		828072-GS004006		828072-GS004011		828072-GS005011		828072-GS006007		828072-GS006011		828072-GS007010	
		006		011		011		007		011		010	
		FS		FS		FS		FS		FS		FS	
Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.68	5	U	4.9	U	8.7	U	9	U	3.8	U	0.58	U
1,1,2-Trichloroethane	NA	5	U	4.9	U	8.7	U	9	U	3.8	U	0.58	U
1,1-Dichloroethane	0.27	5	U	0.41	J	8.7	U	9	U	3.8	U	0.58	U
1,1-Dichloroethene	0.33	5	U	0.58	J	8.7	U	9	U	3.8	U	0.58	U
1,2,4-Trichlorobenzene	NA	5	UJ	4.9	UJ	8.7	UJ	9	UJ	3.8	UJ	0.58	UJ
Acetic acid, methyl ester	NA	10	U	9.8	U	17	U	18	U	7.5	U	1.2	U
Acetone	0.05	20	U	20	U	35	U	36	U	15	U	2.3	U
Carbon disulfide	NA	10	U	9.8	U	17	U	18	U	7.5	U	1.2	U
Chloroethane	NA	10	U	9.8	U	17	U	18	U	7.5	U	1.2	U
Cis-1,2-Dichloroethene	0.25	120		65		17		24	D	42		11	
Cyclohexane	NA	5	U	4.9	U	8.7	U	9	U	3.8	U	0.58	U
Ethyl benzene	1	5	U	4.9	U	8.7	U	9	U	3.8	U	0.58	U
Isopropylbenzene	NA	5	U	4.9	U	8.7	U	9	U	3.8	U	0.58	U
Methyl cyclohexane	NA	5	U	4.9	U	8.7	U	9	U	3.8	U	0.58	U
Tetrachloroethene	1.3	5	U	4.9	U	1.1	J	5.6	JD	3.8	U	0.58	U
Toluene	0.7	5	U	4.9	U	8.7	U	9	U	3.8	U	0.58	U
trans-1,2-Dichloroethene	0.19	5	U	4.9	U	8.7	U	9	U	3.8	U	0.081	J
Trichloroethene	0.47	32		160		290		190	D	78		50	D
Vinyl chloride	0.02	8.2		2.6	J	1.1	J	2.5	JD	2.9	J	0.42	J
Xylene, m/p	0.26	5	U	4.9	U	8.7	U	9	U	3.8	U	0.58	U
Xylene, o	0.26	5	U	4.9	U	8.7	U	9	U	3.8	U	0.58	U
Total Organic Carbon	NA									3800		647	
Percent Solids	NA	81.9		79.8		86		84.2		87.5		86	

Notes:

Results in milligrams per kilogram (mg/Kg)
 Depth in feet below ground surface
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:

FS = Field Sample
 FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration
 greater than the reporting limit
 J = Estimated value
 D = Result from dilution run
 B = analyte detected in blank (see* below)

Criteria - 6 NYCRR 375 Soil Cleanup Objectives
 for unrestricted use.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

* =sample result as reported by NYSDEC laboratory
 (sample not validated)

- for this sample NA = not analyzed

Table 4.1: Source Area Soil VOC Results

Parameter	Criteria	GS-008		GS-009		GS-009		GS-010		GS-011		GS-012	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Location		GS-008		GS-009		GS-009		GS-010		GS-011		GS-012	
Sample Date		7/8/2008		7/7/2008		7/7/2008		7/8/2008		7/8/2008		7/8/2008	
Sample ID		828072-GS008011		828072-GS009011		828072-GS009013		828072-GS010013		828072-GS011009		828072-GS012007	
Sample Depth		011		011		013		013		009		007	
Qc Code		FS		FS		FS		FS		FS		FS	
1,1,1-Trichloroethane	0.68	0.43	U	0.41	U	0.4	U	0.47	U	0.51	U	9.3	U
1,1,2-Trichloroethane	NA	0.43	U	0.41	U	0.4	U	0.47	U	0.51	U	9.3	U
1,1-Dichloroethane	0.27	0.43	U	0.41	U	0.4	U	0.47	U	0.51	U	9.3	U
1,1-Dichloroethene	0.33	0.43	U	0.41	U	0.4	U	0.47	U	0.51	U	9.3	U
1,2,4-Trichlorobenzene	NA	0.43	UJ	0.41	UJ	0.4	UJ	0.47	UJ	0.51	UJ	9.3	UJ
Acetic acid, methyl ester	NA	0.87	U	0.82	U	0.81	U	0.94	U	1	U	19	U
Acetone	0.05	1.7	U	1.6	U	1.6	U	1.9	U	2	U	37	U
Carbon disulfide	NA	0.87	U	0.82	U	0.81	U	0.94	U	1	U	19	U
Chloroethane	NA	0.87	U	0.82	U	0.81	U	0.94	U	1	U	19	U
Cis-1,2-Dichloroethene	0.25	9.2		4.3		4.6		0.97		3.5		4.1	J
Cyclohexane	NA	0.43	U	0.41	U	0.4	U	0.47	U	0.51	U	9.3	U
Ethyl benzene	1	0.43	U	0.41	U	0.4	U	0.47	U	0.51	U	9.3	U
Isopropylbenzene	NA	0.43	U	0.41	U	0.4	U	0.47	U	0.51	U	9.3	U
Methyl cyclohexane	NA	0.43	UJ	0.41	U	0.4	U	0.47	UJ	0.51	UJ	9.3	U
Tetrachloroethene	1.3	0.43	U	0.41	U	0.52		0.47	U	0.51	U	9.3	U
Toluene	0.7	0.43	U	0.41	U	0.4	U	0.47	U	0.51	U	9.3	U
trans-1,2-Dichloroethene	0.19	0.43	U	0.089	J	0.4	U	0.47	U	0.51	U	9.3	U
Trichloroethene	0.47	0.4	J	0.27	J	140	D	0.43	J	72	D	240	
Vinyl chloride	0.02	3.1	J	2.2		1.8		0.49	J	0.12	J	9.3	U
Xylene, m/p	0.26	0.43	U	0.41	U	0.4	U	0.47	U	0.51	U	9.3	U
Xylene, o	0.26	0.43	U	0.41	U	0.4	U	0.47	U	0.51	U	9.3	U
Total Organic Carbon	NA	4410											
Percent Solids	NA	84.1		88		87.2		87		79.7		83.9	

Notes:

Results in milligrams per kilogram (mg/Kg)
 Depth in feet below ground surface
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:

FS = Field Sample
 FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit
 J = Estimated value
 D = Result from dilution run
 B = analyte detected in blank (see* below)

Criteria - 6 NYCRR 375 Soil Cleanup Objectives for unrestricted use.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

* =sample result as reported by NYSDEC laboratory (sample not validated)

- for this sample NA = not analyzed

Table 4.1: Source Area Soil VOC Results

Parameter	Criteria	GS-012		GS-014		GS-014		GS-015		GS-016		GS-017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.68	0.42	U	44	U	0.81	U	45	U	45	U	0.43	UJ
1,1,2-Trichloroethane	NA	0.42	U	44	U	0.81	U	45	U	45	U	0.43	UJ
1,1-Dichloroethane	0.27	0.42	U	44	U	0.81	U	45	U	45	U	0.43	UJ
1,1-Dichloroethene	0.33	0.42	U	44	U	0.81	U	45	U	45	U	0.43	UJ
1,2,4-Trichlorobenzene	NA	0.42	UJ	44	UJ	0.81	UJ	45	UJ	45	UJ	0.43	UJ
Acetic acid, methyl ester	NA	0.84	U	88	U	1.6	U	90	U	89	U	1	J
Acetone	0.05	1.7	U	180	U	3.2	U	180	U	180	U	0.37	J
Carbon disulfide	NA	0.84	U	88	U	1.6	U	90	U	89	U	0.033	J
Chloroethane	NA	0.84	U	88	U	1.6	U	90	U	89	U	0.86	UJ
Cis-1,2-Dichloroethene	0.25	1.1	J	68	J	15	J	8.6	J	32	JD	0.43	UJ
Cyclohexane	NA	0.42	U	44	U	0.81	U	45	U	45	U	0.43	UJ
Ethyl benzene	1	0.42	U	44	U	0.81	U	45	U	45	U	0.037	J
Isopropylbenzene	NA	0.42	U	44	U	0.81	U	45	U	45	U	0.43	UJ
Methyl cyclohexane	NA	0.42	UJ	44	U	0.81	UJ	45	U	45	U	0.43	UJ
Tetrachloroethene	1.3	0.42	U	44	U	0.81	U	45	U	45	U	0.43	UJ
Toluene	0.7	0.42	U	44	U	0.81	U	45	U	45	U	0.057	J
trans-1,2-Dichloroethene	0.19	0.42	U	44	U	0.81	U	45	U	45	U	0.43	UJ
Trichloroethene	0.47	22	D	1300	D	87	D	1100	D	1000	D	0.43	UJ
Vinyl chloride	0.02	0.074	J	44	U	0.11	J	45	U	45	U	0.43	UJ
Xylene, m/p	0.26	0.42	U	44	U	0.81	U	45	U	45	U	0.098	J
Xylene, o	0.26	0.42	U	44	U	0.81	U	45	U	45	U	0.047	J
Total Organic Carbon	NA												
Percent Solids	NA	87		84.1		87.5		86.5		84		49.1	

Notes:

Results in milligrams per kilogram (mg/Kg)
 Depth in feet below ground surface
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:

FS = Field Sample
 FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit
 J = Estimated value
 D = Result from dilution run
 B = analyte detected in blank (see* below)

Criteria - 6 NYCRR 375 Soil Cleanup Objectives for unrestricted use.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

* =sample result as reported by NYSDEC laboratory (sample not validated)

- for this sample NA = not analyzed

Table 4.1: Source Area Soil VOC Results

Location		GS-018		GS-019		GS-020		GS-021		GS-022		GS-023	
Sample Date		9/22/2008		9/22/2008		9/22/2008		9/22/2008		9/22/2008		9/22/2008	
Sample ID		828072-GS018002		828072-GS019009		828072-GS020012		828072-GS021010		828072-GS022002		828072-GS023011	
Sample Depth		002		009		012		010		002		011	
Qc Code		FS		FS		FS		FS		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.68	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
1,1,2-Trichloroethane	NA	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
1,1-Dichloroethane	0.27	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
1,1-Dichloroethene	0.33	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
1,2,4-Trichlorobenzene	NA	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
Acetic acid, methyl ester	NA	0.61		0.015	J	0.23	U	0.011	J	0.4		0.31	U
Acetone	0.05	0.18	J	0.66	U	0.47	U	0.35	U	0.13	J	0.63	U
Carbon disulfide	NA	0.42	U	0.33	U	0.23	U	0.18	U	0.34	U	0.31	U
Chloroethane	NA	0.42	U	0.33	UJ	0.23	UJ	0.18	UJ	0.34	U	0.31	UJ
Cis-1,2-Dichloroethene	0.25	0.21	U	6.1		0.12	U	0.36		0.082	J	0.16	U
Cyclohexane	NA	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
Ethyl benzene	1	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
Isopropylbenzene	NA	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
Methyl cyclohexane	NA	0.21	UJ	0.17	U	0.12	U	0.088	U	0.17	UJ	0.16	U
Tetrachloroethene	1.3	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
Toluene	0.7	0.06	J	0.17	U	0.12	U	0.0087	J	0.23		0.16	U
trans-1,2-Dichloroethene	0.19	0.21	U	0.1	J	0.12	U	0.088	U	0.17	U	0.16	U
Trichloroethene	0.47	0.21	U	3.7		0.12	U	0.088	U	0.17	U	0.16	U
Vinyl chloride	0.02	0.21	U	0.48		0.12	U	0.12		0.023	J	0.16	U
Xylene, m/p	0.26	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
Xylene, o	0.26	0.21	U	0.17	U	0.12	U	0.088	U	0.17	U	0.16	U
Total Organic Carbon	NA												
Percent Solids	NA	71.7		80.7		86.9		88.7		75.2		85.5	

Notes:

Results in milligrams per kilogram (mg/Kg)
 Depth in feet below ground surface
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:

FS = Field Sample
 FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit
 J = Estimated value
 D = Result from dilution run
 B = analyte detected in blank (see* below)

Criteria - 6 NYCRR 375 Soil Cleanup Objectives for unrestricted use.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

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- for this sample NA = not analyzed

Table 4.1: Source Area Soil VOC Results

Parameter	Criteria	GS-024		GS-025		GS-025		GS-025		GS-026		GS-027	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Location		GS-024		GS-025		GS-025		GS-025		GS-026		GS-027	
Sample Date		9/22/2008		9/23/2008		9/23/2008		9/23/2008		9/23/2008		9/23/2008	
Sample ID		828072-GS024010		828072-GS025009		828072-GS025009D		828072-GS025012		828072-GS026012		828072-GS027010	
Sample Depth		010		009		009		012		012		010	
Qc Code		FS		FS		FD		FS		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.68	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
1,1,2-Trichloroethane	NA	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
1,1-Dichloroethane	0.27	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
1,1-Dichloroethene	0.33	0.023	J	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
1,2,4-Trichlorobenzene	NA	0.12	U	0.15	U	0.1	J	0.082	U	0.12	U	0.19	U
Acetic acid, methyl ester	NA	0.024	J	0.29	U	0.4	U	0.16	U	0.24	U	0.023	J
Acetone	0.05	0.48	U	0.59	U	0.8	U	0.33	U	0.48	U	0.76	U
Carbon disulfide	NA	0.24	U	0.29	U	0.4	U	0.16	U	0.24	U	0.38	U
Chloroethane	NA	0.24	UJ	0.29	U	0.4	UJ	0.16	UJ	0.24	UJ	0.38	U
Cis-1,2-Dichloroethene	0.25	1.5		0.33		0.47		2.6		0.6		0.5	
Cyclohexane	NA	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
Ethyl benzene	1	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
Isopropylbenzene	NA	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
Methyl cyclohexane	NA	0.12	U	0.15	UJ	0.2	U	0.082	U	0.12	U	0.19	UJ
Tetrachloroethene	1.3	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
Toluene	0.7	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
trans-1,2-Dichloroethene	0.19	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
Trichloroethene	0.47	100	D	0.15	U	0.2	U	26	D	16	D	26	D
Vinyl chloride	0.02	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.036	J
Xylene, m/p	0.26	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
Xylene, o	0.26	0.12	U	0.15	U	0.2	U	0.082	U	0.12	U	0.19	U
Total Organic Carbon	NA												
Percent Solids	NA	79.9		80		78.9		86.2		87.9		78.3	

Notes:

Results in milligrams per kilogram (mg/Kg)
 Depth in feet below ground surface
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:

FS = Field Sample
 FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration
 greater than the reporting limit
 J = Estimated value
 D = Result from dilution run
 B = analyte detected in blank (see* below)

Criteria - 6 NYCRR 375 Soil Cleanup Objectives
 for unrestricted use.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

* =sample result as reported by NYSDEC laboratory
 (sample not validated)

- for this sample NA = not analyzed

Table 4.1: Source Area Soil VOC Results

Parameter	Criteria	GS-028		GS-029		GS-030		GS-031		GS-032		GS-032	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Location		GS-028		GS-029		GS-030		GS-031		GS-032		GS-032	
Sample Date		9/23/2008		9/23/2008		9/23/2008		9/23/2008		9/23/2008		9/23/2008	
Sample ID		828072-GS028008		828072-GS029009		828072-GS030012		828072-GS031012		828072-GS032007		828072-GS032007D	
Sample Depth		008		009		012		012		007		007	
Qc Code		FS		FS		FS		FS		FS		FD	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.68	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
1,1,2-Trichloroethane	NA	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
1,1-Dichloroethane	0.27	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
1,1-Dichloroethene	0.33	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
1,2,4-Trichlorobenzene	NA	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
Acetic acid, methyl ester	NA	0.41	U	0.41	U	0.27	U	0.31	U	0.6	U	0.62	U
Acetone	0.05	0.83	U	0.82	U	0.53	U	0.62	U	0.31	U	1.2	U
Carbon disulfide	NA	0.41	U	0.41	U	0.27	U	0.31	U	0.6	U	0.62	U
Chloroethane	NA	0.41	U	0.41	U	0.27	UJ	0.31	UJ	0.6	U	0.62	UJ
Cis-1,2-Dichloroethene	0.25	1		0.073	J	0.044	J	0.2		3.9		3.5	
Cyclohexane	NA	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
Ethyl benzene	1	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
Isopropylbenzene	NA	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
Methyl cyclohexane	NA	0.21	UJ	0.2	UJ	0.13	U	0.15	U	0.3	U	0.31	U
Tetrachloroethene	1.3	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
Toluene	0.7	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
trans-1,2-Dichloroethene	0.19	0.21	U	0.2	U	0.13	U	0.15	U	0.13	J	0.12	J
Trichloroethene	0.47	3.1		4.7		0.086	J	0.15	UJ	3.5		3.1	J
Vinyl chloride	0.02	0.046	J	0.2	U	0.13	U	0.05	J	0.32		0.29	J
Xylene, m/p	0.26	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
Xylene, o	0.26	0.21	U	0.2	U	0.13	U	0.15	U	0.3	U	0.31	U
Total Organic Carbon	NA												
Percent Solids	NA	81.3		80.3		87.9		86.7		81.7		79.9	

Notes:

Results in milligrams per kilogram (mg/Kg)
 Depth in feet below ground surface
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:

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Qualifiers:

U = Not detected at a concentration greater than the reporting limit
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Detections are indicated in **BOLD**

Highlighted results exceed criteria

* =sample result as reported by NYSDEC laboratory (sample not validated)

- for this sample NA = not analyzed

Table 4.1: Source Area Soil VOC Results

Parameter	Criteria	GS-033		GS-034		GS-034		GS-035		GS-036		GS-036	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Location		GS-033		GS-034		GS-034		GS-035		GS-036		GS-036	
Sample Date		9/23/2008		9/23/2008		9/23/2008		9/23/2008		9/23/2008		9/23/2008	
Sample ID		828072-GS033012		828072-GS034003		828072-GS034006		828072-GS035009		828072-GS036005		828072-GS036012	
Sample Depth		012		003		006		009		005		012	
Qc Code		FS		FS		FS		FS		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.68	0.18	U	0.14	U	0.25	UJ	0.31	U	0.18	U	8.6	U
1,1,2-Trichloroethane	NA	0.18	U	0.14	U	0.25	UJ	0.31	U	0.18	U	8.6	U
1,1-Dichloroethane	0.27	0.18	U	0.14	U	0.25	UJ	0.31	U	0.18	U	8.6	U
1,1-Dichloroethene	0.33	0.18	U	0.14	U	0.25	UJ	0.31	U	0.18	U	8.6	U
1,2,4-Trichlorobenzene	NA	0.18	U	0.14	U	0.25	UJ	0.31	U	0.18	U	8.6	U
Acetic acid, methyl ester	NA	0.36	U	0.28	U	0.5	U	0.63	U	0.37	U	17	U
Acetone	0.05	0.73	U	0.55	U	0.99	UJ	0.31	U	0.12	U	6.3	U
Carbon disulfide	NA	0.36	U	0.28	U	0.5	UJ	0.63	U	0.37	U	17	U
Chloroethane	NA	0.36	UJ	0.28	U	0.5	UJ	0.63	U	0.37	U	17	U
Cis-1,2-Dichloroethene	0.25	0.57		0.91		2.2	J	0.31	U	0.5		3.8	J
Cyclohexane	NA	0.18	U	0.14	U	0.25	UJ	0.31	U	0.18	U	8.6	U
Ethyl benzene	1	0.18	U	0.14	U	0.25	UJ	0.31	U	0.18	U	8.6	U
Isopropylbenzene	NA	0.18	U	0.14	U	0.25	U	0.31	U	0.18	U	8.6	U
Methyl cyclohexane	NA	0.18	U	0.14	UJ	0.25	UJ	0.31	U	0.18	U	8.6	U
Tetrachloroethene	1.3	0.18	U	0.14	U	0.25	UJ	0.31	U	0.18	U	8.6	U
Toluene	0.7	0.18	U	0.14	U	0.25	UJ	0.31	U	0.18	U	8.6	U
trans-1,2-Dichloroethene	0.19	0.18	U	0.14	U	0.029	J	0.31	U	0.18	U	8.6	U
Trichloroethene	0.47	3.8	J	0.14	U	2	J	0.31	U	2.4		220	
Vinyl chloride	0.02	0.18	U	0.083	J	0.25	UJ	0.31	U	0.18	U	8.6	U
Xylene, m/p	0.26	0.18	U	0.14	U	0.25	U	0.31	U	0.18	U	8.6	U
Xylene, o	0.26	0.18	U	0.14	U	0.25	U	0.31	U	0.18	U	8.6	U
Total Organic Carbon	NA												
Percent Solids	NA	87.9		84.3		83.5		78		81.8		89	

Notes:

Results in milligrams per kilogram (mg/Kg)
 Depth in feet below ground surface
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:

FS = Field Sample
 FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration
 greater than the reporting limit
 J = Estimated value
 D = Result from dilution run
 B = analyte detected in blank (see* below)

Criteria - 6 NYCRR 375 Soil Cleanup Objectives
 for unrestricted use.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

* =sample result as reported by NYSDEC laboratory
 (sample not validated)

- for this sample NA = not analyzed

Table 4.1: Source Area Soil VOC Results

Location		GS-037		GS-037*		GS-039		GS-040		GS-041		GS-043	
Sample Date		9/24/2008		9/24/2008		9/24/2008		9/24/2008		9/24/2008		3/9/2009	
Sample ID		828072-GS037003		GS-37 9'-10'		828072-GS039008		828072-GS040002		828072-GS041005		828072-GS043008	
Sample Depth		003		009		008		002		005		008	
Qc Code		FS		FS		FS		FS		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	0.68	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.025	J
1,1,2-Trichloroethane	NA	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.11	U
1,1-Dichloroethane	0.27	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.11	U
1,1-Dichloroethene	0.33	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.11	U
1,2,4-Trichlorobenzene	NA	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.11	U
Acetic acid, methyl ester	NA	2.5	U	NA		42	U	0.44	U	0.39	U	0.15	J
Acetone	0.05	1.2	U	0.019	B	17	U	0.23	U	0.15	U	0.42	UJ
Carbon disulfide	NA	2.5	U	0.002	J	42	U	0.44	U	0.39	U	0.21	UJ
Chloroethane	NA	2.5	U	0.016	U	42	U	0.44	U	0.39	U	0.11	U
Cis-1,2-Dichloroethene	0.25	3.9		0.14		21	U	1.1		1.2		0.63	
Cyclohexane	NA	1.2	U	NA		21	U	0.22	U	0.2	U	0.21	U
Ethyl benzene	1	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.11	U
Isopropylbenzene	NA	1.2	U	NA		21	U	0.22	U	0.2	U	0.11	U
Methyl cyclohexane	NA	1.2	U	NA		21	U	0.22	U	0.2	U	0.21	U
Tetrachloroethene	1.3	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.13	
Toluene	0.7	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.11	U
trans-1,2-Dichloroethene	0.19	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.081	J
Trichloroethene	0.47	36		34		650		5.5		0.91		7.7	DJ
Vinyl chloride	0.02	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.055	J
Xylene, m/p	0.26	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.11	U
Xylene, o	0.26	1.2	U	0.016	U	21	U	0.22	U	0.2	U	0.11	U
Total Organic Carbon	NA												
Percent Solids	NA	81.3		81.5		83		83.1		82.2			

Notes:

Results in milligrams per kilogram (mg/Kg)
 Depth in feet below ground surface
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:

FS = Field Sample
 FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit
 J = Estimated value
 D = Result from dilution run
 B = analyte detected in blank (see* below)
 Criteria - 6 NYCRR 375 Soil Cleanup Objectives for unrestricted use.
 Detections are indicated in **BOLD**

Highlighted results exceed criteria

* =sample result as reported by NYSDEC laboratory (sample not validated)
 - for this sample NA = not analyzed

Table 4.1: Source Area Soil VOC Results

Parameter	Criteria	GS-044		GS-045		GS-045		GS-047		GS-047		GS-048	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Location		GS-044		GS-045		GS-045		GS-047		GS-047		GS-048	
Sample Date		3/9/2009		3/9/2009		3/9/2009		3/10/2009		3/10/2009		3/10/2009	
Sample ID		828072-GS044004		828072-GS045008		828072-GS045012		828072-GS047004		828072-GS047010		828072-GS048008	
Sample Depth		004		008		012		004		010		008	
Qc Code		FS		FS		FS		FS		FS		FS	
1,1,1-Trichloroethane	0.68	0.24 U		0.25 U		2.4 U		1		3		0.017 J	
1,1,2-Trichloroethane	NA	0.24 U		0.25 U		2.4 U		0.22 U		0.16 U		0.021 J	
1,1-Dichloroethane	0.27	0.24 U		0.072 J		2.4 U		0.19 J		0.89		0.094 J	
1,1-Dichloroethene	0.33	0.24 U		0.043 J		2.4 U		0.22 U		0.16 U		0.1 J	
1,2,4-Trichlorobenzene	NA	0.24 U		0.25 U		2.4 U		0.22 U		0.16 U		0.16 U	
Acetic acid, methyl ester	NA	0.48 U		0.034 J		4.9 U		0.13 J		0.057 J		0.32 U	
Acetone	0.05	0.97 U		1 UJ		9.7 UJ		0.87 UJ		0.62 UJ		0.64 UJ	
Carbon disulfide	NA	0.48 U		0.5 UJ		4.9 UJ		0.43 UJ		0.31 UJ		0.32 UJ	
Chloroethane	NA	0.24 U		0.25 U		2.4 U		0.22 U		0.014 J		0.16 U	
Cis-1,2-Dichloroethene	0.25	0.15 J		30 DJ		46		2.3		0.018 J		44 DJ	
Cyclohexane	NA	0.48 U		0.5 U		4.9 U		0.43 U		0.31 U		0.32 U	
Ethyl benzene	1	0.24 U		0.25 U		2.4 U		0.22 U		0.022 J		0.16 U	
Isopropylbenzene	NA	0.24 U		0.25 U		2.4 U		0.092 J		0.073 J		0.16 U	
Methyl cyclohexane	NA	0.48 U		0.5 U		4.9 U		0.036 J		0.023 J		0.32 U	
Tetrachloroethene	1.3	0.24 U		0.25 U		1.1 J		0.22 U		0.16 U		1.6	
Toluene	0.7	0.24 U		0.25 U		2.4 U		0.22 U		0.079 J		0.16 U	
trans-1,2-Dichloroethene	0.19	0.24 U		0.078 J		2.4 U		0.25		0.018 J		0.11 J	
Trichloroethene	0.47	0.32		0.8		150 DJ		0.26		0.042 J		23 DJ	
Vinyl chloride	0.02	0.24 U		5		1.7 J		0.94		0.16 U		2.8	
Xylene, m/p	0.26	0.24 U		0.25 U		2.4 U		0.19 J		0.16 J		0.16 U	
Xylene, o	0.26	0.24 U		0.25 U		2.4 U		0.18 J		0.13 J		0.16 U	
Total Organic Carbon	NA												
Percent Solids	NA	93.2		84.6		81		77.9		85.5		84.6	

Notes:

Results in milligrams per kilogram (mg/Kg)

Depth in feet below ground surface

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

D = Result from dilution run

B = analyte detected in blank (see* below)

Criteria - 6 NYCRR 375 Soil Cleanup Objectives for unrestricted use.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

* =sample result as reported by NYSDEC laboratory (sample not validated)

- for this sample NA = not analyzed

Table 4.2: PID Readings and TCE Soil Results

Date	7/7/08		7/7/08		7/7/08		7/7/08		7/7/08		7/7/08		7/7/08	
Boring ID	GS-001		GS-002		GS-003		GS-004		GS-005		GS-006		GS-007	
Depth (ft bgs)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)
0														
1	< 1		< 1		< 1		< 1		< 1		19		< 1	
2							< 1							
3							3		< 1		42			
4	800		1.1		< 1		25		9		60		20	
5	2500	2200			30		220		340		500			
6						ND	368	32	203				300	
7	500				1				190		730	190		
8			20		1		185		170		200		100	
9							261		195		150			
10							233		240		50		250	50
11	1800	390	100	90	4	2.7	205	160	380	290	200	78		
12									900					
13	1000		30				250				300		250	
14														
	BOB-14.5'		BOB-14.5'		BOB-15'		BOB-14'		BOB-13.8'		BOB-14.2'		BOB-14.0'	

Notes:

ft bgs = feet below ground surface

Result = photoionization detector (Thermo 580B) readings in parts per million (ppm)

* = photoionization detector = MiniRae ppb

TCE = trichloroethene results from USEPA Method 8260 analyzed by Columbia Analytical, Rochester, NY

mg/Kg = milligrams per kilogram

BOB = bottom of boring depth (feet below ground surface)

Bottom of boring was Geoprobe refusal, with the exception of GS-17, GS-18, GS-22, GS-40, and GS-42 to GS-48.

ND = not detected

Table 4.2: PID Readings and TCE Soil Results

MACTEC Engineering and Consulting, P.C., 3612072094

Date	7/8/08		7/8/08		7/8/08		7/8/08		7/8/08		7/8/08		7/8/08	
Boring ID	GS-008		GS-009		GS-010		GS-011		GS-012		GS-014		GS-015	
Depth (ft bgs)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)
0														
1	< 1		< 1		< 1		< 1		< 1		< 1		< 1	
2														
3							< 1		10					
4	30		< 1		< 1		2.2		100		900		350	
5			1.5		1.5				50		2200		500	
6	46		3.7				3.5		500		2400	1300	2600	
7	35		13.1		3		1.2		900	240	2200		2200	1100
8	15		5		2.5				800		800		600	
9							63	72	100		1000		500	
10			10		14		30		100		600		250	
11	35	0.4	7-100	0.27	30		6		50		200		150	
12	150		2000						100	22	250		80	
13	250		1000	140	1.5	0.43			50		150	87	70	
14														
	BOB-13.8'		BOB-14.0'		BOB-14.0'		BOB-13.0'		BOB-13.5'		BOB-14.0'		BOB-13.0'	

Table 4.2: PID Readings and TCE Soil Results

MACTEC Engineering and Consulting, P.C., 3612072094

Date	7/8/08		9/22/08		9/22/08		9/22/08		9/22/08		9/22/08		9/22/08	
Boring ID	GS-016		GS-17		GS-18		GS-19		GS-20		GS-21		GS-22	
Depth (ft bgs)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)
0			0.1		< 1		< 1		< 1		< 1		< 1	
1	< 1		0.1		< 1		3.1		< 1		< 1		< 1	
2			0.1	ND	< 1	ND	0.1		< 1		< 1		< 1	ND
3			0.1		< 1		0.1		< 1		< 1		< 1	
4	2000						0.4		< 1		< 1			
5	2200						0.7		< 1		< 1			
6	2000	1000					0.7		< 1		< 1			
7	1800						0.1		< 1		< 1			
8	2000						0.1		< 1		< 1			
9	2500						10.6	3.7	< 1		< 1			
10	1800						2.4		< 1		< 1	ND		
11	200						3.2		< 1		< 1			
12	150						4.5		< 1	ND	< 1			
13	80								< 1		< 1			
14											< 1			
	BOB-13.0'		BOB-4.0'		BOB-4.0'		BOB-13.0'		BOB-13.2'		BOB-15.0'		BOB-4.0'	

Table 4.2: PID Readings and TCE Soil Results

MACTEC Engineering and Consulting, P.C., 3612072094

Date	9/22/08		9/22/08		9/23/08		9/23/08		9/23/08		9/23/08		9/23/08	
Boring ID	GS-23		GS-24		GS-25		GS-26		GS-27		GS-28		GS-29	
Depth (ft bgs)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)
0	< 1		< 1		0.3		< 1		< 1		< 1		< 1	
1	3.6		< 1		< 1		< 1		< 1		< 1		< 1	
2	< 1		< 1		< 1		< 1		< 1		< 1		< 1	
3	< 1		6.5		< 1		< 1		< 1		< 1		< 1	
4	< 1		8.4		0.3		< 1		0.3		< 1		< 1	
5	< 1		14.8		< 1		< 1		2.1		0.3		< 1	
6	< 1		23.1		< 1		< 1		1.8		0.6		< 1	
7	< 1		8		0.3		< 1		0.8		1.7		0.3	
8	< 1		65		< 1		< 1		6.8		0.8	3.1	4.1	
9	< 1		238		< 1	ND	< 1		24		3.1		6.8	4.7
10	< 1		160	100	< 1		< 1		21	26	1		2.1	
11	< 1	ND	140		4.6		6.7		2.7		< 1		< 1	
12	< 1		60		3.6	26	23	16	6.8		< 1		< 1	
13	< 1				108		18		2.1		< 1		< 1	
14														
	BOB-13.2'		BOB-13.0'		BOB-13.2'		BOB-13.8'		BOB-13.6'		BOB-13.8'		BOB-13.6'	

Table 4.2: PID Readings and TCE Soil Results

MACTEC Engineering and Consulting, P.C., 3612072094

Date	9/23/08		9/23/08		9/23/08		9/23/08		9/23/08		9/23/08		9/23/08	
Boring ID	GS-30		GS-31		GS-32		GS-33		GS-34		GS-35		GS-36	
Depth (ft bgs)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)
0	< 1		< 1		< 1		< 1		< 1		< 1		< 1	
1	< 1		< 1		< 1		< 1		5.1		< 1		< 1	
2	< 1		< 1		< 1		< 1		7.6		< 1		0.6	
3	< 1		< 1		< 1		< 1		0.3	ND	< 1		4.1	
4	< 1		< 1		1.4		< 1		2.1		< 1		7.6	
5	< 1		< 1		4.9		< 1		1.9		< 1		13.4	2.4
6	< 1		< 1		3.6		< 1		3.1	2	< 1		27	
7	< 1		< 1		7.7	3.5	< 1		1.9		< 1		141	
8	< 1		0.6		1.8		< 1		3		< 1		34	
9	< 1		0.3		1.2		< 1		2.4		< 1	ND	119	
10	< 1		< 1		0.3		< 1		1.8		< 1		208	
11	< 1		< 1		< 1		< 1		< 1		< 1		730	
12	< 1	0.086	0.3	ND	< 1		< 1	3.8	< 1		< 1		1880	220
13	< 1						1.5		< 1				190	
14														
	BOB-13.6'		BOB-13.0'		BOB-13.0'		BOB-13.8'		BOB-14.0'		BOB-13.0'		BOB-13.8'	

Table 4.2: PID Readings and TCE Soil Results

MACTEC Engineering and Consulting, P.C., 3612072094

Date	9/24/08		9/24/08		9/24/08		9/24/08		9/24/08		9/24/08	
Boring ID	GS-37		GS-38		GS-39		GS-40		GS-41		GS-42	
Depth (ft bgs)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)	Result (ppm)	TCE (mg/Kg)
0	1.8		4		2.1		4		< 1		< 1	
1	4.2		23		4.8		9		< 1		< 1	
2	15.6		105		15		56	5.5	0.6		1.3	
3	118	36	500		87		80	0.01 (DEC)	0.3		1.9	
4	370		900		180		110		2			
5	420		2400		680		113		4.1	0.9		
6	850		600		850		90		1.8			
7	2400		400		3000		2470		< 1			
8	400		450		650	650			< 1			
9	850	34 (DEC)	2200		1400				< 1			
10	2400		1500		240				< 1			
11	680		500		450				< 1			
12	400		150		900							
13												
14												
	BOB-13.0'		BOB-13.0'		BOB-13.0'		BOB-8.0'		BOB-12.0'		BOB-7.5'	

Table 4.2: PID Readings and TCE Soil Results

MACTEC Engineering and Consulting, P.C., 3612072094

Date	3/9/09		3/9/09		3/9/09		3/10/09		3/10/09		3/10/09	
Boring ID	GS-43		GS-44		GS-45		GS-46		GS-47		GS-48	
Depth (ft bgs)	Result * (ppm)	TCE (mg/Kg)	Result * (ppm)	TCE (mg/Kg)	Result * (ppm)	TCE (mg/Kg)	Result * (ppm)	TCE (mg/Kg)	Result * (ppm)	TCE (mg/Kg)	Result* (ppm)	TCE (mg/Kg)
0									< 1		< 1	
1	0.1		0.1		0.3		2		30		63	
2	0.55		0.09		1.2				35		68	
3	0.69		0.9				5		66		8	
4	3.6		0.96	0.32	0.1		6		59	0.26	1.4	
5	1.6				1.4				81		2.8	
6					0.7				125		7	
7					73	0.8			83		80	
8	5	7.7			105				15		>199	23
9					48				29		>199	
10					>199				80	0.04	>199	
11					178				12		>199	
12					>199	150			6			
13					>199				0.4			
14					31							
	BOB-7.8'		BOB-3.6'		BOB-15.2'		BOB-3.8'		BOB-12.7'		BOB-12.0'	

Table 4.3: Source Area Groundwater VOC Results

Parameter	Location	GW-001		GW-002		GW-002		GW-003		GW-004	
	Sample Date	7/7/2008		7/7/2008		7/7/2008		7/7/2008		7/7/2008	
	Sample ID	828072-GW001012		828072-GW002011		828072-GW002011D		828072-GW003011		828072-GW004012	
	Qc Code	FS		FS		FD		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	4,400		500 U		500 U		100 U		500 U	
1,1-Dichloroethane	5	620		520		550		33 J		430 J	
1,1-Dichloroethene	5	260 J		270 J		280 J		100 U		500 U	
Acetone	50*	1,200 J		5,000 U		670 J		140 U		900 J	
Benzene	1	500 U		500 U		500 U		100 U		500 U	
Chloroform	7	500 U		500 U		500 U		100 U		500 U	
Cis-1,2-Dichloroethene	5	71,000 D		180,000 D		170,000 D		5,500		87,000	
Methylene chloride	5	500 U		500 U		500 U		100 U		500 U	
Tetrachloroethene	5	2,300		680		760		100 U		500	
Toluene	5	500 U		500 U		500 U		100 U		500 U	
trans-1,2-Dichloroethene	5	280 J		420 J		480 J		100 U		500 U	
Trichloroethene	5	590,000 D		240,000 D		250,000 D		20,000		100,000 D	
Vinyl chloride	2	4,900		11,000		11,000		300		2,500	

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration
 greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Values from Technical and Operational
 Guidance Series (TOGS) 1.1.1, Ambient Water
 Quality Standards and Guidance values and
 Groundwater Effluent Limitations (NYSDEC, 1998).

Number shown is standard unless *.

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Table 4.3: Source Area Groundwater VOC Results

Parameter	Location	GW-006		GW-007		GW-008		GW-009		GW-010	
	Sample Date	7/7/2008		7/7/2008		7/8/2008		7/7/2008		7/8/2008	
	Sample ID	828072-GW006011		828072-GW007012		828072-GW008012		828072-GW009012		828072-GW010014	
	Qc Code	FS		FS		FS		FS		FS	
	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	100	U	500	U	500	U	690	J	50	U
1,1-Dichloroethane	5	120		100	J	240	J	400	J	50	U
1,1-Dichloroethene	5	58	J	500	U	500	U	1,000	U	50	U
Acetone	50*	130	U	380	J	5,000	U	10,000	U	86	U
Benzene	1	100	U	500	U	500	U	1,000	U	50	U
Chloroform	7	100	U	500	U	500	U	1,000	U	26	J
Cis-1,2-Dichloroethene	5	25,000	D	32,000		110,000	D	40,000		1,600	
Methylene chloride	5	100	U	130	J	500	U	1,000	U	50	U
Tetrachloroethene	5	510		400	J	500	U	1,000	U	82	
Toluene	5	100	U	500	U	500	U	1,000	U	50	U
trans-1,2-Dichloroethene	5	76	J	140	J	400	J	1,000	U	50	U
Trichloroethene	5	130,000	D	110,000	D	100,000	D	1,200,000	D	6,600	
Vinyl chloride	2	1,500		4,500		12,000		14,000		200	

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

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FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration
 greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Values from Technical and Operational
 Guidance Series (TOGS) 1.1.1, Ambient Water
 Quality Standards and Guidance values and
 Groundwater Effluent Limitations (NYSDEC, 1998).

Number shown is standard unless *.

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Table 4.3: Source Area Groundwater VOC Results

Parameter	Location	GW-011		GW-012		GW-013		GW-014		GW-015	
	Sample Date	7/8/2008		7/8/2008		7/8/2008		7/8/2008		7/8/2008	
	Sample ID	828072-GW011012		828072-GW012013		828072-GW013013		828072-GW014013		828072-GW015012	
	Qc Code	FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	2	U	100	U	500	U	1,000	U	500	U
1,1-Dichloroethane	5	2	U	100	U	500	U	1,000	U	500	U
1,1-Dichloroethene	5	2	U	100	U	500	U	1,000	U	500	U
Acetone	50*	11	U	1,000	U	840	J	10,000	U	720	J
Benzene	1	2	U	100	U	500	U	1,000	U	500	U
Chloroform	7	1.6	J	150		360	J	1,000	U	500	U
Cis-1,2-Dichloroethene	5	66	U	5,000		21,000		72,000		32,000	
Methylene chloride	5	2	U	100	U	500	U	1,000	U	500	U
Tetrachloroethene	5	2	U	100	U	500	U	1,000	U	500	U
Toluene	5	2	U	100	U	500	U	1,000	U	500	U
trans-1,2-Dichloroethene	5	2	U	100	U	500	U	370	J	500	U
Trichloroethene	5	260	U	16,000		51,000		180,000		77,000	
Vinyl chloride	2	63		280		300	J	740		290	J

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

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FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 1998).
 Number shown is standard unless *.

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Table 4.3: Source Area Groundwater VOC Results

Parameter	Location	GW-016		GW-025		GW-034		GW-035	
	Sample Date	7/8/2008		9/23/2008		9/23/2008		9/23/2008	
	Sample ID	828072-GW016012		828072-GW025012		828072-GW034013		828072-GW035013	
	Qc Code	FS		FS		FS		FS	
	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	500	U	1	U	1	U	1	U
1,1-Dichloroethane	5	500	U	1.3		0.93	J	1	U
1,1-Dichloroethene	5	500	U	31		1	U	1	U
Acetone	50*	5,000	U	4.2	J	4.2	J	6.3	J
Benzene	1	500	U	0.61	J	1	U	1	U
Chloroform	7	500	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	14,000		12,000	D	280	D	15	
Methylene chloride	5	500	U	1	U	1	U	1	U
Tetrachloroethene	5	500	U	1	U	1	U	1	U
Toluene	5	500	U	1.4		0.58	J	0.58	J
trans-1,2-Dichloroethene	5	500	U	55		2	J	1	U
Trichloroethene	5	92,000		44,000	D	48		45	
Vinyl chloride	2	720		40		31		0.65	J

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

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 greater than the reporting limit

J = Estimated value

D = Result from diluted run

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Quality Standards and Guidance values and

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Number shown is standard unless *.

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Table 4.4: VOCs in Groundwater - Round 1

Parameter	Location	MW-1D		MW-1DD		MW-2D		MW-3D		MW-5		MW-5D	
	Field Sample Date	1/15/2008		1/15/2008		1/14/2008		1/16/2008		1/15/2008		1/14/2008	
	Field Sample ID	828072-MW01D021		828072-MW1DD038		828072-MW02D017		828072-MW03D013		828072-MW005006		828072-MW05D010	
	QC Code	FS		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	0.34	J	1	U	1	U	0.27	J	1	U	1	U
1,1-Dichloroethane	5	1.8		1	U	1.3		1.3		0.93	J	0.71	J
1,1-Dichloroethene	5	0.95	J	1	U	1	U	0.3	J	1	U	1	U
Acetone	50*	10	U	10	U	10	U	10	U	10	U	10	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	NA	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	180		1	U	20		47		0.49	J	1	U
Cyclohexane	NA	1	U	1	U	1	U	1	U	1	U	1	U
Methyl cyclohexane	NA	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
o-Xylene	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1		1	U	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1.5		1	U	0.56	J	1.2		1	U	1	U
Trichloroethene	5	190	D	1	U	0.38	J	17		1	U	0.41	J
Vinyl chloride	2	11		1	U	1.6		5.6		0.26	J	1	U
Xylene, m/p	5	1	U	1	U	1	U	1	U	1	U	1	U

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

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FD = Field Duplicate

Qualifiers:

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 greater than the reporting limit

J = Estimated value

D = Result from dilution run

Criteria = Values from Technical and Operational

Guidance Series (TOGS) 1.1.1, Ambient Water

Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 1998).

Criteria is New York State Standard unless *

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 4.4: VOCs in Groundwater - Round 1

Parameter	Location	MW-6		MW-6D		MW-7		MW-7D		MW-8		MW-8	
	Field Sample Date	1/16/2008		1/16/2008		1/16/2008		1/16/2008		1/16/2008		1/16/2008	
	Field Sample ID	828072-MW006008		828072-MW06D015		828072-MW007015		828072-MW07D022		828072-MW008023		828072-MW008023DUP	
	QC Code	FS		FS		FS		FS		FS		FD	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1	U	0.57	J	1	U	0.45	J	10	U	5	U
1,1-Dichloroethane	5	1	U	1.5		1	U	1.3		15		15	
1,1-Dichloroethene	5	1	U	0.96	J	1	U	1	U	6	J	6	
Acetone	50*	10	U	10	U	10	U	10	U	100	U	50	U
Benzene	1	1	U	1	U	1	U	1	U	10	U	5	U
Carbon disulfide	NA	1	U	1	U	1	U	1	U	10	U	5	U
Cis-1,2-Dichloroethene	5	1.2		220	D	0.45	J	2.1		1700	D	1700	D
Cyclohexane	NA	1	U	1	U	1	U	1	U	10	U	5	U
Methyl cyclohexane	NA	1	U	1	U	1	U	1	U	10	U	5	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	10	U	5	U
o-Xylene	5	1	U	1	U	1	U	1	U	10	U	5	U
Tetrachloroethene	5	1	U	0.81	J	1	U	0.34	J	10	U	5	U
Toluene	5	1	U	1	U	1	U	1	U	10	U	5	U
trans-1,2-Dichloroethene	5	1	U	1.8		1	U	1	U	18		15	
Trichloroethene	5	1	U	310	D	1	U	4.3		870		820	
Vinyl chloride	2	1	U	16		1	U	1	U	43		41	
Xylene, m/p	5	1	U	1	U	1	U	1	U	10	U	5	U

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

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 greater than the reporting limit

J = Estimated value

D = Result from dilution run

Criteria = Values from Technical and Operational

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Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 1998).

Criteria is New York State Standard unless *

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Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 4.4: VOCs in Groundwater - Round 1

Parameter	Location	MW-8D		MW-9		MW-9D		MW-10		MW-11		MW-11D	
	Field Sample Date	1/16/2008		1/16/2008		1/16/2008		1/15/2008		1/18/2008		1/17/2008	
	Field Sample ID	828072-MW08D033		828072-MW009025		828072-MW09D035		828072-MW010015		828072-MW011010		828072-MW11D026	
	QC Code	FS		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1.5		0.2	J	0.61	J	1	U	1	U	2.5	U
1,1-Dichloroethane	5	1.8		1.4		0.64	J	1	U	0.74	J	3.1	J
1,1-Dichloroethene	5	1.8		0.33	J	1	U	1	U	1	U	2	J
Acetone	50*	10	U	10	U	10	U	10	U	10	U	25	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	2.5	U
Carbon disulfide	NA	1	U	1	U	1	U	1	U	1	U	2.5	U
Cis-1,2-Dichloroethene	5	330	D	57		14		1	U	14		490	J
Cyclohexane	NA	1	U	1	U	1	U	1	U	1	U	2.5	U
Methyl cyclohexane	NA	1	U	1	U	1	U	1	U	1	U	2.5	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	2.5	U
o-Xylene	5	1	U	1	U	1	U	1	U	1	U	2.5	U
Tetrachloroethene	5	1.7		1	U	0.22	J	1	U	1	U	2.5	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	2.5	U
trans-1,2-Dichloroethene	5	3.6		0.33	J	0.42	J	1	U	1	U	3.2	J
Trichloroethene	5	590	D	38		44		1	U	1	U	520	D
Vinyl chloride	2	20		4.2		0.88	J	1	U	19		34	J
Xylene, m/p	5	1	U	1	U	1	U	1	U	1	U	2.5	U

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

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 greater than the reporting limit

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Quality Standards and Guidance values and

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Criteria is New York State Standard unless *

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Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 4.4: VOCs in Groundwater - Round 1

Parameter	Location	MW-11D		MW-12		MW-13		MW-13D		MW-13DD		MW-14	
	Field Sample Date	1/17/2008		1/15/2008		1/18/2008		1/18/2008		1/18/2008		1/17/2008	
	Field Sample ID	828072-MW11D026DUP		828072-MW012011		828072-MW013006		828072-MW13D010		828072-MW13DD037		828072-MW014015	
QC Code	Criteria	FD		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	5	U	1	U	1	U	1	U	0.21	J	1	U
1,1-Dichloroethane	5	3.2	J	1	U	1	U	1.1		0.95	J	1.4	
1,1-Dichloroethene	5	2	J	1	U	1	U	0.35	J	0.27	J	0.26	J
Acetone	50*	50	U	10	U	10	U	10	U	10	U	10	U
Benzene	1	5	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	NA	5	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	490	DJ	1	U	1	U	42		35		50	
Cyclohexane	NA	5	U	1	U	1	U	1	U	1	U	0.25	J
Methyl cyclohexane	NA	5	U	1	U	1	U	1	U	1	U	0.32	J
Methyl Tertbutyl Ether	10*	5	U	1	U	1	U	1	U	1	U	1	U
o-Xylene	5	5	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	5	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	5	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	3.7	J	1	U	1	U	0.29	J	0.22	J	0.24	J
Trichloroethene	5	520	D	1	U	0.71	J	19		37		18	
Vinyl chloride	2	35	J	1	U	1	U	3.4		1.7		3.3	
Xylene, m/p	5	5	U	1	U	1	U	1	U	1	U	1	U

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

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 greater than the reporting limit

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Criteria is New York State Standard unless *

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Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 4.4: VOCs in Groundwater - Round 1

Parameter	Location	MW-14D		MW-15		MW-15D		MW-16		MW-17		MW-17D	
	Field Sample Date	1/17/2008		1/18/2008		1/17/2008		1/18/2008		1/17/2008		1/17/2008	
	Field Sample ID	828072-MW14D029		828072-MW015006		828072-MW15D019		828072-MW016008		828072-MW017007		828072-MW17D018	
	QC Code	FS		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	0.78	J	1	U	2.5	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1		1		2.4	J	1	U	1	U	0.21	J
1,1-Dichloroethene	5	0.25	J	0.3	J	1.2	J	1	U	1	U	1	U
Acetone	50*	10	U	10	U	10	U	10	U	10	U	10	U
Benzene	1	1	U	0.97	J	2.5	U	1	U	1	U	1	U
Carbon disulfide	NA	1	U	1	U	2.5	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	25		170		260		1	U	1	U	15	
Cyclohexane	NA	1	U	1	U	2.5	U	1	U	1	U	1	U
Methyl cyclohexane	NA	1	U	0.4	J	2.5	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	0.83	J	2.5	U	1	U	1	U	1	U
o-Xylene	5	1	U	0.23	J	2.5	U	1	U	1	U	1	U
Tetrachloroethene	5	0.23	J	1	U	2.5	U	1	U	1	U	1	U
Toluene	5	1	U	0.94	J	2.5	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1	U	1.8		2	J	1	U	1	U	0.44	J
Trichloroethene	5	45		33		410		1	U	1	U	0.61	J
Vinyl chloride	2	1.5		11		15		1	U	1	U	7.8	
Xylene, m/p	5	1	U	0.45	J	2.5	U	1	U	1	U	1	U

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

D = Result from dilution run

Criteria = Values from Technical and Operational

Guidance Series (TOGS) 1.1.1, Ambient Water

Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 1998).

Criteria is New York State Standard unless *

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 4.4: VOCs in Groundwater - Round 1

Parameter	Location	MW-18		MW-18D		MW-19		MW-19D		GPZ-1S1		GPZ-1D	
	Field Sample Date	1/15/2008		1/17/2008		1/15/2008		1/15/2008		1/17/2008		1/17/2008	
	Field Sample ID	828072-MW018009		828072-MW18D019		828072-MW019006		828072-MW19D014		828072-GPZ1S1008		828072-GPZ1D014	
	QC Code	FS		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	2.5	U	2.5	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	3.2		1.7	J	0.87	J	0.22	J	1	U	10	
1,1-Dichloroethene	5	0.8	J	0.62	J	1	U	1	U	1	U	0.23	J
Acetone	50*	25	U	10	U	10	U	10	U	2.7	J	10	U
Benzene	1	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Carbon disulfide	NA	0.88	J	2.5	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	380	D	280		0.56	J	4.7		1	U	46	
Cyclohexane	NA	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Methyl cyclohexane	NA	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	2.5	U	2.5	U	1	U	1	U	1	U	1	U
o-Xylene	5	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Toluene	5	2.5	U	2.5	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1.4	J	1.5	J	1	U	1	U	1	U	0.36	J
Trichloroethene	5	0.92	J	26		1	U	1	U	1	U	39	
Vinyl chloride	2	18		19		0.27	J	10		1	U	23	
Xylene, m/p	5	2.5	U	2.5	U	1	U	1	U	1	U	1	U

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

D = Result from dilution run

Criteria = Values from Technical and Operational

Guidance Series (TOGS) 1.1.1, Ambient Water

Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 1998).

Criteria is New York State Standard unless *

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 4.4: VOCs in Groundwater - Round 1

Parameter	Location	GPZ-2S1		GPZ-2D		GPZ-5S		GPZ-5D		GPZ-6S		GPZ-6D	
	Field Sample Date	1/16/2008		1/17/2008		1/16/2008		1/16/2008		1/17/2008		1/17/2008	
	Field Sample ID	828072-GPZ2S1014		828072-GPZ2D020		828072-GPZ5S018		828072-GPZ5D025		828072-GPZ6S019		828072-GPZ6D028	
	QC Code	FS		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1	U	1	U	1	U	0.32	J	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U	0.73	J	1.7		1	U	7	
1,1-Dichloroethene	5	1	U	1	U	1	U	0.69	J	1	U	0.82	J
Acetone	50*	10	U	1	J	10	U	10	U	1.7	J	10	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	NA	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	0.32	J	1	U	68		150		1	U	120	
Cyclohexane	NA	1	U	1	U	1	U	1	U	1	U	1	U
Methyl cyclohexane	NA	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
o-Xylene	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	1	U	0.36	J	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	0.23	J	1	U
trans-1,2-Dichloroethene	5	1	U	1	U	0.37	J	2.2		1	U	0.72	J
Trichloroethene	5	1	U	1	U	68		320	D	1	U	19	
Vinyl chloride	2	1	U	1	U	1	U	5.8		1	U	27	
Xylene, m/p	5	1	U	1	U	1	U	1	U	1	U	1	U

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration
 greater than the reporting limit

J = Estimated value

D = Result from dilution run

Criteria = Values from Technical and Operational

Guidance Series (TOGS) 1.1.1, Ambient Water

Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 1998).

Criteria is New York State Standard unless *

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 4.5: Metals in Groundwater

		Location		MW-1D		MW-3D		MW-5		MW-5D	
		Field Sample Date		1/15/2008		1/16/2008		1/15/2008		1/14/2008	
		Field Sample ID		828072-MW01D021		828072-MW03D013		828072-MW005006		828072-MW05D010	
		QC Code		FS		FS		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Aluminum	NA	100	U	100	U	205		100	U		
Barium	1,000	143		131		23.5		136			
Calcium	NA	160000		153000		313000		134000			
Iron	300	1450		8030		1150		4290			
Magnesium	35000*	48700		47800		154000		45900			
Manganese	300	105		248		612		149			
Potassium	NA	3450		3270		2040		3240			
Sodium	20,000	460000		459000		195000		471000			
Zinc	2000*	52.3		39.3		21.7		20	U		

Notes:

Sample results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for Metals by EPA Method SW6010B

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

Criteria = Groundwater guidance or standard values from

Technical and Operational Guidance Series (TOGS) 1.1.1,

"Ambient Water Quality Standards and Guidance Values and

Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria = Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value

Highlighted results exceed criteria

Table 4.5: Metals in Groundwater

		MW-6D		MW-7D		MW-8		MW-8	
		1/16/2008		1/16/2008		1/16/2008		1/16/2008	
		828072-MW06D015		828072-MW07D022		828072-MW008023		828072-MW008023DUP	
		FS		FS		FS		FD	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Aluminum	NA	100	U	100	U	100	U	100	U
Barium	1,000	147		142		430		439	
Calcium	NA	158000		162000		148000		139000	
Iron	300	5650		4540		2240		2090	
Magnesium	35000*	48500		50400		48500		45200	
Manganese	300	156		120		83.3		76.7	
Potassium	NA	3260		3450		3320		3120	
Sodium	20,000	461000		474000		411000		391000	
Zinc	2000*	62.5		31.5		20	U	20	U

Notes:

Sample results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for Metals by EPA Method SW6010B

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

Criteria = Groundwater guidance or standard values from

Technical and Operational Guidance Series (TOGS) 1.1.1,

"Ambient Water Quality Standards and Guidance Values and

Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria =Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value

Highlighted results exceed criteria

Table 4.5: Metals in Groundwater

Parameter	Criteria	Location		MW-8D		MW-9D		MW-11D		MW-11D	
		Field Sample Date		1/16/2008		1/16/2008		1/17/2008		1/17/2008	
		Field Sample ID		828072-MW08D033		828072-MW09D035		828072-MW11D026		828072-MW11D026DUP	
		QC Code		FS		FS		FS		FD	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Aluminum	NA	100	U	100	U	100	U	100	U	100	U
Barium	1,000	143		144		182		183		183	
Calcium	NA	147000		134000		145000		148000		148000	
Iron	300	2520		1670		2160		2210		2210	
Magnesium	35000*	44900		39900		43700		44300		44300	
Manganese	300	113		96.4		115		118		118	
Potassium	NA	3090		2810		3070		3110		3110	
Sodium	20,000	459000		431000		397000		398000		398000	
Zinc	2000*	69.8		102		31.6		31.8		31.8	

Notes:

Sample results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for Metals by EPA Method SW6010B

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

Criteria = Groundwater guidance or standard values from

Technical and Operational Guidance Series (TOGS) 1.1.1,

"Ambient Water Quality Standards and Guidance Values and

Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria =Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value

Highlighted results exceed criteria

Table 4.5: Metals in Groundwater

		Location		MW-13		MW-13D		MW-13DD		MW-14	
		Field Sample Date		1/18/2008		1/18/2008		1/18/2008		1/17/2008	
		Field Sample ID		828072-MW013006		828072-MW13D010		828072-MW13DD037		828072-MW014015	
		QC Code		FS		FS		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Aluminum	NA	100	U	100	U	100	U	100	U	100	U
Barium	1,000	39.3		138		145		289		289	
Calcium	NA	153000		132000		147000		128000		128000	
Iron	300	4270		3350		1000		445		445	
Magnesium	35000*	37100		41600		42000		48800		48800	
Manganese	300	385		300		86		367		367	
Potassium	NA	2000		3070		2920		5360		5360	
Sodium	20,000	96500		365000		417000		429000		429000	
Zinc	2000*	20	U	20	U	68.6		20	U	20	U

Notes:

Sample results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for Metals by EPA Method SW6010B

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

Criteria = Groundwater guidance or standard values from

Technical and Operational Guidance Series (TOGS) 1.1.1,

"Ambient Water Quality Standards and Guidance Values and

Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria =Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value

Highlighted results exceed criteria

Table 4.5: Metals in Groundwater

	Location	MW-14D		MW-15D		MW-16		MW-17			
		Field Sample Date		1/17/2008		1/18/2008		1/17/2008			
		Field Sample ID		828072-MW14D029		828072-MW15D019		828072-MW016008		828072-MW017007	
		QC Code		FS		FS		FS		FS	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
Aluminum	NA	100	U	100	U	100	U	100	U		
Barium	1,000	148		152		76.7		104			
Calcium	NA	144000		155000		195000		136000			
Iron	300	1270		1330		100	U	100	U		
Magnesium	35000*	42300		47400		47400		50900			
Manganese	300	94.1		100		14.3		48.9			
Potassium	NA	2890		3210		2000	U	8660			
Sodium	20,000	438000		428000		52200		7600			
Zinc	2000*	105		50.3		38.2		20.2			

Notes:

Sample results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for Metals by EPA Method SW6010B

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

Criteria = Groundwater guidance or standard values from

Technical and Operational Guidance Series (TOGS) 1.1.1,

"Ambient Water Quality Standards and Guidance Values and

Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria =Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value

Highlighted results exceed criteria

Table 4.5: Metals in Groundwater

Parameter	Criteria	MW-17D		MW-18		MW-18D		MW-19		MW-19D	
		Field Sample Date		Field Sample Date		Field Sample Date		Field Sample Date		Field Sample Date	
		Field Sample ID		Field Sample ID		Field Sample ID		Field Sample ID		Field Sample ID	
		QC Code		QC Code		QC Code		QC Code		QC Code	
Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Aluminum	NA	100	U	100	U	100	U	100	U	100	U
Barium	1,000	92.8		192		174		92.9		78.5	
Calcium	NA	115000		258000		148000		107000		125000	
Iron	300	1020		2030		591		100	U	862	
Magnesium	35000*	31900		47600		45200		30600		36900	
Manganese	300	98.3		72.6		108		27.3		121	
Potassium	NA	2890		18500		3340		6840		2670	
Sodium	20,000	111000		303000		400000		8970		47700	
Zinc	2000*	94.9		20	U	20	U	20	U	526	

Notes:

Sample results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for Metals by EPA Method SW6010B

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

Criteria = Groundwater guidance or standard values from

Technical and Operational Guidance Series (TOGS) 1.1.1,

"Ambient Water Quality Standards and Guidance Values and

Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria =Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value

Highlighted results exceed criteria

Table 4.6: SVOCs in Groundwater

Parameter	Criteria	Location		MW-1D		MW-3D		MW-5		MW-5D		MW-6D	
		Field Sample Date		1/15/2008		1/16/2008		1/15/2008		1/14/2008		1/16/2008	
		Field Sample ID		828072-MW01D021		828072-MW03D013		828072-MW005006		828072-MW05D010		828072-MW06D015	
		QC Code		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
2-Methylnaphthalene	NA	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Benzo(b)fluoranthene	0.002	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Benzo(ghi)perylene	NA	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Bis(2-Ethylhexyl)phthalate	5	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Chrysene	0.002	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Fluoranthene	50*	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Phenanthrene	50*	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Phenol	1	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Pyrene	50*	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U

Notes:Results in microgram per liter ($\mu\text{g/L}$)

Only detected compounds shown.

Samples analyzed for SVOCs by EPA Method 8270

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated Value

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria =Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value**Highlighted results exceed criteria**

Table 4.6: SVOCs in Groundwater

Parameter	Criteria	Location		MW-7D		MW-8		MW-8D		MW-9D			
		Field Sample Date		1/16/2008		1/16/2008		1/16/2008		1/16/2008			
		Field Sample ID		828072-MW07D022		828072-MW008023		828072-MW008023DU		828072-MW08D033		828072-MW09D035	
		QC Code		FS		FS		FD		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
2-Methylnaphthalene	NA	9.4	U	9.8	U	9.8	U	9.4	U	9.4	U		
Benzo(b)fluoranthene	0.002	9.4	U	9.8	U	9.8	U	9.4	U	9.4	U		
Benzo(ghi)perylene	NA	9.4	U	9.8	U	9.8	U	9.4	U	9.4	U		
Bis(2-Ethylhexyl)phthalate	5	9.4	U	9.8	U	9.8	U	9.4	U	9.4	U		
Chrysene	0.002	9.4	U	9.8	U	9.8	U	9.4	U	9.4	U		
Fluoranthene	50*	9.4	U	9.8	U	9.8	U	9.4	U	9.4	U		
Phenanthrene	50*	9.4	U	9.8	U	9.8	U	9.4	U	9.4	U		
Phenol	1	9.4	U	9.8	U	9.8	U	9.4	U	9.4	U		
Pyrene	50*	9.4	U	9.8	U	9.8	U	9.4	U	9.4	U		

Notes:Results in microgram per liter ($\mu\text{g/L}$)

Only detected compounds shown.

Samples analyzed for SVOCs by EPA Method 8270

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated Value

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria =Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value**Highlighted results exceed criteria**

Table 4.6: SVOCs in Groundwater

Parameter	Criteria	MW-11D		MW-11D		MW-13		MW-13D		MW-13DD	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
2-Methylnaphthalene	NA	9.4	U	9.4	U	9.4	U	9.7	U	9.4	U
Benzo(b)fluoranthene	0.002	9.4	U	9.4	U	0.56	J	9.7	U	9.4	U
Benzo(ghi)perylene	NA	9.4	U	9.4	U	0.47	J	9.7	U	9.4	U
Bis(2-Ethylhexyl)phthalate	5	9.4	U	0.37	J	9.4	U	9.7	U	9.4	U
Chrysene	0.002	9.4	U	9.4	U	0.39	J	9.7	U	9.4	U
Fluoranthene	50*	9.4	U	9.4	U	0.75	J	9.7	U	9.4	U
Phenanthrene	50*	9.4	U	9.4	U	0.48	J	9.7	U	9.4	U
Phenol	1	9.4	U	9.4	U	9.4	U	0.56	J	9.4	U
Pyrene	50*	9.4	U	9.4	U	0.54	J	9.7	U	9.4	U

Notes:Results in microgram per liter ($\mu\text{g/L}$)

Only detected compounds shown.

Samples analyzed for SVOCs by EPA Method 8270

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated Value

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria =Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value**Highlighted results exceed criteria**

Table 4.6: SVOCs in Groundwater

Parameter	Criteria	Location		MW-14		MW-14D		MW-15D		MW-16		MW-17	
		Field Sample Date		1/17/2008		1/17/2008		1/17/2008		1/18/2008		1/17/2008	
		Field Sample ID		828072-MW014015		828072-MW14D029		828072-MW15D019		828072-MW016008		828072-MW017007	
		QC Code		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
2-Methylnaphthalene	NA	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Benzo(b)fluoranthene	0.002	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Benzo(ghi)perylene	NA	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Bis(2-Ethylhexyl)phthalate	5	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Chrysene	0.002	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Fluoranthene	50*	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Phenanthrene	50*	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Phenol	1	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Pyrene	50*	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U

Notes:Results in microgram per liter ($\mu\text{g/L}$)

Only detected compounds shown.

Samples analyzed for SVOCs by EPA Method 8270

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated Value

Criteria = Groundwater guidance or standard values from
 Technical and Operational Guidance Series (TOGS) 1.1.1,
 "Ambient Water Quality Standards and Guidance Values and
 Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria =Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value**Highlighted results exceed criteria**

Table 4.6: SVOCs in Groundwater

Parameter	Criteria	Location		MW-17D		MW-18		MW-18D		MW-19		MW-19D	
		Field Sample Date		1/17/2008		1/15/2008		1/17/2008		1/15/2008		1/15/2008	
		Field Sample ID		828072-MW17D018		828072-MW018009		828072-MW18D019		828072-MW019006		828072-MW19D014	
		QC Code		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
2-Methylnaphthalene	NA	10	U	0.36	J	9.5	U	9.4	U	9.4	U		
Benzo(b)fluoranthene	0.002	10	U	9.4	U	9.5	U	9.4	U	9.4	U		
Benzo(ghi)perylene	NA	10	U	9.4	U	9.5	U	9.4	U	9.4	U		
Bis(2-Ethylhexyl)phthalate	5	10	U	9.4	U	9.5	U	9.4	U	9.4	U		
Chrysene	0.002	10	U	9.4	U	9.5	U	9.4	U	9.4	U		
Fluoranthene	50*	10	U	9.4	U	9.5	U	9.4	U	9.4	U		
Phenanthrene	50*	10	U	0.39	J	9.5	U	9.4	U	9.4	U		
Phenol	1	10	U	9.4	U	9.5	U	9.4	U	9.4	U		
Pyrene	50*	10	U	9.4	U	9.5	U	9.4	U	9.4	U		

Notes:Results in microgram per liter ($\mu\text{g/L}$)

Only detected compounds shown.

Samples analyzed for SVOCs by EPA Method 8270

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the RL

J = Estimated Value

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

Criteria =Standard unless *

* = Guidance Value

NA = No criteria available

Bold = Detected in sample below criteria value**Highlighted results exceed criteria**

Table 4.7: Natural Attenuation Parameters

Location		MW-1D		MW-3D		MW-6D		MW-7D		MW-8		MW-8	
Field Sample Date		1/15/2008		1/16/2008		1/16/2008		1/16/2008		1/16/2008		1/16/2008	
Field Sample ID		828072-MW01D021		828072-MW03D013		828072-MW06D015		828072-MW07D022		828072-MW008023		828072-MW008023DUP	
QC Code		FS		FS		FS		FS		FS		FD	
Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Laboratory Results													
Ethane	µg/L	0.71	J	0.96	J	0.94	J	0.4	J	5.6		5.5	
Ethene	µg/L	0.31	J	0.5	J	1		1	U	6.9		6.9	
Methane	µg/L	300	D	320	D	280	D	340	D	160	D	160	D
Carbon Dioxide	mg/L	61		54		67		66		56		60	
Chloride	mg/L	696		743		747		730		647		684	
Nitrate as N	mg/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Nitrite as N	mg/L	0.01	U	0.02	U	0.01	U	0.01	U	0.01	U	0.01	U
pH		7.0		7.1		7.0		7.0		7.1		7.1	
Sulfate	mg/L	95.9		85		90.5		89.6		77.7		77.9	
Sulfide	mg/L	1	U	3.43		1	U	1.12		1	U	1	U
Total Dissolved Solids	mg/L	1730		1710		1720		1740		1540		1500	
Total Alkalinity, as CaCO3	mg/L	328		338		341		339		350		351	
Total Organic Carbon	mg/L	3.11		2.94		3.15		3.1		3.37		3.2	
Field Measurements													
pH		6.8		8.0		7.8		7.8		7.7		7.7	
Temperature	Deg. C	13		11		10		9		11		11	
Specific Conductance	mS/cm	3.71		3.17		3.19		3.19		4.16		4.16	
Dissolved Oxygen	mg/L	3.5		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1	
Redox Potential	mV	-160		-170		-110		-110		-180		-180	
Natural Attenuation Score		12		18		15		16		15		15	

Notes:

Detected Laboratory Parameters shown in **BOLD**

MNA Parameters = Monitoring Natural Attenuation Parameters = TOC by USEPA Method 415.1, Nitrate by NYSDEC ASP Method 352.1, Sulfate by NYSDEC ASP Method 375.4, Sulfide by NYSDEC ASP Method 376.2, Methane/Ethane/Ethene by ASTM Method D-1945, carbon dioxide by Hach Method, Nitrite by NYSDEC ASP Method 354.1, Alkalinity by USEPA Method 310.1, chloride by USEPA Method 325.3, and iron and manganese will be analyzed by USEPA Method 6010B.

In addition, oxygen and reduction/oxydation potential will be measured during well stabilization

Field measurements recorded using a Horiba U-22 during purging activities.

Field parameters determined to be stable using USEPA low-flow guidance values.

Daily calibration of field instruments within acceptable ranges.

Natural Attenuation Score from 'Bichlor' program following the "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater", USEPA 1998

0 to 5 = Inadequate evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

6 to 14 = Limited evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

15 to 20 = Adequate evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

>20 = Strong evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

Table 4.7: Natural Attenuation Parameters

Location		MW-8D	MW-9	MW-9D	MW-11D	MW-13D	MW-13DD						
Field Sample Date		1/16/2008	1/16/2008	1/16/2008	1/17/2008	1/18/2008	1/18/2008						
Field Sample ID		828072-MW08D033	828072-MW009025	828072-MW09D035	828072-MW11D026	828072-MW13D010	828072-MW13DD037						
QC Code		FS	FS	FS	FS	FS	FS						
Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
Laboratory Results													
Ethane	µg/L	0.93	J	0.95	J	0.36	J	1.8		1		0.83	J
Ethene	µg/L	1.5		0.31	J	1	U	1.4		1	U	1	U
Methane	µg/L	310	D	240	D	180	D	280	D	640	D	110	D
Carbon Dioxide	mg/L	71		64		60		64		53		65	
Chloride	mg/L	811		742		38.4		705		624		696	
Nitrate as N	mg/L	0.5	U	0.5	U	3.51		0.5	U	0.5	U	0.5	U
Nitrite as N	mg/L	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
pH		7.0		7.0		7.0		7.0		7.1		7.0	
Sulfate	mg/L	89.2		83.5		35		84.5		64.6		103	
Sulfide	mg/L	1	U	1	U	1	U	1	U	1	U	1	U
Total Dissolved Solids	mg/L	1700		430		1620		1550		1370		1580	
Total Alkalinity, as CaCO3	mg/L	332		327		301		329		295		335	
Total Organic Carbon	mg/L	3.09		3.43		3.67		4.59		2.05		2.98	
Field Measurements													
pH		7.6		7.6		7.6		8.2		8.3		7.6	
Temperature	Deg. C	11		10		10		10		9		10	
Specific Conductance	mS/cm	5.75		5.70		4.26		2.89		2.39		2.65	
Dissolved Oxygen	mg/L	< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1	
Redox Potential	mV	-170		-110		-130		-120		-140		-170	
Natural Attenuation Score		15		15		13		15		18		12	

Notes:

Detected Laboratory Parameters shown in **BOLD**

MNA Parameters = Monitoring Natural Attenuation Parameters = TOC by USEPA Method 415.1, Nitrate by NYSDEC ASP Method 352.1, Sulfate by NYSDEC ASP Method 375.4, Sulfide by NYSDEC ASP Method 376.2, Methane/Ethane/Ethene by ASTM Method D-1945, carbon dioxide by Hach Method, Nitrite by NYSDEC ASP Method 354.1, Alkalinity by USEPA Method 310.1, chloride by USEPA Method 325.3, and iron and manganese will be analyzed by USEPA Method 6010B.

In addition, oxygen and reduction/oxidation potential will be measured during well stabilization

Field measurements recorded using a Horiba U-22 during purging activities.

Field parameters determined to be stable using USEPA low-flow guidance values.

Daily calibration of field instruments within acceptable ranges.

Natural Attenuation Score from 'Bichlor' program following the "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater", USEPA 1998

0 to 5 = Inadequate evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

6 to 14 = Limited evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

15 to 20 = Adequate evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

>20 = Strong evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

Table 4.7: Natural Attenuation Parameters

Location		MW-14	MW-14D	MW-15D	MW-16	MW-17	MW-17D
Field Sample Date		1/17/2008	1/17/2008	1/17/2008	1/18/2008	1/17/2008	1/17/2008
Field Sample ID		828072-MW014015	828072-MW14D029	828072-MW15D019	828072-MW016008	828072-MW017007	828072-MW17D018
QC Code		FS	FS	FS	FS	FS	FS
Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
Laboratory Results							
Ethane	µg/L	9.6		0.58	J	1.5	J
Ethene	µg/L	0.66	J	1	U	0.89	J
Methane	µg/L	120	D	140	D	210	D
Carbon Dioxide	mg/L	25		28		19	
Chloride	mg/L	727		752		733	
Nitrate as N	mg/L	0.5	U	0.5	U	34.3	
Nitrite as N	mg/L	0.01	U	0.01	U	0.01	U
pH		7.4		7.0		7.0	
Sulfate	mg/L	83.1		92.6		93.6	
Sulfide	mg/L	1	U	1	U	1	U
Total Dissolved Solids	mg/L	1590		1590		1660	
Total Alkalinity, as CaCO3	mg/L	298		312		249	
Total Organic Carbon	mg/L	3.39		3.46		2.99	
Field Measurements							
pH		8.6		8.2		7.6	
Temperature	Deg. C	8		10		11	
Specific Conductance	mS/cm	3.01		3.02		4.07	
Dissolved Oxygen	mg/L	< 0.1		< 0.1		< 0.1	
Redox Potential	mV	-170		-90		-150	
Natural Attenuation Score		12		13		15	

Notes:

Detected Laboratory Parameters shown in **BOLD**

MNA Parameters = Monitoring Natural Attenuation Parameters = TOC by USEPA Method 415.1, Nitrate by NYSDEC ASP Method 352.1, Sulfate by NYSDEC ASP Method 375.4, Sulfide by NYSDEC ASP Method 376.2, Methane/Ethane/Ethene by ASTM Method D-1945, carbon dioxide by Hach Method, Nitrite by NYSDEC ASP Method 354.1, Alkalinity by USEPA Method 310.1, chloride by USEPA Method 325.3, and iron and manganese will be analyzed by USEPA Method 6010B.

In addition, oxygen and reduction/oxydation potential will be measured during well stabilization

Field measurements recorded using a Horiba U-22 during purging activities.

Field parameters determined to be stable using USEPA low-flow guidance values.

Daily calibration of field instruments within acceptable ranges.

Natural Attenuation Score from 'Bichlor' program following the "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater", USEPA 1998

0 to 5 = Inadequate evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

6 to 14 = Limited evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

15 to 20 = Adequate evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

>20 = Strong evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

Table 4.7: Natural Attenuation Parameters

Location		MW-18	MW-18D	MW-19	MW-19D				
Field Sample Date		1/15/2008	1/17/2008	1/15/2008	1/15/2008				
Field Sample ID		828072-MW018009	828072-MW18D019	828072-MW019006	828072-MW19D014				
QC Code		FS	FS	FS	FS				
Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Laboratory Results									
Ethane	µg/L	1.6	J	1.2		1.3		1	U
Ethene	µg/L	2	U	0.38	J	1	U	1	U
Methane	µg/L	110		130	D	3.7		43	
Carbon Dioxide	mg/L	16		71		30		74	
Chloride	mg/L	766		678		42.1		104	
Nitrate as N	mg/L	0.5	U	0.5	U	3.57		0.5	U
Nitrite as N	mg/L	0.01	U	0.01	U	0.01	U	0.01	U
pH		7.5		7.0		7.3		7.0	
Sulfate	mg/L	68.9		102		35.6		81.8	
Sulfide	mg/L	1	U	1	U	1	U	1	U
Total Dissolved Solids	mg/L	1760		1580		1560		614	
Total Alkalinity, as CaCO3	mg/L	268		345		315		338	
Total Organic Carbon	mg/L	8.89		3.74		3.36		3.5	
Field Measurements									
pH		9.2		7.8		7.3		6.9	
Temperature	Deg. C	8		10		5		9	
Specific Conductance	mS/cm	3.66		2.89		1.44		1.59	
Dissolved Oxygen	mg/L	< 0.1		< 0.1		5.4		3.4	
Redox Potential	mV	-180		-10		110		-20	
Natural Attenuation Score		12		13		1		7	

Notes:

Detected Laboratory Parameters shown in **BOLD**

MNA Parameters = Monitoring Natural Attenuation Parameters = TOC by USEPA Method 415.1, Nitrate by NYSDEC ASP Method 352.1, Sulfate by NYSDEC ASP Method 375.4, Sulfide by NYSDEC ASP Method 376.2, Methane/Ethane/Ethene by ASTM Method D-1945, carbon dioxide by Hach Method, Nitrite by NYSDEC ASP Method 354.1, Alkalinity by USEPA Method 310.1, chloride by USEPA Method 325.3, and iron and manganese will be analyzed by USEPA Method 6010B.

In addition, oxygen and reduction/oxidation potential will be measured during well stabilization. Field measurements recorded using a Horiba U-22 during purging activities.

Field parameters determined to be stable using USEPA low-flow guidance values.

Daily calibration of field instruments within acceptable ranges.

Natural Attenuation Score from 'Bichlor' program following the "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater", USEPA 1998

- 0 to 5 = Inadequate evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics
- 6 to 14 = Limited evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics
- 15 to 20 = Adequate evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics
- >20 = Strong evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics

Table 4.8: VOCs in Groundwater - Round 2

Parameter	Location	GPZ-1D	GPZ-1S1	GPZ-2D	GPZ-2S1	GPZ-5D	GPZ-6D	GPZ-6S	MW-1D	
	Field Sample Date	7/23/2008	7/23/2008	7/23/2008	7/23/2008	7/22/2008	7/22/2008	7/22/2008	7/23/2008	
	Field Sample ID	GPZ1D01401	GPZ1S100101	GPZ2D02001	GPZ2S101401	GPZ5D02501	GPZ6D02801	GPZ6S01901	MW01D02101	
	QC Code	FS	FS	FS	FS	FS	FS	FS	FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	0.35 J	1 U	1 U	0.33 J	
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethane	5	15	1 U	1 U	1 U	2	7.5	1 U	2	
1,1-Dichloroethene	5	0.4 J	1 U	1 U	1 U	0.6 J	0.72 J	1 U	0.91 J	
Acetone	50*	10 U	10 U	10 U	10 U	10 UJ	1.8 J	2.2 J	10 U	
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Carbon disulfide	60	0.34 J	0.28 J	1 U	0.23 J	1 U	0.24 J	0.33 J	0.31 J	
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Cis-1,2-Dichloroethene	5	86	1 U	1 U	1 U	150	120	1 U	260 D	
Cyclohexane	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Methyl cyclohexane	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Methylene chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.2	
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
trans-1,2-Dichloroethene	5	1.4	1 U	1 U	1 U	2.4	1.6	1 U	4.8	
Trichloroethene	5	87	1 U	1 U	1 U	160	12	1 U	270 D	
Vinyl chloride	2	34	1 U	1 U	1 U	11	20	1 U	24	
Xylene, m/p	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Values from Technical and Operational

Guidance Series (TOGS) 1.1.1, Ambient Water

Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 1998).

Number shown is standard unless *.

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 4.8: VOCs in Groundwater - Round 2

Parameter	Location	MW-1DD	MW-2	MW-2D	MW-003	MW-3D	MW-5	MW-5D	MW-6	
	Field Sample Date	7/21/2008	7/23/2008	7/23/2008	7/7/2008	7/22/2008	7/21/2008	7/21/2008	7/21/2008	
	Field Sample ID	MW1DD03801	MW002000901	MW02D01701	828072-MW003	MW03D01301	MW00500601	MW05D01001	MW00600101	
	QC Code	FS	FS	FS	FS	FS	FS	FS	FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1 U	10 U	0.47 J	1000 U	0.35 J	1 U	1 U	1 U	
1,1,2-Trichloroethane	1	1 U	3.5 J	1 U	1000 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethane	5	1 U	10 U	2.3	1000 U	2.5	0.91 J	0.4 J	1 U	
1,1-Dichloroethene	5	1 U	20	0.24 J	1000 U	0.41 J	1 U	1 U	1 U	
Acetone	50*	3.9 J	100 U	10 U	1400 J	10 U	4 J	10 U	6.1 J	
Benzene	1	1 U	10 U	1 U	1000 U	1 U	1 U	1 U	1 U	
Carbon disulfide	60	0.3 J	10 U	1 U	490 U	0.26 J	1 U	0.43 J	0.22 J	
Chloroform	7	1 U	10 U	1 U	1000 U	1 U	1 U	1 U	1 U	
Cis-1,2-Dichloroethene	5	1 U	5900 D	72	180000	160	0.58 J	1 U	2.2	
Cyclohexane	NA	1 U	10 U	1 U	1000 U	1 U	1 U	1 U	1 U	
Methyl cyclohexane	NA	1 U	10 U	1 U	1000 U	1 U	1 U	1 U	1 U	
Methylene chloride	5	1 U	2.5 J	1 U	1000 U	1 U	1 U	1 U	1 U	
o-Xylene	5	1 U	10 U	1 U	1000 U	1 U	1 U	1 U	1 U	
Tetrachloroethene	5	1 U	10 U	1 U	1000 U	1 U	1 U	1 U	1 U	
Toluene	5	1 U	10 U	1 U	1000 U	1 U	1 U	0.2 J	1 U	
trans-1,2-Dichloroethene	5	1 U	66	3.3	1100	3.7	1 U	1 U	1 U	
Trichloroethene	5	1 U	3300 D	1 U	500000 D	44	1 U	1 U	1 U	
Vinyl chloride	2	1 U	170	7.7	7400	13	0.43 J	1 U	1 U	
Xylene, m/p	5	1 U	10 U	1 U	1000 U	1 U	1 U	1 U	1 U	

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Values from Technical and Operational

Guidance Series (TOGS) 1.1.1, Ambient Water

Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 1998).

Number shown is standard unless *.

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 4.8: VOCs in Groundwater - Round 2

Parameter	Location	MW-6D	MW-7	MW-7D	MW-8	MW-8	MW-8D	MW-9	MW-9D	
	Field Sample Date	7/23/2008	7/21/2008	7/21/2008	7/24/2008	7/24/2008	7/24/2008	7/22/2008	7/22/2008	
	Field Sample ID	MW06D01501	MW00701501	MW07D02201	MW00802301	MW00802301D	MW08D03301	MW00902501	MW09D03501	
	QC Code	FS	FS	FS	FS	FD	FS	FS	FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	0.74 J	1 U	0.28 J	10 U	10 U	1 J	0.2 J	0.79 J	
1,1,2-Trichloroethane	1	2 U	1 U	1 U	10 U	10 U	5 U	1 U	1 U	
1,1-Dichloroethane	5	2.6	1 U	1.4	16	17	2.6 J	1.4	3.6	
1,1-Dichloroethene	5	1 J	1 U	0.2 J	5.7 J	6.3 J	1.6 J	0.29 J	1.2	
Acetone	50*	20 U	2 J	10 U	100 U	100 U	13 U	2.3 J	10 U	
Benzene	1	2 U	1 U	1 U	10 U	10 U	5 U	1 U	1 U	
Carbon disulfide	60	0.62 J	0.2 J	1 U	10 U	10 U	5 U	0.2 J	1 U	
Chloroform	7	2 U	1 U	1 U	10 U	10 U	5 U	1 U	1 U	
Cis-1,2-Dichloroethene	5	380	0.36 J	9.1	2000	2000	330	53	290 D	
Cyclohexane	NA	2 U	1 U	1 U	10 U	10 U	5 U	1 U	1 U	
Methyl cyclohexane	NA	2 U	1 U	1 U	10 U	10 U	5 U	1 U	1 U	
Methylene chloride	5	1 U	1 U	1 U	2.7 U	2.3 U	1.2 U	1 U	1 U	
o-Xylene	5	2 U	1 U	1 U	10 U	10 U	5 U	1 U	1 U	
Tetrachloroethene	5	0.86 J	1 U	1 U	10 U	10 U	1 J	1 U	1.1	
Toluene	5	2 U	1 U	1 U	10 U	10 U	5 U	1 U	1 U	
trans-1,2-Dichloroethene	5	4.8	1 U	1 U	47	42	4.4 J	0.92 J	3.9	
Trichloroethene	5	490 D	1 U	5.1	640	610	660	27	1100 D	
Vinyl chloride	2	38	1 U	0.46 J	51	53	22	6	30	
Xylene, m/p	5	2 U	1 U	1 U	10 U	10 U	5 U	1 U	1 U	

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Values from Technical and Operational

Guidance Series (TOGS) 1.1.1, Ambient Water

Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 1998).

Number shown is standard unless *.

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 4.8: VOCs in Groundwater - Round 2

Parameter	Criteria	MW-10		MW-11		MW-11D		MW-11D		MW-12		MW-13		MW-13D		MW-13DD		
		Field Sample Date	7/21/2008	7/24/2008	7/24/2008	7/24/2008	7/21/2008	7/24/2008	7/24/2008	7/23/2008	7/23/2008	7/23/2008	7/23/2008	7/23/2008	7/23/2008	7/23/2008		
		Field Sample ID	MW01001501	MW01101201	MW11D02601	MW11D02601D	MW01201101	MW01300501	MW13D01001	MW13DD03701								
QC Code	FS	FS	FS	FD	FS	FS	FS	FS										
Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U
1,1,2-Trichloroethane	1	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U
1,1-Dichloroethane	5	1 U		0.64 J		2.2		2.2		1 U		1 U		1.2		1.8		1.8
1,1-Dichloroethene	5	1 U		1 U		0.67 J		0.7 J		1 U		1 U		0.34 J		0.33 J		0.33 J
Acetone	50*	10 U		10 U		1.9 J		10 U		2 J		8 J		10 U		10 U		10 U
Benzene	1	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U
Carbon disulfide	60	1 U		1 U		1 U		1 U		1 U		1 U		0.2 J		1 U		1 U
Chloroform	7	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U
Cis-1,2-Dichloroethene	5	1 U		11		170		170		1 U		1 U		57		71		71
Cyclohexane	NA	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U
Methyl cyclohexane	NA	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U
Methylene chloride	5	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U
o-Xylene	5	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U
Tetrachloroethene	5	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U
Toluene	5	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U
trans-1,2-Dichloroethene	5	1 U		0.21 J		1.1		1.2		1 U		1 U		1 U		1.2		1.5
Trichloroethene	5	1 U		1 U		30		31		1 U		1 U		42		73		73
Vinyl chloride	2	1 U		16		6.3		6.3		1 U		1 U		5.5		6.8		6.8
Xylene, m/p	5	1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U		1 U

Notes:

Results in microgram per liter (µg/L)
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:
 FS = Field Sample
 FD = Field Duplicate
 Qualifiers:
 U = Not detected at a concentration greater than the reporting limit
 J = Estimated value
 D = Result from diluted run
 Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance values and Groundwater Effluent Limitations (NYSDEC, 1998).
 Number shown is standard unless *.
 * Criteria is NYSDEC Guidance Value
 Detections are indicated in **BOLD**
Highlighted results exceed criteria
 NA = No criteria available

Table 4.8: VOCs in Groundwater - Round 2

Parameter	Location	MW-14	MW-14D	MW-15D	MW-16	MW-16D	MW-17	MW-17D	MW-18	
	Field Sample Date	7/22/2008	7/22/2008	7/24/2008	7/23/2008	7/22/2008	7/22/2008	7/21/2008	7/24/2008	
	Field Sample ID	MW01401501	MW14D02901	MW15D01901	MW01600101	MW16D01901	MW01700701	MW17D01801	MW01800901	
	QC Code	FS	FS	FS	FS	FS	FS	FS	FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1 U	0.71 J		2.5 U	1 U	1 U	1 U	1 U	2.5 U
1,1,2-Trichloroethane	1	1 U	1 U		2.5 U	1 U	1 U	1 U	1 U	2.5 U
1,1-Dichloroethane	5	1.6		1.1		2.5 J		1 U	0.25 J	3.6
1,1-Dichloroethene	5	0.51 J		0.27 J		1 J		1 U	1 U	2.5 U
Acetone	50*	10 U		10 U		10 U		10 U	1.7 J	12
Benzene	1	0.25 J		1 U		2.5 U		1 U	1 U	2.5 U
Carbon disulfide	60	0.22 J		1 U		2.5 U		1 U	0.2 J	0.6 J
Chloroform	7	1 U		1 U		2.5 U		1 U	1 U	2.5 U
Cis-1,2-Dichloroethene	5	89		22		250		1 U	230 D	11
Cyclohexane	NA	1 U		1 U		2.5 U		1 U	1 U	2.5 U
Methyl cyclohexane	NA	1 U		1 U		2.5 U		1 U	1 U	2.5 U
Methylene chloride	5	1 U		1 U		1 U		1 U	1 U	2.5 U
o-Xylene	5	1 U		1 U		2.5 U		1 U	1 U	2.5 U
Tetrachloroethene	5	1 U		1 U		2.5 U		1 U	1 U	2.5 U
Toluene	5	1 U		1 U		2.5 U		1 U	1 U	2.5 U
trans-1,2-Dichloroethene	5	0.71 J		0.34 J		5.2		1 U	2.6	0.43 J
Trichloroethene	5	31		38		50		1 U	14	0.31 J
Vinyl chloride	2	7.2		2.2		12		1 U	11	14
Xylene, m/p	5	1 U		1 U		2.5 U		1 U	1 U	2.5 U

Notes:
 Results in microgram per liter (µg/L)
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 QC Code:
 FS = Field Sample
 FD = Field Duplicate
 Qualifiers:
 U = Not detected at a concentration greater than the reporting limit
 J = Estimated value
 D = Result from diluted run
 Criteria = Values from Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance values and Groundwater Effluent Limitations (NYSDEC, 1998).
 Number shown is standard unless *.
 * Criteria is NYSDEC Guidance Value
 Detections are indicated in **BOLD**
Highlighted results exceed criteria
 NA = No criteria available

Table 4.8: VOCs in Groundwater - Round 2

Parameter	Location	MW-18D	MW-19	MW-019	MW-19D	MW-020	MW-20D						
	Field Sample Date	7/24/2008	7/23/2008	3/11/2009	7/22/2008	3/11/2009	7/22/2008						
	Field Sample ID	MW18D01901	MW01900601	828072-MW01900603	MW19D01401	828072-MW02000603	MW20D01901						
	QC Code	FS	FS	FS	FS	FS	FS						
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1.6		1	U	1	U	0.35	J	1	U	1	U
1,1-Dichloroethene	5	0.67	J	1	U	1	U	1	U	1	U	1	U
Acetone	50*	10	U	10	U	10	UJ	2.3	J	10	UJ	10	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	0.62	J
Carbon disulfide	60	0.37	J	0.26	J	1	U	0.21	J	1	U	0.33	J
Chloroform	7	1	U	1	U	1	U	1	U	1	U	0.39	J
Cis-1,2-Dichloroethene	5	180	D	1.2	U	1	U	7.8		1	U	1.8	
Cyclohexane	NA	1	U	1	U	1	U	1	U	1	U	0.57	J
Methyl cyclohexane	NA	1	U	1	U	1	U	1	U	1	U	0.81	J
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
o-Xylene	5	1	U	1	U	1	U	1	U	1	U	0.27	J
Tetrachloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	2.6		1	U	1	U	0.26	J	1	U	1	U
Trichloroethene	5	8.9		1	U	1	U	0.24	J	1	U	0.22	J
Vinyl chloride	2	12		4.6		1	U	33		1	U	1.6	
Xylene, m/p	5	1	U	1	U	1	U	1	U	1	U	0.81	J

Notes:

Results in microgram per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Values from Technical and Operational

Guidance Series (TOGS) 1.1.1, Ambient Water

Quality Standards and Guidance values and

Groundwater Effluent Limitations (NYSDEC, 1998).

Number shown is standard unless *.

* Criteria is NYSDEC Guidance Value

Detections are indicated in **BOLD**

Highlighted results exceed criteria

NA = No criteria available

Table 1: Monitoring Well and Groundwater Elevation Data

Exploration ID	Ground Elevation	Casing Elevation	Riser Elevation	Depth of Monitoring Well	Measurement Point	Measured Monitoring Well Depth	DTW (TOR/TOC) (July 11, 2012)	Groundwater Elevation (July 11, 2012)
MW-D-1	555.02	557.54	NA	NA	TOC	9.9 ^	5.31	552.23
MW-1D	556.49	559.07	558.91	26.50	TOR	26.4	8.28	550.63
MW-1DD	556.46	558.42	558.30	41.70	TOC	41.7 ^	8.25	550.05
MW-2	555.49	557.81	557.42	10.60	TOR	10.7*	7.10	550.32
MW-2D	555.59	557.32	NA	NA	TOC	20.3 ^	6.72	550.6
MW-3	NA	NA	NA	NA	NA	9.4 ^	5.65	NA
MW-3D	554.76	556.87	NA	20.25	TOC	20.3 ^	6.28	550.59
MW-4	555.41	557.06	556.94	NA	TOR	9.5 ^	7.57	549.37
MW-4D	555.46	557.51	NA	NA	TOC	22.1 ^	6.90	550.61
MW-5	555.00	555.00	554.76	7.80	TOR	NA ¹	NA ¹	NA ¹
MW-5D	555.16	555.36	NA	NA	TOC	NA ¹	NA ¹	NA ¹
MW-6	554.14	556.34	556.36	10.10	TOR	10.1	7.27	549.09
MW-6D	553.76	555.67	NA	25.60	TOC	25.9*	5.40	550.27
MW-7	553.89	556.48	556.24	17.00	TOR	17.1	6.28	549.96
MW-7D	553.70	555.49	NA	27.10	TOC	26.2 ^	4.92	550.57
MW-8	565.37	566.73	566.80	27.90	TOR	28.0	17.05	549.75
MW-8D	565.25	566.65	NA	38.70	TOC	38.7 ^	16.44	550.21
MW-9	567.01	568.86	568.91	30.20	TOR	30.1	18.70	550.21
MW-9D	566.76	568.86	NA	48	TOC	40.2	18.65	550.21
MW-10	553.86	557.03	556.90	17.00	TOR	16.9	6.64	550.26
MW-11	553.55	556.75	556.60	13.25	TOR	13.3	9.87	546.73
MW-11D	554.05	557.81	555.09	23.70	TOC	23.7*	11.20	546.61
MW-12	554.66	557.74	557.60	12.00	TOR	11.9	10.94	546.66
MW-13	553.71	553.79	553.40	7.80	TOR	6.8 ^	> 6.8	< 546.6
MW-13D	553.57	553.63	553.33	12.25	TOR	12.3 ^	6.67	546.66
MW-13DD	553.55	553.60	553.33	40.10	TOR	40.1	4.69	548.64
MW-14	552.88	553.01	552.64	16.20	TOR	16.3*	5.47	547.17
MW-14D	552.96	552.97	552.78	33.80	TOR	33.8 ^	3.32	549.46
MW-15	553.18	553.30	553.11	6.50	TOR	6.6 ^	> 6.6	< 546.5
MW-15D	553.22	553.28	553.09	23.90	TOR	23.9	6.56	546.53
MW-16	553.94	553.96	553.78	8.90	TOR	8.9	7.25	546.53
MW-16D	553.94	553.97	553.64	22.20	TOR	29.7 ^	7.73	545.91
MW-17	553.88	553.95	553.43	7.70	TOR	7.7	> 7.7	< 545.7
MW-17D	554.01	554.09	553.73	23.20	TOR	23.2	7.60	546.13
MW-18	552.34	552.25	551.84	10.90	TOR	9.9 ^	5.27	546.57
MW-18D	552.28	552.23	551.72	22.80	TOR	22.8 ^	5.50	546.22
MW-19	552.03	551.95	551.55	7.20	TOR	7.2 ^	> 7.2	< 544.3
MW-19D	551.98	552.02	551.43	19.50	TOR	19.7	5.47	545.96
MW-20	553.62	553.70	553.39	6.8	TOR	6.8*	> 6.8	< 546.6
MW-20D	553.59	553.64	553.39	20.9	TOR	20.9 ^	7.62	545.77
GPZ-1S1	552.70	NA	554.91	8.60	TOR	8.6	7.45	547.46
GPZ-1D	552.99	NA	555.50	15.50	NA	15.7	7.45	548.05
GPZ-2S1	562.79	NA	565.01	16.60	TOR	16.6	15.90	549.11
GPZ-2D	562.38	NA	564.88	27.50	NA	20.5 ^	15.19	549.69
GPZ-5S	563.99	NA	566.94	20.00	TOR	20.0	18.40	548.54
GPZ-5D	564.08	NA	566.98	29.10	TOR	28.2	17.95	549.03
GPZ-6S	563.72	NA	564.14	20.10	TOR	20.1	15.05	549.09
GPZ-6D	564.25	NA	566.74	28.40	NA	20.1 ^	17.60	549.14

Notes:

Wells Surveyed by Popli Deseign Group - Northing/Easting = North American Datum 83/96 - NYSPCS WEST (US SURVEY FT.)

Elevations = North Atlantic Vertical Datum 88 (US SURVEY FT.)

DTW = depth to water

TOR/TOC = from top of riser or top of casing

Groundwater levels collected by MACTEC Engineering on July 11, 2012

Measured well depth (unless notated) from January 2008; * = July 2008; ^ = July 2012

NA = Not Available

NA¹ = Unable to locate monitoring wells in July 2012

Table 2: July 2012 Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	GPZ-1D		GPZ-1S1		GPZ-2D		GPZ-2S1		GPZ-5D		GPZ-5S		
	7/12/2012		7/12/2012		7/12/2012		7/12/2012		7/11/2012		7/11/2012		
	828072-GPZ1D014		828072-GPZ1S1008		828072-GPZ2D020		828072-GPZ2S1014		828072-GPZ5D025		828072-GPZ5S018		
	14		8		20		14		25		18		
	FS		FS		FS		FS		FS		FS		
Parameter Name	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	1	U	10	U	1	U	1	U
1,1-Dichloroethane	5	9.8		1	U	1	U	10	U	1.6		0.44	J
1,1-Dichloroethene	5	0.32	J	1	U	1	U	10	U	0.62	J	1	U
Acetone	50*	4.9	J	1.2	J	10	U	100	U	10	U	10	U
Carbon disulfide	60*	1	U	1	U	1	U	10	U	1	U	1	U
Cis-1,2-Dichloroethene	5	83		1	U	1	U	10	U	100		16	
Tetrachloroethene	5	1	U	1	U	1	U	10	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	10	U	1	U	1	U
trans-1,2-Dichloroethene	5	2.1		1	U	1	U	10	U	2.4		0.31	J
Trichloroethene	5	38		1	U	1	U	10	U	120		1.3	
Vinyl chloride	2	23		1	U	1	U	10	U	7.7		27	

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = Guidance Value

NYS, 1999. New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards. Amended August 1999

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 2: July 2012 Groundwater VOC Results

Parameter Name	Location ID	GPZ-6D		GPZ-6S		MW-1		MW-1D		MW-1DD		MW-2	
	Field Sample Date	7/11/2012		7/11/2012		7/11/2012		7/11/2012		7/11/2012		7/11/2012	
	Field Sample ID	828072-GPZ6D028		828072-GPZ6S019		828072-MW01		828072-MW01D021		828072-MW1DD038		828072-MW002009	
	Field Sample Depth (ft bgs)	28		19		21		21		38		9	
	QC Code	FS		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1 U	5 U	25 U	1 U	1 U	1 U	25 U					
1,1-Dichloroethane	5	6.9	5 U	19 J	1 U	1 U	25 U						
1,1-Dichloroethene	5	0.63 J	5 U	33	0.68 J	1 U	17 J						
Acetone	50*	10 U	50 U	250 U	1.4 J	10 U	250 U						
Carbon disulfide	60*	1 U	5 U	25 U	1 U	1 U	25 U						
Cis-1,2-Dichloroethene	5	120	5 U	5800 D	250 D	1 U	5500 D						
Tetrachloroethene	5	1 U	5 U	9.5 J	1 U	1 U	25 U						
Toluene	5	1 U	5 U	5.3 J	1 U	1 U	25 U						
trans-1,2-Dichloroethene	5	1.5	5 U	68	2.4	1 U	37						
Trichloroethene	5	3.4	5 U	190	100	1 U	660						
Vinyl chloride	2	23	5 U	3000	41	1 U	260 J						

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1.

"Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = Guidance Value

NYS, 1999. New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards.

Amended August 1999

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 2: July 2012 Groundwater VOC Results

Parameter Name	Location ID	MW-2		MW-2D		MW-3		MW-3D		MW-6		MW-6D	
	Field Sample Date	7/11/2012		7/11/2012		7/11/2012		7/11/2012		7/12/2012		7/12/2012	
	Field Sample ID	828072-MW002009D		828072-MW02D017		828072-MW00306		828072-MW03D020		828072-MW006008		828072-MW06D015	
	Field Sample Depth (ft bgs)	9		17		6		20		8		15	
	QC Code	FD		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	10	U	0.24	J	2000	U	1	U	1	U	1	U
1,1-Dichloroethane	5	10	U	1.2		2000	U	1.9		1	U	1.1	
1,1-Dichloroethene	5	8.7	J	1	U	2000	U	1	U	1	U	1	U
Acetone	50*	100	U	10	U	20000	U	10	U	2.8	J	10	U
Carbon disulfide	60*	10	U	1	U	2000	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	4900	D	37		150000		65		0.76	J	76	
Tetrachloroethene	5	2.9	J	100		2000	U	1	U	1	U	1	U
Toluene	5	10	U	1	U	2000	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	21		1.4		820	J	4.4		1	U	4.7	
Trichloroethene	5	450		28		650000	D	1	U	1.1		0.46	J
Vinyl chloride	2	43	J	8.7		6500		22		1	U	40	

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1.

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Water and Groundwater Classifications and Standards.

Amended August 1999

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 2: July 2012 Groundwater VOC Results

Parameter Name	Criteria	MW-7		MW-7D		MW-8		MW-8		MW-8D		MW-9	
		Field Sample Date		Field Sample Date		Field Sample Date		Field Sample Date		Field Sample Date		Field Sample Date	
		Field Sample ID		Field Sample ID		Field Sample ID		Field Sample ID		Field Sample ID		Field Sample ID	
		Field Sample Depth (ft bgs)		Field Sample Depth (ft bgs)		Field Sample Depth (ft bgs)		Field Sample Depth (ft bgs)		Field Sample Depth (ft bgs)		Field Sample Depth (ft bgs)	
		QC Code		QC Code		QC Code		QC Code		QC Code		QC Code	
Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	5	U	5	U	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U	10		11		0.57	J	1.7	
1,1-Dichloroethene	5	1	U	1	U	3.4	J	2.8	J	0.56	J	0.51	J
Acetone	50*	1.7	J	10	U	50	U	50	U	10	U	10	U
Carbon disulfide	60*	1	U	1	U	5	U	5	U	0.32	J	1	U
Cis-1,2-Dichloroethene	5	0.94	J	2.7		1300	D	1400	D	170		130	
Tetrachloroethene	5	0.4	J	1	U	5	U	5	U	1	U	1	U
Toluene	5	1	U	1	U	5	U	5	U	1	U	1	U
trans-1,2-Dichloroethene	5	1	U	1	U	17		15		13		0.7	J
Trichloroethene	5	1	U	0.39	J	17		21		79		59	
Vinyl chloride	2	1.5		0.32	J	89		93		8.7		12	

Notes:

Results reported in micrograms per liter (µg/L)
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method SW8260B
 ft bgs = feet below ground surface
 QC Code:
 FS = Field Sample
 FD = Field Sample
 Qualifiers:
 U = Not detected greater than the reporting limit
 J = Estimated value
 D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1. "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = Guidance Value
 NYS, 1999. New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards. Amended August 1999

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 2: July 2012 Groundwater VOC Results

Parameter Name	Location ID	MW-9D		MW-10		MW-11		MW-11D		MW-11D		MW-12	
	Field Sample Date	7/11/2012		7/12/2012		7/12/2012		7/12/2012		7/12/2012		7/12/2012	
	Field Sample ID	828072-MW09D035		828072-MW010015		828072-MW011010		828072-MW11D026		828072-MW11D026D		828072-MW012011	
	Field Sample Depth (ft bgs)	35		15		10		26		26		11	
	QC Code	FS		FS		FS		FS		FD		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	0.53	J	1	U	1	U	1.8	J	2.1	J	1	U
1,1-Dichloroethene	5	0.31	J	1	U	1	U	0.95	J	1	J	1	U
Acetone	50*	10	U	10	U	3	J	10	U	1.1	J	4.6	J
Carbon disulfide	60*	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	120	J	1	U	0.3	J	270	D	260	D	1	U
Tetrachloroethene	5	1	U	1	U	1	U	0.5	J	0.43	J	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	20	J	1	U	1	U	3.5	J	3.3	J	1	U
Trichloroethene	5	41	J	1	U	1	U	2.9	J	3.1	J	1	U
Vinyl chloride	2	4.6	J	1	U	0.4	J	12	J	13	J	1	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1.

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Amended August 1999

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 2: July 2012 Groundwater VOC Results

Parameter Name	Location ID	MW-13D		MW-13DD		MW-14		MW-14D		MW-15D		MW-16	
	Field Sample Date	7/11/2012		7/11/2012		7/11/2012		7/11/2012		7/12/2012		7/12/2012	
	Field Sample ID	828072-MW13D010		828072-MW13DD037		828072-MW014015		828072-MW14D029		828072-MW15D019		828072-MW016008	
	Field Sample Depth (ft bgs)	10		37		15		29		19		8	
	QC Code	FS		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	0.28 J	1 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethane	5	0.87 J	1.6 J	1.5 J	1.4 J	2	1 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethene	5	0.31 J	0.36 J	0.45 J	0.3 J	0.91 J	1 U	1 U	1 U	1 U	1 U	1 U	
Acetone	50*	2.3 J	10 U	1 J	10 U	1.1 J	10 U	10 U	1.1 J	10 U	10 U	10 U	
Carbon disulfide	60*	1 U	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Cis-1,2-Dichloroethene	5	71	100	140	35	290 D	1 U	1 U	1 U	1 U	1 U	1 U	
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
trans-1,2-Dichloroethene	5	1.3	0.7 J	1.4	0.49 J	2.2	1 U	1 U	1 U	1 U	1 U	1 U	
Trichloroethene	5	45	100	63	32	51	1 U	1 U	1 U	1 U	1 U	1 U	
Vinyl chloride	2	5.4	9.6	24	1.5	19	1 U	1 U	1 U	1 U	1 U	1 U	

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1.

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Amended August 1999

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 2: July 2012 Groundwater VOC Results

Parameter Name	Location ID	MW-16D		MW-17D		MW-18		MW-18D		MW-19D		MW-20D	
	Field Sample Date	7/12/2012		7/12/2012		7/12/2012		7/12/2012		7/12/2012		7/12/2012	
	Field Sample ID	828072-MW16D019		828072-MW17D018		828072-MW018009		828072-MW18D019		828072-MW19D014		828072-MW20D019	
	Field Sample Depth (ft bgs)	19		18		9		19		14		19	
	QC Code	FS		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethane	5	0.56 J	1 U	1 U	1 U	2	1 U	1.2	1 U	1 U	1 U	1 U	
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Acetone	50*	1.2 J	10 U	10 U	1.3 J	1.1 J	1.1 J	1.4 J	1.7 J				
Carbon disulfide	60*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Cis-1,2-Dichloroethene	5	23	4.4	54	180	2.1	1.1						
Tetrachloroethene	5	1 U	1 U	1 U	0.31 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
trans-1,2-Dichloroethene	5	0.48 J	1 U	1 U	1.3	1.7	1 U	1 U	1 U	1 U	1 U	1 U	
Trichloroethene	5	0.29 J	1 U	1 U	0.23 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Vinyl chloride	2	31	4.5	55	34	14	0.54 J						

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample

FD = Field Sample

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1.

"Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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Water and Groundwater Classifications and Standards.

Amended August 1999

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-1D						MW-1DD						
	1/15/2008		7/23/2008		7/11/2012		1/15/2008		7/21/2008		7/11/2012		
	828072-MW01D021		MW01D02101		828072-MW01D021		828072-MW1DD038		MW1DD03801		828072-MW1DD038		
	21		21		21		38		38		38		
Parameter Name	Criteria	FS		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	0.34	J	0.33	J	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1.8		2		1.2		1	U	1	U	1	U
1,1-Dichloroethene	5	0.95	J	0.91	J	0.68	J	1	U	1	U	1	U
Acetone	50*	10	U	10	U	1.4	J	10	U	3.9	J	10	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	1	U	0.31	J	1	U	1	U	0.3	J	1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	180		260	D	250	D	1	U	1	U	1	U
Cyclohexane	NS	1	U	1	U	2	U	1	U	1	U	2	U
Methyl cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1		1.2		1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1.5		4.8		2.4		1	U	1	U	1	U
Trichloroethene	5	190	D	270	D	100		1	U	1	U	1	U
Vinyl chloride	2	11		24		41		1	U	1	U	1	U
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1	U	1	U	2	U	1	U	1	U	2	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = Guidance Value

NYS, 1999. New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards. Amended August 1999

NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-2						MW-2D						
	7/23/2008		7/11/2012		7/11/2012		1/14/2008		7/23/2008		7/11/2012		
	MW002000901		828072-MW002009		828072-MW002009D		828072-MW02D017		MW02D01701		828072-MW02D017		
	9		9		9		17		17		17		
Parameter Name	Criteria	FS		FS		FD		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	10	U	25	U	10	U	1	U	0.47	J	0.24	J
1,1,2-Trichloroethane	1	3.5	J	25	U	10	U	1	U	1	U	1	U
1,1-Dichloroethane	5	10	U	25	U	10	U	1.3		2.3		1.2	
1,1-Dichloroethene	5	20		17	J	8.7	J	1	U	0.24	J	1	U
Acetone	50*	100	U	250	U	100	U	10	U	10	U	10	U
Benzene	1	10	U	25	U	10	U	1	U	1	U	1	U
Carbon disulfide	60*	10	U	25	U	10	U	1	U	1	U	1	U
Chloroform	7	10	U	25	U	10	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	5900	D	5500	D	4900	D	20		72		37	
Cyclohexane	NS	10	U	50	U	20	U	1	U	1	U	2	U
Methyl cyclohexane	NS	10	U	25	U	10	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	10	U	25	U	10	U	1	U	1	U	1	U
Methylene chloride	5	2.5	J	25	U	10	U	1	U	1	U	1	U
Tetrachloroethene	5	10	U	25	U	2.9	J	1	U	1	U	100	
Toluene	5	10	U	25	U	10	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	66		37		21		0.56	J	3.3		1.4	
Trichloroethene	5	3300	D	660		450		0.38	J		1	U	28
Vinyl chloride	2	170		260	J	43	J	1.6		7.7		8.7	
Xylene, o	5	10	U	25	U	10	U	1	U	1	U	1	U
Xylenes (m&p)	5	10	U	50	U	20	U	1	U	1	U	2	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = Guidance Value

NYS, 1999. New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards. Amended August 1999

NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-3				MW-3D				MW-5				
	7/7/2008		7/11/2012		1/16/2008		7/22/2008		7/11/2012		1/15/2008		
	828072-MW003		828072-MW00306		828072-MW03D013		MW03D01301		828072-MW03D020		828072-MW005006		
	6		6		13		13		20		6		
	FS		FS		FS		FS		FS		FS		
Parameter Name	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Qualifier	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1000	U	2000	U	0.27	J	0.35	J	1	U	1	U
1,1,2-Trichloroethane	1	1000	U	2000	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1000	U	2000	U	1.3		2.5		1.9		0.93	J
1,1-Dichloroethene	5	1000	U	2000	U	0.3	J	0.41	J	1	U	1	U
Acetone	50*	1400	J	20000	U	10	U	10	U	10	U	10	U
Benzene	1	1000	U	2000	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	490	U	2000	U	1	U	0.26	J	1	U	1	U
Chloroform	7	1000	U	2000	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	180000		150000		47		160		65		0.49	J
Cyclohexane	NS	1000	U	4000	U	1	U	1	U	2	U	1	U
Methyl cyclohexane	NS	1000	U	2000	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1000	U	2000	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1000	U	2000	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1000	U	2000	U	1	U	1	U	1	U	1	U
Toluene	5	1000	U	2000	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1100		820	J	1.2		3.7		4.4		1	U
Trichloroethene	5	500000	D	650000	D	17		44		1	U	1	U
Vinyl chloride	2	7400		6500		5.6		13		22		0.26	J
Xylene, o	5	1000	U	2000	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1000	U	4000	U	1	U	1	U	2	U	1	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = Guidance Value

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NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-5		MW-5D				MW-6						
	7/21/2008		1/14/2008		7/21/2008		1/16/2008		7/21/2008		7/12/2012		
	MW00500601		828072-MW05D010		MW05D01001		828072-MW006008		MW00600101		828072-MW006008		
	6		10		10		8		10		8		
Parameter Name	Criteria	FS		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	0.91	J	0.71	J	0.4	J	1	U	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Acetone	50*	4	J	10	U	10	U	10	U	6.1	J	2.8	J
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	1	U	1	U	0.43	J	1	U	0.22	J	1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	0.58	J	1	U	1	U	1.2		2.2		0.76	J
Cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	2	U
Methyl cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	0.2	J	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene	5	1	U	0.41	J	1	U	1	U	1	U	1.1	
Vinyl chloride	2	0.43	J	1	U	1	U	1	U	1	U	1	U
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1	U	1	U	1	U	1	U	1	U	2	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-6D						MW-7						
	1/16/2008		7/23/2008		7/12/2012		1/16/2008		7/21/2008		7/12/2012		
	828072-MW06D015		MW06D01501		828072-MW06D015		828072-MW007015		MW00701501		828072-MW007015		
	15		15		15		15		15		15		
Parameter Name	Criteria	FS		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	0.57	J	0.74	J	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	2	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1.5		2.6		1.1		1	U	1	U	1	U
1,1-Dichloroethene	5	0.96	J	1	J	1	U	1	U	1	U	1	U
Acetone	50*	10	U	20	U	10	U	10	U	2	J	1.7	J
Benzene	1	1	U	2	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	1	U	0.62	J	1	U	1	U	0.2	J	1	U
Chloroform	7	1	U	2	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	220	D	380		76		0.45	J	0.36	J	0.94	J
Cyclohexane	NS	1	U	2	U	2	U	1	U	1	U	2	U
Methyl cyclohexane	NS	1	U	2	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	2	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	0.81	J	0.86	J	1	U	1	U	1	U	0.4	J
Toluene	5	1	U	2	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1.8		4.8		4.7		1	U	1	U	1	U
Trichloroethene	5	310	D	490	D	0.46	J	1	U	1	U	1	U
Vinyl chloride	2	16		38		40		1	U	1	U	1.5	
Xylene, o	5	1	U	2	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1	U	2	U	2	U	1	U	1	U	2	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

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J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-7D						MW-8						
	1/16/2008		7/21/2008		7/12/2012		1/16/2008		1/16/2008		7/24/2008		
	828072-MW07D022		MW07D02201		828072-MW07D022		828072-MW008023		828072-MW008023DUP		MW00802301		
	22		22		22		23		23		23		
Parameter Name	Criteria	FS		FS		FS		FS		FD		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	0.45	J	0.28	J	1	U	10	U	5	U	10	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	10	U	5	U	10	U
1,1-Dichloroethane	5	1.3		1.4		1		15		15		16	
1,1-Dichloroethene	5	1	U	0.2	J	1	U	6	J	6		5.7	J
Acetone	50*	10	U	10	U	10	U	100	U	50	U	100	U
Benzene	1	1	U	1	U	1	U	10	U	5	U	10	U
Carbon disulfide	60*	1	U	1	U	1	U	10	U	5	U	10	U
Chloroform	7	1	U	1	U	1	U	10	U	5	U	10	U
Cis-1,2-Dichloroethene	5	2.1		9.1		2.7		1700	D	1700	D	2000	
Cyclohexane	NS	1	U	1	U	2	U	10	U	5	U	10	U
Methyl cyclohexane	NS	1	U	1	U	1	U	10	U	5	U	10	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	10	U	5	U	10	U
Methylene chloride	5	1	U	1	U	1	U	10	U	5	U	2.7	U
Tetrachloroethene	5	0.34	J	1	U	1	U	10	U	5	U	10	U
Toluene	5	1	U	1	U	1	U	10	U	5	U	10	U
trans-1,2-Dichloroethene	5	1	U	1	U	1	U	18		15		47	
Trichloroethene	5	4.3		5.1		0.39	J	870		820		640	
Vinyl chloride	2	1	U	0.46	J	0.32	J	43		41		51	
Xylene, o	5	1	U	1	U	1	U	10	U	5	U	10	U
Xylenes (m&p)	5	1	U	1	U	2	U	10	U	5	U	10	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

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J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-8						MW-8D						
	7/24/2008		7/11/2012		7/11/2012		1/16/2008		7/24/2008		7/11/2012		
	MW00802301D		828072-MW008023		828072-MW008023D		828072-MW08D033		MW08D03301		828072-MW08D033		
	23		23		23		33		33		33		
Parameter Name	Criteria	FD		FS		FD		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	10	U	5	U	5	U	1.5		1	J	1	U
1,1,2-Trichloroethane	1	10	U	5	U	5	U	1	U	5	U	1	U
1,1-Dichloroethane	5	17		10		11		1.8		2.6	J	0.57	J
1,1-Dichloroethene	5	6.3	J	3.4	J	2.8	J	1.8		1.6	J	0.56	J
Acetone	50*	100	U	50	U	50	U	10	U	13	U	10	U
Benzene	1	10	U	5	U	5	U	1	U	5	U	1	U
Carbon disulfide	60*	10	U	5	U	5	U	1	U	5	U	0.32	J
Chloroform	7	10	U	5	U	5	U	1	U	5	U	1	U
Cis-1,2-Dichloroethene	5	2000		1300	D	1400	D	330	D	330		170	
Cyclohexane	NS	10	U	10	U	10	U	1	U	5	U	2	U
Methyl cyclohexane	NS	10	U	5	U	5	U	1	U	5	U	1	U
Methyl Tertbutyl Ether	10*	10	U	5	U	5	U	1	U	5	U	1	U
Methylene chloride	5	2.3	U	5	U	5	U	1	U	1.2	U	1	U
Tetrachloroethene	5	10	U	5	U	5	U	1.7		1	J	1	U
Toluene	5	10	U	5	U	5	U	1	U	5	U	1	U
trans-1,2-Dichloroethene	5	42		17		15		3.6		4.4	J	13	
Trichloroethene	5	610		17		21		590	D	660		79	
Vinyl chloride	2	53		89		93		20		22		8.7	
Xylene, o	5	10	U	5	U	5	U	1	U	5	U	1	U
Xylenes (m&p)	5	10	U	10	U	10	U	1	U	5	U	2	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

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J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-9						MW-9D						
	1/16/2008		7/22/2008		7/11/2012		1/16/2008		7/22/2008		7/11/2012		
	828072-MW009025		MW00902501		828072-MW009025		828072-MW09D035		MW09D03501		828072-MW09D035		
	25		25		25		35		35		35		
Parameter Name	Criteria	FS		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	0.2	J	0.2	J	1	U	0.61	J	0.79	J	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1.4		1.4		1.7		0.64	J	3.6		0.53	J
1,1-Dichloroethene	5	0.33	J	0.29	J	0.51	J	1	U	1.2		0.31	J
Acetone	50*	10	U	2.3	J	10	U	10	U	10	U	10	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	1	U	0.2	J	1	U	1	U	1	U	1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	57		53		130		14		290	D	120	
Cyclohexane	NS	1	U	1	U	2	U	1	U	1	U	2	U
Methyl cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	1	U	0.22	J	1.1		1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	0.33	J	0.92	J	0.7	J	0.42	J	3.9		20	
Trichloroethene	5	38		27		59		44		1100	D	41	
Vinyl chloride	2	4.2		6		12		0.88	J	30		4.6	
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1	U	1	U	2	U	1	U	1	U	2	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-10						MW-11						
	1/15/2008		7/21/2008		7/12/2012		1/18/2008		7/24/2008		7/12/2012		
	828072-MW010015		MW01001501		828072-MW010015		828072-MW011010		MW01101201		828072-MW011010		
	15		15		15		10		12		10		
Parameter Name	Criteria	FS		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U	1	U	0.74	J	0.64	J	1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Acetone	50*	10	U	10	U	10	U	10	U	10	U	3	J
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	1	U	1	U	1	U	1	U	1	U	1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	1	U	1	U	1	U	14		11		0.3	J
Cyclohexane	NS	1	U	1	U	2	U	1	U	1	U	2	U
Methyl cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	0.21	J	1	U
Trichloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Vinyl chloride	2	1	U	1	U	1	U	19		16		0.4	J
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1	U	1	U	2	U	1	U	1	U	2	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID		MW-11D											
Field Sample Date		1/17/2008		1/17/2008		7/24/2008		7/24/2008		7/12/2012		7/12/2012	
Field Sample ID		828072-MW11D026		828072-MW11D026DUP		MW11D02601		MW11D02601D		828072-MW11D026		828072-MW11D026D	
Field Sample Depth (ft bgs)		26		26		26		26		26		26	
QC Code		FS		FD		FS		FD		FS		FD	
Parameter Name	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	2.5	U	5	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	2.5	U	5	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	3.1	J	3.2	J	2.2		2.2		1.8		2.1	
1,1-Dichloroethene	5	2	J	2	J	0.67	J	0.7	J	0.95	J	1	
Acetone	50*	25	U	50	U	1.9	J	10	U	10	U	1.1	J
Benzene	1	2.5	U	5	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	2.5	U	5	U	1	U	1	U	1	U	1	U
Chloroform	7	2.5	U	5	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	490	J	490	DJ	170		170		270	D	260	D
Cyclohexane	NS	2.5	U	5	U	1	U	1	U	2	U	2	U
Methyl cyclohexane	NS	2.5	U	5	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	2.5	U	5	U	1	U	1	U	1	U	1	U
Methylene chloride	5	2.5	U	5	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	2.5	U	5	U	1	U	1	U	0.5	J	0.43	J
Toluene	5	2.5	U	5	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	3.2	J	3.7	J	1.1		1.2		3.5		3.3	
Trichloroethene	5	520	D	520	D	30		31		2.9		3.1	
Vinyl chloride	2	34	J	35	J	6.3		6.3		12		13	
Xylene, o	5	2.5	U	5	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	2.5	U	5	U	1	U	1	U	2	U	2	U

Notes:
 Results reported in micrograms per liter (µg/L)
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method SW8260B
 ft bgs = feet below ground surface
 QC Code:
 FS = Field Sample, FD = Field Duplicate
 Qualifiers:
 U = Not detected greater than the reporting limit
 J = Estimated value
 D = Result from diluted run
 Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).
 * = Guidance Value
 NYS, 1999. New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards. Amended August 1999
 NS = No standard or guidance value for compound
Bold = Compound detected in sample
Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-12						MW-13				MW-13D		
	1/15/2008		7/21/2008		7/12/2012		1/18/2008		7/24/2008		1/18/2008		
	828072-MW012011		MW01201101		828072-MW012011		828072-MW013006		MW01300501		828072-MW13D010		
	11		11		11		6		5		10		
Parameter Name	Criteria	FS		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U	1	U	1	U	1	U	1.1	
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	0.35	J
Acetone	50*	10	U	2	J	4.6	J	10	U	8	J	10	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	1	U	1	U	1	U	1	U	1	U	1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	42	
Cyclohexane	NS	1	U	1	U	2	U	1	U	1	U	1	U
Methyl cyclohexane	NS	1	U	1	U	1	UJ	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	0.29	J
Trichloroethene	5	1	U	1	U	1	U	0.71	J	1	U	19	
Vinyl chloride	2	1	U	1	U	1	U	1	U	1	U	3.4	
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1	U	1	U	2	U	1	U	1	U	1	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-13D				MW-13DD				MW-14				
	7/23/2008		7/11/2012		1/18/2008		7/23/2008		7/11/2012		1/17/2008		
	MW13D01001		828072-MW13D010		828072-MW13DD037		MW13DD03701		828072-MW13DD037		828072-MW014015		
	10		10		37		37		37		15		
Parameter Name	Criteria	FS		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	0.21	J	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1.2		0.87	J	0.95	J	1.8		1.6		1.4	
1,1-Dichloroethene	5	0.34	J	0.31	J	0.27	J	0.33	J	0.36	J	0.26	J
Acetone	50*	10	U	2.3	J	10	U	10	U	10	U	10	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	0.2	J	1	U	1	U	1	U	1.5		1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	57		71		35		71		100		50	
Cyclohexane	NS	1	U	2	U	1	U	1	U	2	U	0.25	J
Methyl cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	0.32	J
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1.2		1.3		0.22	J	1.5		0.7	J	0.24	J
Trichloroethene	5	42		45		37		73		100		18	
Vinyl chloride	2	5.5		5.4		1.7		6.8		9.6		3.3	
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1	U	2	U	1	U	1	U	2	U	1	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-14				MW-14D				MW-15				
	7/22/2008		7/11/2012		1/17/2008		7/22/2008		7/11/2012		1/18/2008		
	MW01401501		828072-MW014015		828072-MW14D029		MW14D02901		828072-MW14D029		828072-MW015006		
	15		15		29		29		29		6		
Parameter Name	Criteria	FS		FS		FS		FS		FS			
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
1,1,1-Trichloroethane	5	1	U	1	U	0.78	J	0.71	J	0.28	J	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1.6		1.5		1		1.1		1.4		1	
1,1-Dichloroethene	5	0.51	J	0.45	J	0.25	J	0.27	J	0.3	J	0.3	J
Acetone	50*	10	U	1	J	10	U	10	U	10	U	10	U
Benzene	1	0.25	J	1	U	1	U	1	U	1	U	0.97	J
Carbon disulfide	60*	0.22	J	1	U	1	U	1	U	1	U	1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	89		140		25		22		35		170	
Cyclohexane	NS	1	U	2	U	1	U	1	U	2	U	1	U
Methyl cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	0.4	J
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	0.83	J
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	0.23	J	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	0.94	J
trans-1,2-Dichloroethene	5	0.71	J	1.4		1	U	0.34	J	0.49	J	1.8	
Trichloroethene	5	31		63		45		38		32		33	
Vinyl chloride	2	7.2		24		1.5		2.2		1.5		11	
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	0.23	J
Xylenes (m&p)	5	1	U	2	U	1	U	1	U	2	U	0.45	J

Notes:

Results reported in micrograms per liter (µg/L)
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method SW8260B
 ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit
 J = Estimated value
 D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NYS, 1999. New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards. Amended August 1999

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Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-15D						MW-16						
	1/17/2008		7/24/2008		7/12/2012		1/18/2008		7/23/2008		7/12/2012		
	828072-MW15D019		MW15D01901		828072-MW15D019		828072-MW016008		MW01600101		828072-MW016008		
	19		19		19		8		10		8		
Parameter Name	Criteria	FS		FS		FS		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	2.5	U	2.5	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	2.5	U	2.5	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	2.4	J	2.5	J	2		1	U	1	U	1	U
1,1-Dichloroethene	5	1.2	J	1	J	0.91	J	1	U	1	U	1	U
Acetone	50*	10	U	10	U	1.1	J	10	U	10	U	10	U
Benzene	1	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Chloroform	7	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	260		250		290	D	1	U	1	U	1	U
Cyclohexane	NS	2.5	U	2.5	U	2	U	1	U	1	U	2	U
Methyl cyclohexane	NS	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Methylene chloride	5	2.5	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Toluene	5	2.5	U	2.5	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	2	J	5.2		2.2		1	U	1	U	1	U
Trichloroethene	5	410		50		51		1	U	1	U	1	U
Vinyl chloride	2	15		12		19		1	U	1	U	1	U
Xylene, o	5	2.5	U	2.5	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	2.5	U	2.5	U	2	U	1	U	1	U	2	U

Notes:

Results reported in micrograms per liter (µg/L)
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method SW8260B
 ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	MW-16D				MW-17				MW-17D				
	7/22/2008		7/12/2012		1/17/2008		7/22/2008		1/17/2008		7/21/2008		
	MW16D01901		828072-MW16D019		828072-MW017007		MW01700701		828072-MW17D018		MW17D01801		
	19		19		7		7		18		18		
	FS		FS		FS		FS		FS		FS		
Parameter Name	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	2		0.56	J	1	U	1	U	0.21	J	0.25	J
1,1-Dichloroethene	5	1.2		1	U	1	U	1	U	1	U	1	U
Acetone	50*	1.7	J	1.2	J	10	U	12		10	U	10	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	1	U	1	U	1	U	0.2	J	1	U	1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	230	D	23		1	U	1	U	15		11	
Cyclohexane	NS	1	U	2	U	1	U	1	U	1	U	1	U
Methyl cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	2.6		0.48	J	1	U	1	U	0.44	J	0.43	J
Trichloroethene	5	14		0.29	J	1	U	1	U	0.61	J	0.31	J
Vinyl chloride	2	11		31		1	U	1	U	7.8		14	
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1	U	2	U	1	U	1	U	1	U	1	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NYS, 1999. New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards. Amended August 1999

NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Parameter Name	Location ID	MW-17D		MW-18				MW-18D					
	Field Sample Date	7/12/2012		1/15/2008		7/24/2008		7/12/2012		1/17/2008		7/24/2008	
	Field Sample ID	828072-MW17D018		828072-MW018009		MW01800901		828072-MW018009		828072-MW18D019		MW18D01901	
	Field Sample Depth (ft bgs)	18		9		9		9		19		19	
	QC Code	FS		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1	U	2.5	U	2.5	U	1	U	2.5	U	1	U
1,1,2-Trichloroethane	1	1	U	2.5	U	2.5	U	1	U	2.5	U	1	U
1,1-Dichloroethane	5	1	U	3.2		3.6		2		1.7	J	1.6	
1,1-Dichloroethene	5	1	U	0.8	J	2.5	U	1	U	0.62	J	0.67	J
Acetone	50*	10	U	25	U	10	U	1.3	J	10	U	10	U
Benzene	1	1	U	2.5	U	2.5	U	1	U	2.5	U	1	U
Carbon disulfide	60*	1	U	0.88	J	0.6	J	1	U	2.5	U	0.37	J
Chloroform	7	1	U	2.5	U	2.5	U	1	U	2.5	U	1	U
Cis-1,2-Dichloroethene	5	4.4		380	D	320		54		280		180	D
Cyclohexane	NS	2	U	2.5	U	2.5	U	2	U	2.5	U	1	U
Methyl cyclohexane	NS	1	U	2.5	U	2.5	U	1	UJ	2.5	U	1	U
Methyl Tertbutyl Ether	10*	1	U	2.5	U	2.5	U	1	U	2.5	U	1	U
Methylene chloride	5	1	U	2.5	U	2.5	U	1	U	2.5	U	1	U
Tetrachloroethene	5	1	U	2.5	U	2.5	U	0.31	J	2.5	U	1	U
Toluene	5	1	U	2.5	U	2.5	U	1	U	2.5	U	1	U
trans-1,2-Dichloroethene	5	1	U	1.4	J	5		1.3		1.5	J	2.6	
Trichloroethene	5	1	U	0.92	J	2.5	U	0.23	J	26		8.9	
Vinyl chloride	2	4.5		18		120		55		19		12	
Xylene, o	5	1	U	2.5	U	2.5	U	1	U	2.5	U	1	U
Xylenes (m&p)	5	2	U	2.5	U	2.5	U	2	U	2.5	U	1	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Parameter Name	Location ID	MW-18D		MW-19				MW-19D					
	Field Sample Date	7/12/2012		1/15/2008		7/23/2008		3/11/2009		1/15/2008		7/22/2008	
	Field Sample ID	828072-MW18D019		828072-MW019006		MW01900601		828072-MW01900603		828072-MW19D014		MW19D01401	
	Field Sample Depth (ft bgs)	19		6		6		6		14		14	
	QC Code	FS		FS		FS		FS		FS		FS	
Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1.2		0.87	J	1	U	1	U	0.22	J	0.35	J
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Acetone	50*	1.1	J	10	U	10	U	10	UJ	10	U	2.3	J
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	1	U	1	U	0.26	J	1	UJ	1	U	0.21	J
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	180		0.56	J	1.2	U	1	U	4.7		7.8	
Cyclohexane	NS	2	U	1	U	1	U	2	U	1	U	1	U
Methyl cyclohexane	NS	1	UJ	1	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1.7		1	U	1	U	1	U	1	U	0.26	J
Trichloroethene	5	1	U	1	U	1	U	1	U	1	U	0.24	J
Vinyl chloride	2	34		0.27	J	4.6		1	U	10		33	
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	2	U	1	U	1	U	2	U	1	U	1	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = Guidance Value

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NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Parameter Name	Criteria	MW-19D		MW-20		MW-20D			
		7/12/2012		3/11/2009		7/22/2008		7/12/2012	
		828072-MW19D014		828072-MW02000603		MW20D01901		828072-MW20D019	
		14		6		19		19	
		QC Code		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U	0.42	J	1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U
Acetone	50*	1.4	J	10	UJ	10	U	1.7	J
Benzene	1	1	U	1	U	0.62	J	1	U
Carbon disulfide	60*	1	U	1	UJ	0.33	J	1	U
Chloroform	7	1	U	1	U	0.39	J	1	U
Cis-1,2-Dichloroethene	5	2.1		1	U	1.8		1.1	
Cyclohexane	NS	2	U	2	U	0.57	J	2	U
Methyl cyclohexane	NS	1	UJ	1	U	0.81	J	1	UJ
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1		1	U
trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U
Trichloroethene	5	1	U	1	U	0.22	J	1	U
Vinyl chloride	2	14		1	U	1.6		0.54	J
Xylene, o	5	1	U	1	U	0.27	J	1	U
Xylenes (m&p)	5	2	U	2	U	0.81	J	2	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

* = Guidance Value

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NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	GPZ-1D						GPZ-1S1						
	1/17/2008		7/23/2008		7/12/2012		1/17/2008		7/23/2008		7/12/2012		
	828072-GPZ1D014		GPZ1D01401		828072-GPZ1D014		828072-GPZ1S1008		GPZ1S100101		828072-GPZ1S1008		
	14		14		14		8		10		8		
	FS		FS		FS		FS		FS		FS		
Parameter Name	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	10		15		9.8		1	U	1	U	1	U
1,1-Dichloroethene	5	0.23	J	0.4	J	0.32	J	1	U	1	U	1	U
Acetone	50*	10	U	10	U	4.9	J	2.7	J	10	U	1.2	J
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	1	U	0.34	J	1	U	1	U	0.28	J	1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	46		86		83		1	U	1	U	1	U
Cyclohexane	NS	1	U	1	U	2	U	1	U	1	U	2	U
Methyl cyclohexane	NS	1	U	1	U	1	UJ	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	0.36	J	1.4		2.1		1	U	1	U	1	U
Trichloroethene	5	39		87		38		1	U	1	U	1	U
Vinyl chloride	2	23		34		23		1	U	1	U	1	U
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1	U	1	U	2	U	1	U	1	U	2	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NYS, 1999. New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards. Amended August 1999

NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	GPZ-2D						GPZ-2S1						
	1/17/2008		7/23/2008		7/12/2012		1/16/2008		7/23/2008		7/12/2012		
	828072-GPZ2D020		GPZ2D02001		828072-GPZ2D020		828072-GPZ2S1014		GPZ2S101401		828072-GPZ2S1014		
	20		20		20		14		14		14		
	FS		FS		FS		FS		FS		FS		
Parameter Name	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	1	U	10	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	10	U
1,1-Dichloroethane	5	1	U	1	U	1	U	1	U	1	U	10	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	10	U
Acetone	50*	1	J	10	U	10	U	10	U	10	U	100	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	10	U
Carbon disulfide	60*	1	U	1	U	1	U	1	U	0.23	J	10	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	10	U
Cis-1,2-Dichloroethene	5	1	U	1	U	1	U	0.32	J	1	U	10	U
Cyclohexane	NS	1	U	1	U	2	U	1	U	1	U	20	U
Methyl cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	10	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	10	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	10	U
Tetrachloroethene	5	1	U	1	U	1	U	1	U	1	U	10	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	10	U
trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U	10	U
Trichloroethene	5	1	U	1	U	1	U	1	U	1	U	10	U
Vinyl chloride	2	1	U	1	U	1	U	1	U	1	U	10	U
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	10	U
Xylenes (m&p)	5	1	U	1	U	2	U	1	U	1	U	20	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NYS, 1999. New York Codes, Rules, and Regulations, Title 6, Part 700-705 Water Quality Regulations Surface Water and Groundwater Classifications and Standards. Amended August 1999

NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	GPZ-5D				GPZ-5S				GPZ-6D				
	1/16/2008		7/22/2008		7/11/2012		1/16/2008		7/11/2012		1/17/2008		
	828072-GPZ5D025		GPZ5D02501		828072-GPZ5D025		828072-GPZ5S018		828072-GPZ5S018		828072-GPZ6D028		
	25		25		25		18		18		28		
	FS		FS		FS		FS		FS		FS		
Parameter Name	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	0.32	J	0.35	J	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1.7		2		1.6		0.73	J	0.44	J	7	
1,1-Dichloroethene	5	0.69	J	0.6	J	0.62	J	1	U	1	U	0.82	J
Acetone	50*	10	U	10	U	10	U	10	U	10	U	10	U
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60*	1	U	1	U	1	U	1	U	1	U	1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	150		150		100		68		16		120	
Cyclohexane	NS	1	U	1	U	2	U	1	U	2	U	1	U
Methyl cyclohexane	NS	1	U	1	U	1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	0.36	J	1	U	1	U	1	U	1	U	1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	2.2		2.4		2.4		0.37	J	0.31	J	0.72	J
Trichloroethene	5	320	D	160		120		68		1.3		19	
Vinyl chloride	2	5.8		11		7.7		1	U	27		27	
Xylene, o	5	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (m&p)	5	1	U	1	U	2	U	1	U	2	U	1	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 3: Historical Groundwater VOC Results

Location ID Field Sample Date Field Sample ID Field Sample Depth (ft bgs) QC Code	GPZ-6D				GPZ-6S						
	7/22/2008		7/11/2012		1/17/2008		7/22/2008		7/11/2012		
	GPZ6D02801		828072-GPZ6D028		828072-GPZ6S019		GPZ6S01901		828072-GPZ6S019		
	28		28		19		19		19		
	FS		FS		FS		FS		FS		
Parameter Name	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	5	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	5	U
1,1-Dichloroethane	5	7.5		6.9		1	U	1	U	5	U
1,1-Dichloroethene	5	0.72	J	0.63	J	1	U	1	U	5	U
Acetone	50*	1.8	J	10	U	1.7	J	2.2	J	50	U
Benzene	1	1	U	1	U	1	U	1	U	5	U
Carbon disulfide	60*	0.24	J	1	U	1	U	0.33	J	5	U
Chloroform	7	1	U	1	U	1	U	1	U	5	U
Cis-1,2-Dichloroethene	5	120		120		1	U	1	U	5	U
Cyclohexane	NS	1	U	2	U	1	U	1	U	10	U
Methyl cyclohexane	NS	1	U	1	U	1	U	1	U	5	U
Methyl Tertbutyl Ether	10*	1	U	1	U	1	U	1	U	5	U
Methylene chloride	5	1	U	1	U	1	U	1	U	5	U
Tetrachloroethene	5	1	U	1	U	1	U	1	U	5	U
Toluene	5	1	U	1	U	0.23	J	1	U	5	U
trans-1,2-Dichloroethene	5	1.6		1.5		1	U	1	U	5	U
Trichloroethene	5	12		3.4		1	U	1	U	5	U
Vinyl chloride	2	20		23		1	U	1	U	5	U
Xylene, o	5	1	U	1	U	1	U	1	U	5	U
Xylenes (m&p)	5	1	U	2	U	1	U	1	U	10	U

Notes:

Results reported in micrograms per liter (µg/L)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method SW8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample, FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

D = Result from diluted run

Criteria = Groundwater guidance or standard values from Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (NYSDEC, 1998).

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Amended August 1999

NS = No standard or guidance value for compound

Bold = Compound detected in sample

Highlighted results exceed criteria

Table 5.2: TCE Trends in Groundwater

Well ID	Dec-94	Aug-96	Oct-97	Jan-98	Aug-98	Oct-98	Mar-99	Nov-99	Dec-00	Oct-04	Jan-08	Jul-08
MW-1D	6,000	9,900	270	1,300	910	5500	1,000		3,800		190	270
MW-2	1,600	1,000		940	410		580		21,000		NA	3,300
MW-2D		13		1	4.7	6.3	3.8		2.2		0.38	ND
MW-3	350,000	550,000	310,000	510,000			210,000		460,000			500,000
MW-3D	350	850	51	60	260	440	65		140	34	17	44
MW-6		ND		ND	ND	ND	ND		ND	ND	ND	ND
MW-6D		1,400	ND	1,000	320	290	150		230	210	310	490
MW-7						ND	ND		ND		ND	ND
MW-7D						41	39		2.5		4.3	5.1
MW-8								810	460	410	870	640
MW-8D								590	37	170	590	660
MW-9								55	19		38	27
MW-9D								79	47		44	1,100
MW-11										ND	ND	ND
MW-11D										18	520	30
MW-12										ND	ND	ND
MW-13										28	0.71	ND
MW-13D										27	19	42
GPZ-1D										5 J	39	87
GPZ-2D										28	ND	ND
GPZ-6D										ND	19	12

Notes:

- Concentrations are results for trichloroethene; results are in micrograms per liter
- Blank spaces indicate data not available
- ND = TCE not detected above method detection limit
- 1994-2000 data from Radian Engineering, as presented from the NYSDEC to MACTEC
- 2004 data from Barron & Associates, 2005
- 2008 samples collected by MACTEC
- Data presented if wells sampled by MACTEC and if data was available for previous sample rounds

APPENDIX A

SURVEY DATA

Appendix A contains the site survey prepared by Popli Consulting Engineers and Surveyors at the Erdle Perforating Company Site between 2007 and 2008. This information is offered for consideration when planning the remedial work.

NYSDEC ERDLE PERFORATING SITE

EXISTING SAMPLE LOCATIONS- LOCATED BY SURVEY PERFORMED 3/1/2008

Survey Performed by Popli Design Group, Penfield, NY

POINT ID	NAD 83/96 - NYSPCS WEST (US SURVEY FT.)		NAVD88 (US SURVEY FT.)	DESC.
	NORTHING	EASTING	ELEVATION	
MW-D-1	1144519.6	1379967.2	555.02	GROUND
			557.54	CASING
MW-1D	1144532.3	1380000.0	556.49	GROUND
			559.07	CASING
			558.91	RISER
MW-1DD	1144528.7	1379994.8	556.46	GROUND
			558.42	CASING
			558.30	RISER
MW-2	1144478.9	1380047.9	555.49	GROUND
			557.81	CASING
			557.42	RISER
MW-2D	1144483.7	1380043.6	555.59	GROUND
			557.32	CASING
MW-3D	1144471.6	1380005.1	554.76	GROUND
			556.87	CASING
MW-4	1144523.6	1379934.2	555.41	GROUND
			557.06	CASING
			556.94	RISER
MW-4D	1144516.9	1379933.8	555.46	GROUND
			557.51	CASING
MW-5	1144940.3	1380027.6	555.00	GROUND
			555.00	CASING
			554.76	RISER
MW-5D	1144938.6	1380032.1	555.16	GROUND
			555.36	CASING
MW-6	1144405.9	1379957.6	554.14	GROUND
			556.34	CASING
			556.36	RISER
MW-6D	1144340.7	1379960.1	553.76	GROUND
			555.67	CASING
MW-7	1144312.6	1380014.1	553.89	GROUND
			556.48	CASING
			556.24	RISER
MW-7D	1144316.0	1380009.1	553.70	GROUND
			555.49	CASING
MW-8	1144077.7	1379996.2	565.37	GROUND
			566.73	CASING
			566.80	RISER
MW-8D	1144079.8	1380000.2	565.25	GROUND
			566.65	CASING
MW-9	1144035.0	1379910.9	567.01	GROUND
			568.86	CASING
			568.91	RISER
MW-9D	1144036.5	1379916.4	566.76	GROUND
			568.86	CASING
MW-10	1144352.3	1379863.4	553.86	GROUND
			557.03	CASING
			556.90	RISER
MW-12	1143932.8	1380455.6	554.66	GROUND
			557.74	CASING
			557.60	RISER
GPZ-1S1	1143878.9	1379994.7	552.70	GROUND
GPZ-1S2	1143876.0	1379996.6	552.69	GROUND
GPZ-1D	1143873.0	1379997.9	552.99	GROUND
GPZ-2S1	1143971.4	1379807.5	562.79	GROUND
GPZ-2S2	1143970.3	1379806.5	562.58	GROUND
GPZ-2D	1143969.1	1379805.7	562.38	GROUND
GPZ-5S	1144115.6	1380061.4	563.99	GROUND
GPZ-5D	1144113.7	1380058.4	564.08	GROUND
GPZ-6S	1144151.9	1380168.9	563.72	GROUND
GPZ-6D	1144150.6	1380165.8	564.25	GROUND
GPZ-7S	1144404.7	1380172.4	557.95	GROUND
GPZ-7D	1144402.0	1380171.2	557.82	GROUND

NYSDEC ERDLE PERFORATING SITE

Survey of Sample Locations Completed from 12/2007 to 7/2008.

Survey Performed by Popli Design Group, Penfield, NY

ID	NAD 83/96 - NYSPCS WEST (US SURVEY FEET)		NAVD88 (US SURVEY FEET)	DESC.
	NORTHING	EASTING	ELEVATION	
MW 11	1143571.4	1380264.4	553.55	GROUND
			556.75	CASING
			556.60	RISER
MW 11D	1143564.8	1380271.7	554.05	GROUND
			557.81	CASING
			555.09	RISER
MW 13	1143217.5	1380158.8	553.57	GROUND
			553.63	CASING
			553.33	RISER
MW 13D	1143215.3	1380165.4	553.71	GROUND
			553.79	CASING
			553.40	RISER
MW 13DD	1143220.3	1380149.2	553.55	GROUND
			553.60	CASING
			553.33	RISER
MW 14	1143172.6	1379837.7	552.96	GROUND
			552.97	CASING
			552.78	RISER
MW 14D	1143170.5	1379836.0	552.88	GROUND
			553.01	CASING
			552.64	RISER
MW 15	1143189.0	1380373.6	553.18	GROUND
			553.30	CASING
			553.11	RISER
MW 15D	1143190.4	1380376.0	553.22	GROUND
			553.28	CASING
			553.09	RISER
MW 16	1143362.1	1380725.0	553.94	GROUND
			553.96	CASING
			553.78	RISER
MW 17	1143645.5	1380795.9	553.88	GROUND
			553.95	CASING
			553.43	RISER
MW 17D	1143644.6	1380799.9	554.01	GROUND
			554.09	CASING
			553.73	RISER
MW 18	1142854.1	1380205.6	552.34	GROUND
			552.25	CASING
			551.84	RISER
MW 18D	1142854.3	1380200.7	552.28	GROUND
			552.23	CASING
			551.72	RISER
MW 19	1142686.5	1380552.2	551.98	GROUND
			552.02	CASING
			551.43	RISER
MW 19D	1142690.3	1380555.5	552.03	GROUND
			551.95	CASING
			551.55	RISER
PS 1	1142919.1	1379997.1	547.6	GROUND
PS 11	1143440.4	1380036.7	550.0	GROUND
PS 12	1143353.6	1379945.8	549.7	GROUND
PS 13	1143248.9	1379828.4	549.5	GROUND
PS 14	1143178.1	1379740.1	549.9	GROUND
PS 7	1142770.8	1380271.3	547.3	GROUND
PS 8	1142617.8	1380453.7	547.4	GROUND
PS 9	1143633.1	1380245.7	550.3	GROUND
PZ 1	1142955.3	1379945.5	549.6	TOP OF PIPE
PZ 2	1142825.9	1380201.9	549.1	TOP OF PIPE
PZ 3	1142895.5	1380325.7	549.3	TOP OF PIPE
MW-16D	1143396.3	1380733.8	553.94	GROUND
			553.97	CASING
			553.64	RISER
MW-20D	1142981.0	1380694.6	553.59	GROUND
			553.64	CASING
			553.34	RISER
MW-20	1142988.1	1380691.8	553.62	GROUND
			553.70	CASING
			553.39	RISER

APPENDIX B

BORING LOGS

Appendix B contains soil boring and rock coring logs are taken from Erdle Perforating Company Site investigation reports. In general, the logs depict onsite and nearby area subsurface conditions observed at various times between 2007 and 2008. The intent of the logs is to depict onsite and nearby area observed subsurface conditions. This information is being offered for consideration when planning the remedial work.

SOIL BORING LOG

Client: NYSDEC / ERDLE		Project No. 3612072096--		AOC:	
Contractor: Geologic		Date Started: 12/10/07		Boring No.: MW-13DD	
Method: HSA/Cone		Casing Size: 3 7/8" ID / 6" casing		Protection: D	
Ground Elev.: 553.55		Soil Drilled: 8.8'		Completed: 12/20/07	
Logged by: JLR		Checked by: CRS 3/5/08		PI Meter: TE-58005 10.6 eV	
Screen: 10 (ft.)		Riser: 32.5 (ft.)		Total Depth: 41.2' BGS	
		Diam: 2 (ID)		Material: Sch 40 ARL	
				Below Ground: 2.2'	
				Page 1 of 4	

DEPTH (FT)	SAMPLE NUMBER	SAMPLE DEPTH	BLOW COUNTS	RECOVERY	PI/D/ID (ppm)	SOIL DESCRIPTION	SOIL CLASS	ANALYTICAL SAMPLE COLLECTED	WELL DATA
1	S1 0-2	0-2	5/4/3/5	2.0 2.0	0.3	0 - 1.7 Dark brown (10YR 3/3) to olive brown (2.5Y 4/4) fine sand with silt and traces of med-coarse sand asphalt at = 1' BGS. Very moist; stratified fill material. 1.7-2.0 Dark yellowish brown fine sand (10Y 4/6) with a trace of silt.	SM	NA SMA	
2	S2 2-4	2-4	5/4/4/12	1.5 2.0	0.0	Reddish brown (5YR 4/4) to yellowish red (5YR 4/6) silt with a little fine sand and clay. Stiff, foliated appearance with mottled gray fissures vertical then central and ML root fibers.			
3									
4	1305 S3 4-6	4-6	3/5/7/7	1.9 2.0	0.0	Reddish brown to olive brown (2.5Y 4/3) silt and clay with traces of fine sand some gray mottled fissures/root fibers. Stiff, moist, foliated appearance.	ML/CU		
5									
6	S4 6-8	6-8	7/5/7/5	1.4 2.0	0.0	Reddish brown to olive brown silt and clay becomes sandy in bottom 0.6' of sample. Olive brown to olive gray to gray fine sandy silt with a little med-coarse sand and traces of gravel. Very moist at end of sample.	ML/CU		
7									
8	S5 8-8.8	8-8.8	3/50	0.7 0.5	1.0	Reddish brown to grayish brown (2.5Y 3/2) clay and silt, end of sample is grayish brown gravel with silt and sand, very wet and broken up with a slight odor. Refusal with spoon at 8.8' BGS.	GM/SM/SC		
9	1405								
10									

PID on washwater
90.4 to 11.5 = 0.2 - 2.2 ppm
slight odor on washwater
possible screen.

Soft weathered rock or soil seam 10.7 - 10.7
Hard rock from 10.7 to 11.5'
Stopped socket at 11.5' - set and grouted 4" 10 steel casing in borehole - going to let grout set up and return later to core rock to x 40' BGS.

ROCK CORING LOG

Project: EROLE		Site: EROLE Hidden Valley		Exploration/Well No.: MW-13DD		Project No.: 3612072094-2.1	
Client: NYSDEC		Driller's Name: Dave Lyons		Logged by: JLR		Checked by: CRS	
Drilling Contractor: Geologic NY		Protection Level: D		Rig Type: ATV		Start Date: 12/10/07	
Drilling Method: H core-wireline		P.I.D. (eV): 10.6		Casing Size: 6 3/4"		Finish Date: 12/20/07	
Bit type/size: H(4"OD)		Bit Use: <input checked="" type="checkbox"/>		Core Interval (to/from)(ft): 13 - 41.2			

Depth (feet) Below GRD Sort.	Sample No. & Penetration/Recovery (feet)	Graphic Log	Natural Core Breaks			Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition	Weathered Condition	Total 4" Core	RQD (%)	Rock Quality Description			
13	Broken up rubble Dark gray with lots of vesicles/vesicles vugs						83% Good			Run #1 13.0-14.8 cored 1.8 rec 1.7 Core blocked at 14.8'	
14	Broken up fracture and						PIN=0.2			lots of rubble hematite etc	
15	small vesicles vugs Fracture						1.2' 100% Excellent			Run #2 14.8-16 cored 1.2 Start 0930 rec 1.2 End 0934	
16	numerous vesicles/vugs						4.7' 94% Excellent			Run #3 16-21 cored 5.0' Start 0950 end 1012 End	
17	Fracture small vesicles shell fossils vugs						PIN=0				
18	Fracture						PIN=0			Numerous horizontal bedding planes	
19	vesicles - rock lighter gray colored						PIN=0				
20	Fracture or mesh and mesh Fracture or mesh and mesh lighter colored						PIN=0				
21	light colored red gray possible fractures						4.5' 90% Excellent			Run #4 21-26 cored 5' rec 5' Start 1017 End 1032	
22	possible fractures						PIN=0				
23	possible fractures						PIN=0				
24	likely fracture zone areas of light brown rock in the gray matrix.						PIN=0				
25	possible fractures some shell fossils shell-like fossils						PIN=0				

Bedrock appears to be a gray to light gray to brownish gray colored, medium grained dolomitic limestone, with numerous vugs, fossils, and stylolites. consistent with descriptions of the Pentfield member of the Lockport Formation

ROCK CORING LOG

Project: EROLE	Site: Hidden Valley Development	Exploration/Well No.: MW-13DD	Project No.: 361207244-2.1
Client: XYSDEC	Driller's Name: Dave Lyons	Logged by: JKR	Checked by: CRS
Drilling Contractor: Geologic	Protection Level: D	Rig Type: RTU	Start Date: 12/14/07
Drilling Method: H Core	P.I.D. (eV): 10.6	Casing Size: 6"	Finish Date: 12/20/07
Bit type/size: H(4"OD)	Bit Use: /	Core Interval (to/from)(ft): 13-41.2	

Depth (feet) Below GRD Sort.	Sample No. & Penetration/Recovery (feet)	Graphic Log	Natural Core Breaks			Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition	Weathered Condition	Total 4" Core	RQD (%)	Rock Quality Description			
26		Fracture with calcite in layers of fossil shells/corals?								Run #5 26-31' corals 5' rec 5.1'	
27		Fossil shells/corals?				5.0'	100%	Excellent			
28											
29											
30		Dissolution fracture with light brown with some calcite crystals								Run #6 31-36' corals 5' rec 5.1' Start End 1245	
31		Fossil shells/corals				4.6'	92%	Excellent			
32		Occasional fossil shells									
33		light brown calcareous/calcite with silty along face									
34		occasional fossil shells/corals									
35		Poss. Fracture or mechanical break									
36		Fracture with silty									
37											

CRS

ROCK CORING LOG

Project: EROLE		Site: Indian Valley Station Division		Exploration/Well No.: MW-13 DD		Project No.: 3612072094-02.1	
Client: NYSDEC		Driller's Name: Dave Lyons		Logged by: JKR		Checked by: CRS	
Drilling Contractor: Geologic NY		Protection Level: D		Rig Type: ATV		Start Date: 12/10/07	
Drilling Method: H-core		P.I.D. (eV): 10.6		Casing Size: 6 3/4"		Finish Date: 12/20/07	
Bit type/size: H (4=00)		Bit Use: <input checked="" type="checkbox"/>		Core Interval (to/from)(ft): 13-41.2			

Depth (feet) Below GRD Sort.	Sample No. & Penetration/ Recovery (feet)	Graphic Log	Natural Core Breaks			Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition	Weathered Condition	Total 4" Core	RQD (%)	Rock Quality Description			
		Light brown calcite	subbling?			4.7'	86%	Good			Run #7 36-41.2 Core 5' Rec 5.2' Start 1249 End 1322
37		Fracture zone									
		Dissolved void with calcite crystals									
38		stylolites									
39		Fractures									
		Occasional shell fossils									
40		Fracture									
		Some vesicles voids									
41											
42											
		Bottom of boring = 41.2' OBS									

CRS

SOIL BORING LOG

Client: NYS DEC / ERNLE				Project No. 3012072014		AOC: ✓	
Contractor: Geologic				Date Started: 12/13/07		Boring No.: MW-14D	
Method: HS / Direct Push				Casing Size: 3 1/4" ID / 4" ID		Protection: D	
Ground Elev.: 552.88				Soil Drilled: 18.5		Completed: 12/18/07	
Logged by: TKR				Checked by: CRS 3/5/09		PI Meter: TE-580B 10.6eV	
Screen: 10 (ft.)				Riser: 23 (ft.)		Total Depth: 34.1	
Diam: 2" (ID)				Material: Sch 40 RR		Below Ground: 3.65	
Page 1 of: 4							

DEPTH (FT)	SAMPLE NUMBER	SAMPLE DEPTH	BLOW COUNTS	RECOVERY	PID/FID (ppm)	SOIL DESCRIPTION	SOIL CLASS	ANALYTICAL SAMPLE COLLECTED	WELL DATA
1	S1	0	2/3/5/9	1.4	0	Dark brown (10YR 3/1) fine sand with some gravel silt. Moist root fibers grade to yellowish brown to dark yellowish brown fine sand with some silt. Moist, well (stratified)	SM		
2	S2	2	8/7/11/12	1.8	0	Yellowish brown to dark yellowish brown (10YR 5/6-4/4) fine sand with a trace of silt and medium sand. Slightly stratified. Moist to very moist.	SP/SM		
3									
4	S3	4	7/4/4/8	1.2	0	Dark yellowish brown to brown (7.5YR 5/4) fine sand with a trace of silt and medium sand grading to silty fine sand. Wet.	SM		
5									
6	S4	6	5/9/14/17	2.0	0	Brown fine sand with a trace of silt and clay silt layers grading to dark reddish brown silt (5YR 3/3) silt to clay/silt matrix with a little fine-coarse sand and trace of gravel. Moist, dense.	SM		
7									
8	S5	8	7/7/11/15	1.2	0	Dark reddish brown silt matrix to clay silt matrix with some to little fine-coarse sand and a trace of gravel. Possible sand lens at top but more likely uneven. Very moist silt.	MY/CL		
9									
10									

SOIL BORING LOG

AOC:
 Boring No.: MW-14D

Client: NYSDEC / EADLE Project No. 3412072094

Protection: 1)

Contractor: Ecologic Date Started: 12/18/07

Completed: 12/18/07

Method: HSA / Pave Casing Size: 3 3/4 ID / 6"

PI Meter: TE-580B 10.6eV

Ground Elev.: 552.88 Soil Drilled: 18.5'

Total Depth: 34.1

Logged by: JLR Checked by: CRS 3/5/08

Below Ground: 3.65'

Screen: 10 (ft.) Riser: 23 (ft.) Diam: 2" (ID) Material: Sch 40 PVC

Page 2 of 4

DEPTH (FT)	SAMPLE NUMBER	SAMPLE DEPTH	BLOW COUNTS	RECOVERY	PID/FID (ppm)	SOIL DESCRIPTION	SOIL CLASS	ANALYTICAL SAMPLE COLLECTED	WELL DATA
11	56	10	4/5/7/8	0.1 2.0	0	Reddish brown to reddish gray silt to clayey silt with traces of fine-medium sand along some layers. Moist, well stratified, stiff.	mycc	4/4-5/2	
12	57	12	4/4/4	1.7 2.0	0.1	Reddish brown to reddish gray silt and clay silt with traces of finesand. Moist to very moist, soft to firm, very well stratified.	mycc		
14	58	14	14/11/5	0.9 2.0	0.3	Reddish brown to reddish gray to gray. Top 0.3 is similar to 57. Bottom 0.6 is sand and gravel with some silt. Wet, loose.	mycc		
17	59	16	7/4/4/7	0.8 2.0	0.1	Coarse sand with some silt. Wet. Faint odor in sand and gravel.	GM/GP		
18	510	18.5	50/0.5			Coarse sand with silt. Encountered refusal with R spoon at 18.5 BGS. Used Tricone to drill 6" rock socket 18.5 to 20' BGS. Cemented 4" steel casing to 20'.	GM		

ROCK CORING LOG

Project: EROLE		Site: Hidden Valley Development Cates NY		Exploration/Well No.: MW-140		Project No.: 3612072094-2.1	
Client: NYSDEC		Driller's Name: Dave Lyons		Logged by: JLR	Checked by: CRS	Ground Elev.: 552.83	
Drilling Contractor: GEOLOGIC (NY)		Protection Level: D		Rig Type: ATV	Start Date: 12/14/07	Finish Date: 12/18/07	
Drilling Method: Hcore				P.I.D. (eV): TC-350310.6	Casing Size: 4"	Auger Size: —	
Bit type/size: H(4"OD)		Bit Use: —		Core Interval (to/from)(ft): 20-34			

Depth (feet) Below GRD Sort.	Sample No. & Penetration/ Recovery (feet)	Graphic Log	Natural Core Breaks			Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition	Weathered Condition	Total 4" Core	RQD (%)	Rock Quality Description			
21	natural breaks with vesicles					3.4'	85%	Good			1308 Strat core run #1 - 1321 Run #1 20-24' has my water 20-20.5' Cored 4' recovered 3.55'
22	mechanical break										Bedrock is a gray to light gray dolomitic limestone with some brownish gray layers, medium grained with numerous vugs, fossils, and some siltolite.
23	white calcite vein										(Pen field Member - hickport Formation)
23	weather area with vesicles possible natural break										
23	mechanical?										
24	Fossil shell/coal/band iron?										
24	Fracture					5.0'	100%	Excellent			Run #2 24-29' 1357 - 1408 Cored 5' recovered 5'
25	Mechanical break										24-25.2 lots of light brownish creamy colored areas with some vesicles and shell fossils
26											Numerous horizontal breaks or fractures along bedding planes or planes of weakness.
27	Possible fracture										25.2 - 27' Gray with shell containing layers which tend to be vesicular
28											27-29 Dark gray with medium shell impressions grouping along layers vesicular areas.
29	cored fossil shells/coal					4.8'	76%	Excellent			Run #3 29-34' OGS 1436 Strat run. 1459 End run Possible color from core PID=0.3ppm
30	apparent fracture										
30	cored fossil shells/coal										
31											

ROCK CORING LOG

Project: EROLE		Site: Hidden Valley Subdivision		Exploration/Well No.: MW-14D		Project No.: 342072014	
Client: NYSDEC		Driller's Name: Dave Lyons		Logged by: JKR		Checked by: CRS	
Drilling Contractor: Geologic NY		Protection Level: D		Rig Type: ATV		Start Date: 12/14/07	
Drilling Method: H core		P.I.D. (eV): TE-550B 10kV		Casing Size: 4"		Auger Size: NA	
Bit type/size: Diamond H (4" OD)		Bit Use: —		Core Interval (to/from)(ft): 20-34"			

Depth (feet) Below GRD Sort.	Sample No. & Penetration/ Recovery (feet)	Graphic Log	Natural Core Breaks			Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition	Weathered Condition	Total 4" Core	RQD (%)	Rock Quality Description			
31											Run #3 29-34 1436-1459 Cored 5' recovered 5' Possibly doler from fractures PID = 600 ppm
32											
33											
34											Bottom of borehole = 34.1' BGS

SOIL BORING LOG

AOC:

Boring No.: MW-15 D

Client: NYSDEC - ERDLE

Project No. 3612072096

Protection: D

Contractor: Geologic

Date Started: 12/13/07

Completed: 12/20/07

Method: HSA/Drill + Wash

Casing Size: 3 1/4" ID / 6" ID

PI Meter: TE-580B 10.6 dV

Ground Elev.:

Soil Drilled: 7.5'

Total Depth: 24.6'

Logged by: JKR

Checked by: CR5 7/5/08

Below Ground: 3.4'

Screen: 10 (ft.)

Riser: 13.6 (ft.)

Diam: 2 (ID)

Material: Scl 40 PVC

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DEPTH (FT)	SAMPLE NUMBER	SAMPLE DEPTH	BLOW COUNTS	RECOVERY	PID/FID (ppm)	(7.5 VR 4/2 - 3/2) SOIL DESCRIPTION	SOIL CLASS	ANALYTICAL SAMPLE COLLECTED	WELL DATA
1	51	0.5 1 2.0	2/4/5	0.8 1.5	0.1	Brown to dark brown to dusky red fine sand and silt grading to silt with some fine sand. Moist, layered texture, root fibers.	SM	4/4	
2	52	2.0 4.0	5/7/11/11	1.2 2.0	0.2	Reddish brown (5YR 4/4) silt with a little fine sand. Moist, foliated appearance, stiff, some gray to olive mottling along fissures mostly horizontal some more vertical.	ML		
3	53	5/7/11/10	1.8 2.0	0		Reddish brown (5YR 4/3) silt and clay with traces of coarse gravel. Moist, stiff, foliated to stratified appearance with some gray to olive mottled fissures.	ML/CL		
4	54	7/13 50/0.4	1.2 1.4	0		Reddish brown to brown (7.5YR 4/4) silt and clay changing to brown 7.5YR 4/4 to grayish brown silt and fine sand with some gravel fragments (angular)	ML CL		
5						Bedrock? - refusal at 7.4-7.5' BGS Becomes very moist to wet at 26.8' BGS Set 6" casing to 7.5' BGS and cleaned out with 5 7/8" tricone bit. Drilled rock socket from 7.5 to 9.3' with tricone Rock is hard/competent. Set 4" steel casing. Then re-grouted 6" casing then set 4" steel casing to 9.3' BGS.			

ROCK CORING LOG

Project: ERDLE/NYSDEC		Site: Hidden Valley Development		Exploration/Well No.: MW-15D		Project No.: 361072044-02	
Client: NYSDEC		Driller's Name: Steve Lermanie		Logged by: JKR		Checked by: CRS	
Drilling Contractor: Geologic		Protection Level: D		Rig Type: Trailer		Start Date: 12/13/07	
Drilling Method: Coring		P.I.D. (eV): 10.6		Casing Size: 4"		Auger Size: 8"	
Bit type/size: H-core(4")		Bit Use:		Core Interval (to/from)(ft): 9.6-24.6			

Depth (feet) Below GRD Sort.	Sample No. & Penetration/ Recovery (feet)	Graphic Log	Natural Core Breaks			Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition	Weathered Condition	Total 4" Core	RQD (%)	Rock Quality Description			
10							4.3'	86%	Good		Run #1 9.6 - 14.6 cored 5.0' rec 5.0' Difficult to tell fractures from mechanical breaks along horizontal planes of weakness.
11											
12											
13											
14											
15							4.4'	88%	Good		Run #2 14.6 - 19.6 cored 5.0' rec 4.9'
16											Bedrock is a gray to light gray colored dolomite/limestone with some light grayish brown colored layers. Medium grained, with vugs, fossils, and some stylolites. Fractures are primarily horizontal parallel to apparent bedding planes. (Pennsylvanian Member / Lockport Formation)
17											
18											
19											
20											

ROCK CORING LOG

Project: EROLE		Site: Hidden Valley Sub Division		Exploration/Well No.: MW-15D		Project No.: 3612072054-02.1	
Client: NYSDEC		Driller's Name: Steve Laramie		Logged by: JKR		Checked by: CRS 3/15/09	
Drilling Contractor: Geologic		Protection Level: D		Rig Type: Trailer		Start Date: 12/13/07	
Drilling Method: H core				P.I.D. (eV): 10.6		Casing Size: 4"	
Bit type/size: H(4"OD)		Bit Use: -		Core Interval (to/from)(ft): 9.6-24.6			

Depth (feet) Below GRD Sort.	Sample No. & Penetration/ Recovery (feet)	Graphic Log	Natural Core Breaks		Weathered Condition	Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition		Total 4" Core	RQD (%)	Rock Quality Description			
20		} light brown area with numerous vesicles vugs				4.8'	96%	Excellent			Run #3 19.6-24.6-365 cored 5.0 rec 5.1
21											
22		} changes to light + gray rock with few vesicles vugs									
23											
24		} black thin layers showing small scale folding (stylolites)									
25											

SOIL BORING LOG

Project EROLE		Boring/Well No. MW-14	Project No. 3612077094-21	
Client NYSDEC		Site Hidden Valley Subdivision		Sheet No. 1 of 1
Logged By J. Ravelle <small>-checked CRJ</small>		Ground Elevation 553.94	Start Date 12/20/07	Finish Date 12/20/07
Drilling Contractor Geologic		Driller's Name Svevebarnia		Rig Type Trailer
Drilling Method HSA		Protection Level D	P.I.D. (eV) 10.6	Casing Size NA
Soil Drilled 9.4	Rock Drilled 0	Total Depth 9.4	Depth to Groundwater/Date 4.66 TOR 12/21/07	Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring <input checked="" type="checkbox"/>

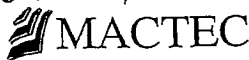
Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter	Field Scan	
						PI Meter Head Space		
1	S1 0-2	11/24/6 1.0/2.0		(7.54R 3/2) Top 0.5 Brown to dark brown silty fine sand topsoil fill Bottom 0.5 Reddish brown (54R 4/3) silt with some fine sand and a little gravel. Moist, moist	FI/ML	0.1	-	
2	S2 2-4	45/6/8 1.3/2.0		Top 0.3 Reddish brown silt and fine sand. Changing to dark brown fine sand with silt. Tip is yellowish brown (104R 5/6) fine sand with a trace of silt - Very moist	ML SM	0		
3	S3 4-6	34/4/8 1.0/2.0		Yellowish brown to strong brown (7.54R 5/8) fine sand with a little silt changing to reddish brown (54R 3/4) silt with clay and traces of coarser materials. Moist, moist	SM ML	0		
4	S4 6-8	7/11/17/14		Reddish brown to gray (54R 5/1) silt with clay and traces of fine sand. Stratified moist, stiff.	ML	0		
5	S5 8-9.4	9/14/50/24		Yellowish brown to strong brown silty fine sand with some gravel and clay and in places sandy to yellowish brown mottled fine sand with little silt and gravel and traces of m-c sand. Refusal with spoon at 9.4'	SM/SSW			

SOIL BORING LOG

Project ERDLE Perforating		Boring/Well No. MW-16B	Project No. 362072094
Client NYSDEC		Site Hidden Valley Subdivision	Sheet No. 1 of 2
Logged By J. Rowcliffe		Ground Elevation 553.9'	Start Date 7/7/08 Finish Date 7/8/08
Drilling Contractor Northridge		Driller's Name Neil Short	Rig Type CM E-75
Drilling Method HSA, Triaxial		Protection Level D	P.I.D. (eV) 10.0 Casing Size Temp 6, Perm 4" Auger Size 4 1/4" ID
Soil Drilled 8.4	Rock Drilled 8.4-22.5	Total Depth 22.5	Depth to Groundwater/Date 7/9/08 -7.03 bator Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring <input type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	NA	NA	NA	0-1' Brown to dark brown fine sand and silt. (loamy topsoil fill). Slightly moist.	logged cuttings only			
2				1-3' Brown to light reddish brown silty fine sand with a little to a trace of medium to coarse sand. (Fill)		0.0		
3				3-6 light olive brown to reddish brown silt and clay with some fine sand and trace of coarser sand. Moist.		0.0		
4				6-7.5 dark brown to reddish brown fine sand and silt with some to a little medium to coarse sand and a little gravel. Moist to very moist.		0.0		
5				olive brown fine sand and silt with a little clay and some to a little gravel. Very moist to med.		0.0		
6				Bedrock at 8.4' B65.				
7				Rods wet from ~7.4 to 8.4' B65				
8				Drilled rock socket from ~8.4 to 10.4' B65 and installed permanent 4" casing.				

Checked by **CRS 7/25/08**



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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

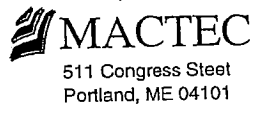
ROCK CORING LOG

Project: EROLE PERFORATING	Site: Hidden Valley Subdivision down gradient	Exploration/Well No.: MW-16 D	Project No.: 3612072094
Client: NYSDEC	Driller's Name: Niel Short	Logged by: J. Rawchik	Checked by: CRS 7/25/08
Drilling Contractor: Nothnagle	Protection Level: D	Rig Type: CMF-75	Ground Elev.: 553.9
Drilling Method: HSA, Tricone		P.I.D. (eV): 10.0	Start Date: 7/7/08
		Casing Size: 6" temporary 4" permanent	Finish Date: 7/8/08
			Auger Size: 4 1/4 ID

Bit type/size: Tricone 3 7/8	Bit Use:	Core Interval (to/from)(ft): Tricone 10.4 - 22.5
---	----------	--

Depth (feet) Below GRD Sort.	Sample No. & Penetration/ Recovery (feet)	Graphic Log	Natural Core Breaks		Weathered Condition	Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition		Total 4" Core	RQD (%)	Rock Quality Description			
	NA								MA	Gray	<p>1025-1056 Drilled from 10.4' to 22.5' using Tricone button bit.</p> <p>No elevated PID readings, no odors, no sheens observed. Drill rate was consistent with no obvious fractures or soft areas. Lost very little water (20 gallons?).</p> <p>Rock appears to be fairly competent with cannot tell if there are water bearing fractures</p> <p>Rock is gray fossiliferous dolomitic limestone based on cores from area and gray silt and sand sized drill cuttings.</p>

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**FIGURE 4-5
ROCK CORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN**

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SOIL BORING LOG

Client: <u>NYSDEC</u>			Project No. <u>3012072094</u>		AOC: <u>✓</u>
Contractor: <u>Geologic</u>			Date Started: <u>12/13/07</u>		Boring No.: <u>MW-17 (D)</u>
Method: <u>HSA/Drive Wash</u>			Casing Size: <u>3 1/4 ID / 6" ID</u>		Protection: <u>D</u>
Ground Elev.: <u>53.88</u>			Soil Drilled: <u>8.7'</u>		Completed: <u>12/19/07</u>
Logged by: <u>JKR</u>			Checked by: <u>CRS 3/5/08</u>		PI Meter: <u>TE5806 10.6cv</u>
Screen: <u>10 (ft.)</u>			Riser: <u>13.5 (ft.)</u>		Total Depth: <u>23.8' BGS</u>
			Diam: <u>2 (ID)</u>		Material: <u>Sch 40 PVC</u>
					Below Ground: <u>3.0'</u>
					Page <u>1</u> of <u>3</u>

DEPTH (FT)	SAMPLE NUMBER	SAMPLE DEPTH	BLOW COUNTS	RECOVERY	PI/FID (ppm)	SOIL DESCRIPTION	SOIL CLASS	ANALYTICAL SAMPLE COLLECTED	WELL DATA
1	51	0	2/4/5/3	1.4 2.0	0	Dark brown to brown (7.5YR 3/2 - 4/3) fine sand with silt to silty fine sand with some gravel and traces m-c sand. Moist. (medium to coarse)	SM/ML		
2	52	2	4/3/4/4	1.2 2.0	0	Brown to reddish brown (5YR 4/3) silt with traces of fine sand some lenses of silty fine sand that are light brown. Traces of gravel and m-c sand in some lenses. Primarily silt. Moist.	ML		
3	53	4	2/2/3/3	0.8 2.0	0	Reddish brown clayey silt with occasional angular rock fragments traces of fine sand. Very moist, soft to slightly firm.	ML/CL		
4	54	6	4/1/4/4	0.7 2.0	0	Yellowish brown (10YR 5/4) fine sand with some silt and some to a little gravel and medium to coarse sand. Wet, loose to slightly dense, slightly stratified appearance	SM		
5	55	8	8/5/2	0.5 0.7	0	Yellowish brown fine sand with little silt and gravel and m-c sand. Wet.	SM/SW		
6		8.7			0-1.3	Refused with split spoon at 8.7' BGS Set 6" casing to 8.7' and closed and with 5 7/8" cone bottom bit. Drilled rock socket from 8.7' to 10.3' BGS Rock was hard and competent 8.7' to 10.3' BGS Installed and grouted 4" steel casing to 10.3' BGS			

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ROCK CORING LOG

Project: ERDLE		Site: Erdle		Exploration/Well No.: MW-17D		Project No.: 361207244	
Client: NYSDEC		Driller's Name: Steve Haranie		Logged by: JKR		Checked by: CRS 3/5/08	
Drilling Contractor: GEOLOGIC		Protection Level: D		Rig Type: Trailer		Start Date: 12/13/07	
Drilling Method: H core		P.I.D. (eV): 10.6		Casing Size: 4"		Finish Date: 12/19/07	
Bit type/size: H (4"OD)		Bit Use: —		Core Interval (to/from)(ft): 10.5 - 24"			

Depth (feet) Below GRD Sort.	Sample No. & Penetration/ Recovery (feet)	Graphic Log	Natural Core Breaks			Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition	Weathered Condition	Total 4" Core	RQD (%)	Rock Quality Description			
11	vesicles / shell vugs coral		Fossils			2.9	83%	Good			Run #1 10.5' to 14' cored 3.5' recovered 3.45' 1102 - 1114
12	Fracture Fracture		PID = 0.1								Gray to dark gray horizontal bedding lots of vesicles that appear to correspond areas of shell fossils. Some sphyrolites, medium grained (Penfield Member - Lockport Formation)
13	Fracture and pits mechanical break around vesicular (weak area) vuggy weak area		PID = 0								
14	Fracture shell fossils mechanical break					5.0	100%	Excellent			
15	Healed fracture with small vesicles		PID = 0								
16	Fracture is weakened with numerous large vesicles		PID = 0.1								
17											
18	No fractures but areas of very large vesicles (could fossil shells dissolved out of rock matrix?)		PID = 0								
19	vugs					4.2	84%	Good			Run #3 19-24 Cored 5.0' Recovered 4.5'
20	Fracture (possibly mech. break) change to lighter colored rock small vesicles		PID = 0								Start 1329 End 1345
21											

ROCK CORING LOG

Project: EROLB		Site: Erde		Exploration/Well No.: MW-17D		Project No.: 3612072094-02.1	
Client: NYSDEC		Driller's Name: Steve Harmonie		Logged by: JRR		Checked by: CRS 3/5/08	
Drilling Contractor: Geologic		Protection Level: D		Rig Type:		Start Date: 12/13/07	
Drilling Method: 1+core		P.I.D. (eV): T		Casing Size: 6"OB/4"BR		Finish Date: 12/19/07	
Bit type/size: H (4"OD)		Bit Use: —		Core Interval (to/from)(ft): 10.5-24'			

Depth (feet) Below GRD Sort.	Sample No. & Penetration/ Recovery (feet)	Graphic Log	Natural Core Breaks			Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition	Weathered Condition	Total 4" Core	RQD (%)	Rock Quality Description			
22	Fracture - large vfg										Run #3 (cont) 19-24' core 5' Start 1329 End 1345 Rec. 5'
23	Fractures										
24	mechanical break										
25											Bottom of boring ≈ 24' BGS

SOIL BORING LOG

Project Erdle Perforating Company		Boring/Well No. MW-18	Project No. 3612072094
Client NYSDEC	Site Erdle		Sheet No. 1 of 1
Logged By Brandon Shaw	Ground Elevation 552.34	Start Date 12-12-07	Finish Date 12-12-07
Drilling Contractor Nothwergle	Driller's Name Kevin Busch	Rig Type Track Mount	
Drilling Method HSA	Protection Level D	P.I.D. (eV) <0.1	Casing Size N/A Auger Size 8 1/4"
Soil Drilled 10.9	Rock Drilled ~0.6 N/A	Total Depth 11.5	Depth to Groundwater/Date 3.98 TOR 12/12/07
		Piez <input type="checkbox"/>	Well <input checked="" type="checkbox"/> Boring <input type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Fqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	0.0 / 2.0	N/A	100%	Boulder beneath top soil, 0-0.5: Brown silty loam w/ trace fines/gravel grass/roots, damp to wet, PG, MP	Fill			
2	1.8 / 2.0		2-3	2-2.5: Brownish red silty clay with trace coarse sand, dense, HP, damp		Boulder		
3	1.8 / 2.0		7-7	2.5-2.8: Broken rock chips/fragments → gravel 2.8-4.0: Lt Brownish red silty clay with little coarse m coarse sand, PG, MP/HP, friable, damp to dry, stiff, poorly drained	CL GP			
4	1.2 / 2.0		4-5	4.0 to 5.2: Same as 2.8 to 4.0	CL			
5	1.2 / 2.0		9-9	5.2 to 6.0: Lt Brown silty clay, MP, PG, friable K stiff, dry, poorly drained				
6	1.3 / 2.0		11-10	6.0 to 6.8: Same as 5.2 to 6.0	CL			
7	1.3 / 2.0		12-12	6.8 to 7.1: (2) lenses of fine sand (<0.1) in v. stiff silty clay, sand is lt brown, MP/HP 7.1 to 8.0: Same as 6.0-6.8				
8	1.8 / 2.0		9-10	8.0 to 8.8: Same as 7.1-8.0	SW			
9	1.8 / 2.0		12-40	8.8 to 9.6: Lt grey gravelly silty sand, v soft wet/saturated, PG, SP/MP, slight odor 9.6 to 10.0: Grey sandy gravel w/ some fines, strong solvent odor, no discernible w/b, NP, etc				
10	0.2 / 0.9		15-50	10-10.9 refusal @ 10.9; steel was cave in soil from above	100ppb SW CL			
11				Fractured Bedrock	ROCK			
12			TDS @ 11.5 water bearing fracture @ 12.0					

* used HA to drive into fractured bedrock ~0.6', but above the water bearing fracture @ ~12' (pore?)

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* USCS classification symbols used

FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project Erdle Perforating Company		Boring/Well No. MW-18D	Project No. 3612072094	
Client NYSDEC	Site Erdle		Sheet No. 1 of 2	
Logged By Brandon Shaw	Ground Elevation 552.28	Start Date 12-11-07	Finish Date 12-13-07	
Drilling Contractor Nothnagle	Driller's Name Kevin Busch	Rig Type Track Mount		
Drilling Method HSA/Tricone	Protection Level D	P.I.D. (eV) < 5-1	Casing Size 4"	Auger Size 8 1/4"
Soil Drilled 10	Rock Drilled 13.3	Total Depth 23.3	Depth to Groundwater/Date 4.01 TOR 12/14/07	Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring <input type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1				Reddish/Lt Brown silty clay, moist/wet MP, PG, trace gravel	Sm CL			
2				cobble/boulder Similar to same as 0-2	Rock			
3								
4								
5					Sm CL			
6								
7								
8	N/A	N/A	N/A					
9				Lt grey silty, gravelly sand, wet/saturated, loose, slight odor, loose to hard	Till		~100ppb	
10								
11				Bedrock	Rock			
12				Water bearing zone @ ~12'				

* Soils were logged from auger blade cuttings
 * depths are approximate
 * USCS Classification used

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

Project Erdle Perforating Company		Boring/Well No. MW-18D	Project No. 3612672094
Client NYSDEC	Site Erdle	Sheet No. 2 of 2	
Logged By Brandon Shaw	Ground Elevation 552.28	Start Date 12-11-07	Finish Date 12-13-07
Drilling Contractor Northridge	Driller's Name Kevin Busch	Rig Type Track mount	
Drilling Method HSA/Tricone	Protection Level 0	P.I.D. (eV) 0.1	Casing Size 4" Auger Size 8 1/4"
Soil Drilled 10	Rock Drilled 13.3	Total Depth 23.3	Depth to Groundwater/Date 4.01 TOR 12/14/07 Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring <input type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
						13		
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

* Soils were logged from auger cuttings



* depths are approximate
 * USCS classification used

FIGURE 4-4
 SOIL BORING LOG
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

Project Erdle Perforating Company		Boring/Well No. MW-19	Project No. 3612072094
Client M/SDEC	Site Erdle		Sheet No. 1 of 1
Logged By Brandon Shew	Ground Elevation	Start Date 12-10-07	Finish Date 12-10-07
Drilling Contractor Notnagle		Driller's Name Kevin Busch	Rig Type Track mount.
Drilling Method HSA	Protection Level D	P.I.D. (eV) Co. 1	Casing Size N/A Auger Size 8 7/8 OD
Soil Drilled ~ 72'	Rock Drilled N/A	Total Depth ~ 72'	Depth to Groundwater/Date 3.11' (STOR) 12-13-07
		Piez <input type="checkbox"/>	Well <input checked="" type="checkbox"/> Boring <input type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	↑ none	↓ none	↑ none	Lt Brown / Brown fine sand/silt w/ some gravel, moist, poorly graded, slightly plastic M-Dense,	↑ Sim/SC	↑ Co. 1	↑ N/A	
2								
3								
4								
5								
6								
7								
				* Soil observed from auger cuttings				

CR 315/09

* depths are approximate



**FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN**

SOIL BORING LOG

Project Erdle Perforating Company		Boring/Well No. MW-19D	Project No. 3612072094	
Client NYSDEC	Site Erdle		Sheet No. 1 of 2	
Logged By Brandon Shaw	Ground Elevation 552.03	Start Date 12-10-07	Finish Date 12-11-07	
Drilling Contractor Nothnagle		Driller's Name Kevin Busch	Rig Type Track Mount	
Drilling Method HSA/Tricone		Protection Level D	P.I.D. (eV) coil	Casing Size 4" Auger Size 8 7/8"
Soil Drilled ~7'	Rock Drilled ~13'	Total Depth 20.2	Depth to Groundwater/Date 3.38' TOR 12/13/07	
		Piez <input type="checkbox"/>	Well <input checked="" type="checkbox"/>	Boring <input type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	1.2 / 2.0	3-2 7-9		0-0.5: Brown fine sandy silt w/ clay, moist, PG, SP, weak 0.5-1.5: Lt Brown/orange brown fine sandy silt, PG, SP 1.5-2: Brown fine sandy gravel, W6, SP/MP, m. Dense	Fill			
2	1.3 / 2.0	9-8 20-23		2-3.5: Lt Brown stratified fine sandy clay, damp, v. stiff SP/MP, PG, well drained, 3.5-4: Lt Brown to stratified, sandy fine gravel damp to dry, m. Dense, NP, W6	SW SC			
3	1.4 / 2.0	4-8 14-18		4-5.5: Lt Brown fine gravelly sand, PG, NP, m. Dense wet, trace fines 5.5-6: Lt Brown fine sand some fine gravel rounds to angular, damp, NP, PG	SP GR			
4	1.0 / 1.0	38-100		6-7 Till/bedrock interface; Lt grey silty sand till layer; some gravel, wet, loose;	Till			
5				fractured bedrock; Lt grey to dark grey rock chips; some weathering observed				
6				Lt grey weathered bedrock chips, dry, v. angular	rock			

* USCS classification used



FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

Project Erdie Perforating Company		Boring/Well No. MW-19D	Project No. 3612072094	
Client NYSDEC	Site Erdie		Sheet No. 2 of 2	
Logged By Brandon Shaw	Ground Elevation 552.03	Start Date 12-10-07	Finish Date 12-11-07	
Drilling Contractor Nottingham	Driller's Name Kevin Busch		Rig Type Track mount	
Drilling Method HSA/Tricone	Protection Level D	P.I.D. (eV) 20.1	Casing Size 4"	Auger Size 8 1/4"
Soil Drilled 7	Rock Drilled 13	Total Depth 20.2	Depth to Groundwater/Date 3.38' TORC 12/13/07	Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring <input type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)			Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space		
13				Similar to Sand at ~9' to 12'	rock				
14				Grey to dark grey, non weathered rock chips, wet, v. angular.	rock				
15									
16									
17									
18									
19									
20		TDS ↓		BOB: 20.2					

* USCS classification used

checked CRT 3/5/08

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

Project EROLE Performing		Boring/Well No. MW-20	Project No. 3612072094
Client NYSDEC	Site Hidden Valley Subdivision	Sheet No. 1 of 1	
Logged By J. Rawcliffe	Ground Elevation 553.6 bgs	Start Date 7/7/08	Finish Date 7/7/08
Drilling Contractor Nathuagle	Driller's Name Neil Short	Rig Type CME-75	
Drilling Method HSA	Protection Level D	P.I.D. (eV) 10.0	Casing Size 4 1/4" ID
Soil Drilled 7.2	Rock Drilled —	Total Depth 7.2	Depth to Groundwater/Date - Dry 7/7/08
		Piez <input type="checkbox"/>	Well <input checked="" type="checkbox"/> Boring <input type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)			Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space		
1				0-0.5 Brown to light brown fine sandy silt (loamy topsoil). Dry to slightly moist.					
2				0.5-2.0 Brown to light reddish brown silt and fine sand (Fill?). Moist.					
3				2.0-4.5 Reddish brown to reddish olive brown silt and clay with a little to traces of fine sand and medium sand. Moist.					
4				4.5-7.0 Olive green to brown silt with clay and a little fine-coarse sand and gravel very moist. (Fill).					
5				7.0-7.2 Silt sand and gravel w/ cobbles					
6									
7									
8				Bottom of Boring = 7.2' BGS Refused on Bedrock.					

Checked by **ces** - 7/25/08



FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

Project EROLE (Hidden Valley Subdivision)		Boring/Well No. MW-20D	Project No. 3612072094	
Client NYSDEC	Site Hidden Valley Subdivision		Sheet No. 1 of 2	
Logged By J. Rawcliffe	Ground Elevation 553.6	Start Date 7/7/08	Finish Date 7/9/08	
Drilling Contractor Nothnagle		Driller's Name Niel Short		Rig Type CME-75
Drilling Method HSA/Roller bit.		Protection Level D	P.I.D. (eV) 10.0	Casing Size 6" Temp / 4" permanent
Soil Drilled ~7'	Rock Drilled Rocky (2,3') total boulders	Total Depth 21.3'	Depth to Groundwater/Date 6.75 / 7/9/08	Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring <input type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec. (ft.) %	SPT-N (Blows/ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	Thin wall steel casing (4" ID)	4"	NA	Augering without sampling, logging cuttings light brown silty fine sandy loam. (20-2')		0.0		
2-5	Concrete hand auger		NA	2-5 Becomes moist ^{reddish} to brown silt with a little clay and traces of sand		0.0		
6			NA	Encountered some gravel or boulders with auger at ~6'-6.5'		0.0		
7			NA	Becomes moist to very moist at ~7'				
8	Rock		NA	Olive to olive brown silt with a little clay fine sand and little to traces of sand and gravel. Encountered refusal at 7' bedrock or boulder?				
9			NA	Set temporary 6" casing to 7' and drilled with roller bit to 9' - no odors or elevated PID readings rock appears quite competent in the top 2' as no water is being lost while roller bit drilling to top 2' of rock.		0.0		
10			NA					

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7/25/08

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ROCK CORING LOG

Project: EROLE Perforating		Site: Hidden Valley Subdivision		Exploration/Well No.: MW-20D		Project No.: 3612072094	
Client: NYSDEC		Driller's Name: Niel Short		Logged by: JKR		Checked by: C.R.S. - 7/18/08	
Drilling Contractor: Nothnagle		Protection Level: D		Rig Type: CME-75		Start Date: 7/7/08	
Drilling Method: Tri-cone				P.I.D. (eV): 10.0		Casing Size: 6" Temp 4" Perm	
Bit type/size: 4" OD		Bit Use: tri cone		Core Interval (to/from)(ft): 9.3' - 21.3'			

Depth (feet) Below GFD Sort.	Sample No. & Penetration/Recovery (feet)	Graphic Log	Natural Core Breaks			Rock Quality			Drilling Rate min/ft	Color	Rock Description and Comments on Drilling
			Type/Dip	Surface Condition	Weathered Condition	Total 4" Core	RQD (%)	Rock Quality Description			
	NA	NA	NA	NA	NA	NA	NA	NA	Grey	<p>0745 - 0840 Drilled from 9.3' to 21.3' BGS using Tri-cone button bit.</p> <p>No checked PID readings, nodules, and no shears observed. Drilling rate was consistent with no obvious fractures or soft areas. Lost a little water (25 gallons?) down hole during drilling.</p> <p>Rock appears to be fairly competent with some minor water bearing fractures. Rock is grey fossiliferous dolomite/limestone based on cores from area and grey sand sized drill cuttings.</p>	



FIGURE 4-5
ROCK CORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project Erdle Perforating		Boring/Well No. GS-001	Project No. 361072019
Client NYSDDEC	Site Erdle		Sheet No. <u>1</u> of <u>1</u>
Logged By C. Stepler	Ground Elevation	Start Date 7/7/08	Finish Date 7/7/08
Drilling Contractor Nothnagle		Driller's Name Jeff Schweitzer	Rig Type Geoprobe (6110)
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 500B
Soil Drilled 14.5	Rock Drilled -	Total Depth 14.5	Depth to Groundwater/Date 9.5' 7/7/08
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1-2	S1 2.0/4.0 0-8'			0-0.6 Brown silty sand - topsoil - organic 0.6-2.0 Reddish brown v. fine SAND, trace silt. p. graded, loose, damp, slight plasticity (R) 7/7/08	SP	<0.1		
5-6	S2 4.0/4.0 4-8'			0-1.0 same as S1 0.6-2.0 1.0-1.5 F. SAND, brown/red - strong odor, damp 1.5-8.0 Red clay - damp little moisture, slight plasticity (R) 8/9/08	SP CL	800 2500 500		GS-001005 VOL TOL
9-10	S3 3.5/4.0 8-12'			0-3.0 Reddish brown clay, damp, moist, slight plasticity 3.0-3.5 Gray brown clay moist little plasticity - sweet odor	CL	1300		GS-001011 GS 001011D
12-13	S4 12-14.5 2.5/2.5			0-2.5 Gray Clay, saturated, high plasticity sweet odor - rock in tip	CL	1000		

14
Retired on rock @ 14.5' bgs

Groundwater sample
GW001012 (10-14' screen)
very silty - poor flow
@ 1140

FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN




Checked by TC
7/25/08

SOIL BORING LOG

Project Erdle Perforating		Boring/Well No. G.S.002	Project No. 362072094
Client MYIDEC	Site Erdle	Sheet No. 1 of 1	
Logged By C. Staples	Ground Elevation	Start Date 7/7/08	Finish Date 7/7/09
Drilling Contractor Nathragh	Driller's Name J. Schweitzer	Rig Type Geoprobe - 6610D	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 580B	Casing Size 2" Auger Size 2"
Soil Drilled 14.5	Rock Drilled	Total Depth 14.5	Depth to Groundwater/Date 9.5'
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1 2 3 4	51 0-4' 0.8/4.0			0-0.3 Gravel + Cobble - little organic silt - fill, dry	GP	201		
5 6 7 8	52 4-8' 0.5/4.0			0-0.4 - saturated gravel - Fill 0.4-0.5 red clay, slight layering, moist, slight plasticity	GP CL	1-1		
9 10 11 12	53 8-12' 4.0/4.0			0-3.0 red clay, slight gray mottling, dense low plasticity, slight layering 3.0-4.0 gray clay, saturated, high plasticity, - trace c. sand	20 CL CL	20 100		GSC02011 @ 12/10 VOC TOC
	54 12-14.5'			0-2.5 gray clay, saturated, high plasticity with - trace f. gravel, c. sand	CH	30		

2.5/2.5
 14.5' ————— Ground Water Sample G-002011 + 2011Duplicate @ 12.50 - silty - good flow
 B030 14.5' b95 - refusal

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 FIGURE 4-4
 SOIL BORING LOG
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project Erdle		Boring/Well No. G5003	Project No. 3612072094	
Client NYSDEC		Site Erdle		Sheet No. 1 of 1
Logged By C. Staples		Ground Elevation	Start Date 7/7/08	Finish Date 7/7/08
Drilling Contractor Nothnagle		Driller's Name J. Schweitzer		Rig Type Geoprobe 660 DT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 580B	Casing Size 2"
Soil Drilled 15'	Rock Drilled —	Total Depth 15'	Depth to Groundwater/Date —	
		Piez <input type="checkbox"/>		Well <input type="checkbox"/>
				Boring <input type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	0-4 S1 1.0/4.0			0-1.0 - Gravel - gray, fill, little organic	GP	Ca1		
2								
3								
4								
5	32 4-8' 2.0/4.0			0-0.5 brown sandy gravel, dry to saturated 0.5-1.0 black F. SAND, saturated, well sorted, p-graded 1.0-2.0 red clay, slight mottling	GP SP CL	Ca1 30 1.0		sample G5003006 @ 1320
6								
7								
8	53 8-12' 3.5/4.0			0-2.0 red clay, slight mottling, slight plasticity, uniform - well sorted 2.0-3.5 gray clay, saturated.	CL CH	1.0 4		sample G5003011 @ 1335
9								
10								
11								
12	34 12-15'			No recovery, sand bit				

0/30. **BOB @ 15'** refusal Ground Water G5003011 @ 1350
sample low flow

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project Erdle Perforating		Boring/Well No. GS-004	Project No. 3612072094		
Client NYSDDEC	Site Erdle		Sheet No. <u>1</u> of <u>1</u>		
Logged By C. Stapler	Ground Elevation	Start Date 7/7/08	Finish Date 7/7/08		
Drilling Contractor Nothing		Driller's Name J. Schweitzer	Rig Type Gesprok 6610 DT		
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 580B	Casing Size 4	Auger Size 2
Soil Drilled 14'	Rock Drilled -	Total Depth 14'	Depth to Groundwater/Date 12 bgs - 7/7/08 1530	Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample	
						PI Meter Field Scan	PI Meter Head Space		
						1	S1 0-4' 30/40		
5	S2 4-8' 40/40			0-0.5 Dark brown peat, dry, slight fibers 0.5-1.5 Tan F. SAND, p-graded, slight black saturated 1.5-4.0 Red clay, damp, slight modeling odor	PT SP CL	25 220 368		GS004006 @ 1500 VOC	
9	S3 8-12' 40/40			Red clay damp, slight plasticity, slight layering, slight modeling - gray/loose, more plasticity @ tip (0.4")	CL	185 261 233 205			
13	S4 12-14' 20/20			Gray CLAY, saturated, high plasticity trace sand		250		GS004011 @ 1510	
14	BOB @ 14' bgs - refusal -				Ground Water Sample	VOC			GW 004 012 @ 1530 10-14' screen - very little water

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NYSDEC QUALITY ASSURANCE PROGRAM PLAN

FIGURE 4-4
SOIL BORING LOG (2 of 4)

SOIL BORING LOG

Project Erdle Perforating		Boring/Well No. G-5005	Project No. 3612072096	
Client NYSDEC	Site Erdle		Sheet No. 1 of 1	
Logged By C. Staples	Ground Elevation	Start Date 7/7/08	Finish Date 7/7/08	
Drilling Contractor Nothnagle		Driller's Name J. Schweitzer	Rig Type Geoprobe 6610 DT	
Drilling Method Direct Push		Protection Level	P.I.D. (eV) 5803	Auger Size 2"
Soil Drilled 13.8'	Rock Drilled -	Total Depth 13.8'	Depth to Groundwater/Date dry	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Fqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
0-4'	S1 0.2/2.0			0-0.5 Brown to soil, silt, organic 0.5-1.0 redish clay layer w/FSAND 1.0-2.0 Dark brown peat, root fibers - organic odor	SM CL/M PT	<1.0 CL.0		
4-8'	S2 4.0/4.0			0-0.5 Dark brown peat, root fibers 0.5-4.0 red/brown clay, slight nodding, slight plasticity, slight layering	PT CL	9 340 203 190		
8-12'	S3 4.0/4.0			0-2.5 same as S2 0.5-4.0 2.5-3.0 - some cobble 3.0-4.0 gray clay, saturated, little fine sand, high plasticity	CL CH	170 195 240 380		
12-13.8'	S4			Gray Clay, little sand, little gravel, high plasticity, saturated	CH	900		collect G-500501 11-12' VOL @13.50

1.8/1.9

Refusal @ 13.8' bgs

Dry - no water



FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project Erdle Perforating		Boring/Well No. G-5-006	Project No. 3612072094
Client NYSDEC		Site Erdle	Sheet No. <u>1</u> of <u>1</u>
Logged By C. Stapler		Ground Elevation	Start Date 7/7/08
Drilling Contractor Nothnag & Co		Driller's Name J. Schweitzer	Rig Type Geoprobe 66/ODT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 580B
Soil Drilled 14.2		Rock Drilled —	Total Depth 14.2
		Depth to Groundwater/Date 7' bgs, 7/7/08 @ 1655	
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	S1 1.5/4.0			0-0.5 Brown silty topsoil 0.5-1.0 Gray gravel, damp 1.0-1.25 Brown/black peat, organic roots 1.25-1.5 Gray F. SAND, uniform, pgraded	GP PT SP	19		
2	0-4'					412		
4	S2 4-8'			0-1.0 gray clay little F. SAND, mottled, pgraded, slight plasticity 1.0-4.0 reddish brown clay little mottling, slight plasticity, moist	CL	60		
6	4.0/4.0				CL	500		
7						730		G5006007 (7' bgs) VOL @ 1630
8					CL	200		
9	S3 8-12'			0-3.0 same as S2 1-4.0 3.0-4.0 change to gray clay, high plasticity, wet	OL	150		
10	4.0/4.0					50		
11						200		G5006011 VOL & TOC @ 1640
12	S4 12-14.2'			0-0.5 gray clay, high plasticity, wet	OL	300		

14 0.5/2.2
 19 Refusal @ 14.2' bgs
 Ground Water Sample G5006011 @ 1645
 (10-14' screen) ok. flow

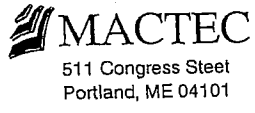


FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project Erdle Perforating		Boring/Well No. G-5-007	Project No. 3612072094	
Client NYSDEC	Site Erdle		Sheet No. 1 of 1	
Logged By C. Stapler	Ground Elevation	Start Date 7/7/08	Finish Date 7/7/08	
Drilling Contractor Nathrop		Driller's Name J. Schweitzer	Rig Type Geoprobe 6610DT	
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 580 B	Auger Size 2"
Soil Drilled 14.0	Rock Drilled —	Total Depth 14.0	Depth to Groundwater/Date	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1 2 3 4	51 0-4' 1.5/4.0			topsoil, then wet gravel		Ca1		
5 6 7 8	52 4-8' 1.0/4.0			0-0.5 clean saturated gravel 0.5-1.0 red clay, damp, mottling, organic fibers	GP CL	20 300		
9 10 11	53 8-12' 2.0/4.0			0-2.0 Gray clay, saturated, soft, high plasticity, slight mottling	CH	100 250		G-5007010 @ 1715 VOL TOC
12 13	54 12-14.0			same as 53	CH	250		

14 2.0/2.0

Bob @ 14.0' - return

Groundwater Sample **GW007 012 @ 1730**
Good flow

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

Project Erde Perforating		Boring/Well No. G-5-008	Project No. 3612072094
Client NYIDEI	Site Erde		Sheet No. 1 of 1
Logged By C. Stabler	Ground Elevation	Start Date 7/8/08	Finish Date 7/8/08
Drilling Contractor Nollmeyer	Driller's Name J. Schweitzer	Rig Type Geoprobe 6610 DT	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 580 B	Casing Size —
Soil Drilled 13.8	Rock Drilled —	Total Depth 13.8	Depth to Groundwater/Date —
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1 2 3 4	51 0-4' 1.8/2.0			0-0.5 Topsoil ^{W.F. SAND} 0.5-1.8 Dark brown topsoil - little silt, damp	SM	<1		
5 6 7 8	52 4-8' 4.0/4.0			0-0.5 Dark brown F.SAND, little silt, moist 0.5-4.0 red clay, little mottling, slight fibers - damp, dense, slight plasticity	SM CL	30	30	
9 10 11 12	53 8-12' 3.5/4.0			0-2.8 Same as 52 0.5-4.0 2.8-3.5 Turns gray clay, soft, saturated, high plasticity	CL CH	15	35	
13	54 12-13.8			Same as 53 - 2.8-3.5, trace fine SAND saturated	CH	150		

13.8 ———— 1.8/1.8 ———— Refused @ 13.8' ———— 2SD

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Ground Water Sample
G1008012
vol @ 0745
- low flow (but 3 vials)

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SOIL BORING LOG

Project Erdle		Boring/Well No. GS-009	Project No. 3612072094
Client NYSDEC		Site Erdle Perforating	Sheet No. <u>1</u> of <u>1</u>
Logged By C. Staples		Ground Elevation	Start Date 7/7/08
Drilling Contractor Nothnagle		Driller's Name J. Schweitzer	Rig Type Geoprobe - 6610DT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 580B
Soil Drilled 14		Rock Drilled -	Total Depth 14
		Depth to Groundwater/Date	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	51 0-4'			topsoil + cobble 0.5 - 1.8 Tan F. SAND, little clump m. shaly		201		
2	1.8/4.0							
3								
4								
5	52 4-8'			0-1.0 Gray & black F SAND, some PT/silt 1.0-4.0 red clay, slight mottling, little layering. Damp, slight plasticity	SM PT CL	201		
6	4.0/4.0					1.5		
7						37		
8						131		
9	53 8-12'			0-1.0 same as 52-1-4' 1.0-4.0 Gray clay, saturated, high plasticity little fine sand	CL CH	5		
10	3.5/4.0					10		M3/MSD GS009011 @ 1745
11						7		VUC
12	54 12-14'			0-1.5 same as 53 1.0-4.0 - slightly more F. sand 1.5-2.0 gravel/ little clay/silt	GC	100 2000		GS009013 @ 1800

20/20
Cobble - saturated - strong odor
- Production water sample
Refused @ 14.0' by
Groundwater sample
GW009012 (10-14')
@ 1805
* Product in sample - black liquid
FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN



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7/25/08

SOIL BORING LOG

Project Erdle		Boring/Well No. BS-010	Project No. 3612072094	
Client NYDEC		Site Erdle	Sheet No. <u>1</u> of <u>1</u>	
Logged By C. Staples		Ground Elevation	Start Date 7/8/08	Finish Date 7/8/08
Drilling Contractor Nashua		Driller's Name J. Schweitzer		Rig Type Geoprobe 6610DT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 5003	Casing Size 2"
Soil Drilled 14.0	Rock Drilled -	Total Depth 14.0	Depth to Groundwater/Date 4.0 7/8/08 1240	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1 2 3 4	S1 0-4' 1.8/2.0			0-0.5 topsoil - Brown silt 0.5-1.8 Brown F. SAND, little silt, damp	SM	CL		
5 6 7 8	S2 4-8' 4.0/4.0			0-0.5 Brown F. SAND, little silt, damp 0.5-4.0 red clay, little mottling, dense, slight plasticity, damp	SM CL	CL 1.5	3.0	
9 10 11 12	S3 8-12' 3.5/4.0			0-3.5 same as S2 0.5-4.0 - can see slight layering if break - 2 sand lens - 0.0"	CL	2.5 14	30	
	S4 12-14' 2.0/2.0			0-2.0 Gray clay, soft, high plasticity, little coarse sand, saturated		1.5		GS010013

BOB @ 14.0' - refusal

Groundwater sample
@ 0825 VOC
GW010014
@ 0850
- v. slow



SOIL BORING LOG

Project Erda Perforating		Boring/Well No. G50K	Project No. 7612072094	
Client NYSDEC	Site Erda		Sheet No. 1 of 1	
Logged By C. Staples	Ground Elevation	Start Date 7/8/08	Finish Date 7/8/08	
Drilling Contractor Mohrnegh		Driller's Name J. Schweitzer	Rig Type Geoprobe 66PDDT	
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 580B	Auger Size 2
Soil Drilled 13'	Rock Drilled -	Total Depth 13'	Depth to Groundwater/Date	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1-2	S1 0-4' 2.8/4.0			0-1.0 F. SAND, little to some silt, damp. little organics 1.0-1.8 Peat, organic matter 1.8-2.5 Thick F. SAND grade, to red clay damp - slight plasticity	SM PT SP CL	CL	CL	
5-6	S2 4-8' 4.0/4.0			0-4.0 red clay, slight mottling, soft, dense damp, slight plasticity	CL	2.2 3.5 1.2		
8-11	S3 8-11' 3.0/3.0			0-3.0 same as S2 - near dip become saturated & slight gray & high plasticity	CL	63 30		- G50 11009 @ 0950 VOC
11-13	S4 11-13' 2.0/2.0			0-2.0 Gray clay trace F SAND trace F gravel - glaciomarine - moist to saturated, - one cobb. High plasticity	CH	6		

Revised @ 13' by

Groundwater Sample

GW011012 @ 1000
MS 1/MSD
good flow

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SOIL BORING LOG

Project Erdle Perforating		Boring/Well No. GS-012	Project No. 3612072094		
Client NYSDEC	Site Erdle		Sheet No. <u>1</u> of <u>1</u>		
Logged By C. Staples	Ground Elevation	Start Date 7/9/08	Finish Date 7/9/08		
Drilling Contractor Nothnagle		Driller's Name J. Schweitzer	Rig Type Geoprobe 6610 DT		
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 580B	Casing Size -	Auger Size 2"
Soil Drilled 13.5'	Rock Drilled -	Total Depth 13.5'	Depth to Groundwater/Date 6.4' 7/9/08	Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Fqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	51 0-4' 2.5/3.0			0-0.2 top soil 0.2-1.2 brown F.SAND, little silt, trace gravel moist, organic roots 1.2-1.6 Peat-organic roots 1.6-2.5 red brown F.SAND (silt/clay) trace 2" bands some mixing moist	SM PT SM CL	CL		
4	52 4-8' 3.5/4.0			0-3.5 red clay, slight mottling, dense, slight plasticity comp. charinated odor	CL	100 50 500 900		GS 012 007 @ 1030
8	53 8-11' 3.0/3.0			0-2.0 same as 52 2.0-3.0 gray clay, high plasticity ^{moist to} -saturated trace finer sand	CL CH	600 800 100 50		
11	54 11-13.5' 2.0/2.5			0-2.0 Brown to gray clay, high plasticity trace fine sand - saturated. v. soft		100 50		GS 012 012 @ 1045
13.5								

Refer @ 13.5' logs

Groundwater sample (gas flow) GW012013 @ 1055



FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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7/25/08

SOIL BORING LOG

Project Erdle Perforating			Boring/Well No. G5064		Project No. 3612072094	
Client NYSDEC		Site Erdle			Sheet No. 1 of 1	
Logged By C. Staples		Ground Elevation		Start Date 7/8/08		Finish Date 7/8/08
Drilling Contractor Nothnagl			Driller's Name J. Schweitzer			Rig Type Geoprobe 6610DT
Drilling Method Direct Push			Protection Level D	P.I.D. (eV) 580B	Casing Size -	Auger Size 2
Soil Drilled 14		Rock Drilled -	Total Depth 14		Depth to Groundwater/Date -	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1 2 3 4	S1 0-4' 0.5/4.0			Topsoil - F.SAND, bits concrete, dry		CL	900	
5 6 7 8	S2 4-9' 4.0/4.0			0-4.0 red clay, slight mottling, dense slight plasticity, damp - strong chlorinated odor	CL		2200	
9 10 11	S3 8-11' 2.0/3.0			0-3.0 same as S2 some layering, fine lenses sand	CL		800	
12 13	S4 11-14' 3.0/3.0			0-1.0 same as S3 - starts changing to gray, soft clay			200	
14				1.0-3.0 Gray clay trace fine sand, soft high plasticity, saturated			150	

G5014006
@
1315
VOC

G5014013
@ 1330 VOC
GW014013
@ 1335 - slow
flow

BOB - recheck @ 14.0'

Groundwater sample }
FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project Erde Perforating		Boring/Well No. G5-015	Project No. 3612072094	
Client NYSDEC		Site Erde		Sheet No. <u>1</u> of <u>1</u>
Logged By C. Staples		Ground Elevation	Start Date 7/9/08	Finish Date 7/9/08
Drilling Contractor Nothnagle		Driller's Name J. Schweitzer		Rig Type Geoprobe 6610DT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 580B	Casing Size 2
Soil Drilled 13.0	Rock Drilled -	Total Depth 13.0	Depth to Groundwater/Date -	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter	Field Scan	
						PI Meter Head Space		
1-2	S1 0-4' 0.6/4.0			0-2.1 - fibrous topsoil - SAND				
5-6	S2 4-8' 4.0/4.0			0-4.0 - red clay, slight mottling, slight layering, dense, damp, slight plasticity	CL	350 500 2600 2200		G-5015007 @ 1400 VOL
8-10	S3 8-12' 4.9/4.0			0-3.0 same as S2 3.0-4.0 changes to gray clay (gradual) - becomes softer, high plasticity		600 500 250		
13	S4 13-14' 1.0/1.0			0-1.0 gray clay, little FSAND, trace gravel, saturated, high plasticity	CH	80 70		

Re fund @ 13' bgs

Groundwater sample
 { GWO15012
 @ 1415 etc
 flow

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FIGURE 4-4
 SOIL BORING LOG
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SOIL BORING LOG

Project Erdle Perforating		Boring/Well No. G5016	Project No. 3612072094	
Client NYSDEC	Site Erdle		Sheet No. 1 of 1	
Logged By C. Staples	Ground Elevation	Start Date 7/9/08	Finish Date 7/9/08	
Drilling Contractor Nothnagle		Driller's Name J. Schweitzer	Rig Type Geoprobe 6610DT	
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 5808	Casing Size 2
Soil Drilled 13'	Rock Drilled —	Total Depth 13'	Depth to Groundwater/Date 6.0 7/9/08 @ 158	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1-4	S1 20/4.0 0-4'			0-1.0 Topsoil, F.SAND 1.0-2.0 Brown SILT & gray clay, loose	SM	< 01		
5-8	S2 4-8' 4.0/4.0			0-4.0 red clay, little mottling, slight layers in places, dense, slight plasticity	CL	2000 2200 2000 1800		G5016 006 @ 1740
9-12	S3 8-12' 3.5/4.0			0-3.0 - same as S2 3.0-4.5 changes to gray clay, softer more plasticity, little mottling	CL CL	2000 2500 1800 200		
12-13	S4 12-13'			0-1.0 - gray clay, little C.SAND, trace gravel, saturated, soft, high plasticity	SH SH	150 80		

1.0/1.0

BOB @ 13.0' - refusal

Ground water sample

GW016012 @ 1455 - 2nd floor

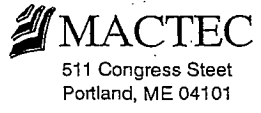


FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SOIL BORING LOG

Project EROLE Perforating		Boring/Well No. GS-17	Project No. 3612072094-	
Client NYSDBL	Site FRM - Erdle Property		Sheet No. 1 of 1	
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/22/08	Finish Date 9/22/08	
Drilling Contractor Northrup		Driller's Name Jeff Schweitzer	Rig Type Geoprobe 6610DT	
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125 00
Soil Drilled 4.0	Rock Drilled —	Total Depth 4.0	Depth to Groundwater/Date NA	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)			Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space		
1	2.7 4.0		NA	0-0.4 Brown to slightly reddish brown sand and silt with a little green topsoil. Dark layer at bottom of topsoil.		0.1			
2				0.4-2.1 light reddish brown fine sand with a little silt. Moist.		0.1			
3		2.1-2.7		Very dark brown fine sand and silt. Faint organic odor. 828072-GS017002 1355		0.1			
4				Collected sample from very dark brown layer.					
				VOAs (MeOH) % Moisture					
				Bottom of boring = 4.0' BGS No refusal					

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SOIL BORING LOG

Project ERDLE Perforating		Boring/Well No. GS-18	Project No. 302072094
Client NYS DEC	Site Erde Property		Sheet No. 1 of 1
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/22/08	Finish Date 9/22/08
Drilling Contractor Nothwagle		Driller's Name Jeff Schweitzer	Rig Type Geoprobe 6610DT
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.12500 Auger Size —
Soil Drilled 4.0	Rock Drilled —	Total Depth 4.0	Depth to Groundwater/Date NA Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	2.7 / 4.0		NA	0-0.2 Brown sandy silt topsoil 0.2-0.8 light brown fine sand with a little silt and trace gravel. 0.8-1.5 light grayish brown fine sand with gravel and silt. slight organic color 1.5-2.5 light brown to reddish brown fine sand with a little silt.		0		
2						0		
3						0		
4				2.5-2.7 Dark brown to very dark brown fine sand and silt. Moist. Collected sample from 2.5-2.7' interval VOA (meOH) % moisture 828072-65018002 1405 Bottom of Boring = 4.0' No Refusal		0		

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SOIL BORING LOG

Project EROLE Performing		Boring/Well No. GS-19	Project No. 362072-094	
Client NYSDEC	Site Erde - Property		Sheet No. 1 of 1	
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/22/08	Finish Date 9/22/08	
Drilling Contractor Nothnagle		Driller's Name Jeff Schweitzer	Rig Type Geoprobe 6610 DT	
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD
Soil Drilled 13.0	Rock Drilled —	Total Depth 13.0	Depth to Groundwater/Date Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>	

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	<u>1.9</u> 4.0			0-0.7 Brown fine sand with a little gravel and some silt (Top soil)		0		
2				0.7-1.9 Dark brown to dark grayish brown fine sand with silt. Slight organic color.		3.1		
3						0.1		
4	<u>4.0</u> 4.0		4-8	Reddish brown silt with fine sand and some clay. Moist, some sandy lenses, grayish colored layers.		0.1		
5						0.4		
6						0.6		
7						0.7		
8						0.1		
9	<u>3.8</u> 4.0			8-12 9.5 Reddish brown silt with fine sand and some clay. Very moist, some gray colored layers 9.5-10.5 light reddish brown to grayish brown fine sand and silt very moist to wet, streaked 10.5-12 Gray fine sand and silt, wet.		0.1		sample ≈ 9.0' BGS 828072-G6019009
10						10.6		
11						2.4		
12	<u>1.2</u> 1.0		12-13	Gray fine sand and silt, wet.		2.1		
13						3.2		
						4.5		
						2.7		

Bottom of boring = 13.0' refusal @ 13.0' BGS.



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SOIL BORING LOG

Project EROLE Perforating		Boring/Well No. GS-20	Project No. 3612072094	
Client NYSDEC		Site Erdle Property	Sheet No. <u>1</u> of <u>1</u>	
Logged By J. Rawcliffe		Ground Elevation NA	Start Date 9/22/08	Finish Date 9/22/08
Drilling Contractor Nothnagle		Driller's Name Jeff Schwietzer		Rig Type Geoprobe 6010 DT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD
Soil Drilled 13.2	Rock Drilled —	Total Depth 13.2	Depth to Groundwater/Date NA	
		Piez <input type="checkbox"/>		Well <input type="checkbox"/>
				Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	<u>2.3</u>			0-1.5' Brown fine sand with a little silt. (loamy top soil). Coarsely layered at 1.5' 1.5-2.3' highly grayish brown fine sand with a little silt. Dry.		0		
2	<u>4.0</u>					0		
3						0		
4						0		
5	<u>4.0</u>			4-8' Reddish brown silt and fine sand with some clay. becoming moist.		0		
6	<u>4.0</u>					0		
7						0		
8						0		
9	<u>4.0</u>			8-10' Reddish brown silt and fine sand with some clay. moist to very moist. stratified 10-11' Reddish brown to reddish gray silt and fine sand with a little clay. Wet. stratified.		0		
10	<u>3.0</u>					0		
11						0		
12	<u>3.6</u>			11-13.2' Gray silt with fine to coarse sand and a little gravel. Wet, soft, massant		0		
13	<u>2.2</u>					0		Collected sample x12'
13.2'				Bottom of boring = 13.2' Refusal @ 13.2' B6s				828072-65020 012

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Jerry Rawcliffe

SOIL BORING LOG

Project <u>EROLE</u> Maine DEP - Moosehead Manufacturing - Dover-Foxcroft		Boring/Well No. <u>GS-21</u>	Project No. <u>3612072094</u>
Client MEDEP <u>NYSDEC</u>	Site <u>Erdle Property</u> Moosehead Manufacturing		Sheet No. <u>1</u> of <u>2</u>
Logged By <u>J. Rawcliffe</u>	Ground Elevation <u>Erdle NA</u>	Start Date <u>9/22/08</u>	Finish Date <u>9/22/08</u>
Drilling Contractor <u>Northrup</u> County Environmental	Driller's Name <u>Jeff Schwietzer</u>	Rig Type Geoprobe <u>6610 DT</u>	
Drilling Method Direct Push	Protection Level <u>D</u>	P.I.D. (eV) <u>10.0</u>	Casing Size <u>2.125" OD</u>
Soil Drilled <u>15'</u>	Rock Drilled <u>-</u>	Total Depth <u>15'</u>	Depth to Groundwater/Date <u>NA</u>
		Piez <input type="checkbox"/>	Well <input type="checkbox"/>
		Boring <input checked="" type="checkbox"/>	

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	<u>2.8</u>			0-0.6 Brown to dark brown fine sand and silt (Topsoil fill) Gravelly layer at 0.6.		0		
2	<u>4.0</u>			0.6-2.6 light brown to light reddish brown fine sand with a trace of silt and gravel. Moist.		0		
3				2.6-2.8 Dark brown to very dark brown fine sand and silt with wood fragments and an organic odor.		0		
4								
5	<u>4.0</u>		4-5	light ^{Dark} Brown to very dark brown fine sand and silt with root fibers, slight organic odor.		0		
6	<u>4.0</u>			5-5.2 light brown to brown fine sand with a little silt. Very moist to wet.		0		
7				5.2-8 Reddish brown silt with a little fine sand and some clay. Moist.		0		
8								
9	<u>4.0</u>			8-9.8 Reddish brown silt with a little fine sand and clay. Moist, some gray mottling.		0		
10	<u>4.0</u>			9.8-12 Gray silt and fine sand with traces of med-coarse sand and some clay. Very moist to wet		0		
11						0		Suppleat 210
12				(See next page)		0		628072-65021010 VOA (Meth) % Moisture

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SOIL BORING LOG

Project <u>ER02B</u> Maine DEP - Meesehead Manufacturing - Dover-Foxcroft		Boring/Well No. <u>GS-21</u>	Project No. <u>3612072094</u>
Client <u>MEDEP NYSD02</u>	Site <u>Fiddle Property</u> Meesehead Manufacturing	Sheet No. <u>2</u> of <u>2</u>	
Logged By <u>J. Rawcliffe</u>	Ground Elevation <u>NA</u>	Start Date <u>9/22/08</u>	Finish Date <u>9/22/08</u>
Drilling Contractor <u>Northway</u> County Environmental	Driller's Name <u>Jeff Schwietzer</u>	Rig Type Geoprobe <u>6610 DT</u>	
Drilling Method <u>Direct Push</u>	Protection Level <u>D</u>	P.I.D. (eV) <u>10.0</u>	Casing Size <u>2.125 OD</u> Auger Size <u> </u>
Soil Drilled <u>15</u>	Rock Drilled <u> </u>	Total Depth <u>15</u>	Depth to Groundwater/Date <u>NA</u> Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)			Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space		
13	<u>3.1</u> <u>3.0</u>			12-15 Reddish gray to gray fine sand and silt with a little clay and traces of medium to coarse sand. Wet, slight foliated appearance.		0			
14			0						
15			0						
				Bottom of boring = 15.0'; Refusal @ 15.0' BGS					

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SOIL BORING LOG

Project ERALS Perforating		Boring/Well No. GP-22	Project No. 3612072094
Client NYSDEC	Site Erdle Property	Sheet No. <u>1</u> of <u>1</u>	
Logged By J. Rowcliffe	Ground Elevation NA	Start Date 9/22/08	Finish Date 9/22/08
Drilling Contractor Nothnagle	Driller's Name Jeff Schuetzer	Rig Type Geoprobe 6010 DT	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" ID
Soil Drilled 4'	Rock Drilled -	Total Depth 4'	Depth to Groundwater/Date NA
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	$\frac{1.9}{4.0}$			0-0.7 Brown to dark brown fine sand with some silt and traces of gravel. (Topsoil.) Gravel layer at 0.7'				
2				0.7-1.9 Dark grayish brown to dark gray, fine sand and silt with some roots/wood fibers and an organic odor			sample at 2.1.7'	1540
3								
4				Bottom of boring 4.0'. No Refusal				828072-65072002 VWA (M ₆₀ H) % Moisture

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Jeff Schuetzer

SOIL BORING LOG

Project ERDLE Performing		Boring/Well No. 65-23	Project No. 3612072094	
Client NYSDEC	Site Erdle Property		Sheet No. 1 of 1	
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/22/08	Finish Date 9/22/08	
Drilling Contractor Nothnagle		Driller's Name Jeff Schwietzer	Rig Type Geoprobe 6610 DT	
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125 OD
Soil Drilled 13.2	Rock Drilled -	Total Depth 13.2	Depth to Groundwater/Date NA	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	<u>2.6</u> 4.0			0-0.8 light reddish brown to light brown fine sand with silt and traces of med sand and gravel. clay.		0		
2				0.8-1.5 Brown fine sand with traces of silt and median to coarse sand with some wood fragments. Slightly moist.		3.6		
3				1.5-2.6 Brown to light reddish brown fine sand and silt. Slightly moist.		0		
4								
5	<u>4.0</u> 4.0			4-8' Reddish brown fine sand and silt with traces of median to coarse sand and gravel. Slightly moist.		0		
6						0		
7						0		
8						0		
9	<u>3.5</u> 4.0			8-11 Reddish brown to reddish gray fine sand silt and fine sand with some clay. Stratified with traces of coarser material at top becoming moist finer grained at bottom.		0		
10						0		
11						0		
12	<u>2.5</u> 2.2			11-12 Gray to slightly reddish gray fine sand silt and fine sand with clay. Very moist.		0		Sample at 11'
				12-13.2 Gray silt with fine sand a little clay and traces of median to coarse sand and gravel. Very moist to wet.		0		1605

13.2

Bottom of boring = 13.2'. Refusal at 13.2' BGS.

828072-65023011
VVA (MeOH)
40% Moisture



FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Jeff Rawcliffe

SOIL BORING LOG

Project EROLE		Boring/Well No. GS-24	Project No. 3612072094	
Client NYSDEC		Site Erde Property	Sheet No. 1 of 1	
Logged By J. Rawcliffe		Ground Elevation NA	Start Date 9/22/08	Finish Date 9/22/08
Drilling Contractor Nothnagle		Driller's Name Jeff Schwetzer		Rig Type Geoprobe 6610 DT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD
Soil Drilled 13.0	Rock Drilled —	Total Depth 13.0	Depth to Groundwater/Date NA	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Reqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	2.5 4.0			0-0.3 Brown to light reddish brown fine sand and silt. Dry to moist (Topsoil.)		0		
2				0.3-1.5 Brown to dark brown fine sand and silt with some root fibers slightly moist.		0		
3				1.5-2.8 lighter brown to light reddish brown fine sand and silt. Slightly moist, stratified.		0		
4								
5	4.0 4.0			4-8' Reddish brown silt with some clay and traces of fine sand. Slightly moist, slight stratified appearance with some gray mottling and traces of		5.2		
6						8.4		
7						14.8		
8						23.1		
9	3.5 3.0			8-10 Reddish brown silt with some clay. Very moist, stratified, some mottling.		8.0		
10				10-11 Gray to reddish gray silt with some clay and traces of fine sand. Very moist, moist at bottom		65		
11						17		
12	2.5 2.0			11-13 Gray silt with a little clay and traces of fine to coarse sand. Very moist wet.		65		
13						238		
						160		
						140		
						111		
						60		
						28		

Bottom of boring = 13.0'. Refused @ 13' BGS.

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FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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828072-65024010
VQA (Me01A)
% Moisture

SOIL BORING LOG

Project: EROLE Performing		Boring/Well No. GS-25	Project No. 3612082094
Client NYSDEC	Site Erdle Property	Sheet No. 1 of 1	
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08
Drilling Contractor Nashua	Driller's Name Jeff Schmetzer	Rig Type Geoprobe 6610 DT	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD
Soil Drilled 13.2	Rock Drilled —	Total Depth 13.2	Depth to Groundwater/Date NA
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	2.8			0-0.8 Dark brown to very dark brown fine sand and silt. (loamy topsoil). Moist		0.3		
2	4.0			0.8-1.6 Dark grayish brown fine sand with a little silt. Moist		0		
3				1.6-2.2 Brown to slightly reddish brown fine sand with some silt. Very moist and wet.		0		
4				2.2-2.8 Reddish brown silt with a little fine sand. Very moist, slightly mottled.		0.3		
5	3.6			4-8' Reddish brown silt with occasional reddish gray layers. Traces of f-c sand and occasional pieces of gravel. Moist, stratified.		0		
6	4.0					0		
7						0.3		
8						0		
9	3.1			8-9' Brown fine to medium sand with a little silt (possible cavern). Wet.		0		Sample at 9'
10	3.0			9-11' Reddish brown silt with some clay and occasional traces of coarse material. Very moist to wet, stratified some gray layers.		0		828072-GS025009 0750 ms/pms/DUP
11				11-12 Brown fine sand with some silt, wet		4.6		
12	2.0			12-13.2 Gray fine sand and silt with some silt, medium to coarse sand and traces of gravel. Wet.		0.3		
	2.2					3.6		Sample at 12.5'
13.2' Bottom of boring. Refusal at 13.2' BGS								

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Checked by **CEI** 11/1/08

GW sample in GS-25
828072-GS025012
GW025012
0810

Jerry Rawcliffe

SOIL BORING LOG

Project EROTE Perforating		Boring/Well No. GS-26	Project No. 3612072094
Client NYSDEC	Site Erde Property		Sheet No. 1 of 1
Logged By J. Rawchoffle	Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08
Drilling Contractor Nothnagle		Driller's Name Jeff Schwedder	Rig Type Geoprobe 6610 DT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0
		Casing Size 2.125" OD	Auger Size _____
Soil Drilled 13.8	Rock Drilled —	Total Depth 13.8	Depth to Groundwater/Date NA
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	2.1 / 4.0			0-1.1 Dark brown to very dark brown fine sand with silt and organic silt and other organic debris. Moist.		0		
2				1.1-1.5 Gray to dark gray fine sand with a little silt. Moist		0		
3				1.5-2.2 Brown to slightly reddish brown fine sand with a little silt. Moist to wet.		0		
4								
5	3.8 / 8.0			4-8 Reddish brown silt with a little fine to coarse sand and traces of gravel. Moist, massive		0		
6						0		
7						0		
8						0		
9	2.9 / 3.0			8-11 Reddish brown to gray (shiny layers) silt with traces of fine to coarse sand and occasional gravel pieces. Moist, stratified.		0		
10						0		
11						0		
12	2.5 / 2.8			11-12 Brown fine to medium sand and silt with some silt/clay layers (reddish brown) Wet.		5.1		
				12-13.8 Gray fine to coarse sand and silt with some medium sand lenses and some silty layers. Wet.		23		

13.8

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Bottom of boring = 13.8' BGS. Refusal at 13.8'

Checked by **CS** 11/1/08

Jerry Rawchoffle

12.5'
838072-GS06012
WVA (MOIST)
% Moisture
0850

SOIL BORING LOG

Project ERDLE Perforating		Boring/Well No. GS-27	Project No. 3612072054		
Client NYSDEC	Site ERDLE property		Sheet No. 1 of 1		
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08		
Drilling Contractor Nothnagle		Driller's Name Jeff Schweizer	Rig Type Geoprobe 6010DT		
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 60.0	Casing Size 2.125" OD	Auger Size —
Soil Drilled 13.6	Rock Drilled —	Total Depth 13.6	Depth to Groundwater/Date NA		Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter	Field Scan	
						PI Meter	Head Space	
1	1.5 4.0			0-2 Very dark brown fine sand and silt with organics, silt and other organic debris.		0		
2				0.2-1.0 light reddish brown to yellowish brown fine sand with a little medium sand and silt. Moist, to wet at 1.0.		0		
3				1.0-1.6 reddish brown silt with a little fine sand and clay. Moist, stratified with		0		
4						0		
5	3.6 4.0			4-8 Reddish brown silt with clay and traces of fine to coarse sand and occasional gravel pieces. Moist, stratified.		0.3		
6				2.1				
7				1.8				
8				0.8				
9	2.9 3.0			8-8.5 Brown fine to medium sand with a little silt. Wet, possibly calcareous.		0.3		
10				6.8				
11				24				
12	1.2 2.6			8.5-11 Reddish brown silt with clay and traces of coarse material (fines and gravel). Stratified with frequent gray colored layers. Moist to very moist.		21		
13				2.7				
13.6				Brown to reddish brown to gray fine sand with silt medium to coarse sand and occasional gravel. Appears very disturbed becomes gray at bottom, wet.		6.8		

825072-65027010
VOA (McO 6A)
% Solids
0930

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Bottom of boring = 13.6', Refused at 13.6' BGS

Checked by **CRS** 11/1/08

Jerry Rawcliffe

SOIL BORING LOG

Project EROLE Perforating		Boring/Well No. GS-28	Project No. 3612072094
Client NYSDEC	Site Erde Perforating	Sheet No. 1 of 1	
Logged By J. Rawcliff	Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08
Drilling Contractor Nothnagle	Driller's Name Jeff Schwietzel	Rig Type Geoprobe G610 DJ	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 10.0	Casing Size 1.125" OD
Soil Drilled 13.8	Rock Drilled -	Total Depth 13.8	Depth to Groundwater/Date NA
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	2.9			0-1.1 Dark brown to very dark brown fine sand with silt and organic debris/silt. Some orange stained soils. Moist.		0		
2	4.0			1.1-2.3 Brown to light brown to reddish brown fine sand with some silt and traces of medium sand. Moist stratified becomes finer with depth.		0		
3				2.3-2.9 Brown to slightly reddish brown fine sand with some silt grading to silt with fine sand. Moist.		0		
4						0		
5	3.4			4-8 Reddish brown silt with clay and traces of f.c. sand and occasional gravel pieces. Moist, massive.		0.3		
6	4.0					0		
7						0.6		
8						1.7		
9	2.6			8-11 Reddish brown silt with clay and occasional traces of f.c. sands. Some gray colored layers becomes finer plastic with depth moist.		3.1		828072-GS028008
10	3.0					1.0		UA (Moist)
11						0		40 (Moist)
12	1.8			11-12 Reddish brown to reddish gray silt with a little fine sand. Wet, soft, stratified.		0		1020
13	2.8			12-13.8 Gray to reddish gray silt with some fine to coarse sand and traces of gravel. Wet, massive.		0		
13.8						0		

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Bottom of boring = 13.8' BGS Refusal at 13.8'

checked by **CRS** 11/1/08

John Rawcliff

SOIL BORING LOG

Project ERPLE Perforating		Boring/Well No. GS-29	Project No. 3612072094
Client NYSDEC	Site Erde Property	Sheet No. 1 of 1	
Logged By J. Rawcliff	Ground Elevation MA	Start Date 9/23/08	Finish Date 9/23/08
Drilling Contractor Nothnagle	Driller's Name Jeff Schmetzer	Rig Type Geoprobe GG10DT	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125"OD
Soil Drilled 13.6	Rock Drilled	Total Depth 13.6	Depth to Groundwater/Date NA
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	2.3 <hr/> 4.0			0-0.7 Dark brown fine sand and silt with organic debris, house dry to moist.		0		
2				0.7-0.8 Wood fragment		0		
3				0.8-1.6 light brown to brown to slightly reddish brown fine sand with a little silt and traces of medium sand. Moist		0		
4				1.6-2.3 Reddish brown silt and fine sand moist, some stratification.		0		
5	3.6 <hr/> 4.0			4-4.6 Reddish brown to brown to grey silt and fine sand. Somewhat moist with mottling.		0		
6				4.6-8 Reddish brown silt with a little clay and a little to trace of fine to coarse sand and occasional pieces of gravel. Moist, becomes softer with depth.		0		
7						0.3		
8						0		
9	3.0 <hr/> 3.0			8-10.5 Reddish brown silt with some clay and a little fine sand along thin layers. Some grey layers and traces of m-coarse sand and gravel. Moist, becoming softer, well stratified.		4.1		
10				10.5-11 Grey to reddish grey silt and fine sand with a little clay and medium to coarse sand traces of gravel. Very moist, stratified.		6.8		
11						2.1		
12	1.8 <hr/> 2.6			11-13.6 Grey to light reddish grey fine sand and silt with a little to traces of medium to coarse sand and gravel. Wet, loose/soft.		0		
13						0		
13.6				Becomes coarser at bottom.		0		

525072-65029009
VAT (MOIST)
% Moisture
1045

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Bottom of boring = 13.6' Refused at 13.6' BGS
checked by CES 11/08

Jerry Rawcliff

SOIL BORING LOG

Project ERDLE Perforating		Boring/Well No. GS-30	Project No. 3612072094
Client NYSDEC	Site Erde property	Sheet No. 1 of 1	
Logged By J. Rawcliff	Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08
Drilling Contractor Northridge	Driller's Name Jeff Schweitzer	Rig Type Geoprobe 6610DT	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD Auger Size -
Soil Drilled 13.6	Rock Drilled -	Total Depth 13.6	Depth to Groundwater/Date NA Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	<u>2.2</u> 4.0			0-1.1 Brown to light brown fine sand with a little silt and traces of med. coarse sand and gravel. Dry to slightly moist. Some coarse stratification.		0		
2				1.1-1.6 Dark brown fine sand and silt with a little organic debris. Large wood fragment at the bottom. Dry to slightly moist.		0		
3				1.6-2.2 Light brown to reddish brown fine sand with some silt. Moist.		0		
4								
5	<u>3.6</u> 4.0			4-8 Reddish brown silt with a little to a trace of fine sand and traces of medium to coarse sand and gravel. Moist, massive but becomes soft to slightly stratified near bottom.		0		
6						0		
7						0		
8						0		
9	<u>3.4</u> 3.0			8-10 Reddish brown silt and clay with traces of fine sand. Occasional traces of coarser grained material some gray layers. Moist, becomes softer with depth.		0		
10				10-11 Gray to slightly reddish gray silt and clay with a trace to a little fine sand and traces of med. coarse sand at bottom. Wet soft.		0		
11						0		
12	<u>1.5</u> 2.6			11-13.6 Gray silt and fine sand with a little clay and medium to coarse sand. Wet, soft. Becomes coarser grained with traces of gravel at bottom.		0		335072-65020012 VIA (M&H) % Moisture
13						0		1115
13.6						0		



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Bottom of boring = 13.6 Refused at 13.6 BGS.

Checked by **CR** 11/10

Jeff Rawcliff

SOIL BORING LOG

Project EROLE Perforating		Boring/Well No. GS-31	Project No. 3612072074	
Client NYSDEC	Site Erole property	Sheet No. 1 of 1		
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08	
Drilling Contractor Nishnagle	Driller's Name Jeff Schweitzer	Rig Type Geoprobe 6610DT		
Drilling Method Direct Push	Protection Level 0	P.I.D. (eV) 10.0	Casing Size 2.125" OD	Auger Size —
Soil Drilled 13.0	Rock Drilled	Total Depth 13.0	Depth to Groundwater/Date NA	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	2.1 / 4.0			0-0.9 Brown to dark brown fine to coarse sand and gravel with some silt. Top 0.2' is silty topsoil. Dry to slightly moist, loose.		0		
2				0.9-2.1 Dark brown to very dark brown fine sand and silt with traces of medium to coarse sand some gravel fragments and organic debris. Faint organic (oil) odor.		0		
3	4.0 / 4.0			4-4.6 Very dark brown/blech to gray to brown fine sand with silt and traces of medium sand becomes coarser grained with depth. Faint organic odor. Changes abruptly at 4.6'.		0		
4				4.6-7 Reddish brown silt with clay a little fine sand and traces of medium to coarse sand and gravel. Moist, massive.		0		
5				7-7.8 Reddish brown silt with clay and traces of fine sand. Dry moist, soft, stratified with gray layers.		0		
6				7-8		0		
7	2.7 / 3.0			8-9 Reddish brown silt and clay very moist, stratified with gray colored layers.		0		
8				9-11 Reddish gray to gray silt with clay and a little to traces of fine to coarse sand. Becomes coarser at bottom. Wet.		0.6		
9				11		0.3		
10	0.9 / 2.0			11-13 Gray silt and fine sand with some clay and a little medium to coarse sand and traces of gravel. Wet, no apparent structure.		0		
11				0				
12						0		
13						0.3		

825072-65031012
VIA (MUT)
% Moisture
1145



Bottom of boring = 13.0' Refusal at 13.0' BGS

checked by eps 11/1/08

Jeff Rawcliffe

SOIL BORING LOG

Project ERDC Perforating		Boring/Well No. CS-32	Project No. 3612072094
Client NYSDEC	Site Field property	Sheet No. 1 of 1	
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08
Drilling Contractor Nothnagle	Driller's Name Jeff Schwietzer	Rig Type Geoprobe 6610 DT	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD
Soil Drilled 13.0	Rock Drilled	Total Depth 13.0	Depth to Groundwater/Date NA
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	$\frac{2.7}{4.0}$			0-0.2 Sandy silt Topsoil Brown-dark brown.		0		
2				0.2-1.6 Brown to dark brown fine sand with silt and some to a little medium to coarse sand and gravel. Dry		0		
3				1.6-2.4 Dark brown fine sand and silt with some organic material. Faint organic (petroleum?) odor. Dry		0		
4				2.4-2.7 Reddish brown fine sand and silt trace of med. coarse sand. Moist, mottled.		0		
5	$\frac{3.6}{4.0}$			4-6 Reddish brown silt with clay and traces of fine to coarse sand and occasional gravel pieces. Moist mass.		1.4		
6				6-8 Reddish brown clay silt with traces of fine sand. Gray layers, stratified, moist.		4.9		
7				plastic.		3.6		
8						7.7		825072-GS03207
9	$\frac{2.5}{3.0}$			8-9.5 Reddish brown to gray silt with clay and traces of fine sand. Moist, stratified with gray colored layers.		1.8		VOA (M&W)
10				9.5-11 Gray silt with clay and a little fine sand and traces of medium to coarse sand. Wet, no apparent structure.		0.6		1/6 Moisture
11						0.3		MS/MSD/MP
12	$\frac{1}{2.0}$			11-13 Gray silt with clay and a little fine to medium sand and traces of coarse material. Wet, loose/soft.		1.2		1315
13						0.3		
						0		

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Bottom of boring = 13' Refusal at 13.0' BGS

checked by **CRS** 10/1/08

Jerry Rawcliffe

SOIL BORING LOG

Project ERDLE Refractory		Boring/Well No. GS-33	Project No. 3612072094
Client NYSDEC	Site Erdle property	Sheet No. 1 of 1	
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08
Drilling Contractor Nothnaghe	Driller's Name Jeff Schwretzer	Rig Type Geoprobe 6610 DT	
Drilling Method Direct Push	Protection Level 0	P.I.D. (eV) 10.0	Casing Size 2.125" OD
Soil Drilled 13.8	Rock Drilled —	Total Depth 13.8	Depth to Groundwater/Date NA
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	2.6			0-0.6 Brown to dark brown fine sand with silt and a little medium to coarse sand and organic debris. Dry.		0		
2	4.0			0.6-1.6 Dark brown fine sand with some silt. Dry to moist.		0		
3				1.6-2.2 Brown to slightly reddish brown fine sand with some silt and medium sand moist.		0		
4				2.2-2.6 Reddish brown silt with some fine sand		0		
5	3.4			4-8 Reddish brown silt with clay and traces of coarse material. Moist from some stratification with gray colored layers.		0		
6	4.0					0		
7						0		
8						0		
9	2.7			8-11 Reddish brown silt and clay to phug trace coarse material. Middle is well stuffed with gray colored layers, more coarse material at bottom of sample. Moist.		0		
10	3.0					0		
11					Change @ 11' to Gray material		0	
12				11-13 Gray silt with some clay, fine sand and a little med. - coarse sand and trace of gravel. Wet, loose to soft, no apparent structure		0		
13						0		

13.8 ~~collected last sample~~ 828272-6W033013 828272-6W033012
1.5
to the way
1408

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Bottom of boring = 13.8' Refusal at 13.8' BGS

FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Jerry Rawcliffe

SOIL BORING LOG

Project Erdle Perforating		Boring/Well No. GS-34	Project No. 3612072094
Client NYSOE	Site Erdle Perforating		Sheet No. 1 of 1
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08
Drilling Contractor Nothnagle		Driller's Name Jeff Schwietzer	Rig Type Geoprobe 6610 DT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0
Casing Size 2.125" OD		Auger Size —	
Soil Drilled 14.0	Rock Drilled —	Total Depth 14.0	Depth to Groundwater/Date NA
Piez <input type="checkbox"/>		Well <input type="checkbox"/>	Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	1.9			0-0.4 Dark brown fine sand with silt and organic debris		0		
2	4.0			0.4-1.4 Dark brown to very dark brown silt with some fine sand		5.1		
3				1.4-1.9 Dappleguish brown to brown fine sand with some silt and traces of medium sand. Wet.		7.6	828072-GS034003	
4						0.3	1435	V/A
5	3.6		4-8	Reddish brown silt with clay and traces of fine sand and occasional traces of med-coarse sand and gravel. Moist, stiff.		2.1		4% Moisture
6	4.0					1.9		
7						3.1	828072-GS034006	
8						1.9	1455	V/A
9	3.1			8-11 Reddish brown silt and clay with traces of f-c sand and gravel. Layers of grey colored soils well stratified. Very moist, plastic.		0.6		4% Moisture
10	3.0					3.0		
11						2.4		
12	1.9			11-12 Reddish brown silt and clay similar to above		1.8		
13	3.0			12-14 Gray silt with a little clay and a little fine sand with traces of med-coarse sand and gravel. Wet loose/suff.		0		
14						0		

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Bottom of boring = 14.0' Refusal at 14.0' **GS**
 checked by **CRS** 11/1/09
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

FIGURE 4-4
SOIL BORING LOG
Jerry Rawcliffe

SOIL BORING LOG

Project ERDLE Perforating		Boring/Well No. GS-35	Project No. 3612072094
Client NYSDEC	Site Erdle Property	Sheet No. 1 of 1	
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08
Drilling Contractor Nothnagle		Driller's Name Jeff Schwieter	Rig Type Geoprobe 6610 DT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0
		Casing Size 2.125" OD	Auger Size
Soil Drilled 13.0	Rock Drilled -	Total Depth 13.0	Depth to Groundwater/Date NA
		Piez. <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1				0-1.1 Very dark brown organic silt with a little fine sand and silt. Moist		0		
2	$\frac{2.6}{4.0}$			1.1-2.0 Gray to brown fine sand with some silt. Very moist to wet.		0		
3				2.0-2.6 Reddish brown silt with some clay and traces of fine to coarse sand. Moist, massive.		0		
4						0		
5	$\frac{3.8}{4.0}$			4-7.8 Reddish brown silt and clay with traces of f-c sand and gravel. Moist, massive.		0		
6						0		
7				7.8-8.0 Reddish brown silt and clay with gray colored layers. Somewhat moist.		0		
8						0		
9	$\frac{2.8}{3.0}$			8-11 Reddish brown silt and clay similar to 7.8-8.0 stratified moist to wet.		0		
10						0		828072-GS035009 VOA (MOIST) 40 Moisture 1520
11						0		
12	$\frac{0}{2.0}$			Brown silty sand wet does not appear to be actual recovery but cur in.		0		
13								

828072-GW035013 VOA 1540

Bottom of boring = 13.0' Refusal at 13.0' BGS

MACTEC
511 Congress Street
Portland, ME 04101

checked by *cas* 11/1/08

FIGURE 4-4
SOIL BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Jerry Rawcliffe

SOIL BORING LOG

Project ERDLE PERFORATING		Boring/Well No. GS-36	Project No. 3612002094		
Client NYSDEC		Site Erde Property	Sheet No. <u>1</u> of <u>1</u>		
Logged By J. Rawcliffe		Ground Elevation NA	Start Date 9/23/08	Finish Date 9/23/08	
Drilling Contractor Nothnagle		Driller's Name Jeff Schwietzer		Rig Type Geoprobe	
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" ID	Auger Size —
Soil Drilled 13.8	Rock Drilled	Total Depth 13.8	Depth to Groundwater/Date NA	Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Fqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	$\frac{1.9}{4.0}$			0-1.1 Very dark brown organic silt with some fine sand and silt. (Organic peaty topsoil.) Moist.		0		
2				1.1-1.9 light brown fine sand grading to brown fine sand and silt. Moist.		0		
3						0		
4						0.6		
5	$\frac{3.8}{4.0}$			4-8 Reddish brown silt with clay and traces of fine to coarse sand and occasional pieces of gravel. Moist, still some mottling stratification at top otherwise massive.		411	828072-036005 VMT (Meth) % Moist. 100.0	
6						7.6		
7						13.4		
8						27		
9	$\frac{2.6}{3.0}$			8-9' Similar to above.		141		
10				9-11' Reddish brown silt and clay with traces of fine sand. Stratified with gray colored layers. Very moist, soft.		5.8		
11						34		
12						119		
13	$\frac{1.9}{2.8}$			11-13.8' Gray silt with fine sand and traces to a little medium to coarse sand and gravel. Faint organic odor. Wet, massive.		260	828072-636012 VMT (Meth) % Moist. 100.0	
13						1880		

13.8

Bottom of boring = 13.8' Refusal at 13.8' BGS.

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Checked by **CR** 11/1/08

Jerry Rawcliffe

SOIL BORING LOG

Project EROLE Perforating		Boring/Well No. 65-37	Project No. 3612072094	
Client MYSDEC	Site Erole Property		Sheet No. 1 of 1	
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/24/08	Finish Date 9/24/08	
Drilling Contractor Northwagle		Driller's Name Jeff Schretzer	Rig Type Geoprobe 6610 DT	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD	Auger Size -
Soil Drilled 13.0	Rock Drilled	Total Depth 13.0	Depth to Groundwater/Date NA	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	<u>2.3</u>			0-1.0' Very dark brown to dark brown Organic silt with silt and fine sand (peaty texture w/ silt). Moist.		1.8		
2	<u>4.0</u>			1.0-1.5 Brown to slightly reddish brown fine sand and silt.		4.2		
3				1.5-2.3 Reddish brown silt with some to a little fine sand. Moist stratified with some mottling.		15.6		
4						118		SP5072-65037003 VJA (Med W) % Wt. lost 0870
5	<u>4.0</u>			Reddish brown silt with clay and traces of fine to coarse sand and occasional gravel pieces. Moist, massive.		370		
6	<u>4.0</u>					420		
7						850		
8						2400		
9	<u>2.9</u>			Reddish brown silt and clay with traces of fine sand. Moist, well stratified with frequent gray colored layers. Bottom of sample becomes gray. Moist very moist - clay and silt with fine coarse sand and gravel		400		
10	<u>3.0</u>					850		
11						2400		
12	<u>0.3</u> <u>2.0</u>			Gray silt with some clay, fine coarse sand and a little gravel. Very moist to wet massive.		350		
13						400		



511 Congress Street
Portland, ME 04101

Bottom of boring = 13.0' Refused at 13.0' BGS

checked by CAS 11/1/08

SOIL BORING LOG

Project ERDLE Perforating		Boring/Well No. GS-38	Project No. 2612072099		
Client NYSDEC		Site Erdle Property	Sheet No. <u>1</u> of <u>1</u>		
Logged By J. Rawcliffe		Ground Elevation NA	Start Date 9/24/08 0830	Finish Date	
Drilling Contractor Noshnagle		Driller's Name Jeff Schwieter		Rig Type Geoprobe 6610DT	
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125"OD	Auger Size
Soil Drilled 13.0	Rock Drilled	Total Depth 13.0	Depth to Groundwater/Date NA	Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	1.7			0-0.5 Dark brown to very dark brown silt and fine sand with organics. Peaty soil. Moist.		400		
2	4.0			0.5-1.1 Grayish brown to brown to reddish brown fine sand with some silt and some silt clay layers		23		
3				1.1-1.7 Reddish brown clay and silt with a little fine sand stratified in soil.		105		
4						500		
5	3.6			Reddish brown silt and clay with traces of fine coarse sand and gravel. Moist, massive, firm to stiff. Changes to clay silt with gray layers at ~ 7.5'.		900		
6	4.0					2400		
7						600		
8						400		
9	2.7			Reddish brown silt and clay with traces of fine sand. Very moist to wet, well stratified with gray colored layers. Soft.		450		
10	3.0					2200		
11						1500		
12	1.7			Gray silt with a little clay and fine to coarse sand and gravel. Wet, massive. Soft.		500		
13	2.0					150		

No analytical samples collected

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Bottom of bore 13.0' Refused @ 13.0' BGS
Checked by CRJ 11/1/08

Jeff Rawcliffe

SOIL BORING LOG

Project EROLE Perforating		Boring/Well No. GS-39	Project No. 3612072094		
Client NYSDEC		Site Erde Property	Sheet No. <u>1</u> of <u>1</u>		
Logged By J. Rawcliffe		Ground Elevation NA	Start Date 9/24/08 ⁰⁹¹⁵	Finish Date 9/24/08	
Drilling Contractor Nothnagle		Driller's Name Jeff Schwieter		Rig Type Geoprobe 6610DT	
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD	Auger Size —
Soil Drilled 13.0	Rock Drilled —	Total Depth 13.0	Depth to Groundwater/Date NA		Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Fqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)			Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	Lab Tests	
1	2.2			0-0.4 Dark brown fine sand and silt with organic material. Organic topped. Moist.		2.1			
2	4.0			0.4-1.1 Gray to brown to reddish brown fine sand with traces of silt. Very moist stratified.		4.8			
3				1.1-2.2 Reddish brown silt with clay and a trace of fine sand. Moist.		15			
4						87			
5	3.8			4-7.5 Reddish brown clay and silt with traces of fine coarse sand and gravel. Moist, massive, stiff to firm.		180			
6	4.0					680			
7				7.5-8 Reddish brown silt clay very moist, stratified with gray colored layers. soft. Faint organic color.		850			
8						3000			828072-65039008 wet/dry 0920
9	3.0			8-10.2 Reddish brown clay/silt with traces of fine sand. Very moist stratified with gray colored layers. soft.		650			
10	3.0			10.2-11.0 Gray clay silt with some fine sand very moist to wet, soft.		1400			
11						240			
12	1.1			Gray silt and fine sand with some clay and a little to traces of medium to coarse sand and gravel.		450			
13.0	2.0			Organic color		900			

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Bottom of boring = 13.0' Refused @ 13.0' BGS

checked by CRJ 11/1/08

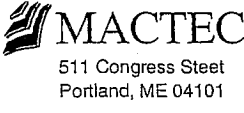
Jerry Rawcliffe

SOIL BORING LOG

Project ERDLE Refractory		Boring/Well No. GS 40	Project No. 3612072094	
Client NYSDEC	Site Erdr Property		Sheet No. 1 of 1	
Logged By J. Rawcliffe	Ground Elevation NA	Start Date 9/24/08 ⁰⁹⁴⁵	Finish Date 9/24/08	
Drilling Contractor Nothnagle		Driller's Name Jeff Schwitzer	Rig Type Geoprobe 6610 DT	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD	Auger Size
Soil Drilled 8	Rock Drilled —	Total Depth 8	Depth to Groundwater/Date NA	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)			Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	Lab Tests ID Sample	
1	2.9 <u>4.0</u>			0-0.6 Brown to dark brown fine sand with some silt and some organic debris. (Refusal)					
2				0.6-1.5 Brown to reddish brown to dark grey fine sand and silt zones of medium sand. Stratified with silt layers and sand layers.					
3	4.0 <u>9.0</u>			1.5-2.9 Reddish brown silt with clay and traces of fine to coarse sand. Stratified with mottled appearance.					8280726 -GS040002 60% (are 0.16) % Moisture 0950
4									
5									
6									
7				Reddish brown silt and clay with traces of fine to coarse sand and gravel. Moist, massive, firm to stiff.					
8									476023 2470
9									
10									
11									
12									
13									

Adjacent to GS-024



Bottom of boring = 8.0' No refusal

Jery Rawcliffe

Checked by CRS. 11/1/08

SOIL BORING LOG

Project EROLE Perforating		Boring/Well No. GS-41	Project No. 3610072094	
Client NYSDEC		Site Erde Property	Sheet No. 1 of 1	
Logged By J. Rawcliffe		Ground Elevation NA	Start Date 9/24/08	Finish Date 9/24/08
Drilling Contractor Northagle		Driller's Name Jeff Schwieter		Rig Type Geopulse 6610 DT
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD
Soil Drilled 12.0	Rock Drilled —	Total Depth 12.0	Depth to Groundwater/Date NA	Piez <input type="checkbox"/> Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
1	3.4			0-0.4 Dark brown fine sand with some silt and some organics. wood fragment at top. Dry.		0		
2	4.0			0.4-3.0 Reddish brown silt with some clay and fines of fine-coarse sand and gravel. Stratified with sandy layers and mottled appearance.		0		
3						0.6		
4				3.0-3.4 Reddish brown silt with clay + fine sand and gravel.		0.3		
5	3.9			4-6.2 Reddish brown silt with clay and traces of fine to coarse sand and gravel. Moist massive, firm to stiff.		2.0		
6	4.0			6.2-8.0 Reddish brown silt and clay with traces of fine sand. Stratified with some gray colored layers. Very moist. silt plastic.		4.1		835072-GS04/005 VFA (unpl) % Moisture 10.25
7						1.8		
8						0		
9	3.0			8.0-8.9 Similar to 6.2-8.0 with traces of fine to coarse sand.		0		
10	3.0			8.9-10.5 Gray to reddish gray silt with some clay and a little fine sand, traces of m-coarse sand and wet soft, stratified.		0		
11				10.5-11 Gray silt with a little clay and fine to coarse sand and gravel. wet, massed.		0		
12				Gray silt and fine sand with a little clay, medium to coarse sand and gravel. Wet, loose/soft, massed.		0		

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Bottom of boring = 12.0' refusal @ 12.0' BGS

located near outfall of culvert.


Jerry Rawcliffe

SOIL BORING LOG

Project EROLE Perforating		Boring/Well No. GS-42	Project No. 3612072894		
Client NYSDEC		Site Erdle Property	Sheet No. <u>1</u> of <u>1</u>		
Logged By J. Rawcliffe		Ground Elevation NA	Start Date 10/15/05	Finish Date 9/24/08	
Drilling Contractor Nashua		Driller's Name Jeff Schwieter	Rig Type Geoprobe 6610 DT		
Drilling Method Direct Push		Protection Level D	P.I.D. (eV) 10.0	Casing Size 2.125" OD	Auger Size —
Soil Drilled 7.5	Rock Drilled —	Total Depth 7.5	Depth to Groundwater/Date NA	Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	SPT Blows/6" or Core Rec./Rqd. %	SPT-N. (Blows/Ft.)	Sample Description	USCS Group Symbol	Monitoring (ppm)		Lab Tests ID Sample
						PI Meter Field Scan	PI Meter Head Space	
						1	$\frac{2.0}{4.0}$	
2	$\frac{4.0}{4.0}$			0.8-2.0 Brown to grayish brown fine to coarse sand and gravel with a little silt. (Gravel backfill)		0	1.3	
3							1.9	
4								
5	$\frac{0}{3.5}$			No Recovery				
6								
7								
8				Refusal on concrete at 7.5'				
9								
10								
11								
12								

Jerry Rawcliffe


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 Portland, ME 04101

Bottom of boring = 7.5' Refusal @ 7.5' on concrete
 located 23-4' from building in possible former tank grave, between GS-001 and GS-002

Test Boring Log

Project Erdle Perforated		Boring/Well No. GS-4843	Project No. 3612672596
Client NYSDEC	Site Rochester, NY	Sheet No. 1 of 2	
Logged By D. Shaw / J. Rowcliffe	Ground Elevation ^{cor} 256.5 + 2.5	Start Date 03-09-2009	Finish Date 03-09-2009
Drilling Contractor MATEC	Driller's Name J. Rowcliffe	Rig Type Geophone Hand Tool	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) ppb Raw	Casing Size 7.5" Auger Size ---
Soil Drilled 7.8'	Rock Drilled NA	Total Depth 7.8'	Depth to Groundwater/Date Unknown
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Req. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring			Lab Tests
									(ppm)			
									PI Meter Field Scan	PI Meter Head Space		
0 - 0.7						concrete core						
1 - 2.0	0.7 / 1.1 / 2.0					Brown to slight reddish brown gravel with some fine to coarse sand and a little silt. Moist. Slight odor.			105 ppb	548 ppb	685 ppb	
2.0 - 4.7	0.5 / 2.0					Brown to slight reddish brown similar to above slightly wet to very moist at bottom.			3570 ppb	1585 ppb		
4.7 - 6.8	0.1 / 2.1					* pushed a cobble No to minimal recovery - saturated						

S₁

S₂

S₃

8946

1002

9016

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project Erdle Perforated		Boring/Well No. 65-4843	Project No. 3612072096
Client NYSDEC	Site Rochester, NY	Sheet No. 12 of 2	
Logged By B. Shaw, J. Rawdoff	Ground Elevation ^{cer} +2.5 56.5	Start Date 03-09-2009	Finish Date 03-09-2009
Drilling Contractor MACTEC	Driller's Name J. Rawdoff	Rig Type Geoprobe Hand Table	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) ppb	Casing Size 1.5" II Auger Size ---
Soil Drilled 7.8	Rock Drilled NA	Total Depth 7.8	Depth to Groundwater/Date <input type="checkbox"/> Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppb)			Lab Tests
									PI Meter	Field Scan	PI Meter Head Space	
									7	0.1 / 1.0	6.8	
8	2.10	7.8				Refusal @ 7.8 b/c						
9												
10												
11												
12												

SP
1029

6000 ppb
 S28072-CS
 CH2008
 1045
 WJA (5035)
 % Solids

checked by CRF 4/13/09

FIGURE 4-6
 TYPICAL TEST BORING LOG
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN
 ABB Environmental Services, Inc.

GS-44

Test Boring Log

Project Endle perforated		Boring/Well No. GS-44	Project No. 3612072096
Client NYSDEC	Site Rochester, NY		Sheet No. 1 of 1
Logged By J Rawcliff / BShaw	Ground Elevation 561.5 575	Start Date 03-09-2009	Finish Date 3-9-2009
Drilling Contractor MATEC	Driller's Name J. Rawcliff	Rig Type Geoprobe Hand tools	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) ppb	Casing Size 1 1/2" Auger Size 1 1/2"
Soil Drilled 3.6	Rock Drilled NA	Total Depth 3.6	Depth to Groundwater/Date <input type="checkbox"/> Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppb)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
0-0.6						0-0.6 concrete core					
1-2	0.9 / 2.0	0.6 / 2.6				Brown to reddish brown fine to coarse sand and gravel (Fill?). Moist, massive.		122 ppb			
3-4	0.8 / 2.0 / 1.2					Brown medium to coarse sand with some fine sand and gravel w traces of silt. Moist to very moist.		922 ppb			
4-5						Refusal (3.6 on what appears to be concrete).		958 ppb			

S1
1107

S2
1135

checked by CAS 7/13/09

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

G-5-45

Test Boring Log							
Project <u>Erdle perforated</u>				Boring/Well No. <u>GS-445</u>		Project No. <u>3612072096</u>	
Client <u>NYSDEC</u>			Site <u>Rochester, NY</u>			Sheet No. <u>1</u> of <u>3</u>	
Logged By <u>B. Shen / J. Rawcliff</u>		Ground Elevation <u>+2.5'</u>		Start Date <u>03-09-2009</u>		Finish Date <u>3/4/09</u>	
Drilling Contractor <u>MAATEC</u>			Driller's Name <u>J. Rawcliff</u>			Rig Type <u>Geoprobe Handtools</u>	
Drilling Method <u>Direct Push</u>			Protection Level <u>D</u>		P.I.D. (eV) <u>ppb R</u>		Casing Size <u>7.5"</u>
Soil Drilled <u>15.2</u>		Rock Drilled <u>NA</u>		Total Depth <u>15.2</u>		Depth to Groundwater/Date	
						<input type="checkbox"/> Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring	

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Reqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppb)			Lab Tests
									PI Meter Field Scan	PI Meter Head Space		
0-0.7						0-0.7' concrete core						
1	1.1		0.7			Brown to reddish brown, fine to medium sand with some coarse sand and gravel and traces of silt. Slightly moist, massive (R-1)			331 ppb			
2	2.0						SP/156			1790 ppb		
3			2.7			Very little recovery reddish brown sand.						
4	0.1 2.0									76 ppb		
5			4.7			*pushed a cobble down.						
6	0.9 2.0					Brown to dark reddish brown fine to medium sand with some coarse sand and gravel with a little silt. Moist, massive (R-1).			1390 ppb			
6.7										714 ppb		

S2
E 1201
S3
E 1216

1390 ppb
714 ppb
778072 05041012
K
Ⓟ

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

G-5-45

Project Erdle Perforated		Boring/Well No. GS-4445	Project No. 3612072096
Client NYSDEC	Site Rochester, NY	Sheet No. 2 of 3	
Logged By B. Shaw / J. Rawcliff	Ground Elevation ~56.5'	Start Date 03-09-2009	Finish Date 3-9-2009
Drilling Contractor MATEC	Driller's Name J. Rawcliff	Rig Type Geo Probe Hand tools	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) DDb Pac	Casing Size 1.5" Auger Size /
Soil Drilled 15.2	Rock Drilled NA	Total Depth 15.2	Depth to Groundwater/Date —
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
7	1.6 / 20		6.7			Dark reddish brown to brown to dark brown fine sand with a little medium sand and some silt layers. Wet, layered.	SM		73.1 ppm	105 ppm	X
8			5.7						74 ppm		(8280726504) 008 (V.O.A. % Moist) 1825
9	1.9 / 20					Reddish brown clay/silt with traces of fine sand very moist to wet, some gray mottling. (and slight blue)			45 ppm	7199 ppm	
10						Strong color (silvery blue)			↓		
11			10.8						173 ppm		
12	1.9 / 20					Reddish brown clay/silt moist to wet, stiff to very firm. Strong color			799	799 ppm	X
											828072-65-044012 1830 V.O.A.s (5035) % Solids

S4
1225
S5
1239
S6
1300

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

GS-45

Test Boring Log											
Project Erdle Perforated					Boring/Well No. GS-445		Project No. 262072696				
Client NYSDEC			Site Rochester, NY			Sheet No. 3 of 3					
Logged By BShaw / J Rowcliff		Ground Elevation ~561.5' #25'		Start Date 03-09-09		Finish Date 3-9-09					
Drilling Contractor MATEO			Driller's Name J Rowcliff			Rig Type Compa Hand tool					
Drilling Method Direct Push			Protection Level D		P.I.D. (eV)		Casing Size 1.5"		Auger Size		
Soil Drilled 15.2		Rock Drilled NA		Total Depth 15.2		Depth to Groundwater/Date		Piez <input type="checkbox"/>	Well <input type="checkbox"/>	Boring <input checked="" type="checkbox"/>	
Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
13				12.8		reddish brown clay/silt grading to grey claysilt becomes very moist to wet soft with some gravel fragments.					
14	1.9 2.4										
15				15.2		ran out of rods @ 15.2' bgs					

57
1325

199 ppm
30-7 ppm

checked by CR5 4/15/09

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

Test Boring Log

Project Erdle Perforated		Boring/Well No. GS-46	Project No. 3612672096
Client NYSDEC	Site Rechester, NY	Sheet No. 1 of 1	
Logged By B Shaw	Ground Elevation 561.5' +2.5	Start Date 03-10-09	Finish Date 03-10-09
Drilling Contractor MACTEC	Driller's Name J. Rawdliff	Rig Type Geoprobe Hand Tool	
Drilling Method Direct Push	Protection Level D	P.I.D. (ey) ppb Rec	Casing Size 1.5" Auger Size /
Soil Drilled 3.8'	Rock Drilled NA	Total Depth 3.8'	Depth to Groundwater/Date /
		Piez <input type="checkbox"/>	Well <input type="checkbox"/> Boring <input checked="" type="checkbox"/>

Depth (Feet)	Sample No. & Penetration/ Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring			Lab Tests
									(ppb)			
									PI Meter Field Scan	PI Meter Head Space		
0 - 0.6			0.6			0-0.6' concrete core						
0.6 - 2.0	1.7 2.0					Sandy gravelly fill material.	Fill			~2000 ppb		
2.0 - 2.6			2.6									
2.6 - 3.8	0.5 1.2		3.8			Refusal @ 3.8' b-to-C; -soils are similar to GS-43	Fill			5000 ppb 6000 ppb		

S1
⊙
0834

S2
⊙
0843

checked by CES-4/13/09

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ABB Environmental Services, Inc.

Test Boring Log

Project Earth Perforated		Boring/Well No. GS-404A	Project No. 3G12072096	
Client NYSDEC	Site Rochester, NY		Sheet No. 1 of 2	
Logged By B. Shaw	Ground Elevation 561.5	Start Date 03-10-09	Finish Date 03-10-09	
Drilling Contractor MATEC	Driller's Name J. Rowdoff		Rig Type Scrubber Hand Tools	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 006 Roc	Casing Size 1.5"	Auger Size /
Soil Drilled 12.7	Rock Drilled NA	Total Depth 12.7	Depth to Groundwater/Date /	
			Piez <input type="checkbox"/>	Well <input type="checkbox"/>
			Boring <input checked="" type="checkbox"/>	

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Req. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
0-0.7						Concrete Core					
0.7-2.0	0.6 / 2.0					olive brown silty fine sand w/ trace coarse sand fill damp, sp, very strong petroleum odor (Sheen, P&P sorted)	Fill		30 ppm 26 ppm 35 ppm		
2.0-4.7	0.7 / 2.0					olive brown to silver/black silty sand; large piece of wood @ ~3.5', wet sp, v. strong odor	Fill		66.1 ppm 58.7 ppm		8280725046 cut P0720
4.7-6.7	0.6 / 2.0					olive brown silty sand w/ wood fragments wet, sp, very strong odor & sheen @ 6.7'	Fill		68 ppm 81 ppm 125 ppm		

S₁
0914

S₂
0935

S₃
0941

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project Eldle Perforated		Boring/Well No. GS-2647	Project No. 36207296
Client NYSDEC	Site Rochester, NY	Sheet No. 2 of 2	
Logged By BShaw	Ground Elevation 561.5	Start Date 03-10-09	Finish Date 03-10-09
Drilling Contractor MACTEC	Driller's Name J Rowlett	Rig Type Geoprobe Handtool	
Drilling Method Direct Push	Protection Level D	P.I.D. (ey) ppb	Casing Size 1.5" Auger Size /
Soil Drilled 12.7	Rock Drilled NA	Total Depth 12.7	Depth to Groundwater/Date / <input type="checkbox"/> Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring

S4
A
0950

S5
A
1010

S6
A
1075

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Req. %	SPT-N (Blows/Fl.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
7	0.9		6.7			olive brown sandy silt, wet, v. stringy adobe/sher, wool fragment over silty clay	Fill			25 ppm	
8	2.0						wood clay			83 ppm	
9			4.7							15 ppm	
10	1.4					olive brown clay/silt clay, PS, MP, stiff	ML CL			29 ppm	
11			10.7							80 ppm	8287265 096 010 P1030
12	1.5					olive/green silty clay MP, PS				19 ppm	
13	2.0		12.7			gray, m soft clay/till, MP, PS				12.1 ppm	
										10.1 ppm	
										6000 ppb	
										20 ppb	
										40 ppb	

checked by CES 7/13/09

FIGURE 4-6
 TYPICAL TEST BORING LOG
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN
 ABB Environmental Services, Inc.

Test Boring Log

Project Erdle Perforated		Boring/Well No. CS-4748	Project No. 3612072096	
Client NYSDEC	Site Rochester, NY		Sheet No. 1 of 2	
Logged By BShaw	Ground Elevation 559.5 +0.5	Start Date 3/10/04	Finish Date 3/10/04	
Drilling Contractor MATEC		Driller's Name J Renduff	Rig Type NA	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) 006 Rec	Casing Size 1.5"	Auger Size —
Soil Drilled 12	Rock Drilled NA	Total Depth 12	Depth to Groundwater/Date —	
			Piez <input type="checkbox"/>	Well <input type="checkbox"/>
			Boring <input checked="" type="checkbox"/>	

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm)			Lab Tests
									PI Meter Field Scan	PI Meter Head Space		
0-1	66/20					0-0.5. Brown loamy silty clay with grass 0.5-2 Lt greyish brown fine sand, PS, NP, Loose odor	Fill		60.1	63 ppm	68 ppm	
1-2						olive brown fine sandy silt, damp, PS, MP	Fill ↓		8 ppm	400 ppm	600 ppm	
2-3	14/20				lt yellowish brown wG. sand, damp, NP, loose			1400 ppm				
3-4					DK Brown fine sandy loam, damp PS, NP/SP, roots/wood frags			1600 ppm	2800 ppm			
4-5	13/20				4-5.4 same as (3.5 to 4.)	5.4-6 greyish olive fine sand, damp, PS, NP, mairge			7 ppm	3 ppm	2 ppm	
5-6												

1045
 1058
 1106

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

Test Boring Log

Project Erde Perforated		Boring/Well No. ES-4748	Project No. 3012072096
Client NYSDEC	Site Rochester, NY	Sheet No. 2 of 2	
Logged By BShaw	Ground Elevation 559.5 ±0.5	Start Date 3/10/09	Finish Date 3/10/09
Drilling Contractor MACTEC	Driller's Name J Rawcliff	Rig Type NA - Hand tools	
Drilling Method Direct Push	Protection Level D	P.I.D. (eV) PPB Rnc	Casing Size 1.5" Auger Size _____
Soil Drilled D	Rock Drilled NA	Total Depth D	Depth to Groundwater/Date _____ <input type="checkbox"/> Piez <input type="checkbox"/> Well <input checked="" type="checkbox"/> Boring

Depth (Feet)	Sample No. & Penetration/Recovery (Feet)	Sample Type	SPT Blows/6" or Core Rec./Rqd. %	SPT-N (Blows/Ft.)	Graphic Log	Sample Description	USCS Group Symbol	Notes on Drilling	Monitoring (ppm)		Lab Tests
									PI Meter Field Scan	PI Meter Head Space	
7-1.5 2:0	6-0					6-6.2 same as above 6.2-7.4 Reddish Brown silty clay, m stiff, PS, MP 7.4-8 Red to reddish brown silty clay/clay, HP, v stiff, comp, PS, s/d		30 ppm			
8-870						8-10 same as (7.4 to 8), reddish/brown brownish red clay, HP, stiff		7199			8280726597 008 C1136 vons %solids
9-1.9 2:6						10-11 reddish/dove brown clay, wet, HP, PS, stiff 11-12 Gray/Brownish grey silty clay, wet, HP, m stiff		7199			
12-12.0						∇ 12.0					

S4
 P
 1124
 S5
 P
 1143
 S6
 P
 1200

Checked by **CR5**

FIGURE 4-6
TYPICAL TEST BORING LOG
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

APPENDIX C

SUPPLEMENTAL SOIL SAMPLING REPORT

Appendix C contains the Supplemental Soil Sampling Report issued in June 2010 which presents results from additional soil samples collected on-site and nearby the Erdle Perforating Company Site in April of 2010. This information is being offered for consideration when planning the remedial work.



engineering and constructing a better tomorrow

June 18, 2010

New York State Department of Environmental Conservation
Division of Environmental Remediation
12th Floor, 625 Broadway
Albany, New York 12233-7013

Attention: Ms. Nicole Bonsteel

Subject: **Supplemental Soil Sampling Report**
Erdle Perforating, Site ID # 8-28-072, D004434-20
MACTEC Engineering and Consulting, P.C., Project No. 3612072094

Dear Ms. Bonsteel,

MACTEC Engineering and Consulting, P.C., (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC) has prepared this report for supplemental soil sampling conducted at the Erdle Perforating site (Site), Site # 8-28-072, located at 100 Pixley Industrial Avenue, Town of Gates, Monroe County, New York. This letter report describes field activities and analytical results for the Site. Field activities were conducted on April 15, 2010.

Introduction

The Site is located at 100 Pixley Industrial Parkway in the Town of Gates, Monroe County. The Site is approximately 9.2 acres and is bounded on the south by a marsh and Conrail railroad tracks and an undeveloped wooded area further south of the railroad tracks, on the north and east by light industry and on the west by open land and Interstate 490. A townhouse development (Hidden Valley Development) is located south of the Site (south of the wooded area). The Site is currently

zoned for industrial purposes including manufacturing and processing. The Site and surrounding developed areas are serviced by public water.

Field Activities

Previous investigations conducted by MACTEC indicate that soil and groundwater at the Site are contaminated with volatile organic compounds (VOCs); specifically chlorinated solvents. To evaluate the potential presence of other contaminants in site soils to complete the remedial investigation and feasibility study for the Site, the NYSDEC requested additional soil samples be collected from the Site.

To evaluate the potential presence of semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyl's (PCBs), and metals in Site soil above regulatory criteria, a total of seven soil samples were collected from:

- 1) Three background locations (SS-1 to SS-3);
- 2) Two from the vicinity of the highest detected VOC contamination in soil (SS-4 and SS-5) to the rear (south) of the Erdle Facility (source area); and
- 3) Two from the wooded wetland south of the source area (SS-6 and SS-7).

Sample locations are included on Figure 1.

Because the VOC contamination was primarily detected at depths greater than two feet below ground surface (bgs), the three background samples and the two source area samples (SS-4 and SS-5) were collected from two to three feet bgs. The two samples from the wetland area south of the Site facility (SS-6 and SS-7) were collected from between zero and one foot bgs, to evaluate the wetland soils.

Samples were collected with a shovel after digging the holes to the required depths. Sample descriptions were recorded on field data records (field data records included as Attachment 1). The shovel and other tools used to collect the samples (stainless steel bowl and spoon) were decontaminated with Liquinox and deionized water between sample locations.

Samples were submitted to Accutest Laboratories for analyses of SVOCs by USEPA Method 8270C, pesticides (with the exception of background samples SS-2 and SS-3) by USEPA Method 8081, PCBs

by Method 8082, and metals by methods 6010B and 7471A. In addition, the two wetland samples, SS-6 and SS-7, were analyzed for VOCs by Method 8260B.

Results

Upon receipt of the analytical laboratory data, a Data Usability Summary Report (DUSR) was completed following NYSDEC guidance (NYSDEC, 2010). Based on chemist review, MACTEC determined that the laboratory data met the project specific criteria for data quality and data use. The DUSR and validated Form 1's are presented as Attachment 2.

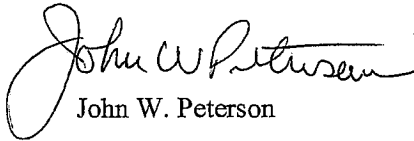
Soil Sampling Results. A summary of analytes detected in the soil samples collected are presented in Table 1. Table 1 also includes the 6 New York Codes, Rules and Regulations Part 375 Soil Cleanup Objectives (SCO) for Unrestricted Use and Restricted Industrial Use (NYS, 2006). SVOCs, primarily polyaromatic hydrocarbons (PAHs), were detected in one sample, SS-4, collected from the source area. One SVOC, benzo(a)pyrene was detected at a concentration of 3.09 milligrams per kilogram (mg/Kg), slightly above the SCO for Industrial Use of 1.1 mg/Kg. The remaining of the SVOCs were not detected above their respective SCO for Industrial Use. Pesticides, and PCBs, were not detected in the samples (the individual pesticide and PCB analytical reporting limits were below the SCOs for Residential and Industrial Use and below, or only slightly above, the SCOs for unrestricted use). Metals were not detected in samples collected at, and downgradient of, the source area at concentrations above the three background/upgradient samples (SS-1 to SS-3) or above the SCOs for either Unrestricted Use or Industrial Use. Metals, including mercury, were detected in soil sample locations both upgradient (background) and downgradient of the source area indicating the historic occurrence of these compounds at and in the vicinity of the site. Acetone was detected in sample SS-6 and cis-1,2-dichloroethene and trichloroethene were detected in sample SS-7; detected concentrations were well below their respective SCOs for Unrestricted Use.

Although one SVOC was detected at a concentration above the SCO for Industrial Use, the sample results do not appear to indicate high concentrations of SVOCs on the Site that would be indicative of a large source/spill area. SVOCs are fairly common in industrial and urban environments, and additional investigations would not be warranted based on these results.

If you have any questions or concerns, please feel free to call myself at 207-828-3644 or Chuck Staples at 207-828-3571.

Sincerely,

MACTEC Engineering and Consulting, P.C.



John W. Peterson
Project Manager



Charles R. Staples
Site Manager

Enclosures (2)

REFERENCES

New York State (NYS), 2006. New York Codes, Rules, and Regulations, Title 6, Part 375-Environmental Remediation Programs. December, 2006.

NYSDEC, 2010. DER-10, Technical Guidance for Site Investigation and Remediation. June 2010.

Table 1: Hits Only

Parameter Name	Location		SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07
	Sample Depth		2.0-2.5	2.0-2.6	2.0-2.8	2.0-2.6	2.0-2.5	0-0.9	0-0.8
	Sample Date		4/15/2010	4/15/2010	4/15/2010	4/15/2010	4/15/2010	4/15/2010	4/15/2010
	Sample ID		828072SS-01	828072SS-02	828072SS-03	828072SS-04	828072SS-05	828072SS-06	828072SS-07
Unrestricted	Industrial	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds by USEPA Method 8260B									
Acetone	0.05	1000	--	--	--	--	--	0.011 J	0.0037 UJ
Cis-1,2-Dichloroethene	0.25	1000	--	--	--	--	--	0.0032 U	0.0027
Trichloroethene	0.47	400	--	--	--	--	--	0.0032 U	0.0069
Semi Volatile Organic Compounds by USEPA 8270C									
Anthracene	100	1000	0.29 U	0.37 U	0.3 U	2.89	0.28 U	0.49 U	0.33 U
Benzo(a)anthracene	1	11	0.29 U	0.37 U	0.3 U	4.92	0.28 U	0.49 U	0.33 U
Benzo(a)pyrene	1	1.1	0.29 U	0.37 U	0.3 U	3.09	0.28 U	0.49 U	0.33 U
Benzo(b)fluoranthene	1	11	0.29 U	0.37 U	0.3 U	3.49	0.28 U	0.49 U	0.33 U
Benzo(ghi)perylene	100	1000	0.29 U	0.37 U	0.3 U	1.82	0.28 U	0.49 U	0.33 U
Benzo(k)fluoranthene	0.8	110	0.29 U	0.37 U	0.3 U	2.94	0.28 U	0.49 U	0.33 U
Carbazole	NA	NA	0.29 U	0.37 U	0.3 U	0.681	0.28 U	0.49 U	0.33 U
Chrysene	1	110	0.29 U	0.37 U	0.3 U	4.36	0.28 U	0.49 U	0.33 U
Dibenz(a,h)anthracene	0.33	1.1	0.29 U	0.37 U	0.3 U	0.649	0.28 U	0.49 U	0.33 U
Fluoranthene	100	1000	0.29 U	0.37 U	0.3 U	12.3	0.28 U	0.49 U	0.33 U
Fluorene	30	1000	0.29 U	0.37 U	0.3 U	0.456	0.28 U	0.49 U	0.33 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.29 U	0.37 U	0.3 U	1.82	0.28 U	0.49 U	0.33 U
Phenanthrene	100	1000	0.29 U	0.37 U	0.3 U	8.73	0.28 U	0.49 U	0.33 U
Pyrene	100	1000	0.29 U	0.37 U	0.3 U	8.59	0.28 U	0.49 U	0.33 U
Pesticides by USEPA Method 8081									
			All ND	--	--	All ND	All ND	All ND	All ND
PCBs by USEPA Method 8082									
			All ND	All ND	All ND	All ND	All ND	All ND	All ND
Metals by USEPA Method 6010B									
Aluminum	NA	NA	6,310	17,400	9,140	3,940	4,000	5,950	9,340
Arsenic	13	16	2.4	4.6	2.8	2.7	2 U	4	3.6
Barium	350	10000	41.4	101	52.7	20.9	21.4	19 U	65.5
Beryllium	7.2	2700	0.38 U	0.84	0.6	0.4 U	0.41 U	0.38 U	0.46
Calcium	NA	NA	2,030	5,330	5,070	61,900	21,300	3,970	32,700
Chromium	30	6800	11.1	17.7	13.7	6.9	5.9	7.2	12.6
Cobalt	NA	NA	4.7 U	5.6	5.1	5 U	5.1 U	4.8 U	6.2
Copper	50	10000	8.3	9.7	11	8.6	6.3	7.2	11.1
Iron	NA	NA	16,100	19,700	19,100	9,110	8,100	9,060	16,300
Lead	63	3900	3.1	13.7	6.9	10.4	4.9	16.1	8.9
Magnesium	NA	NA	1,890	2,850	3,350	18,100	5,690	833	8,440
Manganese	1600	10000	338	221	139	224	216	118	387
Nickel	30	10000	9.8	14	15.3	8	5.8	4.4	15.7
Potassium	NA	NA	597	1430	760	912	606	480 U	1440
Vanadium	NA	NA	22.7	29.9	28.7	9	11.6	16.7	18.2
Zinc	109	10000	21.3	91.3	328	31.9	40.6	70.9	95.6
Mercury by USEPA Method 7471A									
Mercury	0.18	5.7	0.036 U	0.098	0.046	0.037 U	0.036 U	0.087	0.04 U
Percent Solids by ASTM Method SM212540B modified									
Percent Solids			83.3	65.7	81.8	79.3	86.1	50	75.5

Notes:

Sample Depth = feet below ground surface

Results in milligram per kilogram

Only detected compounds shown; detections in bold; shaded values exceed criteria

6 NYCRR Part 375 Soil Cleanup Objectives: Unrestricted = for unrestricted use; Industrial = restricted for industrial use

Shaded values exceed Soil Cleanup Objective for Industrial Use

-- = Not analyzed

U = not detected

J = estimated value

ND = not detected

Created by WDC 6/4/2010

Checked by CRS 6/7/2010



NYSDEC
Erdle Perforating Company
Gates, New York



Surface Soil Sample Locations
Project 3612-07-2094
Figure 1

ATTACHMENT 1

FIELD DATA RECORDS

SURFACE SOIL SAMPLE FIELD DATA RECORD

Project: EROLE Perforating
 Project Number: 3612072094-05.1
 Sample Location ID: 828072SS-01
SS-01

Site: _____
 Date: 4/15/10
 Time: Start: 0850 End: 1000
 Signature of Sampler: Jerry K. [Signature]

Sample time 0930

SOIL SAMPLE

DEPTH OF SAMPLE INTERVAL: 2.0 - 2.5'
 (Feet below ground surface)
 reported to 1/10 foot

0 - 1.8 Dark brown organic soils
1.8 - 2.0 Yellowish brown fine sandy silt
GW at 1.4' BGS

EQUIPMENT USED FOR COLLECTION:

- HAND AUGER
- S.S. SPLIT SPOON
- SHOVEL
- HAND SPOON
- ALUMINUM PANS
- SS BUCKET Bowl
- _____

TYPE OF SAMPLE COLLECTED:

- DISCRETE
- COMPOSITE

SAMPLE OBSERVATIONS:

- ODOR Slight organic decay
- COLOR Dark brown
- _____

DECONTAMINATION FLUIDS USED:

- ALL USED
- ETHYL ALCOHOL
- 25% METHANOL/ 75% ASTM TYPE II WATER
- DEIONIZED WATER
- LIQUINOX SOLUTION
- HEXANE
- HNO₃ SOLUTION
- POTABLE WATER
- NONE

SOIL TYPE:

- CLAY/silt
- SAND gravel
- ORGANIC
- GRAVEL

FIELD GC DATA: FIELD DUPLICATE COLLECTED
 DUPLICATE ID: _____

SAMPLE LOCATION SKETCH:
 YES
 NO

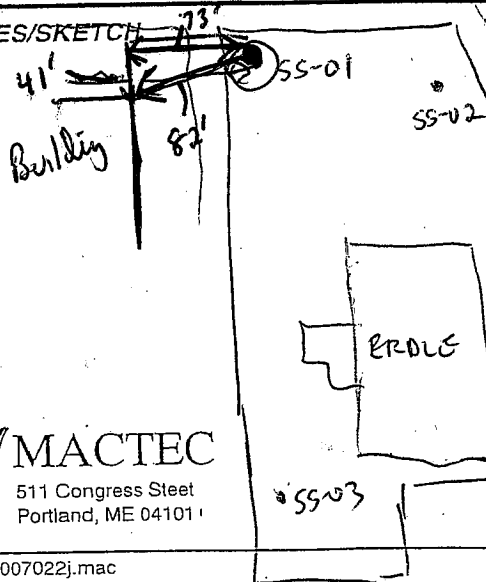
PID Reading NA

SAMPLES COLLECTED

MATRIX

✓ IF REQUIRED AT THIS LOCATION	SURFACE SOIL	✓ IF SAMPLE COLLECTED	✓ IF PRESERVED	VOLUME COLLECTED/NOTES
<input type="checkbox"/> VOC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>1 x 500ml amber glass</u>
<input checked="" type="checkbox"/> SVOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> PEST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> PCB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> INORGANICS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

NOTES/SKETCH



Background locations



Checked by CRS
6/3/10

FIGURE 4-12

SURFACE SOIL SAMPLE DATA RECORD
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

MACTEC
 511 Congress Street
 Portland, ME 04101

SURFACE SOIL SAMPLE FIELD DATA RECORD

Project: ERDLE - NYSDEC
 Project Number: 3012072094-05.1
 Sample Location ID: 82807295-02
SS-02

Site: _____
 Date: 4/15/10
 Time: Start: 1005 End: 1110
 Signature of Sampler: Jerry Pawliff

Scripture 1050

SOIL SAMPLE

DEPTH OF SAMPLE INTERVAL: 2.0-2.6
 (Feet below ground surface)
 reported to 1/10 foot

0-1.5 Dark brown organic sandy silt
1.5-1.9 reddish brown clay silt with fine sand
1.9-2.9 Dark brown sandy silt with organics
GW at ~ 1.3' BGS

EQUIPMENT USED FOR COLLECTION:
 HAND AUGER
 S.S. SPLIT SPOON
 SHOVEL
 HAND SPOON
 ALUMINUM PANS
 ~~BUCKET~~ BOWL


DECONTAMINATION FLUIDS USED:
 ALL USED
 ETHYL ALCOHOL
 25% METHANOL/ 75% ASTM TYPE II WATER
 DEIONIZED WATER
 LIQUINOX SOLUTION
 HEXANE
 HNO₃ SOLUTION
 POTABLE WATER
 NONE

TYPE OF SAMPLE COLLECTED:
 DISCRETE
 COMPOSITE

SAMPLE OBSERVATIONS:
 ODOR _____
 COLOR light reddish brown

SOIL TYPE:
 CLAY
 SAND/SILT
 ORGANIC
 GRAVEL

FIELD GC DATA: FIELD DUPLICATE COLLECTED
 DUPLICATE ID: _____

SAMPLE LOCATION SKETCH:
 YES
 NO


PID Reading NA

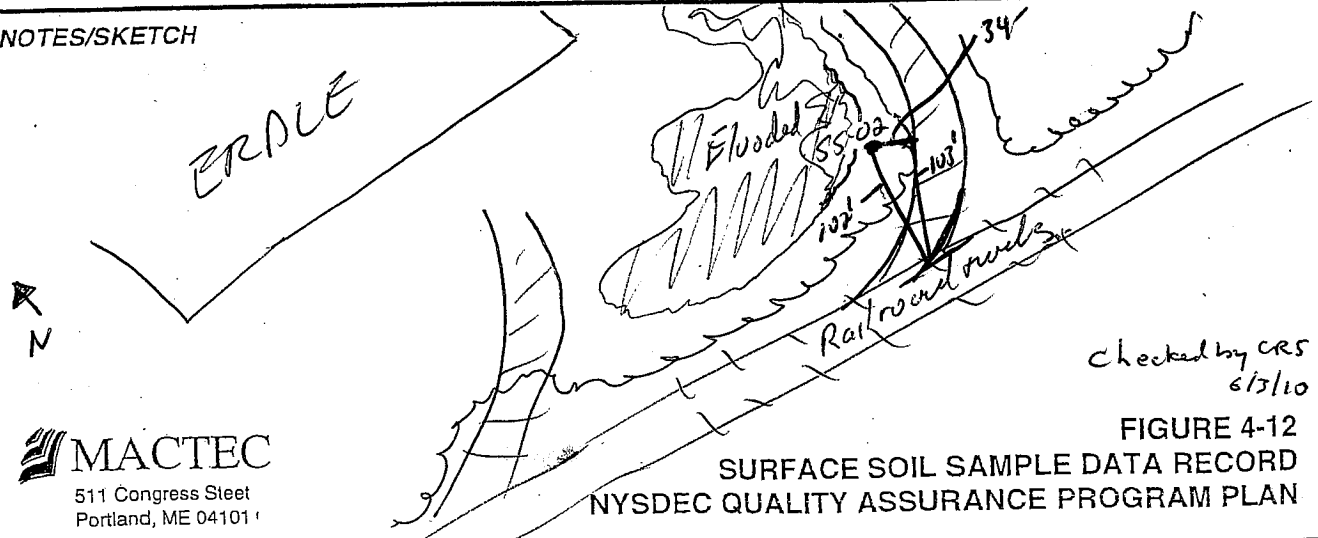
SAMPLES COLLECTED

MATRIX

✓ IF REQUIRED AT THIS LOCATION	SURFACE SOIL <u>2-2.6'</u>	✓ IF SAMPLE COLLECTED	✓ IF PRESERVED
<input type="checkbox"/> VOC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> SVOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> PEST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> PCB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> INORGANICS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VOLUME COLLECTED/NOTES
1 x 500ml amber glass jar

NOTES/SKETCH



Checked by CRS
 6/5/10

FIGURE 4-12
 SURFACE SOIL SAMPLE DATA RECORD
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

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SURFACE SOIL SAMPLE FIELD DATA RECORD

Project: ERDLE-NYSDEC
 Project Number: 3612072094-05.1
 Sample Location ID:

8	2	8	0	7	2	5	5	-0	3		
---	---	---	---	---	---	---	---	----	---	--	--

SS-03

Site: _____
 Date: 4/15/10
 Time: Start: 1145 End: 1235
 Signature of Sampler: Jerry Dunoff

Sample # 1215

SOIL SAMPLE

DEPTH OF SAMPLE INTERVAL: 2-2.8'
 (Feet below ground surface)
 reported to 1/10 foot

- EQUIPMENT USED FOR COLLECTION:
- HAND AUGER
 - S.S. SPLIT SPOON
 - SHOVEL
 - HAND SPOON
 - ALUMINUM PANS
 - SS BUCKET Bowl

- DECONTAMINATION FLUIDS USED:
- ALL USED
 - ETHYL ALCOHOL
 - 25% METHANOL/75% ASTM TYPE II WATER
 - DEIONIZED WATER
 - LIQUINOX SOLUTION
 - HEXANE
 - HNO₃ SOLUTION
 - POTABLE WATER
 - NONE

- TYPE OF SAMPLE COLLECTED:
- DISCRETE
 - COMPOSITE

- SAMPLE OBSERVATIONS:
- ODOR No unusual odors
 - COLOR Reddish brown

- SOIL TYPE:
- CLAY silt
 - SAND fine
 - ORGANIC
 - GRAVEL

FIELD GC DATA: FIELD DUPLICATE COLLECTED
 DPLICATE ID: _____

SAMPLE LOCATION SKETCH:
 YES
 NO

PID Reading MA

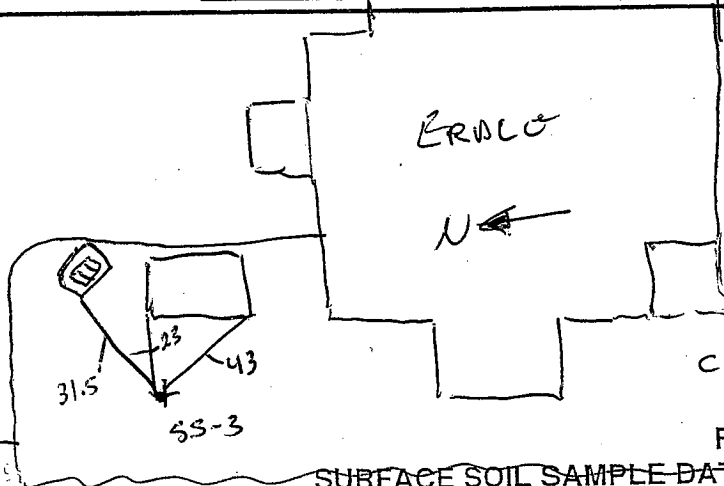
SAMPLES COLLECTED

MATRIX

✓ IF REQUIRED AT THIS LOCATION	SURFACE SOIL	✓ IF SAMPLE COLLECTED	✓ IF PRESERVED
<input type="checkbox"/> VOC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> SVOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> PEST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> PCB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> INORGANICS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(500ml)
 1 x 8oz amber glass

NOTES/SKETCH



Checked by CRS
 6/3/10

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 Portland, ME 04101

FIGURE 4-12
 SURFACE SOIL SAMPLE DATA RECORD
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SURFACE SOIL SAMPLE FIELD DATA RECORD

Project: EROLE - NYSDEC
 Project Number: 3612072094-05.1
 Sample Location ID: 82807253-04
SS-04

Site: _____
 Date: 4/15/10
 Time: Start: 1250 End: 1345
 Signature of Sampler: Jerry Paul

Sequentium 1335

SOIL SAMPLE

DEPTH OF SAMPLE INTERVAL: 2-2.6
 (Feet below ground surface)
 reported to 1/10 foot

0 - 2.2 Brown gravel, silt and cobbles.
2.2 - 2.5 Browns reddish grey silt with a trace of clay silt.
GW at 1.2' BGS

EQUIPMENT USED FOR COLLECTION:
 HAND AUGER
 S.S. SPLIT SPOON
 SHOVEL
 HAND SPOON
 ALUMINUM PANS
 SS BUCKET BOWL

DECONTAMINATION FLUIDS USED:
 ALL USED
 ETHYL ALCOHOL
 25% METHANOL/ 75% ASTM TYPE II WATER
 DEIONIZED WATER
 LIQUINOX SOLUTION
 HEXANE
 HNO₃ SOLUTION
 POTABLE WATER
 NONE

TYPE OF SAMPLE COLLECTED:
 DISCRETE
 COMPOSITE

SAMPLE OBSERVATIONS:
 ODOR Non obvious
 COLOR Brown

SOIL TYPE:
 CLAY
 SAND
 ORGANIC
 GRAVEL

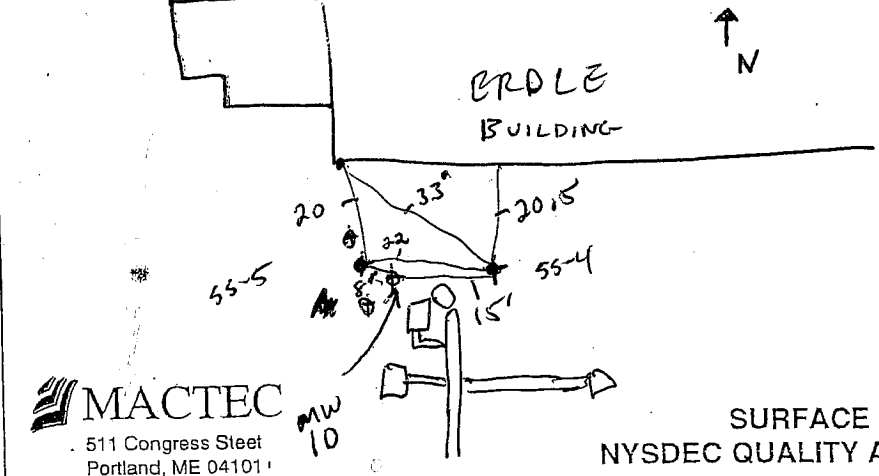
FIELD GC DATA: FIELD DUPLICATE COLLECTED
 DUPLICATE ID: _____
 PID Reading NA

SAMPLE LOCATION SKETCH:
 YES
 NO

SAMPLES COLLECTED

✓ IF REQUIRED AT THIS LOCATION	SURFACE SOIL	✓ IF SAMPLE COLLECTED	✓ IF PRESERVED	VOLUME COLLECTED/NOTES
<input type="checkbox"/> VOC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>1 x 500ml amber glass jar</u>
<input checked="" type="checkbox"/> SVOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> PEST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> PCB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> INORGANICS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

NOTES/SKETCH



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6/3/10

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FIGURE 4-12
 SURFACE SOIL SAMPLE DATA RECORD
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SURFACE SOIL SAMPLE FIELD DATA RECORD

Project: EROLE-NYSDEC
 Project Number: 3612072094-05.1
 Sample Location ID:

8	2	8	0	7	2	5	5	-	0	5			
---	---	---	---	---	---	---	---	---	---	---	--	--	--

 SS-05

Site: _____
 Date: 4/15/10
 Time: Start: 1345 End: 1445
 Signature of Sampler: Jerry Bulffe

Sample Time = 1430

SOIL SAMPLE

DEPTH OF SAMPLE INTERVAL: 2-2.5'
 (Feet below ground surface)
 reported to 1/10 foot

0-1.8' Dark brown to grey gravel, cobbles, and sand.

1.8-2.6' Gray to light reddish grey fine sand and silt with roots or wood fragments.

EQUIPMENT USED FOR COLLECTION:

- HAND AUGER
- S.S. SPLIT SPOON
- SHOVEL
- HAND SPOON
- ALUMINUM PANS
- S.S. BUCKET bow
- _____

DECONTAMINATION FLUIDS USED:

- ALL USED
- ETHYL ALCOHOL
- 25% METHANOL/ 75% ASTM TYPE II WATER
- DEIONIZED WATER
- LIQUINOX SOLUTION
- HEXANE
- HNO₃ SOLUTION
- POTABLE WATER
- NONE

TYPE OF SAMPLE COLLECTED:

- DISCRETE
- COMPOSITE

SAMPLE OBSERVATIONS:

- ODOR Sweet
- COLOR light reddish grey
- _____

SOIL TYPE:

- CLAY-silt
- SAND
- ORGANIC
- GRAVEL

FIELD GC DATA: FIELD DUPLICATE COLLECTED
 DUPLICATE ID: _____

SAMPLE LOCATION SKETCH:
 YES
 NO

PID Reading NA

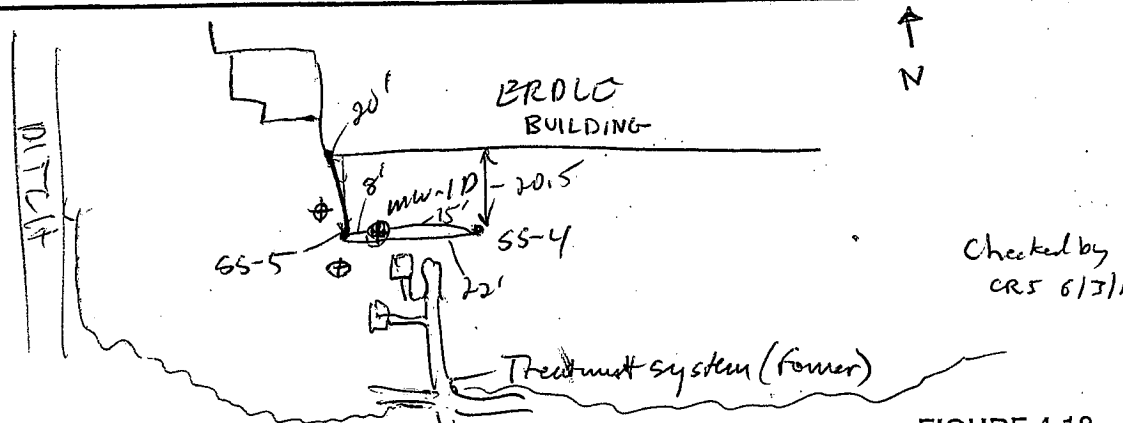
SAMPLES COLLECTED

MATRIX

✓ IF REQUIRED AT THIS LOCATION	SURFACE SOIL	✓ IF SAMPLE COLLECTED	✓ IF PRESERVED	VOLUME COLLECTED/NOTES
<input type="checkbox"/> VOC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> SVOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> PEST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> PCB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> INORGANICS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

500ml (25) 1x 8oz amber glass jar

NOTES/SKETCH



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CRS 6/3/10

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FIGURE 4-12
 SURFACE SOIL SAMPLE DATA RECORD
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SURFACE SOIL SAMPLE FIELD DATA RECORD

Project: EROLE-NYSDEC
 Project Number: 3612072094-051
 Sample Location ID: 82807255-06
SS-06

Site: _____
 Date: 4/15/10
 Time: Start: 1455 End: 1535
 Signature of Sampler: Jerry Reulff
Sample time 1515

SOIL SAMPLE

DEPTH OF SAMPLE INTERVAL: 0-0.9'
 (Feet below ground surface)
 reported to 1/10 foot

EQUIPMENT USED FOR COLLECTION:
 HAND AUGER
 S.S. SPLIT SPOON
 SHOVEL
 HAND SPOON
 ALUMINUM PANS
 SS BUCKET Bowl

DECONTAMINATION FLUIDS USED:
 ALL USED
 ETHYL ALCOHOL
 25% METHANOL/ 75% ASTM TYPE II WATER
 DEIONIZED WATER
 LIQUINOX SOLUTION
 HEXANE
 HNO₃ SOLUTION
 POTABLE WATER
 NONE

TYPE OF SAMPLE COLLECTED:
 DISCRETE vat
 COMPOSITE

SOIL TYPE:
 CLAY
 SAND
 ORGANIC
 GRAVEL

SAMPLE OBSERVATIONS:
 ODOR organic decay
 COLOR Dark brown

FIELD GC DATA: FIELD DUPLICATE COLLECTED
 DUPLICATE ID: _____

SAMPLE LOCATION SKETCH:
 YES
 NO

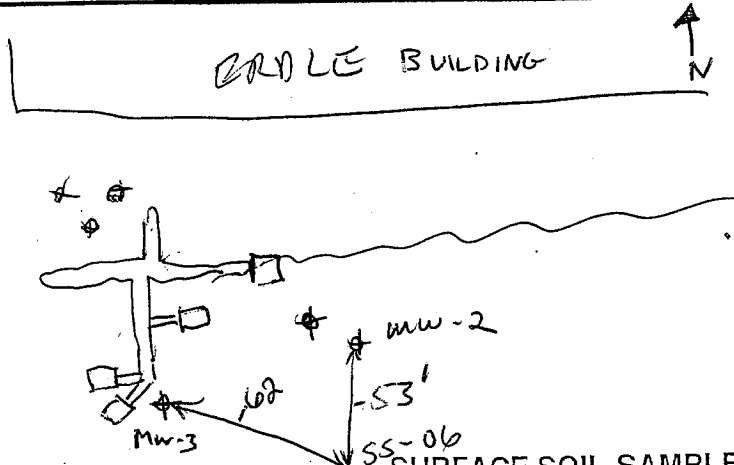
PID Reading _____

SAMPLES COLLECTED

MATRIX

✓ IF REQUIRED AT THIS LOCATION	SURFACE SOIL	✓ IF SAMPLE COLLECTED	✓ IF PRESERVED	VOLUME COLLECTED/NOTES
<input checked="" type="checkbox"/> VOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1x 500ml Amber glass jar</u>
<input checked="" type="checkbox"/> SVOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1x 40ml 10ml WBOH</u>
<input type="checkbox"/> PEST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>2x 40ml 5ml DE</u>
<input checked="" type="checkbox"/> PCB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> INORGANICS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

NOTES/SKETCH



checked by
 C. Staples 6/17/10

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 Portland, ME 04101

FIGURE 4-12
 SURFACE SOIL SAMPLE DATA RECORD
 NYSDEC QUALITY ASSURANCE PROGRAM PLAN

SURFACE SOIL SAMPLE FIELD DATA RECORD

Project: EROLE-NYSDEC
 Project Number: 3612072094-05.1
 Sample Location ID: 82807235-07
SS-07

Site: _____
 Date: 4/15/10
 Time: Start: 1535
 Signature of Sampler: Jerry Kowalski

Sampled 1550

SOIL SAMPLE

DEPTH OF SAMPLE INTERVAL: 0-0.8
 (Feet below ground surface)
 reported to 1/10 foot

Reddish brown clay silt.

EQUIPMENT USED FOR COLLECTION:

- HAND AUGER
- S.S. SPLT SPOON
- SHOVEL
- HAND SPOON
- ALUMINUM PANS
- 55 BUCKET *bow*
- _____

TYPE OF SAMPLE COLLECTED:

- DISCRETE *vat*
- COMPOSITE

SAMPLE OBSERVATIONS:

- ODOR *none obvious*
- COLOR *Reddish brown*
- _____

DECONTAMINATION FLUIDS USED:

- ALL USED
- ETHYL ALCOHOL
- 25% METHANOL/ 75% ASTM TYPE II WATER
- DEIONIZED WATER
- LIQUINOX SOLUTION
- HEXANE
- HNO₃ SOLUTION
- POTABLE WATER
- NONE

SOIL TYPE:

- CLAY
- SAND
- ORGANIC *OR*
- GRAVEL

FIELD GC DATA: FIELD DUPLICATE COLLECTED
 Duplicate ID: _____

SAMPLE LOCATION SKETCH:
 YES
 NO

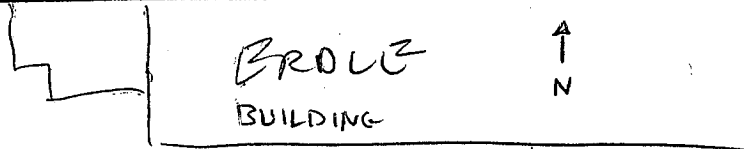
PID Reading _____

SAMPLES COLLECTED

MATRIX

✓ IF REQUIRED AT THIS LOCATION	SURFACE SOIL	✓ IF SAMPLE COLLECTED	✓ IF PRESERVED	VOLUME COLLECTED/NOTES
<input checked="" type="checkbox"/> VOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1 x 500ml amber glass</u>
<input checked="" type="checkbox"/> SVOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1 x 40ml 10ml H₂O₂H</u>
<input type="checkbox"/> PEST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>2 x 40ml 5ml DI</u>
<input checked="" type="checkbox"/> PCB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> INORGANICS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

NOTES/SKETCH



*Checked by
C. Staples 6/3/10*

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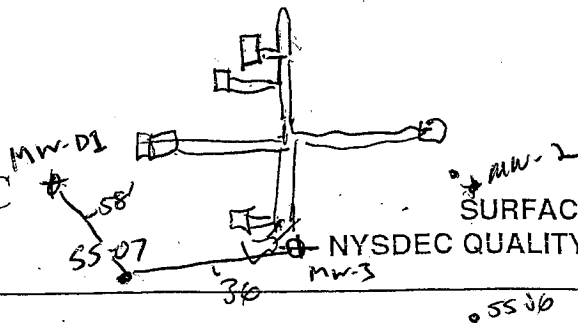


FIGURE 4-12
SURFACE SOIL SAMPLE DATA RECORD
NYSDEC QUALITY ASSURANCE PROGRAM PLAN

ATTACHMENT 2

DATA USABILITY SUMMARY REPORT

**DATA USABILITY SUMMARY REPORT
 2010 SOIL SAMPLING
 ERDLER PERFORATING SITE
 GATES, NEW YORK**

1.0 INTRODUCTION

Seven direct push soil samples were collected on April 15, 2010 at the Erdle Perforating Site (Site) in Gates, New York and submitted to Accutest Laboratories located in Marlborough, Massachusetts. Results were reported in Sample Delivery Groups (SDGs): M90665 and M90665R.

A listing of samples included in this Data Usability Summary Report is presented in Table 1. A summary of the analytical results is presented in Table 2. Samples were analyzed by the following methods:

- Volatile organic compounds (VOCs) by USEPA Method 8260B,
- Semi volatile compounds (SVOCs) by USEPA Method 8270C,
- Pesticides by USEPA Method 8081,
- Polychlorinated biphenyls (PCBs) by USEPA Method 8082,
- Metals and Mercury by USEPA Methods 6010B and 7471A,
- Percent Solids by Standard Methods 212540B Modified.

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005) for SDGs M90665 and M90665R. Tentatively Identified Compounds (TICs) were reported by the laboratory and are presented in Table 3. TICs were not evaluated as part of the DUSR.

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2010) for SDGs M90665 and M90665R. Laboratory quality control (QC) limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, lab control samples, and surrogate recovery), data transcription, electronic data reporting, calculations, and data qualification.

Table 1

SDG	Media	Location	Sample ID	Sample Date	Class Method Fraction Qc Code	VOC	SVOC	Metals	Metals	PCBs	Solids	Pesticides
						SW8260B T	SW8270C T	SW6010B T	SW7471A T	SW8082 T	SM212540 T	SW8081 T
M90665	SOIL	SS-01	828072SS-01	4/15/2010	FS		X	X	X	X	X	X
M90665	SOIL	SS-02	828072SS-02	4/15/2010	FS		X	X	X	X	X	
M90665	SOIL	SS-03	828072SS-03	4/15/2010	FS		X	X	X	X	X	
M90665	SOIL	SS-04	828072SS-04	4/15/2010	FS		X	X	X	X	X	X
M90665	SOIL	SS-05	828072SS-05	4/15/2010	FS		X	X	X	X	X	X
M90665	SOIL	SS-06	828072SS-06	4/15/2010	FS	X	X	X	X	X	X	X
M90665	SOIL	SS-07	828072SS-07	4/15/2010	FS	X	X	X	X	X	X	X

The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit

J = concentration is estimated

2.0 VOLATILE ORGANIC COMPOUNDS (VOCS)

Instrument Calibration

In the initial calibration, the percent relative standard deviation (RSD) for methyl tert butyl ether (21), carbon disulfide (27), 2-butanone (30), 1,1,1-trichloroethane (22), carbon tetrachloride (26), bromodichloromethane (24), cis-1,3-dichloropropene (50), trans-1,3-dichloropropene (44), 2-hexanone (21), bromoform (37), 1,2-dibromo-3-chloropropane (37), and 1,2,4-trichlorobenzene (32) exceeded the QC limit of 20. Sample results for methyl tert butyl ether, carbon disulfide, 2-butanone, 1,1,1-trichloroethane, carbon tetrachloride, bromodichloromethane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, 2-hexanone, bromoform, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene were non detect and were qualified estimated (UJ).

In the continuing calibration analyzed on April 20, 2010 had a percent difference greater than the control limit of 20 for acetone (37) and 2-butanone (21). Sample results for 2-butanone were qualified previously under the initial calibration criteria. Sample result for acetone were qualified estimated (J/UJ).

Surrogate Recovery

The percent recovery of 4-bromofluorobenzene in sample 828072SS-06 (134 and 131) exceeded the upper QC limit of 130. Reported detections in sample 828072SS-06 were qualified estimated (J).

3.0 SEMI VOLATILE ORGANIC COMPOUNDS (SVOCS)

Instrument Calibration

In the initial calibration, the percent RSD for hexachlorocyclopentadiene (17), 2,4-dinitrophenol (19), 4,6-dinitro-2-methyl phenol (20), pentachlorophenol (18), butyl benzyl phthalate (15.5), bis (2-ethylhexyl) phthalate (26), and di-n-octyl phthalate (25) exceeded the QC limit of 15. Sample results for hexachlorocyclopentadiene, 2,4-dinitrophenol, 4,6-dinitro-2-methyl phenol, pentachlorophenol, butyl benzyl phthalate, bis (2-ethylhexyl) phthalate, and di-n-octyl phthalate were non detect and were qualified estimated (UJ).

Laboratory Control Sample Results

The LCS percent recovery of acetophenone (157), 2-chloronaphthalene (164), 2,4-dinitrotoluene (176), 2,6-dinitro toluene (176), hexachlorobenzene (164), hexachlorobutadiene (159), hexachlorocyclopentadiene (187), hexachloroethane (160), and nitrobenzene (148) exceeded the upper QC limits. Sample results were non detect, no further action required.

Matrix Spike

Sample 828072SS-05 was analyzed as an MS/MSD by the laboratory. The MS percent recovery of 2,4-dinitrophenol (27) was less than the lower QC limit. The MS and/or MSD percent

recoveries of acetophenone (143), 2-chloronaphthalene (143 and 160), 2,4-dinitrotoluene (162 and 176), 2,6-dinitro toluene (161 and 175), hexachlorobenzene (154 and 166), and hexachlorobutadiene (145) exceeded the upper QC limits. The result for 2,4-dinitrophenol in the unspiked sample was non detect and was qualified estimated (UJ). The result for acetophenone, 2-chloronaphthalene, 2,4-dinitrotoluene, 2,6-dinitro toluene, hexachlorobenzene, and hexachlorobutadiene in the unspiked sample were non detect, no further action required.

4.0 PESTICIDES

Holding Time and Sample Collection

The laboratory extracted the samples two days beyond technical hold time. All sample results were non detect and were qualified estimated (UJ).

Instrument Calibration

In the initial calibration, the percent RSD for 4,4'-DDD (21), endrin aldehyde (39), endosulfan sulfate (25), and methoxychlor (27) exceeded the QC limit of 20. Sample results for 4,4'-DDD, endrin aldehyde, endosulfan sulfate, and methoxychlor were non detect and were qualified estimated (UJ).

In the continuing calibration, the percent difference for heptachlor (-23), 4,4'-DDT (-27), and methoxychlor (-28) exceeded the QC limit of 20. Sample results for methoxychlor were qualified previously under the initial calibration criteria. Sample results for heptachlor and 4,4'-DDT were non detect and were qualified estimated (UJ).

Laboratory Control Sample Results

Most of the LCS analyte percent recoveries exceeded the upper QC limits. LCS percent recoveries ranged from 144 to 212. Sample results were non detect, no further action required.

5.0 POLYCHLORINATED BIPEHNYLS (PCBs)

No quality control issues were identified and results are interpreted to be usable as reported by the laboratory.

6.0 METALS AND MERCURY

No quality control issues were identified and results are interpreted to be usable as reported by the laboratory.

7.0 PERCENT SOLIDS

No quality control issues were identified and results are interpreted to be usable as reported by the laboratory.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

Data Validator: Wolfgang Calicchio



Date: June 4, 2010

Reviewed by: Jayme Connolly



Date: June 4, 2010

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-01 4/15/2010 828072SS-01 FS		SS-02 4/15/2010 828072SS-02 FS	
			Result	Qualifier	Result	Qualifier
SW8260	1,1,1-Trichloroethane	ug/kg				
SW8260	1,1,2,2-Tetrachloroethane	ug/kg				
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg				
SW8260	1,1,2-Trichloroethane	ug/kg				
SW8260	1,1-Dichloroethane	ug/kg				
SW8260	1,1-Dichloroethene	ug/kg				
SW8260	1,2,4-Trichlorobenzene	ug/kg				
SW8260	1,2-Dibromo-3-chloropropane	ug/kg				
SW8260	1,2-Dibromoethane	ug/kg				
SW8260	1,2-Dichlorobenzene	ug/kg				
SW8260	1,2-Dichloroethane	ug/kg				
SW8260	1,2-Dichloropropane	ug/kg				
SW8260	1,3-Dichlorobenzene	ug/kg				
SW8260	1,4-Dichlorobenzene	ug/kg				
SW8260	2-Butanone	ug/kg				
SW8260	2-Hexanone	ug/kg				
SW8260	4-Methyl-2-pentanone	ug/kg				
SW8260	Acetic acid, methyl ester	ug/kg				
SW8260	Acetone	ug/kg				
SW8260	Benzene	ug/kg				
SW8260	Bromodichloromethane	ug/kg				
SW8260	Bromoform	ug/kg				
SW8260	Bromomethane	ug/kg				
SW8260	Carbon disulfide	ug/kg				
SW8260	Carbon tetrachloride	ug/kg				
SW8260	Chlorobenzene	ug/kg				
SW8260	Chlorodibromomethane	ug/kg				
SW8260	Chloroethane	ug/kg				
SW8260	Chloroform	ug/kg				
SW8260	Chloromethane	ug/kg				
SW8260	Cis-1,2-Dichloroethene	ug/kg				
SW8260	cis-1,3-Dichloropropene	ug/kg				
SW8260	Cyclohexane	ug/kg				
SW8260	Dichlorodifluoromethane	ug/kg				
SW8260	Ethyl benzene	ug/kg				
SW8260	Isopropylbenzene	ug/kg				
SW8260	Methyl cyclohexane	ug/kg				
SW8260	Methyl Tertbutyl Ether	ug/kg				
SW8260	Methylene chloride	ug/kg				
SW8260	Styrene	ug/kg				
SW8260	Tetrachloroethene	ug/kg				
SW8260	Toluene	ug/kg				
SW8260	trans-1,2-Dichloroethene	ug/kg				
SW8260	trans-1,3-Dichloropropene	ug/kg				
SW8260	Trichloroethene	ug/kg				
SW8260	Trichlorofluoromethane	ug/kg				
SW8260	Vinyl chloride	ug/kg				

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-01 4/15/2010 828072SS-01 FS		SS-02 4/15/2010 828072SS-02 FS	
			Result	Qualifier	Result	Qualifier
SW8260	Xylenes, Total	ug/kg				
SW8468270C	2,4,5-Trichlorophenol	ug/kg	590	U	740	U
SW8468270C	2,4,6-Trichlorophenol	ug/kg	590	U	740	U
SW8468270C	2,4-Dichlorophenol	ug/kg	590	U	740	U
SW8468270C	2,4-Dimethylphenol	ug/kg	590	U	740	U
SW8468270C	2,4-Dinitrophenol	ug/kg	1,200	UJ	1,500	UJ
SW8468270C	2,4-Dinitrotoluene	ug/kg	590	U	740	U
SW8468270C	2,6-Dinitrotoluene	ug/kg	590	U	740	U
SW8468270C	2-Chloronaphthalene	ug/kg	290	U	370	U
SW8468270C	2-Chlorophenol	ug/kg	290	U	370	U
SW8468270C	2-Methylnaphthalene	ug/kg	290	U	370	U
SW8468270C	2-Methylphenol	ug/kg	590	U	740	U
SW8468270C	2-Nitroaniline	ug/kg	590	U	740	U
SW8468270C	2-Nitrophenol	ug/kg	590	U	740	U
SW8468270C	3 & 4 Methylphenol	ug/kg	590	U	740	U
SW8468270C	3,3'-Dichlorobenzidine	ug/kg	290	U	370	U
SW8468270C	3-Nitroaniline	ug/kg	590	U	740	U
SW8468270C	4,6-Dinitro-2-methylphenol	ug/kg	590	UJ	740	UJ
SW8468270C	4-Bromophenyl phenyl ether	ug/kg	290	U	370	U
SW8468270C	4-Chloro-3-methylphenol	ug/kg	590	U	740	U
SW8468270C	4-Chloroaniline	ug/kg	590	U	740	U
SW8468270C	4-Chlorophenyl phenyl ether	ug/kg	290	U	370	U
SW8468270C	4-Nitroaniline	ug/kg	590	U	740	U
SW8468270C	4-Nitrophenol	ug/kg	1,200	U	1,500	U
SW8468270C	Acenaphthene	ug/kg	290	U	370	U
SW8468270C	Acenaphthylene	ug/kg	290	U	370	U
SW8468270C	Acetophenone	ug/kg	590	U	740	U
SW8468270C	Anthracene	ug/kg	290	U	370	U
SW8468270C	Atrazine	ug/kg	590	U	740	U
SW8468270C	Benzaldehyde	ug/kg	1,200	U	1,500	U
SW8468270C	Benzo(a)anthracene	ug/kg	290	U	370	U
SW8468270C	Benzo(a)pyrene	ug/kg	290	U	370	U
SW8468270C	Benzo(b)fluoranthene	ug/kg	290	U	370	U
SW8468270C	Benzo(ghi)perylene	ug/kg	290	U	370	U
SW8468270C	Benzo(k)fluoranthene	ug/kg	290	U	370	U
SW8468270C	Biphenyl	ug/kg	590	U	740	U
SW8468270C	Bis(2-Chloroethoxy)methane	ug/kg	290	U	370	U
SW8468270C	Bis(2-Chloroethyl)ether	ug/kg	290	U	370	U
SW8468270C	Bis(2-Chloroisopropyl)ether	ug/kg	290	U	370	U
SW8468270C	Bis(2-Ethylhexyl)phthalate	ug/kg	290	UJ	370	UJ
SW8468270C	Butylbenzylphthalate	ug/kg	290	UJ	370	UJ
SW8468270C	Caprolactum	ug/kg	590	U	740	U
SW8468270C	Carbazole	ug/kg	290	U	370	U
SW8468270C	Chrysene	ug/kg	290	U	370	U
SW8468270C	Di-n-butylphthalate	ug/kg	290	U	370	U
SW8468270C	Di-n-octylphthalate	ug/kg	290	UJ	370	UJ
SW8468270C	Dibenz(a,h)anthracene	ug/kg	290	U	370	U

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code	SS-01 4/15/2010 828072SS-01 FS		SS-02 4/15/2010 828072SS-02 FS	
			Result	Qualifier	Result	Qualifier
SW8468270C	Dibenzofuran	ug/kg	290	U	370	U
SW8468270C	Diethylphthalate	ug/kg	290	U	370	U
SW8468270C	Dimethylphthalate	ug/kg	290	U	370	U
SW8468270C	Fluoranthene	ug/kg	290	U	370	U
SW8468270C	Fluorene	ug/kg	290	U	370	U
SW8468270C	Hexachlorobenzene	ug/kg	290	U	370	U
SW8468270C	Hexachlorobutadiene	ug/kg	290	U	370	U
SW8468270C	Hexachlorocyclopentadiene	ug/kg	590	UJ	740	UJ
SW8468270C	Hexachloroethane	ug/kg	290	U	370	U
SW8468270C	Indeno(1,2,3-cd)pyrene	ug/kg	290	U	370	U
SW8468270C	Isophorone	ug/kg	290	U	370	U
SW8468270C	N-Nitrosodi-n-propylamine	ug/kg	290	U	370	U
SW8468270C	N-Nitrosodiphenylamine	ug/kg	290	U	370	U
SW8468270C	Naphthalene	ug/kg	290	U	370	U
SW8468270C	Nitrobenzene	ug/kg	290	U	370	U
SW8468270C	Pentachlorophenol	ug/kg	590	UJ	740	UJ
SW8468270C	Phenanthrene	ug/kg	290	U	370	U
SW8468270C	Phenol	ug/kg	290	U	370	U
SW8468270C	Pyrene	ug/kg	290	U	370	U
SW8468081	4,4'-DDD	ug/kg	7.6	UJ		
SW8468081	4,4'-DDE	ug/kg	7.6	UJ		
SW8468081	4,4'-DDT	ug/kg	7.6	UJ		
SW8468081	Aldrin	ug/kg	7.6	UJ		
SW8468081	Alpha-BHC	ug/kg	7.6	UJ		
SW8468081	Beta-BHC	ug/kg	7.6	UJ		
SW8468081	Chlordane (technical)	ug/kg	76	UJ		
SW8468081	Delta-BHC	ug/kg	7.6	UJ		
SW8468081	Dieldrin	ug/kg	7.6	UJ		
SW8468081	Endosulfan I	ug/kg	7.6	UJ		
SW8468081	Endosulfan II	ug/kg	7.6	UJ		
SW8468081	Endosulfan sulfate	ug/kg	7.6	UJ		
SW8468081	Endrin	ug/kg	7.6	UJ		
SW8468081	Endrin aldehyde	ug/kg	7.6	UJ		
SW8468081	Gamma-BHC/Lindane	ug/kg	7.6	UJ		
SW8468081	Heptachlor	ug/kg	7.6	UJ		
SW8468081	Heptachlor epoxide	ug/kg	7.6	UJ		
SW8468081	Methoxychlor	ug/kg	7.6	UJ		
SW8468081	Toxaphene	ug/kg	76	UJ		
SW8468082	Aroclor-1016	ug/kg	120	U	150	U
SW8468082	Aroclor-1221	ug/kg	120	U	150	U
SW8468082	Aroclor-1232	ug/kg	120	U	150	U
SW8468082	Aroclor-1242	ug/kg	120	U	150	U
SW8468082	Aroclor-1248	ug/kg	120	U	150	U
SW8468082	Aroclor-1254	ug/kg	120	U	150	U
SW8468082	Aroclor-1260	ug/kg	120	U	150	U
SW8466010B	Aluminum	mg/kg	6,310		17,400	
SW8466010B	Antimony	mg/kg	1.9	U	2.2	U

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-01 4/15/2010 828072SS-01 FS		SS-02 4/15/2010 828072SS-02 FS	
			Result	Qualifier	Result	Qualifier
SW8466010B	Arsenic	mg/kg	2.4		4.6	
SW8466010B	Barium	mg/kg	41.4		101	
SW8466010B	Beryllium	mg/kg	0.38	U	0.84	
SW8466010B	Cadmium	mg/kg	0.38	U	0.44	U
SW8466010B	Calcium	mg/kg	2,030		5,330	
SW8466010B	Chromium	mg/kg	11.1		17.7	
SW8466010B	Cobalt	mg/kg	4.7	U	5.6	
SW8466010B	Copper	mg/kg	8.3		9.7	
SW8466010B	Iron	mg/kg	16,100		19,700	
SW8466010B	Lead	mg/kg	3.1		13.7	
SW8466010B	Magnesium	mg/kg	1,890		2,850	
SW8466010B	Manganese	mg/kg	338		221	
SW8466010B	Nickel	mg/kg	9.8		14	
SW8466010B	Potassium	mg/kg	597		1430	
SW8466010B	Selenium	mg/kg	1.9	U	2.2	U
SW8466010B	Silver	mg/kg	0.47	U	0.55	U
SW8466010B	Sodium	mg/kg	470	U	550	U
SW8466010B	Thallium	mg/kg	1.9	U	2.2	U
SW8466010B	Vanadium	mg/kg	22.7		29.9	
SW8466010B	Zinc	mg/kg	21.3		91.3	
SW8467471A	Mercury	mg/kg	0.036	U	0.098	
SM212540BMOD	Percent Solids	Percent	83.3		65.7	

Notes:

ug/kg = microgram per kilogram

mg/kg = milligram per kilogram

FS = field sample

U = not detected

J = estimated value

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-03 4/15/2010 828072SS-03 FS		SS-04 4/15/2010 828072SS-04 FS	
			Result	Qualifier	Result	Qualifier
SW8260	1,1,1-Trichloroethane	ug/kg				
SW8260	1,1,2,2-Tetrachloroethane	ug/kg				
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg				
SW8260	1,1,2-Trichloroethane	ug/kg				
SW8260	1,1-Dichloroethane	ug/kg				
SW8260	1,1-Dichloroethene	ug/kg				
SW8260	1,2,4-Trichlorobenzene	ug/kg				
SW8260	1,2-Dibromo-3-chloropropane	ug/kg				
SW8260	1,2-Dibromoethane	ug/kg				
SW8260	1,2-Dichlorobenzene	ug/kg				
SW8260	1,2-Dichloroethane	ug/kg				
SW8260	1,2-Dichloropropane	ug/kg				
SW8260	1,3-Dichlorobenzene	ug/kg				
SW8260	1,4-Dichlorobenzene	ug/kg				
SW8260	2-Butanone	ug/kg				
SW8260	2-Hexanone	ug/kg				
SW8260	4-Methyl-2-pentanone	ug/kg				
SW8260	Acetic acid, methyl ester	ug/kg				
SW8260	Acetone	ug/kg				
SW8260	Benzene	ug/kg				
SW8260	Bromodichloromethane	ug/kg				
SW8260	Bromoform	ug/kg				
SW8260	Bromomethane	ug/kg				
SW8260	Carbon disulfide	ug/kg				
SW8260	Carbon tetrachloride	ug/kg				
SW8260	Chlorobenzene	ug/kg				
SW8260	Chlorodibromomethane	ug/kg				
SW8260	Chloroethane	ug/kg				
SW8260	Chloroform	ug/kg				
SW8260	Chloromethane	ug/kg				
SW8260	Cis-1,2-Dichloroethene	ug/kg				
SW8260	cis-1,3-Dichloropropene	ug/kg				
SW8260	Cyclohexane	ug/kg				
SW8260	Dichlorodifluoromethane	ug/kg				
SW8260	Ethyl benzene	ug/kg				
SW8260	Isopropylbenzene	ug/kg				
SW8260	Methyl cyclohexane	ug/kg				
SW8260	Methyl Tertbutyl Ether	ug/kg				
SW8260	Methylene chloride	ug/kg				
SW8260	Styrene	ug/kg				
SW8260	Tetrachloroethene	ug/kg				
SW8260	Toluene	ug/kg				
SW8260	trans-1,2-Dichloroethene	ug/kg				
SW8260	trans-1,3-Dichloropropene	ug/kg				
SW8260	Trichloroethene	ug/kg				
SW8260	Trichlorofluoromethane	ug/kg				
SW8260	Vinyl chloride	ug/kg				

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-03 4/15/2010 828072SS-03 FS		SS-04 4/15/2010 828072SS-04 FS	
			Result	Qualifier	Result	Qualifier
SW8260	Xylenes, Total	ug/kg				
SW8468270C	2,4,5-Trichlorophenol	ug/kg	600	U	620	U
SW8468270C	2,4,6-Trichlorophenol	ug/kg	600	U	620	U
SW8468270C	2,4-Dichlorophenol	ug/kg	600	U	620	U
SW8468270C	2,4-Dimethylphenol	ug/kg	600	U	620	U
SW8468270C	2,4-Dinitrophenol	ug/kg	1,200	UJ	1,200	UJ
SW8468270C	2,4-Dinitrotoluene	ug/kg	600	U	620	U
SW8468270C	2,6-Dinitrotoluene	ug/kg	600	U	620	U
SW8468270C	2-Chloronaphthalene	ug/kg	300	U	310	U
SW8468270C	2-Chlorophenol	ug/kg	300	U	310	U
SW8468270C	2-Methylnaphthalene	ug/kg	300	U	310	U
SW8468270C	2-Methylphenol	ug/kg	600	U	620	U
SW8468270C	2-Nitroaniline	ug/kg	600	U	620	U
SW8468270C	2-Nitrophenol	ug/kg	600	U	620	U
SW8468270C	3 & 4 Methylphenol	ug/kg	600	U	620	U
SW8468270C	3,3'-Dichlorobenzidine	ug/kg	300	U	310	U
SW8468270C	3-Nitroaniline	ug/kg	600	U	620	U
SW8468270C	4,6-Dinitro-2-methylphenol	ug/kg	600	UJ	620	UJ
SW8468270C	4-Bromophenyl phenyl ether	ug/kg	300	U	310	U
SW8468270C	4-Chloro-3-methylphenol	ug/kg	600	U	620	U
SW8468270C	4-Chloroaniline	ug/kg	600	U	620	U
SW8468270C	4-Chlorophenyl phenyl ether	ug/kg	300	U	310	U
SW8468270C	4-Nitroaniline	ug/kg	600	U	620	U
SW8468270C	4-Nitrophenol	ug/kg	1,200	U	1,200	U
SW8468270C	Acenaphthene	ug/kg	300	U	310	U
SW8468270C	Acenaphthylene	ug/kg	300	U	310	U
SW8468270C	Acetophenone	ug/kg	600	U	620	U
SW8468270C	Anthracene	ug/kg	300	U	2890	
SW8468270C	Atrazine	ug/kg	600	U	620	U
SW8468270C	Benzaldehyde	ug/kg	1,200	U	1,200	U
SW8468270C	Benzo(a)anthracene	ug/kg	300	U	4920	
SW8468270C	Benzo(a)pyrene	ug/kg	300	U	3090	
SW8468270C	Benzo(b)fluoranthene	ug/kg	300	U	3490	
SW8468270C	Benzo(ghi)perylene	ug/kg	300	U	1820	
SW8468270C	Benzo(k)fluoranthene	ug/kg	300	U	2940	
SW8468270C	Biphenyl	ug/kg	600	U	620	U
SW8468270C	Bis(2-Chloroethoxy)methane	ug/kg	300	U	310	U
SW8468270C	Bis(2-Chloroethyl)ether	ug/kg	300	U	310	U
SW8468270C	Bis(2-Chloroisopropyl)ether	ug/kg	300	U	310	U
SW8468270C	Bis(2-Ethylhexyl)phthalate	ug/kg	300	UJ	310	UJ
SW8468270C	Butylbenzylphthalate	ug/kg	300	UJ	310	UJ
SW8468270C	Caprolactum	ug/kg	600	U	620	U
SW8468270C	Carbazole	ug/kg	300	U	681	
SW8468270C	Chrysene	ug/kg	300	U	4360	
SW8468270C	Di-n-butylphthalate	ug/kg	300	U	310	U
SW8468270C	Di-n-octylphthalate	ug/kg	300	UJ	310	UJ
SW8468270C	Dibenz(a,h)anthracene	ug/kg	300	U	649	

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-03 4/15/2010 828072SS-03 FS		SS-04 4/15/2010 828072SS-04 FS	
			Result	Qualifier	Result	Qualifier
SW8468270C	Dibenzofuran	ug/kg	300	U	310	U
SW8468270C	Diethylphthalate	ug/kg	300	U	310	U
SW8468270C	Dimethylphthalate	ug/kg	300	U	310	U
SW8468270C	Fluoranthene	ug/kg	300	U	12300	
SW8468270C	Fluorene	ug/kg	300	U	456	
SW8468270C	Hexachlorobenzene	ug/kg	300	U	310	U
SW8468270C	Hexachlorobutadiene	ug/kg	300	U	310	U
SW8468270C	Hexachlorocyclopentadiene	ug/kg	600	UJ	620	UJ
SW8468270C	Hexachloroethane	ug/kg	300	U	310	U
SW8468270C	Indeno(1,2,3-cd)pyrene	ug/kg	300	U	1820	
SW8468270C	Isophorone	ug/kg	300	U	310	U
SW8468270C	N-Nitrosodi-n-propylamine	ug/kg	300	U	310	U
SW8468270C	N-Nitrosodiphenylamine	ug/kg	300	U	310	U
SW8468270C	Naphthalene	ug/kg	300	U	310	U
SW8468270C	Nitrobenzene	ug/kg	300	U	310	U
SW8468270C	Pentachlorophenol	ug/kg	600	UJ	620	UJ
SW8468270C	Phenanthrene	ug/kg	300	U	8730	
SW8468270C	Phenol	ug/kg	300	U	310	U
SW8468270C	Pyrene	ug/kg	300	U	8590	
SW8468081	4,4'-DDD	ug/kg			8.3	UJ
SW8468081	4,4'-DDE	ug/kg			8.3	UJ
SW8468081	4,4'-DDT	ug/kg			8.3	UJ
SW8468081	Aldrin	ug/kg			8.3	UJ
SW8468081	Alpha-BHC	ug/kg			8.3	UJ
SW8468081	Beta-BHC	ug/kg			8.3	UJ
SW8468081	Chlordane (technical)	ug/kg			83	UJ
SW8468081	Delta-BHC	ug/kg			8.3	UJ
SW8468081	Dieldrin	ug/kg			8.3	UJ
SW8468081	Endosulfan I	ug/kg			8.3	UJ
SW8468081	Endosulfan II	ug/kg			8.3	UJ
SW8468081	Endosulfan sulfate	ug/kg			8.3	UJ
SW8468081	Endrin	ug/kg			8.3	UJ
SW8468081	Endrin aldehyde	ug/kg			8.3	UJ
SW8468081	Gamma-BHC/Lindane	ug/kg			8.3	UJ
SW8468081	Heptachlor	ug/kg			8.3	UJ
SW8468081	Heptachlor epoxide	ug/kg			8.3	UJ
SW8468081	Methoxychlor	ug/kg			8.3	UJ
SW8468081	Toxaphene	ug/kg			83	UJ
SW8468082	Aroclor-1016	ug/kg	120	U	120	U
SW8468082	Aroclor-1221	ug/kg	120	U	120	U
SW8468082	Aroclor-1232	ug/kg	120	U	120	U
SW8468082	Aroclor-1242	ug/kg	120	U	120	U
SW8468082	Aroclor-1248	ug/kg	120	U	120	U
SW8468082	Aroclor-1254	ug/kg	120	U	120	U
SW8468082	Aroclor-1260	ug/kg	120	U	120	U
SW8466010B	Aluminum	mg/kg	9,140		3,940	
SW8466010B	Antimony	mg/kg	2	U	2	U

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-03		SS-04	
			Result	Qualifier	Result	Qualifier
SW8466010B	Arsenic	mg/kg	2.8		2.7	
SW8466010B	Barium	mg/kg	52.7		20.9	
SW8466010B	Beryllium	mg/kg	0.6		0.4	U
SW8466010B	Cadmium	mg/kg	0.4	U	0.4	U
SW8466010B	Calcium	mg/kg	5,070		61,900	
SW8466010B	Chromium	mg/kg	13.7		6.9	
SW8466010B	Cobalt	mg/kg	5.1		5	U
SW8466010B	Copper	mg/kg	11		8.6	
SW8466010B	Iron	mg/kg	19,100		9,110	
SW8466010B	Lead	mg/kg	6.9		10.4	
SW8466010B	Magnesium	mg/kg	3,350		18,100	
SW8466010B	Manganese	mg/kg	139		224	
SW8466010B	Nickel	mg/kg	15.3		8	
SW8466010B	Potassium	mg/kg	760		912	
SW8466010B	Selenium	mg/kg	2	U	2	U
SW8466010B	Silver	mg/kg	0.51	U	0.5	U
SW8466010B	Sodium	mg/kg	510	U	500	U
SW8466010B	Thallium	mg/kg	2	U	2	U
SW8466010B	Vanadium	mg/kg	28.7		9	
SW8466010B	Zinc	mg/kg	328		31.9	
SW8467471A	Mercury	mg/kg	0.046		0.037	U
SM212540BMOD	Percent Solids	Percent	81.8		79.3	

Notes:

ug/kg = microgram per kilogram

mg/kg = milligram per kilogram

FS = field sample

U = not detected

J = estimated value

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-05 4/15/2010 828072SS-05 FS		SS-06 4/15/2010 828072SS-06 FS	
			Result	Qualifier	Result	Qualifier
SW8260	1,1,1-Trichloroethane	ug/kg			3.2	UJ
SW8260	1,1,2,2-Tetrachloroethane	ug/kg			3.2	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg			7.9	U
SW8260	1,1,2-Trichloroethane	ug/kg			3.2	U
SW8260	1,1-Dichloroethane	ug/kg			3.2	U
SW8260	1,1-Dichloroethene	ug/kg			3.2	U
SW8260	1,2,4-Trichlorobenzene	ug/kg			7.9	UJ
SW8260	1,2-Dibromo-3-chloropropane	ug/kg			7.9	UJ
SW8260	1,2-Dibromoethane	ug/kg			3.2	U
SW8260	1,2-Dichlorobenzene	ug/kg			3.2	U
SW8260	1,2-Dichloroethane	ug/kg			3.2	U
SW8260	1,2-Dichloropropane	ug/kg			3.2	U
SW8260	1,3-Dichlorobenzene	ug/kg			3.2	U
SW8260	1,4-Dichlorobenzene	ug/kg			3.2	U
SW8260	2-Butanone	ug/kg			7.9	UJ
SW8260	2-Hexanone	ug/kg			7.9	UJ
SW8260	4-Methyl-2-pentanone	ug/kg			7.9	U
SW8260	Acetic acid, methyl ester	ug/kg			7.9	U
SW8260	Acetone	ug/kg			11	J
SW8260	Benzene	ug/kg			0.79	U
SW8260	Bromodichloromethane	ug/kg			3.2	UJ
SW8260	Bromoform	ug/kg			3.2	U
SW8260	Bromomethane	ug/kg			3.2	U
SW8260	Carbon disulfide	ug/kg			7.9	UJ
SW8260	Carbon tetrachloride	ug/kg			3.2	UJ
SW8260	Chlorobenzene	ug/kg			3.2	U
SW8260	Chlorodibromomethane	ug/kg			3.2	U
SW8260	Chloroethane	ug/kg			7.9	U
SW8260	Chloroform	ug/kg			3.2	U
SW8260	Chloromethane	ug/kg			7.9	U
SW8260	Cis-1,2-Dichloroethene	ug/kg			3.2	U
SW8260	cis-1,3-Dichloropropene	ug/kg			3.2	UJ
SW8260	Cyclohexane	ug/kg			7.9	U
SW8260	Dichlorodifluoromethane	ug/kg			3.2	U
SW8260	Ethyl benzene	ug/kg			3.2	U
SW8260	Isopropylbenzene	ug/kg			7.9	U
SW8260	Methyl cyclohexane	ug/kg			7.9	U
SW8260	Methyl Tertbutyl Ether	ug/kg			3.2	UJ
SW8260	Methylene chloride	ug/kg			3.2	U
SW8260	Styrene	ug/kg			7.9	U
SW8260	Tetrachloroethene	ug/kg			3.2	U
SW8260	Toluene	ug/kg			7.9	U
SW8260	trans-1,2-Dichloroethene	ug/kg			3.2	U
SW8260	trans-1,3-Dichloropropene	ug/kg			3.2	UJ
SW8260	Trichloroethene	ug/kg			3.2	U
SW8260	Trichlorofluoromethane	ug/kg			3.2	U
SW8260	Vinyl chloride	ug/kg			3.2	U

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-05 4/15/2010 828072SS-05 FS		SS-06 4/15/2010 828072SS-06 FS	
			Result	Qualifier	Result	Qualifier
SW8260	Xylenes, Total	ug/kg			3.2	U
SW8468270C	2,4,5-Trichlorophenol	ug/kg	570	U	980	U
SW8468270C	2,4,6-Trichlorophenol	ug/kg	570	U	980	U
SW8468270C	2,4-Dichlorophenol	ug/kg	570	U	980	U
SW8468270C	2,4-Dimethylphenol	ug/kg	570	U	980	U
SW8468270C	2,4-Dinitrophenol	ug/kg	1,100	UJ	2,000	UJ
SW8468270C	2,4-Dinitrotoluene	ug/kg	570	U	980	U
SW8468270C	2,6-Dinitrotoluene	ug/kg	570	U	980	U
SW8468270C	2-Chloronaphthalene	ug/kg	280	U	490	U
SW8468270C	2-Chlorophenol	ug/kg	280	U	490	U
SW8468270C	2-Methylnaphthalene	ug/kg	280	U	490	U
SW8468270C	2-Methylphenol	ug/kg	570	U	980	U
SW8468270C	2-Nitroaniline	ug/kg	570	U	980	U
SW8468270C	2-Nitrophenol	ug/kg	570	U	980	U
SW8468270C	3 & 4 Methylphenol	ug/kg	570	U	980	U
SW8468270C	3,3'-Dichlorobenzidine	ug/kg	280	U	490	U
SW8468270C	3-Nitroaniline	ug/kg	570	U	980	U
SW8468270C	4,6-Dinitro-2-methylphenol	ug/kg	570	UJ	980	UJ
SW8468270C	4-Bromophenyl phenyl ether	ug/kg	280	U	490	U
SW8468270C	4-Chloro-3-methylphenol	ug/kg	570	U	980	U
SW8468270C	4-Chloroaniline	ug/kg	570	U	980	U
SW8468270C	4-Chlorophenyl phenyl ether	ug/kg	280	U	490	U
SW8468270C	4-Nitroaniline	ug/kg	570	U	980	U
SW8468270C	4-Nitrophenol	ug/kg	1,100	U	2,000	U
SW8468270C	Acenaphthene	ug/kg	280	U	490	U
SW8468270C	Acenaphthylene	ug/kg	280	U	490	U
SW8468270C	Acetophenone	ug/kg	570	U	980	U
SW8468270C	Anthracene	ug/kg	280	U	490	U
SW8468270C	Atrazine	ug/kg	570	U	980	U
SW8468270C	Benzaldehyde	ug/kg	1,100	U	2,000	U
SW8468270C	Benzo(a)anthracene	ug/kg	280	U	490	U
SW8468270C	Benzo(a)pyrene	ug/kg	280	U	490	U
SW8468270C	Benzo(b)fluoranthene	ug/kg	280	U	490	U
SW8468270C	Benzo(ghi)perylene	ug/kg	280	U	490	U
SW8468270C	Benzo(k)fluoranthene	ug/kg	280	U	490	U
SW8468270C	Biphenyl	ug/kg	570	U	980	U
SW8468270C	Bis(2-Chloroethoxy)methane	ug/kg	280	U	490	U
SW8468270C	Bis(2-Chloroethyl)ether	ug/kg	280	U	490	U
SW8468270C	Bis(2-Chloroisopropyl)ether	ug/kg	280	U	490	U
SW8468270C	Bis(2-Ethylhexyl)phthalate	ug/kg	280	UJ	490	UJ
SW8468270C	Butylbenzylphthalate	ug/kg	280	UJ	490	UJ
SW8468270C	Caprolactum	ug/kg	570	U	980	U
SW8468270C	Carbazole	ug/kg	280	U	490	U
SW8468270C	Chrysene	ug/kg	280	U	490	U
SW8468270C	Di-n-butylphthalate	ug/kg	280	U	490	U
SW8468270C	Di-n-octylphthalate	ug/kg	280	UJ	490	UJ
SW8468270C	Dibenz(a,h)anthracene	ug/kg	280	U	490	U

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-05 4/15/2010 828072SS-05 FS		SS-06 4/15/2010 828072SS-06 FS	
			Result	Qualifier	Result	Qualifier
SW8468270C	Dibenzofuran	ug/kg	280	U	490	U
SW8468270C	Diethylphthalate	ug/kg	280	U	490	U
SW8468270C	Dimethylphthalate	ug/kg	280	U	490	U
SW8468270C	Fluoranthene	ug/kg	280	U	490	U
SW8468270C	Fluorene	ug/kg	280	U	490	U
SW8468270C	Hexachlorobenzene	ug/kg	280	U	490	U
SW8468270C	Hexachlorobutadiene	ug/kg	280	U	490	U
SW8468270C	Hexachlorocyclopentadiene	ug/kg	570	UJ	980	UJ
SW8468270C	Hexachloroethane	ug/kg	280	U	490	U
SW8468270C	Indeno(1,2,3-cd)pyrene	ug/kg	280	U	490	U
SW8468270C	Isophorone	ug/kg	280	U	490	U
SW8468270C	N-Nitrosodi-n-propylamine	ug/kg	280	U	490	U
SW8468270C	N-Nitrosodiphenylamine	ug/kg	280	U	490	U
SW8468270C	Naphthalene	ug/kg	280	U	490	U
SW8468270C	Nitrobenzene	ug/kg	280	U	490	U
SW8468270C	Pentachlorophenol	ug/kg	570	UJ	980	UJ
SW8468270C	Phenanthrene	ug/kg	280	U	490	U
SW8468270C	Phenol	ug/kg	280	U	490	U
SW8468270C	Pyrene	ug/kg	280	U	490	U
SW8468081	4,4'-DDD	ug/kg	7.5	UJ	13	UJ
SW8468081	4,4'-DDE	ug/kg	7.5	UJ	13	UJ
SW8468081	4,4'-DDT	ug/kg	7.5	UJ	13	UJ
SW8468081	Aldrin	ug/kg	7.5	UJ	13	UJ
SW8468081	Alpha-BHC	ug/kg	7.5	UJ	13	UJ
SW8468081	Beta-BHC	ug/kg	7.5	UJ	13	UJ
SW8468081	Chlordane (technical)	ug/kg	75	UJ	130	UJ
SW8468081	Delta-BHC	ug/kg	7.5	UJ	13	UJ
SW8468081	Dieldrin	ug/kg	7.5	UJ	13	UJ
SW8468081	Endosulfan I	ug/kg	7.5	UJ	13	UJ
SW8468081	Endosulfan II	ug/kg	7.5	UJ	13	UJ
SW8468081	Endosulfan sulfate	ug/kg	7.5	UJ	13	UJ
SW8468081	Endrin	ug/kg	7.5	UJ	13	UJ
SW8468081	Endrin aldehyde	ug/kg	7.5	UJ	13	UJ
SW8468081	Gamma-BHC/Lindane	ug/kg	7.5	UJ	13	UJ
SW8468081	Heptachlor	ug/kg	7.5	UJ	13	UJ
SW8468081	Heptachlor epoxide	ug/kg	7.5	UJ	13	UJ
SW8468081	Methoxychlor	ug/kg	7.5	UJ	13	UJ
SW8468081	Toxaphene	ug/kg	75	UJ	130	UJ
SW8468082	Aroclor-1016	ug/kg	110	U	200	U
SW8468082	Aroclor-1221	ug/kg	110	U	200	U
SW8468082	Aroclor-1232	ug/kg	110	U	200	U
SW8468082	Aroclor-1242	ug/kg	110	U	200	U
SW8468082	Aroclor-1248	ug/kg	110	U	200	U
SW8468082	Aroclor-1254	ug/kg	110	U	200	U
SW8468082	Aroclor-1260	ug/kg	110	U	200	U
SW8466010B	Aluminum	mg/kg	4,000		5,950	
SW8466010B	Antimony	mg/kg	2	U	1.9	U

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

Analysis	Param Name	Location Sample Date Sample ID Qc Code Units	SS-05 4/15/2010 828072SS-05 FS		SS-06 4/15/2010 828072SS-06 FS	
			Result	Qualifier	Result	Qualifier
SW8466010B	Arsenic	mg/kg	2	U	4	
SW8466010B	Barium	mg/kg	21.4		19	U
SW8466010B	Beryllium	mg/kg	0.41	U	0.38	U
SW8466010B	Cadmium	mg/kg	0.41	U	0.38	U
SW8466010B	Calcium	mg/kg	21,300		3,970	
SW8466010B	Chromium	mg/kg	5.9		7.2	
SW8466010B	Cobalt	mg/kg	5.1	U	4.8	U
SW8466010B	Copper	mg/kg	6.3		7.2	
SW8466010B	Iron	mg/kg	8,100		9,060	
SW8466010B	Lead	mg/kg	4.9		16.1	
SW8466010B	Magnesium	mg/kg	5,690		833	
SW8466010B	Manganese	mg/kg	216		118	
SW8466010B	Nickel	mg/kg	5.8		4.4	
SW8466010B	Potassium	mg/kg	606		480	U
SW8466010B	Selenium	mg/kg	2	U	1.9	U
SW8466010B	Silver	mg/kg	0.51	U	0.48	U
SW8466010B	Sodium	mg/kg	510	U	480	U
SW8466010B	Thallium	mg/kg	2	U	1.9	U
SW8466010B	Vanadium	mg/kg	11.6		16.7	
SW8466010B	Zinc	mg/kg	40.6		70.9	
SW8467471A	Mercury	mg/kg	0.036	U	0.087	
SM212540BMOD	Percent Solids	Percent	86.1		50	

Notes:

ug/kg = microgram per kilogram

mg/kg = milligram per kilogram

FS = field sample

U = not detected

J = estimated value

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

		Location	SS-07	
		Sample Date	4/15/2010	
		Sample ID	828072SS-07	
		Qc Code	FS	
Analysis	Param Name	Units	Result	Qualifier
SW8260	1,1,1-Trichloroethane	ug/kg	1.5	UJ
SW8260	1,1,2,2-Tetrachloroethane	ug/kg	1.5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg	3.7	U
SW8260	1,1,2-Trichloroethane	ug/kg	1.5	U
SW8260	1,1-Dichloroethane	ug/kg	1.5	U
SW8260	1,1-Dichloroethene	ug/kg	1.5	U
SW8260	1,2,4-Trichlorobenzene	ug/kg	3.7	UJ
SW8260	1,2-Dibromo-3-chloropropane	ug/kg	3.7	UJ
SW8260	1,2-Dibromoethane	ug/kg	1.5	U
SW8260	1,2-Dichlorobenzene	ug/kg	1.5	U
SW8260	1,2-Dichloroethane	ug/kg	1.5	U
SW8260	1,2-Dichloropropane	ug/kg	1.5	U
SW8260	1,3-Dichlorobenzene	ug/kg	1.5	U
SW8260	1,4-Dichlorobenzene	ug/kg	1.5	U
SW8260	2-Butanone	ug/kg	3.7	UJ
SW8260	2-Hexanone	ug/kg	3.7	UJ
SW8260	4-Methyl-2-pentanone	ug/kg	3.7	U
SW8260	Acetic acid, methyl ester	ug/kg	3.7	U
SW8260	Acetone	ug/kg	3.7	UJ
SW8260	Benzene	ug/kg	0.37	U
SW8260	Bromodichloromethane	ug/kg	1.5	UJ
SW8260	Bromoform	ug/kg	1.5	U
SW8260	Bromomethane	ug/kg	1.5	U
SW8260	Carbon disulfide	ug/kg	3.7	UJ
SW8260	Carbon tetrachloride	ug/kg	1.5	UJ
SW8260	Chlorobenzene	ug/kg	1.5	U
SW8260	Chlorodibromomethane	ug/kg	1.5	U
SW8260	Chloroethane	ug/kg	3.7	U
SW8260	Chloroform	ug/kg	1.5	U
SW8260	Chloromethane	ug/kg	3.7	U
SW8260	Cis-1,2-Dichloroethene	ug/kg	2.7	
SW8260	cis-1,3-Dichloropropene	ug/kg	1.5	UJ
SW8260	Cyclohexane	ug/kg	3.7	U
SW8260	Dichlorodifluoromethane	ug/kg	1.5	U
SW8260	Ethyl benzene	ug/kg	1.5	U
SW8260	Isopropylbenzene	ug/kg	3.7	U
SW8260	Methyl cyclohexane	ug/kg	3.7	U
SW8260	Methyl Tertbutyl Ether	ug/kg	1.5	UJ
SW8260	Methylene chloride	ug/kg	1.5	U
SW8260	Styrene	ug/kg	3.7	U
SW8260	Tetrachloroethene	ug/kg	1.5	U
SW8260	Toluene	ug/kg	3.7	U
SW8260	trans-1,2-Dichloroethene	ug/kg	1.5	U
SW8260	trans-1,3-Dichloropropene	ug/kg	1.5	UJ
SW8260	Trichloroethene	ug/kg	6.9	
SW8260	Trichlorofluoromethane	ug/kg	1.5	U
SW8260	Vinyl chloride	ug/kg	1.5	U

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

		Location	SS-07	
		Sample Date	4/15/2010	
		Sample ID	828072SS-07	
		Qc Code	FS	
Analysis	Param Name	Units	Result	Qualifier
SW8260	Xylenes, Total	ug/kg	1.5	U
SW8468270C	2,4,5-Trichlorophenol	ug/kg	660	U
SW8468270C	2,4,6-Trichlorophenol	ug/kg	660	U
SW8468270C	2,4-Dichlorophenol	ug/kg	660	U
SW8468270C	2,4-Dimethylphenol	ug/kg	660	U
SW8468270C	2,4-Dinitrophenol	ug/kg	1,300	UJ
SW8468270C	2,4-Dinitrotoluene	ug/kg	660	U
SW8468270C	2,6-Dinitrotoluene	ug/kg	660	U
SW8468270C	2-Chloronaphthalene	ug/kg	330	U
SW8468270C	2-Chlorophenol	ug/kg	330	U
SW8468270C	2-Methylnaphthalene	ug/kg	330	U
SW8468270C	2-Methylphenol	ug/kg	660	U
SW8468270C	2-Nitroaniline	ug/kg	660	U
SW8468270C	2-Nitrophenol	ug/kg	660	U
SW8468270C	3 & 4 Methylphenol	ug/kg	660	U
SW8468270C	3,3'-Dichlorobenzidine	ug/kg	330	U
SW8468270C	3-Nitroaniline	ug/kg	660	U
SW8468270C	4,6-Dinitro-2-methylphenol	ug/kg	660	UJ
SW8468270C	4-Bromophenyl phenyl ether	ug/kg	330	U
SW8468270C	4-Chloro-3-methylphenol	ug/kg	660	U
SW8468270C	4-Chloroaniline	ug/kg	660	U
SW8468270C	4-Chlorophenyl phenyl ether	ug/kg	330	U
SW8468270C	4-Nitroaniline	ug/kg	660	U
SW8468270C	4-Nitrophenol	ug/kg	1,300	U
SW8468270C	Acenaphthene	ug/kg	330	U
SW8468270C	Acenaphthylene	ug/kg	330	U
SW8468270C	Acetophenone	ug/kg	660	U
SW8468270C	Anthracene	ug/kg	330	U
SW8468270C	Atrazine	ug/kg	660	U
SW8468270C	Benzaldehyde	ug/kg	1,300	U
SW8468270C	Benzo(a)anthracene	ug/kg	330	U
SW8468270C	Benzo(a)pyrene	ug/kg	330	U
SW8468270C	Benzo(b)fluoranthene	ug/kg	330	U
SW8468270C	Benzo(ghi)perylene	ug/kg	330	U
SW8468270C	Benzo(k)fluoranthene	ug/kg	330	U
SW8468270C	Biphenyl	ug/kg	660	U
SW8468270C	Bis(2-Chloroethoxy)methane	ug/kg	330	U
SW8468270C	Bis(2-Chloroethyl)ether	ug/kg	330	U
SW8468270C	Bis(2-Chloroisopropyl)ether	ug/kg	330	U
SW8468270C	Bis(2-Ethylhexyl)phthalate	ug/kg	330	UJ
SW8468270C	Butylbenzylphthalate	ug/kg	330	UJ
SW8468270C	Caprolactum	ug/kg	660	U
SW8468270C	Carbazole	ug/kg	330	U
SW8468270C	Chrysene	ug/kg	330	U
SW8468270C	Di-n-butylphthalate	ug/kg	330	U
SW8468270C	Di-n-octylphthalate	ug/kg	330	UJ
SW8468270C	Dibenz(a,h)anthracene	ug/kg	330	U

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

		Location	SS-07	
		Sample Date	4/15/2010	
		Sample ID	828072SS-07	
		Qc Code	FS	
Analysis	Param Name	Units	Result	Qualifier
SW8468270C	Dibenzofuran	ug/kg	330	U
SW8468270C	Diethylphthalate	ug/kg	330	U
SW8468270C	Dimethylphthalate	ug/kg	330	U
SW8468270C	Fluoranthene	ug/kg	330	U
SW8468270C	Fluorene	ug/kg	330	U
SW8468270C	Hexachlorobenzene	ug/kg	330	U
SW8468270C	Hexachlorobutadiene	ug/kg	330	U
SW8468270C	Hexachlorocyclopentadiene	ug/kg	660	UJ
SW8468270C	Hexachloroethane	ug/kg	330	U
SW8468270C	Indeno(1,2,3-cd)pyrene	ug/kg	330	U
SW8468270C	Isophorone	ug/kg	330	U
SW8468270C	N-Nitrosodi-n-propylamine	ug/kg	330	U
SW8468270C	N-Nitrosodiphenylamine	ug/kg	330	U
SW8468270C	Naphthalene	ug/kg	330	U
SW8468270C	Nitrobenzene	ug/kg	330	U
SW8468270C	Pentachlorophenol	ug/kg	660	UJ
SW8468270C	Phenanthrene	ug/kg	330	U
SW8468270C	Phenol	ug/kg	330	U
SW8468270C	Pyrene	ug/kg	330	U
SW8468081	4,4'-DDD	ug/kg	8.6	UJ
SW8468081	4,4'-DDE	ug/kg	8.6	UJ
SW8468081	4,4'-DDT	ug/kg	8.6	UJ
SW8468081	Aldrin	ug/kg	8.6	UJ
SW8468081	Alpha-BHC	ug/kg	8.6	UJ
SW8468081	Beta-BHC	ug/kg	8.6	UJ
SW8468081	Chlordane (technical)	ug/kg	86	UJ
SW8468081	Delta-BHC	ug/kg	8.6	UJ
SW8468081	Dieldrin	ug/kg	8.6	UJ
SW8468081	Endosulfan I	ug/kg	8.6	UJ
SW8468081	Endosulfan II	ug/kg	8.6	UJ
SW8468081	Endosulfan sulfate	ug/kg	8.6	UJ
SW8468081	Endrin	ug/kg	8.6	UJ
SW8468081	Endrin aldehyde	ug/kg	8.6	UJ
SW8468081	Gamma-BHC/Lindane	ug/kg	8.6	UJ
SW8468081	Heptachlor	ug/kg	8.6	UJ
SW8468081	Heptachlor epoxide	ug/kg	8.6	UJ
SW8468081	Methoxychlor	ug/kg	8.6	UJ
SW8468081	Toxaphene	ug/kg	86	UJ
SW8468082	Aroclor-1016	ug/kg	130	U
SW8468082	Aroclor-1221	ug/kg	130	U
SW8468082	Aroclor-1232	ug/kg	130	U
SW8468082	Aroclor-1242	ug/kg	130	U
SW8468082	Aroclor-1248	ug/kg	130	U
SW8468082	Aroclor-1254	ug/kg	130	U
SW8468082	Aroclor-1260	ug/kg	130	U
SW8466010B	Aluminum	mg/kg	9,340	
SW8466010B	Antimony	mg/kg	2	U

DUSR TABLE 2
Results Summary
SDG M90665 and M90665R
Erdle Perforating

		Location	SS-07	
		Sample Date	4/15/2010	
		Sample ID	828072SS-07	
		Qc Code	FS	
Analysis	Param Name	Units	Result	Qualifier
SW8466010B	Arsenic	mg/kg	3.6	
SW8466010B	Barium	mg/kg	65.5	
SW8466010B	Beryllium	mg/kg	0.46	
SW8466010B	Cadmium	mg/kg	0.39	U
SW8466010B	Calcium	mg/kg	32,700	
SW8466010B	Chromium	mg/kg	12.6	
SW8466010B	Cobalt	mg/kg	6.2	
SW8466010B	Copper	mg/kg	11.1	
SW8466010B	Iron	mg/kg	16,300	
SW8466010B	Lead	mg/kg	8.9	
SW8466010B	Magnesium	mg/kg	8,440	
SW8466010B	Manganese	mg/kg	387	
SW8466010B	Nickel	mg/kg	15.7	
SW8466010B	Potassium	mg/kg	1440	
SW8466010B	Selenium	mg/kg	2	U
SW8466010B	Silver	mg/kg	0.49	U
SW8466010B	Sodium	mg/kg	490	U
SW8466010B	Thallium	mg/kg	2	U
SW8466010B	Vanadium	mg/kg	18.2	
SW8466010B	Zinc	mg/kg	95.6	
SW8467471A	Mercury	mg/kg	0.04	U
SM212540BMOD	Percent Solids	Percent	75.5	

Notes:

ug/kg = microgram per kilogram

mg/kg = milligram per kilogram

FS = field sample

U = not detected

J = estimated value

Table 3: Tentatively Identified Compounds

MACTEC Engineering and Consulting, P.C., 3612072094

Sample ID	CAS #	Chemical Name	Result	Qual	Units
828072SS-02	103-82-2	Benzeneacetic acid	340	JN	ug/kg
828072SS-02	1604-34-8	2-Undecanone, 6,10-dimethyl-	370	JN	ug/kg
828072SS-02	55320-06-4	Heneicosane, 11-decyl-	450	JN	ug/kg
828072SS-02	57-10-3	Hexadecanoic acid	390	JN	ug/kg
828072SS-02	593-45-3	Octadecane	470	JN	ug/kg
828072SS-02	629-96-9	1-Eicosanol	550	JN	ug/kg
828072SS-02	6624-79-9	1-Dotriacontanol	680	JN	ug/kg
828072SS-02	7390-81-0	Oxirane, hexadecyl-	450	JN	ug/kg
828072SS-03	103-82-2	Benzeneacetic acid	480	JN	ug/kg
828072SS-04	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2000	JN	ug/kg
828072SS-04	195-19-7	Benzo[c]phenanthrene	610	JN	ug/kg
828072SS-04	198-55-0	Perylene	1100	JN	ug/kg
828072SS-04	203-64-5	4H-Cyclopenta[def]phenanthrene	620	JN	ug/kg
828072SS-04	238-84-6	11H-Benzo[a]fluorene	1300	JN	ug/kg
828072SS-04	243-17-4	11H-Benzo[b]fluorene	960	JN	ug/kg
828072SS-04	3353-12-6	Pyrene, 4-methyl-	760	JN	ug/kg
828072SS-04	35465-71-5	2-Phenylnaphthalene	310	JN	ug/kg
828072SS-04	TIC8	5,6-Dimethyl-4-phenyl-3-cyanopyrid	800	JN	ug/kg
828072SS-05	103-82-2	Benzeneacetic acid	800	JN	ug/kg
828072SS-05	111-73-9	1-Butanol, 4-ethoxy-	750	JN	ug/kg
828072SS-05	5737-13-3	Cyclopenta(def)phenanthrenone	3600	JN	ug/kg
828072SS-05	59-02-9	Vitamin E	1100	JN	ug/kg
828072SS-05	593-08-8	2-Tridecanone	1100	JN	ug/kg
828072SS-05	6175-49-1	2-Dodecanone	1000	JN	ug/kg
828072SS-05	629-96-9	1-Eicosanol	1100	JN	ug/kg
828072SS-05	630-07-9	Pentatriacontane	770	JN	ug/kg
828072SS-05	638-66-4	Octadecanal	700	JN	ug/kg
828072SS-05	7019-01-4	4-Aminodiphenylsulphone	1300	JN	ug/kg
828072SS-05	83-47-6	.gamma.-Sitosterol	940	JN	ug/kg
828072SS-05	TIC10	Isoquinoline, 6,7,8-trimethoxy-	1700	JN	ug/kg
828072SS-06	1454-84-8	1-Nonadecanol	1400	JN	ug/kg
828072SS-06	1599-67-3	1-Docosene	1700	JN	ug/kg
828072SS-06	1953-54-4	1H-Indol-5-ol	1000	JN	ug/kg
828072SS-06	3386-33-2	Octadecane, 1-chloro-	1200	JN	ug/kg
828072SS-06	54644-27-8	1,2,4-Cyclopentanetrione, 3-(2-pen	1100	JN	ug/kg
828072SS-06	54832-82-5	Tricyclo[4.3.0.07,9]nonane, 2,2,5,	1800	JN	ug/kg
828072SS-06	54889-60-0	Hexanoic acid, 2-ethyl-2-propyl-,	1300	JN	ug/kg
828072SS-06	59-02-9	Vitamin E	1300	JN	ug/kg
828072SS-06	630-07-9	Pentatriacontane	1100	JN	ug/kg
828072SS-06	638-66-4	Octadecanal	1600	JN	ug/kg
828072SS-06	77899-10-6	(Z)14-Tricosenyl formate	1700	JN	ug/kg
828072SS-06	77899-10-6	(Z)14-Tricosenyl formate	1200	JN	ug/kg
828072SS-06	83-47-6	.gamma.-Sitosterol	1500	JN	ug/kg
828072SS-06	83-48-7	Stigmasterol	2500	JN	ug/kg
828072SS-07	112-95-8	Eicosane	270	JN	ug/kg
828072SS-07	1454-85-9	1-Heptadecanol	340	JN	ug/kg
828072SS-07	18435-45-5	1-Nonadecene	310	JN	ug/kg
828072SS-07	630-07-9	Pentatriacontane	330	JN	ug/kg
828072SS-07	7225-64-1	Heptadecane, 9-octyl-	280	JN	ug/kg
828072SS-07	TIC5	1-Hexacosanal	300	JN	ug/kg

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Report of Analysis

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Client Sample ID:	828072SS-01	Date Sampled:	04/15/10
Lab Sample ID:	M90665-1	Date Received:	04/16/10
Matrix:	SO - Soil	Percent Solids:	83.3
Method:	SW846 8270C SW846 3545		
Project:	ERDL-NYSDEC Gates NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14639.D	1	04/26/10	AA	04/21/10	OP21143	MSS527
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	290	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	590	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	590	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	590	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND J	1200	290	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND J	590	290	ug/kg	
95-48-7	2-Methylphenol	ND	590	17	ug/kg	
	3&4-Methylphenol	ND	590	31	ug/kg	
88-75-5	2-Nitrophenol	ND	590	35	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	290	ug/kg	
87-86-5	Pentachlorophenol	ND J	590	55	ug/kg	
108-95-2	Phenol	ND	290	49	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	590	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	590	41	ug/kg	
83-32-9	Acenaphthene	ND	290	25	ug/kg	
208-96-8	Acenaphthylene	ND	290	22	ug/kg	
98-86-2	Acetophenone	ND	590	26	ug/kg	
120-12-7	Anthracene	ND	290	23	ug/kg	
1912-24-9	Atrazine	ND	590	590	ug/kg	
100-52-7	Benzaldehyde	ND	1200	1200	ug/kg	
56-55-3	Benzo(a)anthracene	ND	290	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	290	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	290	34	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	290	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	290	8.7	ug/kg	
92-52-4	1,1'-Biphenyl	ND	590	590	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	290	24	ug/kg	
85-68-7	Butyl benzyl phthalate	ND J	290	13	ug/kg	
105-60-2	Caprolactam	ND	590	590	ug/kg	
91-58-7	2-Chloronaphthalene	ND	290	25	ug/kg	
106-47-8	4-Chloroaniline	ND	590	150	ug/kg	
86-74-8	Carbazole	ND	290	23	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	828072SS-01	Date Sampled:	04/15/10
Lab Sample ID:	M90665-1	Date Received:	04/16/10
Matrix:	SO - Soil	Percent Solids:	83.3
Method:	SW846 8270C SW846 3545		
Project:	ERDLE-NYSDEC Gates NY		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	290	9.6	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	290	23	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	290	6.3	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	290	28	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	290	26	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	590	150	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	590	28	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	290	7.1	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	290	19	ug/kg	
132-64-9	Dibenzofuran	ND	290	25	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	290	27	ug/kg	
117-84-0	Di-n-octyl phthalate	ND J	290	16	ug/kg	
84-66-2	Diethyl phthalate	ND	290	26	ug/kg	
131-11-3	Dimethyl phthalate	ND	290	21	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND J	290	20	ug/kg	
206-44-0	Fluoranthene	ND	290	10	ug/kg	
86-73-7	Fluorene	ND	290	6.5	ug/kg	
118-74-1	Hexachlorobenzene	ND	290	25	ug/kg	
87-68-3	Hexachlorobutadiene	ND	290	23	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND J	590	4.0	ug/kg	
67-72-1	Hexachloroethane	ND	290	24	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	290	18	ug/kg	
78-59-1	Isophorone	ND	290	29	ug/kg	
91-57-6	2-Methylnaphthalene	ND	290	25	ug/kg	
88-74-4	2-Nitroaniline	ND	590	150	ug/kg	
99-09-2	3-Nitroaniline	ND	590	150	ug/kg	
100-01-6	4-Nitroaniline	ND	590	22	ug/kg	
91-20-3	Naphthalene	ND	290	6.8	ug/kg	
98-95-3	Nitrobenzene	ND	290	8.7	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	290	19	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	290	16	ug/kg	
85-01-8	Phenanthrene	ND	290	7.6	ug/kg	
129-00-0	Pyrene	ND	290	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	90%		30-130%
4165-62-2	Phenol-d5	84%		30-130%
118-79-6	2,4,6-Tribromophenol	95%		30-130%
4165-60-0	Nitrobenzene-d5	78%		30-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	828072SS-01	Date Sampled:	04/15/10
Lab Sample ID:	M90665-1	Date Received:	04/16/10
Matrix:	SO - Soil	Percent Solids:	83.3
Method:	SW846 8270C SW846 3545		
Project:	ERDLE-NYSDEC Gates NY		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	84%		30-130%
1718-51-0	Terphenyl-d14	100%		30-130%
CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units Q
	Total TIC, Semi-Volatile		0	ug/kg

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

3.1
3

Client Sample ID: 828072SS-01	Date Sampled: 04/15/10
Lab Sample ID: M90665-1	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 83.3
Method: SW846 8082 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ56660.D	1	04/21/10	CZ	04/20/10	OP21131	GYZ2417
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	120	29	ug/kg	
11104-28-2	Aroclor 1221	ND	120	7.6	ug/kg	
11141-16-5	Aroclor 1232	ND	120	16	ug/kg	
53469-21-9	Aroclor 1242	ND	120	10	ug/kg	
12672-29-6	Aroclor 1248	ND	120	31	ug/kg	
11097-69-1	Aroclor 1254	29.4	120	13	ug/kg	J
11096-82-5	Aroclor 1260	ND	120	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		30-150%
877-09-8	Tetrachloro-m-xylene	97%		30-150%
2051-24-3	Decachlorobiphenyl	103%		30-150%
2051-24-3	Decachlorobiphenyl	105%		30-150%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Michael Williams 5/24/10

Report of Analysis

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3

Client Sample ID: 828072SS-01	Date Sampled: 04/15/10
Lab Sample ID: M90665-1	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 83.3
Project: ERDLE-NYSDEC Gates NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6310	19	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Antimony	<1.9 ⁵	1.9 ^J	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Arsenic	2.4	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Barium	41.4	19	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Beryllium	<0.38	0.38	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cadmium	<0.38	0.38	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Calcium	2030 ⁵	470	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Chromium	11.1	0.95	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cobalt	<4.7	4.7	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Copper	8.3	2.4	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Iron	16100	9.5	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Lead	3.1	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Magnesium	1890	470	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Manganese	338	1.4	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Mercury	<0.036	0.036	mg/kg	1	04/21/10	04/21/10 MA	SW846 7471A ¹	SW846 7471A ⁴
Nickel	9.8	3.8	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Potassium	597	470	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Selenium	<1.9	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Silver	<0.47	0.47	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Sodium	<470	470	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Thallium	<1.9	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Vanadium	22.7	2.8	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Zinc	21.3	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³

- (1) Instrument QC Batch: MA11669
- (2) Instrument QC Batch: MA11674
- (3) Prep QC Batch: MP15103
- (4) Prep QC Batch: MP15105

RL = Reporting Limit

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Report of Analysis

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Client Sample ID: 828072SS-02	Date Sampled: 04/15/10
Lab Sample ID: M90665-2	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 65.7
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14640.D	1	04/26/10	AA	04/21/10	OP21143	MSS527
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	370	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	740	26	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	740	44	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	740	74	ug/kg	
51-28-5	2,4-Dinitrophenol	ND J	1500	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND S	740	370	ug/kg	
95-48-7	2-Methylphenol	ND	740	21	ug/kg	
	3&4-Methylphenol	ND	740	39	ug/kg	
88-75-5	2-Nitrophenol	ND	740	45	ug/kg	
100-02-7	4-Nitrophenol	ND	1500	370	ug/kg	
87-86-5	Pentachlorophenol	ND J	740	69	ug/kg	
108-95-2	Phenol	ND	370	62	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	740	55	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	740	51	ug/kg	
83-32-9	Acenaphthene	ND	370	31	ug/kg	
208-96-8	Acenaphthylene	ND	370	28	ug/kg	
98-86-2	Acetophenone	ND	740	33	ug/kg	
120-12-7	Anthracene	ND	370	29	ug/kg	
1912-24-9	Atrazine	ND	740	740	ug/kg	
100-52-7	Benzaldehyde	ND	1500	1500	ug/kg	
56-55-3	Benzo(a)anthracene	ND	370	14	ug/kg	
50-32-8	Benzo(a)pyrene	ND	370	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	370	44	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	370	24	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	370	11	ug/kg	
92-52-4	1,1'-Biphenyl	ND	740	740	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	370	30	ug/kg	
85-68-7	Butyl benzyl phthalate	ND J	370	16	ug/kg	
105-60-2	Caprolactam	ND	740	740	ug/kg	
91-58-7	2-Chloronaphthalene	ND	370	31	ug/kg	
106-47-8	4-Chloroaniline	ND	740	190	ug/kg	
86-74-8	Carbazole	ND	370	29	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

3.2
3

Client Sample ID: 828072SS-02	Date Sampled: 04/15/10
Lab Sample ID: M90665-2	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 65.7
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	370	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	370	29	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	370	8.0	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	370	35	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	370	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	740	190	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	740	36	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	370	8.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	370	24	ug/kg	
132-64-9	Dibenzofuran	ND	370	32	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	34	ug/kg	
117-84-0	Di-n-octyl phthalate	ND J	370	20	ug/kg	
84-66-2	Diethyl phthalate	ND	370	32	ug/kg	
131-11-3	Dimethyl phthalate	ND	370	26	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND J	370	26	ug/kg	
206-44-0	Fluoranthene	ND	370	13	ug/kg	
86-73-7	Fluorene	ND	370	8.2	ug/kg	
118-74-1	Hexachlorobenzene	ND	370	32	ug/kg	
87-68-3	Hexachlorobutadiene	ND	370	29	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND S	740	5.0	ug/kg	
67-72-1	Hexachloroethane	ND	370	30	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	370	23	ug/kg	
78-59-1	Isophorone	ND	370	37	ug/kg	
91-57-6	2-Methylnaphthalene	ND	370	31	ug/kg	
88-74-4	2-Nitroaniline	ND	740	190	ug/kg	
99-09-2	3-Nitroaniline	ND	740	190	ug/kg	
100-01-6	4-Nitroaniline	ND	740	28	ug/kg	
91-20-3	Naphthalene	ND	370	8.6	ug/kg	
98-95-3	Nitrobenzene	ND	370	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	370	24	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	370	20	ug/kg	
85-01-8	Phenanthrene	ND	370	9.6	ug/kg	
129-00-0	Pyrene	ND	370	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		30-130%
4165-62-2	Phenol-d5	73%		30-130%
118-79-6	2,4,6-Tribromophenol	75%		30-130%
4165-60-0	Nitrobenzene-d5	66%		30-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID: 828072SS-02	Date Sampled: 04/15/10
Lab Sample ID: M90665-2	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 65.7
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	79%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
103-82-2	Benzeneacetic acid	7.32	340	ug/kg	JN
57-10-3	Hexadecanoic acid	12.25	390	ug/kg	JN
10544-50-0	Sulfur, mol. (S8)	13.27	350	ug/kg	JN
629-96-9	1-Eicosanol	16.57	550	ug/kg	JN
7390-81-0	Oxirane, hexadecyl-	17.23	450	ug/kg	JN
593-45-3	Octadecane	17.49	470	ug/kg	JN
6624-79-9	1-Dotriacontanol	17.61	680	ug/kg	JN
55320-06-4	Heneicosane, 11-decyl-	18.40	450	ug/kg	JN
1604-34-8	2-Undecanone, 6,10-dimethyl-	18.53	370	ug/kg	JN
	Total TIC, Semi-Volatile		4050	ug/kg	J

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID:	828072SS-02	Date Sampled:	04/15/10
Lab Sample ID:	M90665-2	Date Received:	04/16/10
Matrix:	SO - Soil	Percent Solids:	65.7
Method:	SW846 8082 SW846 3545		
Project:	ERDLE-NYSDEC Gates NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ56661.D	1	04/21/10	CZ	04/20/10	OP21131	GYZ2417
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	150	38	ug/kg	
11104-28-2	Aroclor 1221	ND	150	9.8	ug/kg	
11141-16-5	Aroclor 1232	ND	150	21	ug/kg	
53469-21-9	Aroclor 1242	ND	150	13	ug/kg	
12672-29-6	Aroclor 1248	ND	150	40	ug/kg	
11097-69-1	Aroclor 1254	ND	150	17	ug/kg	
11096-82-5	Aroclor 1260	ND	150	29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		30-150%
877-09-8	Tetrachloro-m-xylene	103%		30-150%
2051-24-3	Decachlorobiphenyl	121%		30-150%
2051-24-3	Decachlorobiphenyl	123%		30-150%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID: 828072SS-02	Date Sampled: 04/15/10
Lab Sample ID: M90665-2	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 65.7
Project: ERDLE-NYSDEC Gates NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	17400	22	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Antimony	<2.2 J	2.2	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Arsenic	4.6	2.2	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Barium	101	22	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Beryllium	0.84	0.44	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cadmium	<0.44	0.44	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Calcium	5330 J	550	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Chromium	17.7	1.1	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cobalt	5.6	5.5	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Copper	9.7	2.8	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Iron	19700	11	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Lead	13.7	2.2	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Magnesium	2850	550	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Manganese	221	1.7	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Mercury	0.098	0.032	mg/kg	1	04/21/10	04/21/10 MA	SW846 7471A ¹	SW846 7471A ⁴
Nickel	14.0	4.4	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Potassium	1430	550	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Selenium	<2.2	2.2	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Silver	<0.55	0.55	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Sodium	<550	550	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Thallium	<2.2	2.2	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Vanadium	29.9	3.3	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Zinc	91.3	2.2	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³

- (1) Instrument QC Batch: MA11669
- (2) Instrument QC Batch: MA11674
- (3) Prep QC Batch: MP15103
- (4) Prep QC Batch: MP15105

RL = Reporting Limit

M. J. Clark 5/24/10

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Report of Analysis

Page 1 of 3

Client Sample ID:	828072SS-03	Date Sampled:	04/15/10
Lab Sample ID:	M90665-3	Date Received:	04/16/10
Matrix:	SO - Soil	Percent Solids:	81.8
Method:	SW846 8270C SW846 3545		
Project:	ERDLE-NYSDEC Gates NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14641.D	1	04/26/10	AA	04/21/10	OP21143	MSS527
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	300	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	600	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	600	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	600	60	ug/kg	
51-28-5	2,4-Dinitrophenol	ND J	1200	300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND J	600	300	ug/kg	
95-48-7	2-Methylphenol	ND	600	17	ug/kg	
	3&4-Methylphenol	ND	600	32	ug/kg	
88-75-5	2-Nitrophenol	ND	600	36	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	300	ug/kg	
87-86-5	Pentachlorophenol	ND J	600	56	ug/kg	
108-95-2	Phenol	ND	300	50	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	600	45	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	600	41	ug/kg	
83-32-9	Acenaphthene	ND	300	25	ug/kg	
208-96-8	Acenaphthylene	ND	300	23	ug/kg	
98-86-2	Acetophenone	ND	600	27	ug/kg	
120-12-7	Anthracene	ND	300	24	ug/kg	
1912-24-9	Atrazine	ND	600	600	ug/kg	
100-52-7	Benzaldehyde	ND	1200	1200	ug/kg	
56-55-3	Benzo(a)anthracene	ND	300	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	300	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	300	35	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	300	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	300	8.9	ug/kg	
92-52-4	1,1'-Biphenyl	ND	600	600	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	300	24	ug/kg	
85-68-7	Butyl benzyl phthalate	ND J	300	13	ug/kg	
105-60-2	Caprolactam	ND	600	600	ug/kg	
91-58-7	2-Chloronaphthalene	ND	300	25	ug/kg	
106-47-8	4-Chloroaniline	ND	600	150	ug/kg	
86-74-8	Carbazole	ND	300	24	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	828072SS-03	Date Sampled:	04/15/10
Lab Sample ID:	M90665-3	Date Received:	04/16/10
Matrix:	SO - Soil	Percent Solids:	81.8
Method:	SW846 8270C SW846 3545		
Project:	ERDLE-NYSDEC Gates NY		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	300	9.8	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	300	23	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	300	6.4	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	300	29	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	300	27	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	600	150	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	600	29	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	300	7.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	300	19	ug/kg	
132-64-9	Dibenzofuran	ND	300	26	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	300	27	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	300	16	ug/kg	
84-66-2	Diethyl phthalate	ND	300	26	ug/kg	
131-11-3	Dimethyl phthalate	ND	300	21	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	300	21	ug/kg	
206-44-0	Fluoranthene	76.2	300	10	ug/kg	J
86-73-7	Fluorene	ND	300	6.6	ug/kg	
118-74-1	Hexachlorobenzene	ND	300	26	ug/kg	
87-68-3	Hexachlorobutadiene	ND	300	24	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	600	4.0	ug/kg	
67-72-1	Hexachloroethane	ND	300	24	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300	18	ug/kg	
78-59-1	Isophorone	ND	300	30	ug/kg	
91-57-6	2-Methylnaphthalene	ND	300	25	ug/kg	
88-74-4	2-Nitroaniline	ND	600	150	ug/kg	
99-09-2	3-Nitroaniline	ND	600	150	ug/kg	
100-01-6	4-Nitroaniline	ND	600	22	ug/kg	
91-20-3	Naphthalene	ND	300	7.0	ug/kg	
98-95-3	Nitrobenzene	ND	300	8.9	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	300	19	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	300	16	ug/kg	
85-01-8	Phenanthrene	73.6	300	7.7	ug/kg	J
129-00-0	Pyrene	52.4	300	9.7	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	76%		30-130%
4165-62-2	Phenol-d5	72%		30-130%
118-79-6	2,4,6-Tribromophenol	79%		30-130%
4165-60-0	Nitrobenzene-d5	69%		30-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID:	828072SS-03	Date Sampled:	04/15/10
Lab Sample ID:	M90665-3	Date Received:	04/16/10
Matrix:	SO - Soil	Percent Solids:	81.8
Method:	SW846 8270C SW846 3545		
Project:	ERDLE-NYSDEC Gates NY		

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	81%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
103-82-2	Benzeneacetic acid	7.32	480	ug/kg	JN
	Total TIC, Semi-Volatile		480	ug/kg	J

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: 828072SS-03	Date Sampled: 04/15/10
Lab Sample ID: M90665-3	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 81.8
Method: SW846 8082 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ56662.D	1	04/21/10	CZ	04/20/10	OP21131	GYZ2417
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	120	30	ug/kg	
11104-28-2	Aroclor 1221	ND	120	7.8	ug/kg	
11141-16-5	Aroclor 1232	ND	120	17	ug/kg	
53469-21-9	Aroclor 1242	ND	120	10	ug/kg	
12672-29-6	Aroclor 1248	ND	120	32	ug/kg	
11097-69-1	Aroclor 1254	25.1	120	14	ug/kg	J
11096-82-5	Aroclor 1260	ND	120	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		30-150%
877-09-8	Tetrachloro-m-xylene	99%		30-150%
2051-24-3	Decachlorobiphenyl	111%		30-150%
2051-24-3	Decachlorobiphenyl	113%		30-150%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID: 828072SS-03	Date Sampled: 04/15/10
Lab Sample ID: M90665-3	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 81.8
Project: ERDLE-NYSDEC Gates NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9140	20	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Antimony	<2.0 J	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Arsenic	2.8	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Barium	52.7	20	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Beryllium	0.60	0.40	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cadmium	<0.40	0.40	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Calcium	5070 J	510	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Chromium	13.7	1.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cobalt	5.1	5.1	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Copper	11.0	2.5	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Iron	19100	10	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Lead	6.9	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Magnesium	3350	510	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Manganese	139	1.5	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Mercury	0.046	0.039	mg/kg	1	04/21/10	04/21/10 MA	SW846 7471A ¹	SW846 7471A ⁴
Nickel	15.3	4.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Potassium	760	510	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Selenium	<2.0	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Silver	<0.51	0.51	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Sodium	<510	510	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Thallium	<2.0	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Vanadium	28.7	3.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Zinc	328	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³

- (1) Instrument QC Batch: MA11669
- (2) Instrument QC Batch: MA11674
- (3) Prep QC Batch: MP15103
- (4) Prep QC Batch: MP15105

RL = Reporting Limit

Richard Cole 5/24/10

Accutest Laboratories

Report of Analysis

3.4
3

Client Sample ID: 828072SS-04	Date Sampled: 04/15/10
Lab Sample ID: M90665-4	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14642.D	1	04/26/10	AA	04/21/10	OP21143	MSS527
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	310	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	620	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	620	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	620	62	ug/kg	
51-28-5	2,4-Dinitrophenol	ND J	1200	310	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND J	620	310	ug/kg	
95-48-7	2-Methylphenol	ND	620	18	ug/kg	
	3&4-Methylphenol	ND	620	33	ug/kg	
88-75-5	2-Nitrophenol	ND	620	37	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	310	ug/kg	
87-86-5	Pentachlorophenol	ND J	620	57	ug/kg	
108-95-2	Phenol	ND	310	51	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	620	46	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	620	43	ug/kg	
83-32-9	Acenaphthene	219	310	26	ug/kg	J
208-96-8	Acenaphthylene	ND	310	23	ug/kg	
98-86-2	Acetophenone	ND	620	28	ug/kg	
120-12-7	Anthracene	2890	310	24	ug/kg	
1912-24-9	Atrazine	ND	620	620	ug/kg	
100-52-7	Benzaldehyde	ND	1200	1200	ug/kg	
56-55-3	Benzo(a)anthracene	4920	310	11	ug/kg	
50-32-8	Benzo(a)pyrene	3090	310	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	3490	310	36	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1820	310	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	2940	310	9.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	620	620	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	310	25	ug/kg	
85-68-7	Butyl benzyl phthalate	ND J	310	13	ug/kg	
105-60-2	Caprolactam	ND	620	620	ug/kg	
91-58-7	2-Chloronaphthalene	ND	310	26	ug/kg	
106-47-8	4-Chloroaniline	ND	620	150	ug/kg	
86-74-8	Carbazole	681	310	24	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Robert White 5/24/10

Report of Analysis

34
3

Client Sample ID: 828072SS-04	Date Sampled: 04/15/10
Lab Sample ID: M90665-4	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	4360	310	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	310	24	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	310	6.6	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	310	29	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	310	28	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	620	150	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	620	30	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	310	7.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	649	310	20	ug/kg	
132-64-9	Dibenzofuran	97.6	310	26	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	310	28	ug/kg	
117-84-0	Di-n-octyl phthalate	ND J	310	16	ug/kg	
84-66-2	Diethyl phthalate	ND	310	27	ug/kg	
131-11-3	Dimethyl phthalate	ND	310	22	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND J	310	21	ug/kg	
206-44-0	Fluoranthene	12300	310	10	ug/kg	
86-73-7	Fluorene	456	310	6.8	ug/kg	
118-74-1	Hexachlorobenzene	ND	310	27	ug/kg	
87-68-3	Hexachlorobutadiene	ND	310	24	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND J	620	4.2	ug/kg	
67-72-1	Hexachloroethane	ND	310	25	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1820	310	19	ug/kg	
78-59-1	Isophorone	ND	310	31	ug/kg	
91-57-6	2-Methylnaphthalene	ND	310	26	ug/kg	
88-74-4	2-Nitroaniline	ND	620	150	ug/kg	
99-09-2	3-Nitroaniline	ND	620	150	ug/kg	
100-01-6	4-Nitroaniline	ND	620	23	ug/kg	
91-20-3	Naphthalene	ND	310	7.2	ug/kg	
98-95-3	Nitrobenzene	ND	310	9.1	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	310	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	310	16	ug/kg	
85-01-8	Phenanthrene	8730	310	8.0	ug/kg	
129-00-0	Pyrene	8590	310	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	78%		30-130%
4165-62-2	Phenol-d5	75%		30-130%
118-79-6	2,4,6-Tribromophenol	73%		30-130%
4165-60-0	Nitrobenzene-d5	69%		30-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Robert A. Chiles 5/24/10

Report of Analysis

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3

Client Sample ID: 828072SS-04	Date Sampled: 04/15/10
Lab Sample ID: M90665-4	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	79%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.02	2000	ug/kg	JN
203-64-5	4H-Cyclopenta[def]phenanthrene	12.35	620	ug/kg	JN
35465-71-5	2-Phenylnaphthalene	12.65	310	ug/kg	JN
238-84-6	11H-Benzo[a]fluorene	14.26	1300	ug/kg	JN
243-17-4	11H-Benzo[b]fluorene	14.36	960	ug/kg	JN
3353-12-6	Pyrene, 4-methyl-	14.42	760	ug/kg	JN
195-19-7	Benzo[c]phenanthrene	15.34	610	ug/kg	JN
	5,6-Dimethyl-4-phenyl-3-cyanopyrid	16.61	800	ug/kg	J
198-55-0	Perylene	17.78	1100	ug/kg	JN
	Total TIC, Semi-Volatile		8460	ug/kg	J

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID: 828072SS-04	Date Sampled: 04/15/10
Lab Sample ID: M90665-4	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8082 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ56663.D	1	04/21/10	CZ	04/20/10	OP21131	GYZ2417
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	120	30	ug/kg	
11104-28-2	Aroclor 1221	ND	120	7.8	ug/kg	
11141-16-5	Aroclor 1232	ND	120	17	ug/kg	
53469-21-9	Aroclor 1242	ND	120	10	ug/kg	
12672-29-6	Aroclor 1248	ND	120	32	ug/kg	
11097-69-1	Aroclor 1254	16.0	120	14	ug/kg	J
11096-82-5	Aroclor 1260	ND	120	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		30-150%
877-09-8	Tetrachloro-m-xylene	108%		30-150%
2051-24-3	Decachlorobiphenyl	126%		30-150%
2051-24-3	Decachlorobiphenyl	103%		30-150%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID: 828072SS-04	Date Sampled: 04/15/10
Lab Sample ID: M90665-4	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 79.3
Project: ERDLE-NYSDEC Gates NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	3940	20	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Antimony	<2.0 J	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Arsenic	2.7	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Barium	20.9	20	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Beryllium	<0.40	0.40	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cadmium	<0.40	0.40	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Calcium	61900 J	990	mg/kg	2	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Chromium	6.9	0.99	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cobalt	<5.0	5.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Copper	8.6	2.5	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Iron	9110	9.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Lead	10.4	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Magnesium	18100	500	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Manganese	224	1.5	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Mercury	<0.037	0.037	mg/kg	1	04/21/10	04/21/10 MA	SW846 7471A ¹	SW846 7471A ⁴
Nickel	8.0	4.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Potassium	912	500	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Selenium	<2.0	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Silver	<0.50	0.50	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Sodium	<500	500	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Thallium	<2.0	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Vanadium	9.0	3.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Zinc	31.9	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³

- (1) Instrument QC Batch: MA11669
- (2) Instrument QC Batch: MA11674
- (3) Prep QC Batch: MP15103
- (4) Prep QC Batch: MP15105

RL = Reporting Limit

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Accutest Laboratories

Report of Analysis

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Client Sample ID: 828072SS-05	Date Sampled: 04/15/10
Lab Sample ID: M90665-5	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 86.1
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14643.D	1	04/26/10	AA	04/21/10	OP21143	MSS527
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	15	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	570	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	570	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	570	57	ug/kg	
51-28-5	2,4-Dinitrophenol	ND J	1100	280	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND J	570	280	ug/kg	
95-48-7	2-Methylphenol	ND	570	16	ug/kg	
	3&4-Methylphenol	ND	570	30	ug/kg	
88-75-5	2-Nitrophenol	ND	570	34	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	280	ug/kg	
87-86-5	Pentachlorophenol	ND J	570	53	ug/kg	
108-95-2	Phenol	ND	280	47	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	570	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	570	39	ug/kg	
83-32-9	Acenaphthene	ND	280	24	ug/kg	
208-96-8	Acenaphthylene	ND	280	21	ug/kg	
98-86-2	Acetophenone	ND	570	26	ug/kg	
120-12-7	Anthracene	ND	280	22	ug/kg	
1912-24-9	Atrazine	ND	570	570	ug/kg	
100-52-7	Benzaldehyde	ND	1100	1100	ug/kg	
56-55-3	Benzo(a)anthracene	ND	280	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	280	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	280	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	280	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	280	8.4	ug/kg	
92-52-4	1,1'-Biphenyl	ND	570	570	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	23	ug/kg	
85-68-7	Butyl benzyl phthalate	ND J	280	12	ug/kg	
105-60-2	Caprolactam	ND	570	570	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	24	ug/kg	
106-47-8	4-Chloroaniline	ND	570	140	ug/kg	
86-74-8	Carbazole	ND	280	22	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Client Sample ID:	828072SS-05	Date Sampled:	04/15/10
Lab Sample ID:	M90665-5	Date Received:	04/16/10
Matrix:	SO - Soil	Percent Solids:	86.1
Method:	SW846 8270C SW846 3545		
Project:	ERDLE-NYSDEC Gates NY		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	280	9.3	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	280	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	6.1	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	27	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	26	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	570	140	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	570	27	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	6.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	280	18	ug/kg	
132-64-9	Dibenzofuran	ND	280	24	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	26	ug/kg	
117-84-0	Di-n-octyl phthalate	ND J	280	15	ug/kg	
84-66-2	Diethyl phthalate	ND	280	25	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	20	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND J	280	20	ug/kg	
206-44-0	Fluoranthene	ND	280	9.7	ug/kg	
86-73-7	Fluorene	ND	280	6.3	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	25	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	22	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND J	570	3.8	ug/kg	
67-72-1	Hexachloroethane	ND	280	23	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	280	17	ug/kg	
78-59-1	Isophorone	ND	280	28	ug/kg	
91-57-6	2-Methylnaphthalene	ND	280	24	ug/kg	
88-74-4	2-Nitroaniline	ND	570	140	ug/kg	
99-09-2	3-Nitroaniline	ND	570	140	ug/kg	
100-01-6	4-Nitroaniline	ND	570	21	ug/kg	
91-20-3	Naphthalene	ND	280	6.6	ug/kg	
98-95-3	Nitrobenzene	ND	280	8.4	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	15	ug/kg	
85-01-8	Phenanthrene	ND	280	7.3	ug/kg	
129-00-0	Pyrene	ND	280	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	83%		30-130%
4165-62-2	Phenol-d5	77%		30-130%
118-79-6	2,4,6-Tribromophenol	88%		30-130%
4165-60-0	Nitrobenzene-d5	70%		30-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: 828072SS-05	Date Sampled: 04/15/10
Lab Sample ID: M90665-5	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 86.1
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	79%		30-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
103-82-2	Benzeneacetic acid	7.33	800	ug/kg	JN
10544-50-0	Sulfur, mol (S8)	13.28	720	ug/kg	JN
5737-13-3	Cyclopenta(def)phenanthrene	17.22	3600	ug/kg	JN
629-96-9	1-Eicosanol	17.56	1100	ug/kg	JN
638-66-4	Octadecanal	18.18	700	ug/kg	JN
630-07-9	Pentatriacontane	18.40	770	ug/kg	JN
6175-49-1	2-Dodecanone	18.53	1000	ug/kg	JN
59-02-9	Vitamin E	18.76	1100	ug/kg	JN
111-73-9	1-Butanol, 4-ethoxy-	19.02	750	ug/kg	JN
	Isoquinoline, 6,7,8-trimethoxy-	19.13	1700	ug/kg	J
593-08-8	2-Tridecanone	19.53	1100	ug/kg	JN
83-47-6	.gamma.-Sitosterol	19.96	940	ug/kg	JN
7019-01-4	4-Aminodiphenylsulphone	20.05	1300	ug/kg	JN
	Total TIC, Semi-Volatile		15580	ug/kg	J

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Handwritten signature and date: 5/24/10

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Report of Analysis

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3

Client Sample ID: 828072SS-05	Date Sampled: 04/15/10
Lab Sample ID: M90665-5	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 86.1
Method: SW846 8082 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ56664.D	1	04/21/10	CZ	04/20/10	OP21131	GYZ2417
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	110	29	ug/kg	
11104-28-2	Aroclor 1221	ND	110	7.4	ug/kg	
11141-16-5	Aroclor 1232	ND	110	16	ug/kg	
53469-21-9	Aroclor 1242	ND	110	9.7	ug/kg	
12672-29-6	Aroclor 1248	ND	110	30	ug/kg	
11097-69-1	Aroclor 1254	ND	110	13	ug/kg	
11096-82-5	Aroclor 1260	ND	110	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		30-150%
877-09-8	Tetrachloro-m-xylene	70%		30-150%
2051-24-3	Decachlorobiphenyl	84%		30-150%
2051-24-3	Decachlorobiphenyl	86%		30-150%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID: 828072SS-05	Date Sampled: 04/15/10
Lab Sample ID: M90665-5	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 86.1
Project: ERDLE-NYSDEC Gates NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4000	20	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Antimony	<2.0	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Arsenic	<2.0	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Barium	21.4	20	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Beryllium	<0.41	0.41	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cadmium	<0.41	0.41	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Calcium	21300	510	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Chromium	5.9	1.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cobalt	<5.1	5.1	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Copper	6.3	2.5	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Iron	8100	10	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Lead	4.9	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Magnesium	5690	510	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Manganese	216	1.5	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Mercury	<0.036	0.036	mg/kg	1	04/21/10	04/21/10 MA	SW846 7471A ¹	SW846 7471A ⁴
Nickel	5.8	4.1	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Potassium	606	510	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Selenium	<2.0	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Silver	<0.51	0.51	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Sodium	<510	510	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Thallium	<2.0	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Vanadium	11.6	3.1	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Zinc	40.6	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³

- (1) Instrument QC Batch: MA11669
- (2) Instrument QC Batch: MA11674
- (3) Prep QC Batch: MP15103
- (4) Prep QC Batch: MP15105

RL = Reporting Limit

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Report of Analysis

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3

Client Sample ID: 828072SS-06	Date Sampled: 04/15/10
Lab Sample ID: M90665-6	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 50.0
Method: SW846 8260B	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P44890.D	1	04/20/10	AMY	n/a	n/a	MSP1480
Run #2 ^a	P44908.D	1	04/23/10	AMY	n/a	n/a	MSP1481

Run #	Initial Weight	Final Volume
Run #1	6.30 g	1.0 ml
Run #2	6.50 g	1.0 ml

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	11.0 J	7.9	2.1	ug/kg	
71-43-2	Benzene	ND	0.79	0.77	ug/kg	
75-27-4	Bromodichloromethane	ND J	3.2	0.32	ug/kg	
75-25-2	Bromoform	ND J	3.2	1.4	ug/kg	
74-83-9	Bromomethane	ND	3.2	0.52	ug/kg	
78-93-3	2-Butanone (MEK)	ND J	7.9	2.6	ug/kg	
75-15-0	Carbon disulfide	ND J	7.9	0.66	ug/kg	
56-23-5	Carbon tetrachloride	ND J	3.2	0.57	ug/kg	
108-90-7	Chlorobenzene	ND	3.2	1.1	ug/kg	
75-00-3	Chloroethane	ND	7.9	1.3	ug/kg	
67-66-3	Chloroform	ND	3.2	0.48	ug/kg	
74-87-3	Chloromethane	ND	7.9	1.4	ug/kg	
110-82-7	Cyclohexane	ND	7.9	0.49	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND J	7.9	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	3.2	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.2	0.31	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.2	0.59	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.2	0.45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.2	0.85	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.2	0.43	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.2	0.46	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.2	0.40	ug/kg	
75-35-4	1,1-Dichloroethene	ND	3.2	1.2	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	3.2	0.93	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	3.2	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.2	0.40	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND J	3.2	0.29	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND J	3.2	0.24	ug/kg	
100-41-4	Ethylbenzene	ND	3.2	0.26	ug/kg	
76-13-1	Freon 113	ND	7.9	1.5	ug/kg	
591-78-6	2-Hexanone	ND J	7.9	0.69	ug/kg	
98-82-8	Isopropylbenzene	ND	7.9	0.23	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID: 828072SS-06	Date Sampled: 04/15/10
Lab Sample ID: M90665-6	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 50.0
Method: SW846 8260B	
Project: ERDLE-NYSDEC Gates NY	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	7.9	1.7	ug/kg	
108-87-2	Methylcyclohexane	ND	7.9	0.39	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND J	3.2	0.39	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	7.9	1.6	ug/kg	
75-09-2	Methylene chloride	ND	3.2	0.70	ug/kg	
100-42-5	Styrene	ND	7.9	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.2	0.34	ug/kg	
127-18-4	Tetrachloroethene	ND	3.2	0.26	ug/kg	
108-88-3	Toluene	ND	7.9	0.42	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND J	7.9	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND J	3.2	0.51	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.2	0.30	ug/kg	
79-01-6	Trichloroethene	ND	3.2	0.54	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.2	0.84	ug/kg	
75-01-4	Vinyl chloride	ND	3.2	0.95	ug/kg	
1330-20-7	Xylene (total)	ND	3.2	0.42	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	99%	70-130%
2037-26-5	Toluene-D8	91%	90%	70-130%
460-00-4	4-Bromofluorobenzene	131% ^b	134% ^b	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Confirmation run.

(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: 828072SS-06	Date Sampled: 04/15/10
Lab Sample ID: M90665-6	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 50.0
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14644.D	1	04/26/10	AA	04/21/10	OP21143	MSS527
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	490	26	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	980	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	980	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	980	98	ug/kg	
51-28-5	2,4-Dinitrophenol	ND J	2000	490	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND J	980	490	ug/kg	
95-48-7	2-Methylphenol	ND	980	28	ug/kg	
	3&4-Methylphenol	ND	980	52	ug/kg	
88-75-5	2-Nitrophenol	ND	980	59	ug/kg	
100-02-7	4-Nitrophenol	ND	2000	490	ug/kg	
87-86-5	Pentachlorophenol	ND J	980	91	ug/kg	
108-95-2	Phenol	ND	490	82	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	980	73	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	980	68	ug/kg	
83-32-9	Acenaphthene	ND	490	41	ug/kg	
208-96-8	Acenaphthylene	ND	490	37	ug/kg	
98-86-2	Acetophenone	ND	980	44	ug/kg	
120-12-7	Anthracene	ND	490	39	ug/kg	
1912-24-9	Atrazine	ND	980	980	ug/kg	
100-52-7	Benzaldehyde	ND	2000	2000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	490	18	ug/kg	
50-32-8	Benzo(a)pyrene	ND	490	29	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	490	57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	490	32	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	490	15	ug/kg	
92-52-4	1,1'-Biphenyl	ND	980	980	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	490	40	ug/kg	
85-68-7	Butyl benzyl phthalate	ND J	490	21	ug/kg	
105-60-2	Caprolactam	ND	980	980	ug/kg	
91-58-7	2-Chloronaphthalene	ND	490	41	ug/kg	
106-47-8	4-Chloroaniline	ND	980	250	ug/kg	
86-74-8	Carbazole	ND	490	38	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: 828072SS-06	Date Sampled: 04/15/10
Lab Sample ID: M90665-6	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 50.0
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	490	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	490	38	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	490	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	490	47	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	490	44	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	980	250	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	980	47	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	490	12	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	490	32	ug/kg	
132-64-9	Dibenzofuran	ND	490	42	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	490	45	ug/kg	
117-84-0	Di-n-octyl phthalate	ND J	490	26	ug/kg	
84-66-2	Diethyl phthalate	ND	490	43	ug/kg	
131-11-3	Dimethyl phthalate	ND	490	34	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND J	490	34	ug/kg	
206-44-0	Fluoranthene	92.1	490	17	ug/kg	J
86-73-7	Fluorene	ND	490	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	490	42	ug/kg	
87-68-3	Hexachlorobutadiene	ND	490	38	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND J	980	6.6	ug/kg	
67-72-1	Hexachloroethane	ND	490	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	490	30	ug/kg	
78-59-1	Isophorone	ND	490	49	ug/kg	
91-57-6	2-Methylnaphthalene	ND	490	41	ug/kg	
88-74-4	2-Nitroaniline	ND	980	250	ug/kg	
99-09-2	3-Nitroaniline	ND	980	250	ug/kg	
100-01-6	4-Nitroaniline	ND	980	36	ug/kg	
91-20-3	Naphthalene	ND	490	11	ug/kg	
98-95-3	Nitrobenzene	ND	490	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	490	31	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	490	26	ug/kg	
85-01-8	Phenanthrene	55.0	490	13	ug/kg	J
129-00-0	Pyrene	72.5	490	16	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%		30-130%
4165-62-2	Phenol-d5	72%		30-130%
118-79-6	2,4,6-Tribromophenol	86%		30-130%
4165-60-0	Nitrobenzene-d5	67%		30-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID: 828072SS-06	Date Sampled: 04/15/10
Lab Sample ID: M90665-6	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 50.0
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	80%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
54644-27-8	1,2,4-Cyclopentanetrione, 3-(2-pen	10.91	1100	ug/kg	JN
1454-84-8	1-Nonadecanol	16.55	1400	ug/kg	JN
77899-10-6	(Z)14-Tricosenyl formate	17.23	1200	ug/kg	JN
1599-67-3	1-Docosene	17.55	1700	ug/kg	JN
638-66-4	Octadecanal	18.18	1600	ug/kg	JN
630-07-9	Pentatriacontane	18.40	1100	ug/kg	JN
54889-60-0	Hexanoic acid, 2-ethyl-2-propyl-,	18.64	1300	ug/kg	JN
59-02-9	Vitamin E	18.76	1300	ug/kg	JN
1953-54-4	1H-Indol-5-ol	18.89	1000	ug/kg	JN
77899-10-6	(Z)14-Tricosenyl formate	19.13	1700	ug/kg	JN
3386-33-2	Octadecane, 1-chloro-	19.35	1200	ug/kg	JN
83-48-7	Stigmasterol	19.62	2500	ug/kg	JN
83-47-6	.gamma.-Sitosterol	19.96	1500	ug/kg	JN
54832-82-5	Tricyclo[4.3.0.07,9]nonane, 2,2,5,	20.05	1800	ug/kg	JN
	Total TIC, Semi-Volatile		20400	ug/kg	J

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: 828072SS-06	Date Sampled: 04/15/10
Lab Sample ID: M90665-6	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 50.0
Method: SW846 8082 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ5666.D	1	04/21/10	CZ	04/20/10	OP21131	GYZ2417
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	200	49	ug/kg	
11104-28-2	Aroclor 1221	ND	200	13	ug/kg	
11141-16-5	Aroclor 1232	ND	200	28	ug/kg	
53469-21-9	Aroclor 1242	ND	200	17	ug/kg	
12672-29-6	Aroclor 1248	ND	200	52	ug/kg	
11097-69-1	Aroclor 1254	ND	200	23	ug/kg	
11096-82-5	Aroclor 1260	ND	200	38	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	111%		30-150%
877-09-8	Tetrachloro-m-xylene	112%		30-150%
2051-24-3	Decachlorobiphenyl	129%		30-150%
2051-24-3	Decachlorobiphenyl	132%		30-150%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: 828072SS-06
 Lab Sample ID: M90665-6
 Matrix: SO - Soil

Date Sampled: 04/15/10
 Date Received: 04/16/10
 Percent Solids: 50.0

Project: ERDLE-NYSDEC Gates NY

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5950	19	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Antimony	< 1.9 ⁵	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Arsenic	4.0	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Barium	< 19	19	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Beryllium	< 0.38	0.38	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cadmium	< 0.38	0.38	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Calcium	3970 ⁵	480	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Chromium	7.2	0.96	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cobalt	< 4.8	4.8	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Copper	7.2	2.4	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Iron	9060	9.6	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Lead	16.1	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Magnesium	833	480	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Manganese	118	1.4	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Mercury	0.087	0.029	mg/kg	1	04/21/10	04/21/10 MA	SW846 7471A ¹	SW846 7471A ⁴
Nickel	4.4	3.8	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Potassium	< 480	480	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Selenium	< 1.9	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Silver	< 0.48	0.48	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Sodium	< 480	480	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Thallium	< 1.9	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Vanadium	16.7	2.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Zinc	70.9	1.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³

- (1) Instrument QC Batch: MA11669
- (2) Instrument QC Batch: MA11674
- (3) Prep QC Batch: MP15103
- (4) Prep QC Batch: MP15105

RL = Reporting Limit

Handwritten signature and date: 5/24/10

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Report of Analysis

3.7
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Client Sample ID: 828072SS-07	Date Sampled: 04/15/10
Lab Sample ID: M90665-7	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 75.5
Method: SW846 8260B	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P44891.D	1	04/20/10	AMY	n/a	n/a	MSP1480
Run #2							

Run #	Initial Weight	Final Volume
Run #1	9.02 g	1.0 ml
Run #2		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.2 J	3.7	0.95	ug/kg	J
71-43-2	Benzene	ND	0.37	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND J	1.5	0.15	ug/kg	
75-25-2	Bromoform	ND J	1.5	0.64	ug/kg	
74-83-9	Bromomethane	ND	1.5	0.24	ug/kg	
78-93-3	2-Butanone (MEK)	ND J	3.7	1.2	ug/kg	
75-15-0	Carbon disulfide	ND J	3.7	0.31	ug/kg	
56-23-5	Carbon tetrachloride	ND J	1.5	0.26	ug/kg	
108-90-7	Chlorobenzene	ND	1.5	0.50	ug/kg	
75-00-3	Chloroethane	ND	3.7	0.59	ug/kg	
67-66-3	Chloroform	ND	1.5	0.22	ug/kg	
74-87-3	Chloromethane	ND	3.7	0.65	ug/kg	
110-82-7	Cyclohexane	ND	3.7	0.22	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND J	3.7	2.4	ug/kg	
124-48-1	Dibromochloromethane	ND	1.5	0.094	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.5	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.5	0.27	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.5	0.21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.5	0.39	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	1.5	0.20	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.5	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.5	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.5	0.57	ug/kg	
156-59-2	cis-1,2-Dichloroethene	2.7 J	1.5	0.43	ug/kg	
156-60-5	trans-1,2-Dichloroethene	0.92 J	1.5	0.52	ug/kg	J
78-87-5	1,2-Dichloropropane	ND	1.5	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	0.11	ug/kg	
100-41-4	Ethylbenzene	ND	1.5	0.12	ug/kg	
76-13-1	Freon 113	ND	3.7	0.68	ug/kg	
591-78-6	2-Hexanone	ND J	3.7	0.32	ug/kg	
98-82-8	Isopropylbenzene	ND	3.7	0.11	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

[Handwritten Signature] 5/24/10

Report of Analysis

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3

Client Sample ID: 828072SS-07	Date Sampled: 04/15/10
Lab Sample ID: M90665-7	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 75.5
Method: SW846 8260B	
Project: ERDLE-NYSDEC Gates NY	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	3.7	0.81	ug/kg	
108-87-2	Methylcyclohexane	ND	3.7	0.18	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND J	1.5	0.18	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	3.7	0.73	ug/kg	
75-09-2	Methylene chloride	ND	1.5	0.32	ug/kg	
100-42-5	Styrene	ND	3.7	0.58	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	1.5	0.12	ug/kg	
108-88-3	Toluene	ND	3.7	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND J	3.7	0.53	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND J	1.5	0.24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.14	ug/kg	
79-01-6	Trichloroethene	6.9	1.5	0.25	ug/kg	
75-69-4	Trichlorofluoromethane	ND	1.5	0.39	ug/kg	
75-01-4	Vinyl chloride	ND	1.5	0.44	ug/kg	
1330-20-7	Xylene (total)	ND	1.5	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	119%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Accutest Laboratories

Report of Analysis

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Client Sample ID:	828072SS-07	Date Sampled:	04/15/10
Lab Sample ID:	M90665-7	Date Received:	04/16/10
Matrix:	SO - Soil	Percent Solids:	75.5
Method:	SW846 8270C SW846 3545		
Project:	ERDLE-NYSDEC Gates NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S14645.D	1	04/26/10	AA	04/21/10	OP21143	MSS527
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	330	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	660	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	660	39	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	660	66	ug/kg	
51-28-5	2,4-Dinitrophenol	ND J	1300	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND J	660	330	ug/kg	
95-48-7	2-Methylphenol	ND	660	19	ug/kg	
	3&4-Methylphenol	ND	660	35	ug/kg	
88-75-5	2-Nitrophenol	ND	660	40	ug/kg	
100-02-7	4-Nitrophenol	ND	1300	330	ug/kg	
87-86-5	Pentachlorophenol	ND	660	61	ug/kg	
108-95-2	Phenol	ND	330	55	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	660	49	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	660	46	ug/kg	
83-32-9	Acenaphthene	ND	330	28	ug/kg	
208-96-8	Acenaphthylene	ND	330	25	ug/kg	
98-86-2	Acetophenone	ND	660	30	ug/kg	
120-12-7	Anthracene	ND	330	26	ug/kg	
1912-24-9	Atrazine	ND	660	660	ug/kg	
100-52-7	Benzaldehyde	ND	1300	1300	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	39	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	9.8	ug/kg	
92-52-4	1,1'-Biphenyl	ND	660	660	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	330	27	ug/kg	
85-68-7	Butyl benzyl phthalate	ND J	330	14	ug/kg	
105-60-2	Caprolactam	ND	660	660	ug/kg	
91-58-7	2-Chloronaphthalene	ND	330	28	ug/kg	
106-47-8	4-Chloroaniline	ND	660	170	ug/kg	
86-74-8	Carbazole	ND	330	26	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

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3

Client Sample ID: 828072SS-07	Date Sampled: 04/15/10
Lab Sample ID: M90665-7	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 75.5
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

ABN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	330	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	330	26	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	330	7.1	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	330	31	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	330	30	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	660	170	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	660	32	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	7.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	21	ug/kg	
132-64-9	Dibenzofuran	ND	330	28	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	30	ug/kg	
117-84-0	Di-n-octyl phthalate	ND J	330	17	ug/kg	
84-66-2	Diethyl phthalate	ND	330	29	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	23	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	134 J	330	23	ug/kg	J
206-44-0	Fluoranthene	ND	330	11	ug/kg	
86-73-7	Fluorene	ND	330	7.3	ug/kg	
118-74-1	Hexachlorobenzene	ND	330	29	ug/kg	
87-68-3	Hexachlorobutadiene	ND	330	26	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND J	660	4.5	ug/kg	
67-72-1	Hexachloroethane	ND	330	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	20	ug/kg	
78-59-1	Isophorone	ND	330	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	28	ug/kg	
88-74-4	2-Nitroaniline	ND	660	170	ug/kg	
99-09-2	3-Nitroaniline	ND	660	170	ug/kg	
100-01-6	4-Nitroaniline	ND	660	25	ug/kg	
91-20-3	Naphthalene	ND	330	7.7	ug/kg	
98-95-3	Nitrobenzene	ND	330	9.8	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	330	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	330	18	ug/kg	
85-01-8	Phenanthrene	ND	330	8.5	ug/kg	
129-00-0	Pyrene	ND	330	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	79%		30-130%
4165-62-2	Phenol-d5	74%		30-130%
118-79-6	2,4,6-Tribromophenol	83%		30-130%
4165-60-0	Nitrobenzene-d5	66%		30-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

[Handwritten Signature] 5/24/10

Report of Analysis

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3

Client Sample ID: 828072SS-07	Date Sampled: 04/15/10
Lab Sample ID: M90665-7	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 75.5
Method: SW846 8270C SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

ABN TCL List (CLP4.2 list)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	81%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
630-07-9	Pentatriacontane	15.47	330	ug/kg	JN
18435-45-5	1-Nonadecene	16.56	310	ug/kg	JN
112-95-8	Eicosane	17.49	270	ug/kg	JN
1454-85-9	1-Heptadecanol	17.56	340	ug/kg	JN
	1-Hexacosanal	18.18	300	ug/kg	J
7225-64-1	Heptadecane, 9-octyl-	18.40	280	ug/kg	JN
	Total TIC, Semi-Volatile		1830	ug/kg	J

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

[Handwritten Signature] 5/24/10

Accutest Laboratories

Report of Analysis

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Client Sample ID: 828072SS-07	Date Sampled: 04/15/10
Lab Sample ID: M90665-7	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 75.5
Method: SW846 8082 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ56667.D	1	04/21/10	CZ	04/20/10	OP21131	GYZ2417
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	130	32	ug/kg	
11104-28-2	Aroclor 1221	ND	130	8.2	ug/kg	
11141-16-5	Aroclor 1232	ND	130	18	ug/kg	
53469-21-9	Aroclor 1242	ND	130	11	ug/kg	
12672-29-6	Aroclor 1248	ND	130	33	ug/kg	
11097-69-1	Aroclor 1254	ND	130	14	ug/kg	
11096-82-5	Aroclor 1260	ND	130	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		30-150%
877-09-8	Tetrachloro-m-xylene	104%		30-150%
2051-24-3	Decachlorobiphenyl	126%		30-150%
2051-24-3	Decachlorobiphenyl	128%		30-150%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

3.7
3

Client Sample ID: 828072SS-07	Date Sampled: 04/15/10
Lab Sample ID: M90665-7	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 75.5
Project: ERDLE-NYSDEC Gates NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9340	20	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Antimony	< 2.0 ³	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Arsenic	3.6 ³	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Barium	65.5	20	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Beryllium	0.46	0.39	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cadmium	< 0.39	0.39	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Calcium	32700 ³	490	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Chromium	12.6	0.98	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Cobalt	6.2	4.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Copper	11.1	2.5	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Iron	16300	9.8	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Lead	8.9	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Magnesium	8440	490	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Manganese	387	1.5	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Mercury	< 0.040	0.040	mg/kg	1	04/21/10	04/21/10 MA	SW846 7471A ¹	SW846 7471A ⁴
Nickel	15.7	3.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Potassium	1440	490	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Selenium	< 2.0	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Silver	< 0.49	0.49	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Sodium	< 490	490	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Thallium	< 2.0	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Vanadium	18.2	2.9	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³
Zinc	95.6	2.0	mg/kg	1	04/20/10	04/22/10 DA	SW846 6010B ²	SW846 3050B ³

- (1) Instrument QC Batch: MA11669
- (2) Instrument QC Batch: MA11674
- (3) Prep QC Batch: MP15103
- (4) Prep QC Batch: MP15105

RL = Reporting Limit

Richard Cole 5/24/10

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Report of Analysis

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Client Sample ID: 828072SS-01	Date Sampled: 04/15/10
Lab Sample ID: M90665-1R	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 83.3
Method: SW846 8081 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 a	BE19301.D	1	05/05/10	SL	05/01/10	OP21238	GBE1249
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	7.6	2.5	ug/kg	
319-84-6	alpha-BHC	ND	7.6	2.3	ug/kg	
319-85-7	beta-BHC	ND	7.6	2.6	ug/kg	
319-86-8	delta-BHC	ND	7.6	5.9	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	7.6	2.9	ug/kg	
12789-03-6	Chlordane	ND	76	29	ug/kg	
60-57-1	Dieldrin	ND	7.6	2.6	ug/kg	
72-54-8	4,4'-DDD	ND	7.6	3.1	ug/kg	
72-55-9	4,4'-DDE	ND	7.6	2.7	ug/kg	
50-29-3	4,4'-DDT	ND	7.6	3.0	ug/kg	
72-20-8	Endrin	ND	7.6	3.1	ug/kg	
1031-07-8	Endosulfan sulfate	ND	7.6	2.7	ug/kg	
7421-93-4	Endrin aldehyde	ND	7.6	2.0	ug/kg	
959-98-8	Endosulfan-I	ND	7.6	7.1	ug/kg	
33213-65-9	Endosulfan-II	ND	7.6	1.8	ug/kg	
76-44-8	Heptachlor	ND	7.6	2.7	ug/kg	
1024-57-3	Heptachlor epoxide	ND	7.6	3.0	ug/kg	
72-43-5	Methoxychlor	ND	7.6	3.9	ug/kg	
8001-35-2	Toxaphene	ND	76	45	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		30-150%
877-09-8	Tetrachloro-m-xylene	98%		30-150%
2051-24-3	Decachlorobiphenyl	115%		30-150%
2051-24-3	Decachlorobiphenyl	115%		30-150%

(a) Analysis requested after recommended holding time.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

[Handwritten Signature] 5/24/10

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Report of Analysis

3.2
3

Client Sample ID: 828072SS-04	Date Sampled: 04/15/10
Lab Sample ID: M90665-4R	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 79.3
Method: SW846 8081 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	BE19302.D	1	05/05/10	SL	05/01/10	OP21238	GBE1249
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND ^J	8.3	2.8	ug/kg	
319-84-6	alpha-BHC	ND	8.3	2.5	ug/kg	
319-85-7	beta-BHC	ND	8.3	2.9	ug/kg	
319-86-8	delta-BHC	ND	8.3	6.6	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	8.3	3.2	ug/kg	
12789-03-6	Chlordane	ND	83	32	ug/kg	
60-57-1	Dieldrin	ND	8.3	2.9	ug/kg	
72-54-8	4,4'-DDD	ND	8.3	3.4	ug/kg	
72-55-9	4,4'-DDE	ND	8.3	3.0	ug/kg	
50-29-3	4,4'-DDT	ND	8.3	3.4	ug/kg	
72-20-8	Endrin	ND	8.3	3.5	ug/kg	
1031-07-8	Endosulfan sulfate	ND	8.3	3.0	ug/kg	
7421-93-4	Endrin aldehyde	ND	8.3	2.2	ug/kg	
959-98-8	Endosulfan-I	ND	8.3	7.9	ug/kg	
33213-65-9	Endosulfan-II	ND	8.3	2.0	ug/kg	
76-44-8	Heptachlor	ND	8.3	3.0	ug/kg	
1024-57-3	Heptachlor epoxide	ND	8.3	3.3	ug/kg	
72-43-5	Methoxychlor	ND	8.3	4.3	ug/kg	
8001-35-2	Toxaphene	ND	83	49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%		30-150%
877-09-8	Tetrachloro-m-xylene	109%		30-150%
2051-24-3	Decachlorobiphenyl	83%		30-150%
2051-24-3	Decachlorobiphenyl	89%		30-150%

(a) Analysis requested after recommended holding time.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

33
3

Client Sample ID: 828072SS-05	Date Sampled: 04/15/10
Lab Sample ID: M90665-5R	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 86.1
Method: SW846 8081 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	BE19303.D	1	05/05/10	SL	05/01/10	OP21238	GBE1249
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	7.5	2.5	ug/kg	
319-84-6	alpha-BHC	ND	7.5	2.2	ug/kg	
319-85-7	beta-BHC	ND	7.5	2.6	ug/kg	
319-86-8	delta-BHC	ND	7.5	5.9	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	7.5	2.8	ug/kg	
12789-03-6	Chlordane	ND	75	28	ug/kg	
60-57-1	Dieldrin	ND	7.5	2.6	ug/kg	
72-54-8	4,4'-DDD	ND	7.5	3.0	ug/kg	
72-55-9	4,4'-DDE	ND	7.5	2.7	ug/kg	
50-29-3	4,4'-DDT	ND	7.5	3.0	ug/kg	
72-20-8	Endrin	ND	7.5	3.1	ug/kg	
1031-07-8	Endosulfan sulfate	ND	7.5	2.7	ug/kg	
7421-93-4	Endrin aldehyde	ND	7.5	1.9	ug/kg	
959-98-8	Endosulfan-I	ND	7.5	7.0	ug/kg	
33213-65-9	Endosulfan-II	ND	7.5	1.8	ug/kg	
76-44-8	Heptachlor	ND	7.5	2.7	ug/kg	
1024-57-3	Heptachlor epoxide	ND	7.5	2.9	ug/kg	
72-43-5	Methoxychlor	ND	7.5	3.9	ug/kg	
8001-35-2	Toxaphene	ND	75	44	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		30-150%
877-09-8	Tetrachloro-m-xylene	77%		30-150%
2051-24-3	Decachlorobiphenyl	80%		30-150%
2051-24-3	Decachlorobiphenyl	83%		30-150%

(a) Analysis requested after recommended holding time.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Robert Colaneri 5/24/10

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Report of Analysis

3.4
3

Client Sample ID: 828072SS-06	Date Sampled: 04/15/10
Lab Sample ID: M90665-6R	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 50.0
Method: SW846 8081 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	BE19304.D	1	05/05/10	SL	05/01/10	OP21238	GBE1249
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND 5	13	4.2	ug/kg	
319-84-6	alpha-BHC	ND	13	3.8	ug/kg	
319-85-7	beta-BHC	ND	13	4.4	ug/kg	
319-86-8	delta-BHC	ND	13	10	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	13	4.8	ug/kg	
12789-03-6	Chlordane	ND	130	49	ug/kg	
60-57-1	Dieldrin	ND	13	4.3	ug/kg	
72-54-8	4,4'-DDD	ND	13	5.2	ug/kg	
72-55-9	4,4'-DDE	ND	13	4.5	ug/kg	
50-29-3	4,4'-DDT	ND	13	5.1	ug/kg	
72-20-8	Endrin	ND	13	5.3	ug/kg	
1031-07-8	Endosulfan sulfate	ND	13	4.5	ug/kg	
7421-93-4	Endrin aldehyde	ND	13	3.3	ug/kg	
959-98-8	Endosulfan-I	ND	13	12	ug/kg	
33213-65-9	Endosulfan-II	ND	13	3.0	ug/kg	
76-44-8	Heptachlor	ND	13	4.6	ug/kg	
1024-57-3	Heptachlor epoxide	ND	13	5.0	ug/kg	
72-43-5	Methoxychlor	ND	13	6.6	ug/kg	
8001-35-2	Toxaphene	ND	130	75	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		30-150%
877-09-8	Tetrachloro-m-xylene	109%		30-150%
2051-24-3	Decachlorobiphenyl	117%		30-150%
2051-24-3	Decachlorobiphenyl	131%		30-150%

(a) Analysis requested after recommended holding time.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

35
3

Client Sample ID: 828072SS-07	Date Sampled: 04/15/10
Lab Sample ID: M90665-7R	Date Received: 04/16/10
Matrix: SO - Soil	Percent Solids: 75.5
Method: SW846 8081 SW846 3545	
Project: ERDLE-NYSDEC Gates NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	BE19305.D	1	05/05/10	SL	05/01/10	OP21238	GBE1249
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND J	8.6	2.9	ug/kg	
319-84-6	alpha-BHC	ND	8.6	2.6	ug/kg	
319-85-7	beta-BHC	ND	8.6	3.0	ug/kg	
319-86-8	delta-BHC	ND	8.6	6.8	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	8.6	3.3	ug/kg	
12789-03-6	Chlordane	ND	86	33	ug/kg	
60-57-1	Dieldrin	ND	8.6	2.9	ug/kg	
72-54-8	4,4'-DDD	ND	8.6	3.5	ug/kg	
72-55-9	4,4'-DDE	ND	8.6	3.1	ug/kg	
50-29-3	4,4'-DDT	ND	8.6	3.5	ug/kg	
72-20-8	Endrin	ND	8.6	3.6	ug/kg	
1031-07-8	Endosulfan sulfate	ND	8.6	3.1	ug/kg	
7421-93-4	Endrin aldehyde	ND	8.6	2.2	ug/kg	
959-98-8	Endosulfan-I	ND	8.6	8.1	ug/kg	
33213-65-9	Endosulfan-II	ND	8.6	2.1	ug/kg	
76-44-8	Heptachlor	ND	8.6	3.1	ug/kg	
1024-57-3	Heptachlor epoxide	ND	8.6	3.4	ug/kg	
72-43-5	Methoxychlor	ND	8.6	4.5	ug/kg	
8001-35-2	Toxaphene	ND	86	51	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%		30-150%
877-09-8	Tetrachloro-m-xylene	118%		30-150%
2051-24-3	Decachlorobiphenyl	115%		30-150%
2051-24-3	Decachlorobiphenyl	134%		30-150%

(a) Analysis requested after recommended holding time.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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APPENDIX D

SITE PHOTOS

Appendix D contains the two aerial images of the Erdle Perforating Company Site showing some site features. This information is offered for consideration when planning the remedial work.



WATER
ELEVATION

WELLS 5 & 5W

TBM on HYD.



APPENDIX E

UNDERGROUND TANK AND SOIL EXCAVATION

Appendix E contains a report describing the removal of underground storage tank removal from the Erdle Perforating Company Site in April in 1987. This information is being offered for consideration when planning the remedial work.

ERDLE PERFORATING COMPANY, INC.
Underground Tank and Soil Excavation
July, 1987

DAY

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I. INTRODUCTION

A soil and groundwater sampling project was conducted January 6-9, 1987 at Erdle Perforating Company, Inc., located at 100 Pixley Industrial Parkway in Rochester, New York. This study revealed that chlorinated solvents were present in the soil and groundwater in the area around Erdle's two underground waste accumulation tanks. These results are discussed in a report dated February, 1987, entitled "Soil and Groundwater Sampling Report." A copy of this report was submitted to the New York State Department of Environmental Conservation (DEC).

An incident involving Erdle's underground waste trichloroethene tank occurred on February 5, 1987. Water was found in the trichloroethene waste tank by the waste hauler. It did not appear that the presence of the water was process-related; therefore, an initial integrity test was conducted on the solvent waste tank using air pressure. The results of the pressure test indicated that the tank was unfit for use. This was reported by telephone and in writing to the DEC and to the United States Environmental Protection Agency on February 5, 1987.

A meeting was held February 24, 1987, with representatives from Erdle Perforating Company, Inc.; Day Engineering, P.C.; and the DEC in attendance. At this meeting, it was decided to remove the underground waste trichloroethene tank as soon as possible and to implement the other recommendations presented in the "Soil and Groundwater Sampling Report." It was also acknowledged that it would probably be best to remove the underground waste oil tank at the same time, as it was known to be at least partially blocking access to the waste trichloroethene tank. Erdle personnel also decided to remove the underground fresh oil storage tank in order to completely discontinue the practice of underground storage.

A bid document was prepared by Day Engineering for the removal and disposal of the tanks and excavated soils. Bids were solicited from three contractors. American Environmental Services Company, Inc. was selected to conduct the work.

In addition to the removal and disposal of the waste tanks and excavated soils, surface water and sediment sampling was recommended in the "Soil and Groundwater Sampling Report." This sampling was conducted on February 27, 1987. The results are discussed in Section IV of this report.

A literature search was also conducted to obtain as much information as possible regarding the geology in the vicinity of the Erdle Perforating facility. Specifically, information was sought regarding the depth to bedrock and the thickness of the clay layer encountered during the January sampling program. The results of this effort are discussed in Section IV of this report.

II. FIELD WORK DESCRIPTION

American Environmental Services, Inc., was retained to remove the tanks and excavated soils, and prepare the wastes for off-site disposal. Waste Technology Services, Inc., arranged for the disposal of all waste materials resulting from this project. Personnel from Day Engineering, P.C., acted as Project Manager.

Refer to Figure 1 for a plot plan showing the location of the tanks that were removed from the ground.

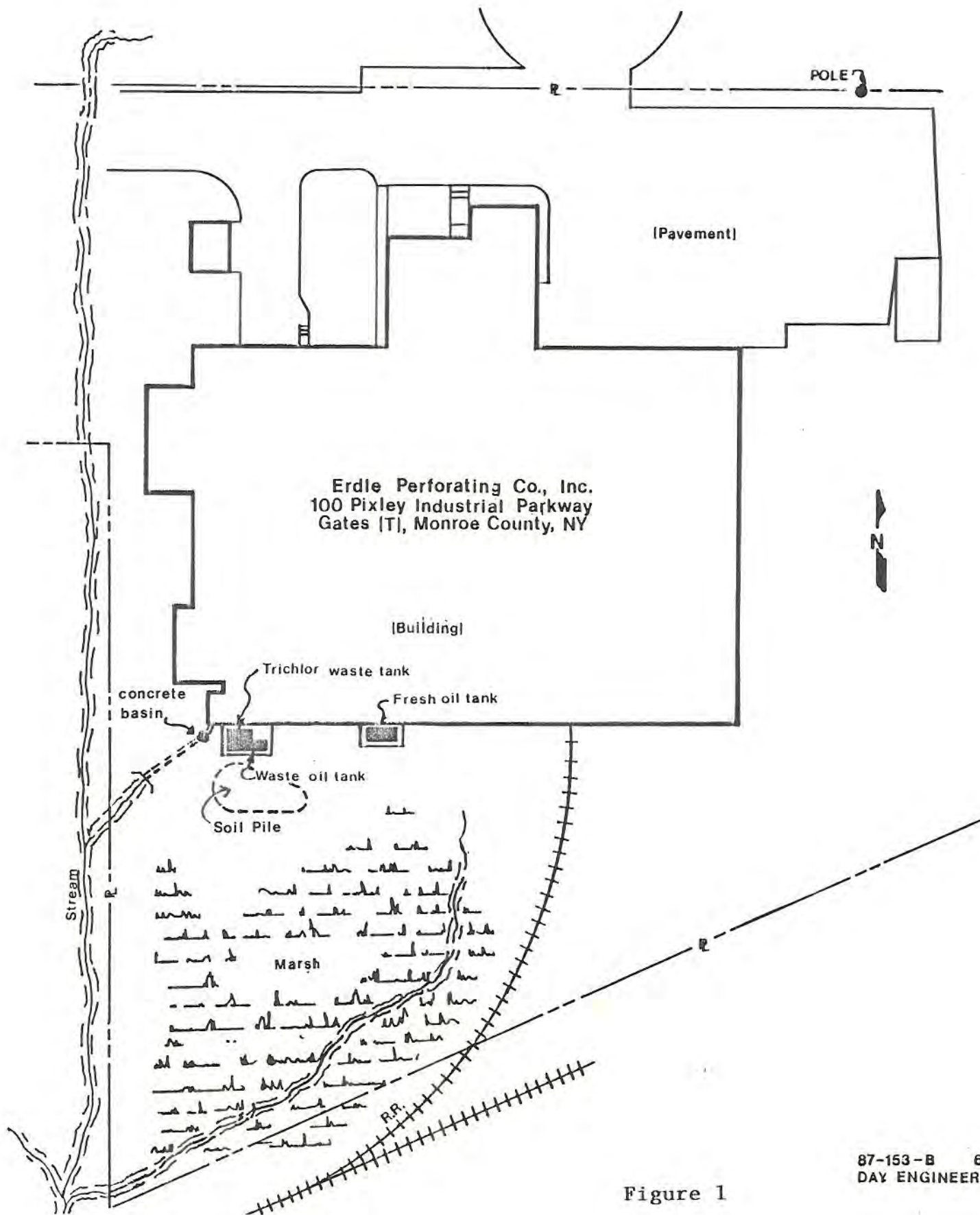
Work commenced the morning of April 13, 1987. A vacuum truck was used for the pumping and transport of liquid wastes resulting from this project. An excavator was used to excavate soil and remove the tanks from the ground. A 6-mil polyethylene sheet was placed south of the excavated area, and all excavated soil and debris were piled on this sheet to await off-site disposal as a hazardous waste. (Refer to Figure 1 for the location of the stockpiled soil.)

The waste oil tank was removed first. All aboveground piping associated with this tank, except two standpipes, was cut and removed. No spillage occurred during the removal of the piping. Residual liquid from the tank was pumped into the vacuum truck. Dry ice was then added to the tank through a standpipe as a precautionary measure to create an inert atmosphere within the tank. The concrete diking surrounding the waste tank area was removed. The diking was approximately one foot above grade and extended one foot into the ground. Also, the soil surrounding the waste oil tank was excavated. The tank was then removed from the ground using the excavator and a chain, and was placed southwest of the excavation area to await dismantlement.

SITE PLOT PLAN SHOWING TANK LOCATIONS

ERDLER PERFORATING CO., INC.

Scale: 1in = 80ft.



87-153-B 6/87
DAY ENGINEERING

Figure 1

The waste trichloroethene accumulation tank was full of groundwater and solvent sludge when the excavation began. This tank had been left full to prevent the tank from being buoyed prematurely by groundwater during the excavation process. After the removal of the waste oil tank, it was clear that buoying would not be a problem. The groundwater table was below the floor of the excavated pit, which was approximately 6.5 feet below grade. The decision was then made to pump the liquid in the waste trichloroethene tank into the vacuum truck prior to excavation of the soils around the tank. This liquid was later transported to Frontier Chemical Process, Inc., for disposal as a hazardous waste.

The soil surrounding the tank was excavated, and the tank was removed and placed next to the waste oil tank. No spillage occurred during the removal of the tank. The two waste tanks were later cleaned with a power washer. The rinse water was pumped into the vacuum truck for off-site disposal as a hazardous waste. The tanks were cut and dismantled on-site using oxy-acetylene torches, and the tank sections were added to the soil pile for disposal as a hazardous waste.

The excavation of the pit was continued to the north as close as possible to the building wall without running the risk of undermining the building support. On the other three walls of the pit, the excavation was continued to beyond the point where the concrete diking had been located. Additional soil was removed from the southwest corner of the pit because prior sampling had revealed the presence of chlorinated solvents in that area.

Thirteen soil samples were taken from the walls and floor of the excavation (see Figure 2 in Section IV). The sampling methodology consisted of exposing a fresh soil surface through hand digging, and then placing the soil sample directly into a

sample container. In accordance with EPA and DEC protocol, the samples were stored in pre-cleaned 40-ml. glass vials with teflon septums and plastic caps. They were preserved in the field by cooling and handled via chain-of-custody with proper documentation. The samples were sent to General Testing Corporation of Rochester, New York for analysis. General Testing has a NYS Laboratory Certification ID# 10145, and is also certified by the State of New Jersey.

After the soil samples were obtained, the excavated pit was backfilled with Crusher Run #2 gravel. This material was chosen because it compacts well and will provide good support for the building. Each load (approximately 10 tons) was compacted before the next load was applied. This procedure was continued until the remaining depth below grade was approximately one foot. One 10-ton load of topsoil was then applied and the entire slope behind the building was graded evenly and compacted.

The removal of the two waste tanks was completed on April 14, 1987, and the removal of the fresh oil tank from the ground began in the late morning of April 15, 1987.

The fresh oil tank was cleaned in place using the power washer. The resulting rinse water was pumped into the vacuum truck for off-site disposal. Excavation then began around the tank, starting with the concrete diking. During the excavation, dark soil was observed south of the tank along the inside of the diking. This soil had a distinct oil odor. The presence of oil in this soil could have resulted from spillage during past oil deliveries. This condition was immediately reported to Bruce Finster of the DEC, and he completed a notification form.

During a subsequent telephone call to Mr. Finster, the matter was turned over to Mike Khalil of the DEC because of his involvement in the project to remove the waste trichloroethene tank. A

decision was then made with DEC concurrence to add the soil that was heavily contaminated with oil to the stockpile of material awaiting transportation off-site for disposal as a hazardous waste. The lightly contaminated soil was to be left in place and the pit filled in and graded over. The determination of the level of contamination was to be based on visual observation in the field. Mr. Khalil also requested that some samples be obtained of the soils from the walls of this excavation.

Approximately two cubic yards of oil-contaminated soil were removed from the pit and added to the stockpiled material. Three samples were then taken, one each from the north, east and west walls of the excavated pit. The south side of the pit was not sampled, as it was a mix of excavated soils and was not representative of undisturbed soils. These soil samples were transported to General Testing and analyzed for total petroleum hydrocarbons and total solids. The analytical results are presented in Section IV of this report.

The concrete diking material that had surrounded the fresh oil tank was then placed in the excavation, and the pit was filled in with the remaining excavated soil. The area was then graded and compacted with a bulldozer.

A section (approximately 3' x 3') was cut out of each end of the fresh oil tank and the tank was hauled off-site as scrap.

The entire work area was skimmed with a front-end loader and the resulting soil was added to the stockpile. Approximately 135 tons of soil and debris (tank sections, piping, concrete) were shipped off-site for disposal as a F001 hazardous waste on April 24, 1987. The manifest documentation is included in Appendix F.

Eighteen photographs depicting various stages of this project are presented in Appendix E.

III. FIELD OBSERVATIONS

The pit excavated for the removal of the underground waste accumulation tanks was approximately 6.5 feet deep. This pit did not fill in with groundwater as expected. Some water seeped into the pit from the surrounding soils, but the groundwater table appeared to be below the floor of the pit. The floor of the pit consisted of a concrete slab (approximately 8' x 18') surrounded by hard red clay.

Upon removal of the waste oil tank, it was observed that its north side had been close to or in contact with the south side of the waste trichloroethene tank. Neither tank appeared to have been physically damaged as a result of this.

The waste oil tank measured 5 1/4 feet in diameter and 18 1/4 feet in length, and had a volume of about 3000 gallons. The integrity of the tank appeared sound. No weak spots or holes were observed in the tank sides.

The waste trichloroethene tank was about 2000 gallons in volume, with a diameter of 5 1/4 feet and a length of 12 1/4 feet. Visual inspection of the tank revealed six holes that appeared to have been caused by corrosion. These holes varied in size from about 1/4" to 1". Their elevations above the floor of the tank ranged from approximately three to four feet. The holes were located on the north side of the tank near the west end.

The trichloroethene tank had filled with groundwater subsequent to the last time it was emptied in late January, 1987. The groundwater table had been much higher at that time. The tank was still full at the time of this project even though the groundwater table was below the bottom of the tank. This means that the groundwater in the tank apparently did not leak out of the tank into the surrounding soil after the groundwater table

dropped. This indicates that compacted soils in the vicinity of the holes in the tank may have inhibited the seepage of liquid out of the tank.

The fresh oil tank was in excellent condition. No holes or weak spots were observed, and it appeared unlikely that the tank had leaked while in use. This tank was also a 3000 gallon tank, measuring 5 1/4 feet in diameter and 18 1/4 feet long.

IV. DISCUSSION OF RESULTS

The "parameters of concern" for this soil sampling program have been identified as trichloroethene; 1,2-dichloroethene; and tetrachlorethene. Erdle Perforating used trichloroethene as a degreasing solvent. Tetrachloroethene is most likely present as a by-product in the fresh trichloroethene. 1,2-Dichloroethene could be a by-product in the fresh trichloroethene, and also a breakdown product of trichloroethene in the soils. The complete laboratory reports listing the results of all compounds and the quality control data can be found in Appendix A and Appendix C of this report.

Waste Tank Excavation Pit Sampling

The waste tank pit samples were analyzed by General Testing Corporation. These samples were analyzed using Method 8010, outlined in EPA Manual SW-846, "Test Methods for Evaluating Solid Waste." The analytical results for the "parameters of concern" are presented in Table 1. The complete laboratory report is included in Appendix A.

The sampling locations are shown in Figure 2. Next to each location is shown the total chlorinated solvent concentration in ug/g (ppm). Sample locations D, G, and F, are on the bottom of the excavated pit. Samples H, I, and K were collected from the west wall of the excavated pit, and samples E and J were obtained from the east wall. Sample locations L, M, N, O, and P are on the south wall of the excavated pit.

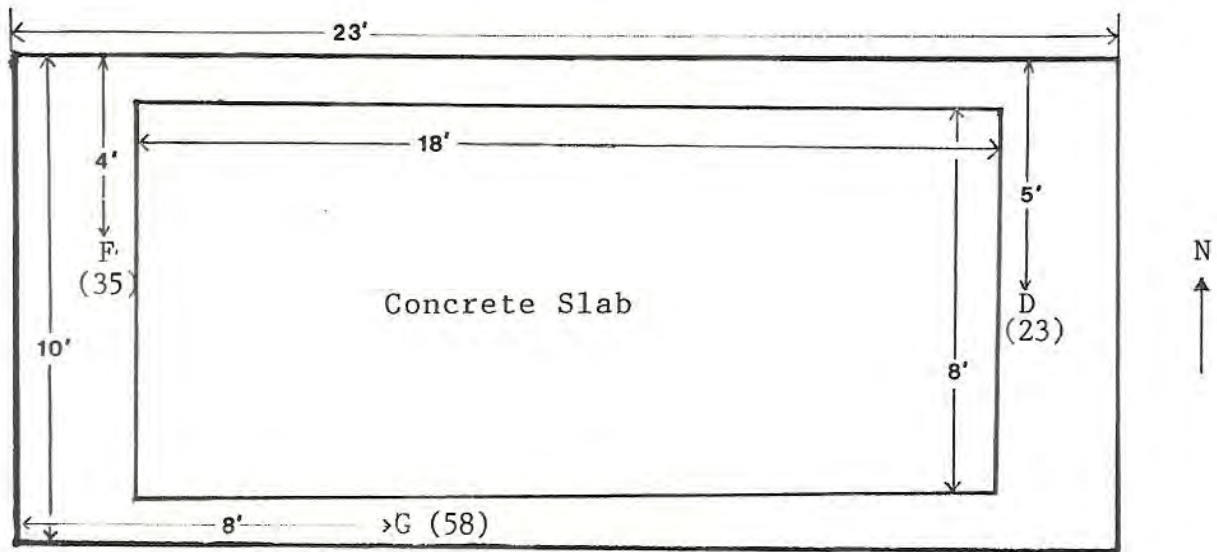
The highest concentration of solvent was found in the southwest region of the excavated pit. This is illustrated in Figure 2 on the "South Wall." Location O (two-foot depth on the south wall) contained the highest total chlorinated solvent concentration encountered (7600 ppm); however, Location N, just two feet below Location O, contained a total chlorinated solvent concentration

Table 1
Waste Tank Excavation Pit Sampling Results

Samp. Loc.	Parameters of Concern (ug/g)			Total*
	<u>Trichloroethene</u>	<u>1,2-Dichloroethene</u>	<u>Tetrachloroethene</u>	
D	1.6	20.6	0.27	23
E	<0.01	0.66	<0.01	0.7
F	32.5	1.8	0.73	35
G	26	31.4	0.17	58
H	8.99	16.3	0.091	25
I	0.082	0.074	<0.01	0.2
J	0.18	3.5	0.11	4
K	1.65	1.86	<0.05	3.5
L	<0.05	33.9	<0.05	34
M	0.52	2.4	<0.05	3
N	6.2	10.5	<0.05	17
O	6618	354	600	7600
P	0.053	0.17	0.0063	0.2

* This value represents the sum of all the parameters of concern, and represents an approximate total concentration of the chlorinated solvents present in the soils.

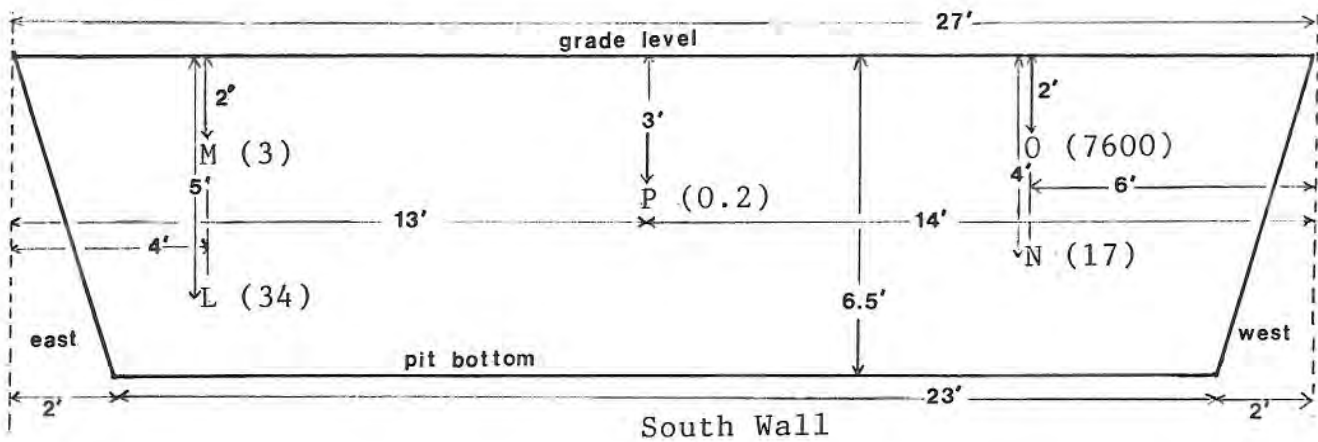
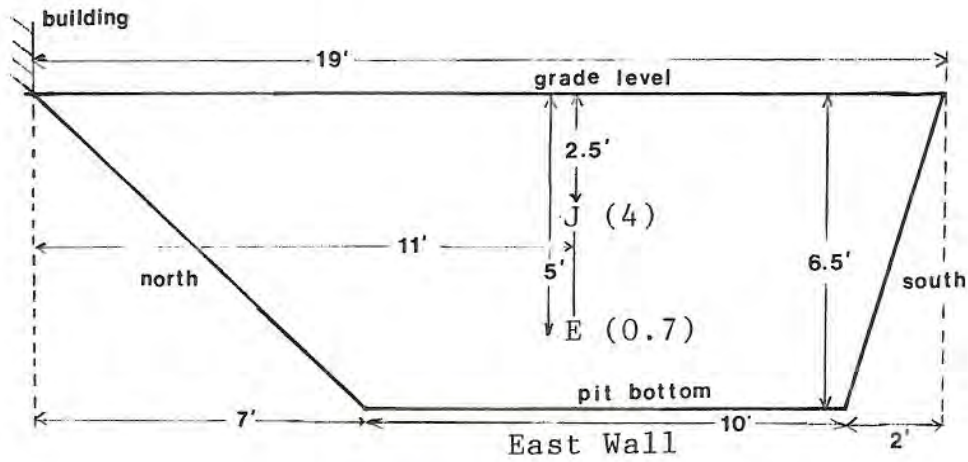
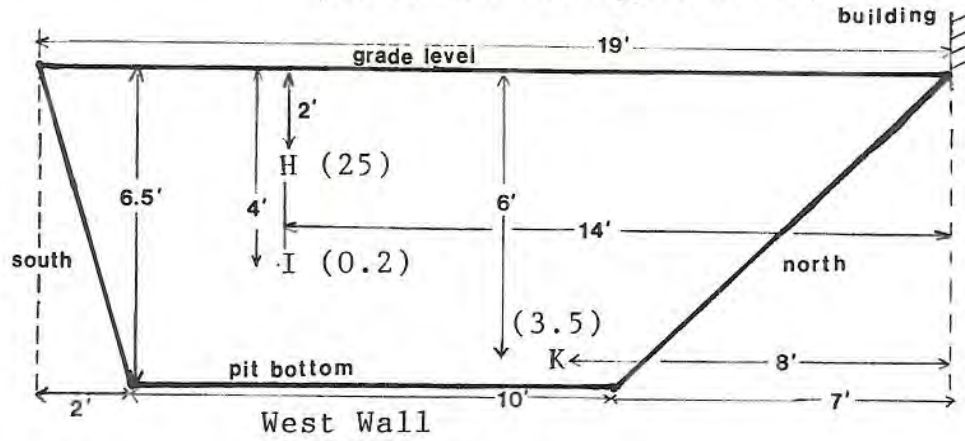
Figure 2
Waste Tank Excavation Pit Sampling Locations
(distances are approximate)



Plan View
Bottom of Excavated Pit
(approx. 6.5' below grade)

Values in parentheses are total chlorinated solvent concentrations in ug/g (ppm) - See Table 1

Figure 2 (cont.)
 Waste Tank Excavation Pit Sampling Locations
 (distances are approximate)



Values in parentheses are total chlorinated solvent concentrations in ug/g (ppm) - See Table 1

of only 17 ppm. This concentration is lower than the concentration encountered at Location O by a factor of 450. Location P, eight feet east of Location O and one foot deeper, has a total chlorinated solvent concentration of only 0.2 ppm. This level is lower than that at Location O by a factor of 40,000.

The solvent concentration found at Location O is much higher than at any other sampling location, and this location is actually higher in elevation than the holes in the waste solvent tank. Therefore, it can be concluded that the chlorinated solvents present at this location may have been the result of spillage during pick-up of the waste solvent, and are probably confined to a small localized region around Location O.

The analytical results ranged from 0.2 ppm to 58 ppm for the other sampling locations. The three samples collected from the clay in the bottom of the pit ranged from 23 ppm to 58 ppm. Refer to the "Plan View" in Figure 2. These samples were obtained just off the edge of the concrete slab, and could represent spillage during pickup and/or leakage from the tank.

Fresh Oil Tank Excavation Pit Sampling

The fresh oil tank excavation pit samples were analyzed by General Testing for total petroleum hydrocarbons and total solids. They were analyzed in accordance with EPA Manual EPA-600/4-79-020, entitled "EPA Methods for Chemical Analysis of Water and Wastes." Specifically, EPA Method 418.1 was used to determine petroleum hydrocarbon levels.

The analytical results are summarized in Table 2. The complete laboratory report is included in Appendix B to this report.

Table 2

Fresh Oil Tank Excavation Pit Sampling Results

	<u>Total Petroleum Hydrocarbons</u>		<u>Total Solids</u>
	<u>Wet Wt.(ug/g)</u>	<u>Dry Wt.(ug/g)</u>	
North Wall	1,810	2,220	81.5%
West Wall	34,900	41,400 ✓	84.2%
East Wall	3,940	4,770	82.6%

Surface Water and Sediment Sampling

Surface water samples and sediment samples were collected on February 27, 1987. The sampling locations are shown in Figure 3. The samples were sent to General Testing Corporation for analysis.

The surface water samples were analyzed in accordance with Federal Regulations: 40 CFR Part 136 - Appendix A "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater." Specifically, Method 601 "Purgeable Halocarbons" was used to determine unknown concentrations using the gas chromatograph. The sediment samples were analyzed using Method 8010, outlined in EPA Manual SW-846, "Test Methods for Evaluating Solid Waste."

The laboratory report, including quality control data, for the surface water and sediment sampling is included in Appendix C. The results are summarized in Table 3 and Table 4.

Location A (upstream of the building), Location C (in the marshy area south of the building), and Location D (where the marsh water leaves the property) showed no detectable levels of the "parameters of concern" in the water or sediment.

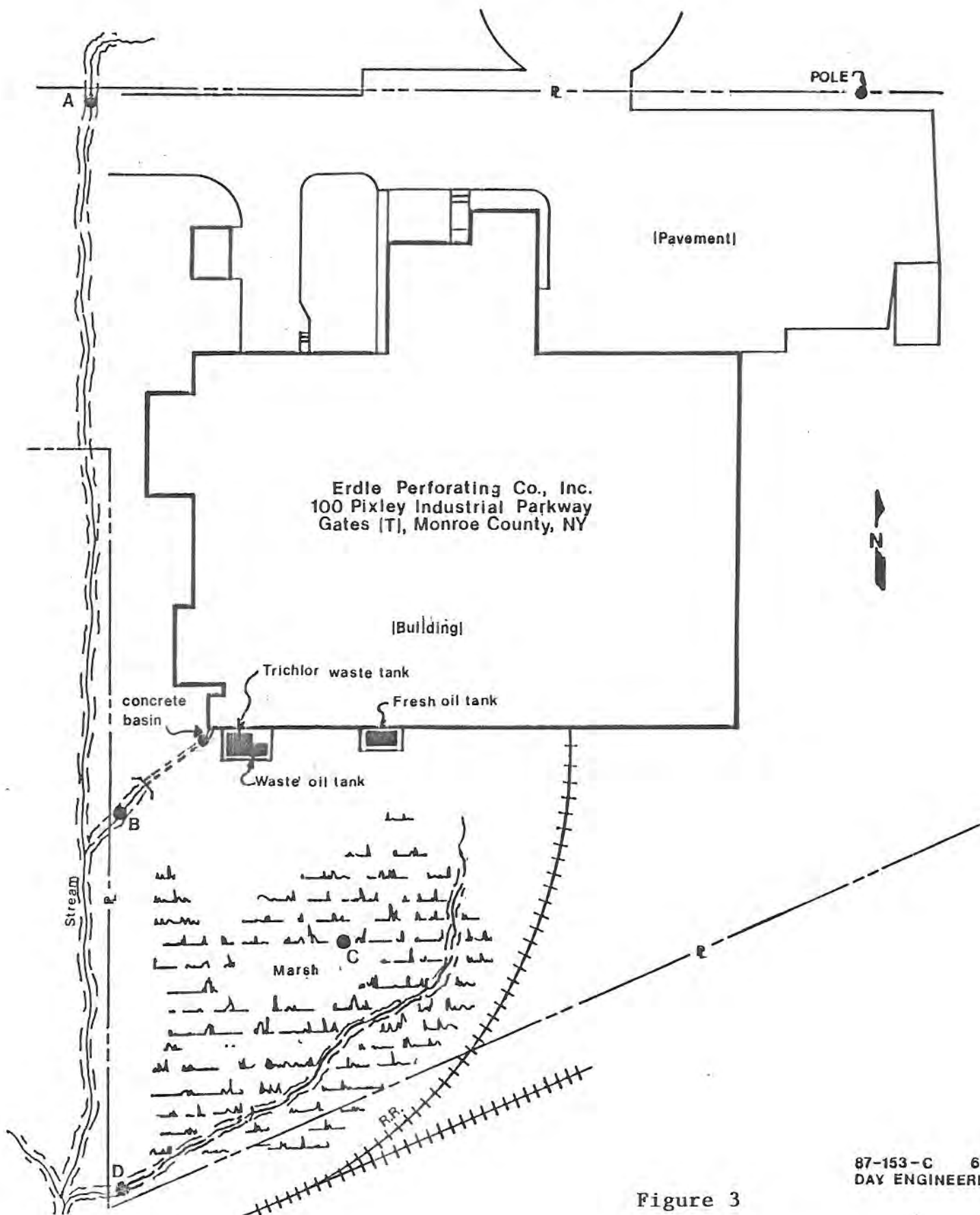
Location B, where a tributary of the stream leaves the Erdle property, showed the presence of chlorinated solvents in both the water and sediment.

A concrete cooling water basin is located near the area where the underground waste tanks were located. This basin discharges to Location B via an underground pipe. Basins of this type are usually not constructed to be watertight. Soil Sample H, which was collected from the excavated pit wall near this basin (refer to Figure 2 - West Wall) showed the presence of 25 ppm of

SURFACE WATER / SEDIMENT SAMPLING LOCATIONS

ERDLER PERFORATING CO., INC.

Scale: 1in = 80ft.



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Figure 3

Table 3
Surface Water Sampling Results
(mg/l)

<u>Samp. Loc.</u>	<u>Trichloroethene</u>	<u>1,2-Dichloroethene</u>	<u>Tetrachloroethene</u>
A	<0.001	<0.001	<0.001
B	0.75	<0.032	<0.01
C	<0.001	<0.001	<0.001
D	<0.001	<0.001	<0.001

Table 4
Surface Sediment Sampling Results

Samp. Loc.	(ug/g) <i>PPM</i>		
	<u>Trichloroethene</u>	<u>1,2-Dichloroethene</u>	<u>Tetrachloroethene</u>
A	<0.005	<0.005	<0.005
B	1.74	1.39	0.019
C	<0.005	<0.005	<0.005
D	<0.005	<0.005	<0.005

chlorinated solvents in the soil. The potential exists for groundwater containing chlorinated solvents to infiltrate into this basin and to be discharged directly to the stream. The water and sediment sample collected at Location B tends to support this theory. In addition, the porous soils surrounding the discharge pipe may be acting as a conduit for the migration of solvent constituents from the underground tank storage area.

Geologic Information

Information was sought regarding the geology in the area where the underground tanks were located to assist in determining the fate of the chlorinated solvents found in the soil. Of particular interest are the depth to bedrock, the number of separate groundwater aquifers, and the characteristics of the clay layer encountered during the January sampling program.

Many sources were pursued to obtain this information, including Erdle's files, contractors that had done work relating to building construction for Erdle, the DEC, the New York State Department of Transportation, the Monroe County Department of Health, and the Environmental Management Council. The most site-specific information was found in a report written by FACT Technical Service, Inc., on soil investigations that were performed for Erdle in October, 1969 as part of a building expansion. A copy of this report is included in Appendix D. The report indicates that bedrock (refusal) appears to be at a depth of approximately 10 to 12 feet in this area and that groundwater was found at depths ranging from about 5 to 8 feet. FACT Technical Service was contacted but has no other information on this project.

Three geologic maps that were developed for the Monroe County Environmental Management Council by Young (2/80) were obtained. These maps cover all of Monroe County, and are entitled "Generalized Groundwater Contour Map," "Overburden Thickness

Map," and "Subsurface Bedrock Contour Map." The approximate location of the Erdle facility on these maps was determined. These maps indicate that typical overburden thickness in this general area is 20 to 30 feet, and that groundwater depths range from 0 to 15 feet.

A New York State Department of Transportation map was also obtained. This map contains some soil characteristic information generated during the construction of Route 490. In addition, a book entitled Soil Survey of Monroe County, New York, by Heffner and Goodman, which contains information on prevailing soils in the area was reviewed. Unfortunately, the information in these resources was too general in nature to be useful in determining the particular geology prevailing in the specific area of Erdle's waste tanks. Therefore, site-specific information must be generated to fully evaluate this situation.

Observations of the pit floor indicate that the clay layer was not completely penetrated during installation or removal of the tanks. The pit floor was approximately 6.5 feet below grade, and consisted of an 8' x 18' concrete slab surrounded by hard clay. During the soil sampling conducted in January, 1987, this clay layer was found to extend to a depth of at least eight feet (refer to February, 1987 report entitled "Soil and Groundwater Sampling Report"). This clay layer may assist in impeding vertical migration of the solvent toward bedrock.

V. ACTION ITEMS

The potential exists for solvent migration through or along the discharge pipe from the cooling water basin to the stream tributary. Therefore, the following action items should be implemented immediately to mitigate the potential for movement of solvent through this preferred path of migration.

1. Redirect the cooling water directly to the stream. The cooling water is presently discharged to the cooling water basin near the former waste tank area.
2. Remove the cooling water basin and pipeline from the ground. The basin and pipe should be sent to a sanitary landfill for disposal. Excavated soils should be replaced and compacted. Soil samples from the excavated trench should be collected and analyzed to determine if solvent migration actually occurred along this path.

VI. SUMMARY:

Three underground tanks were removed from service at Erdle Perforating Company. A waste trichloroethene accumulation tank and a waste oil accumulation tank were removed from a common pit at the southwest corner of the building. A fresh oil storage tank located east of the waste tanks was also removed.

Six holes were found in the west end of the north side of the waste trichloroethene tank. The holes were three to four feet above the bottom of the tank. The waste oil and fresh oil tanks appeared in good condition. The clay layer below the waste tanks appeared to be intact, and an 8' x 18' concrete slab was found in the floor of the pit.

Approximately one hundred cubic yards of soil were excavated from the waste tank pit, and two cubic yards were removed from the fresh oil tank pit. All soils, debris, and liquids were transported off-site for disposal as F001 hazardous wastes.

Sampling conducted in the waste tank pit revealed that chlorinated solvents are present in the soils surrounding the pit.

Surface water and sediment samples were collected at the facility. Chlorinated solvents were found only at the location nearest the waste tanks (Location B, Figure 3). A cooling water basin is located next to the waste trichloroethene tank location. This basin discharges to the stream tributary and through stream sampling Location B. Infiltration of groundwater into this basin may have provided a direct route for solvents to migrate from the waste tank area to the stream tributary. In order to mitigate this potential problem, the cooling water should be piped directly to the stream, and the cooling water basin and discharge pipe should be removed from the ground.