



Transmitted Via Federal Express

April 17, 2006

Mr. Bert W. Finch
New York State Electric & Gas Corporation
Corporate Drive, Kirkwood Industrial Park
P.O. Box 5227
Binghamton, New York 13902-5227

Re: Oneonta Former MGP Site
Pre-Design Investigation Summary Report
BBL Project #: 0130.13042 #5

Dear Mr. Finch:

This letter report summarizes the work conducted and presents the data collected during the Pre-Design Investigation (PDI) conducted at the Western Plant Area of the former Manufactured Gas Plant (MGP) site located in Oneonta, New York. The PDI was conducted from November 9 to December 23, 2005 in accordance with the New York State Department of Environmental Conservation- (NYSDEC-) approved PDI Work Plan dated October 20, 2005. The purpose of the PDI was to obtain additional information required for design of the NYSDEC-selected remedy as presented in the March 2005 Record of Decision (ROD) for the site. The PDI activities were conducted in the Mill Race Creek and Western Plant Area (i.e., portion of former MGP property located west of James Georgeson Avenue), and included the following tasks:

1. Geotechnical Investigation;
2. Nonaqueous Phase Liquid (NAPL) Investigation Beneath Mill Race Creek;
3. Groundwater Vertical Gradient Evaluation Beneath Mill Race Creek;
4. Subsurface Soil Investigation near the Existing 30-inch Diameter Sanitary Sewer; and
5. Management of Investigation-Derived Wastes (IDW).

Tasks 1 through 5 are described below.

Task 1 - Geotechnical Investigation

Field activities associated with the geotechnical investigation were conducted from November 9 through December 7, 2005 and consisted of drilling 12 geotechnical borings. The borings were drilled and sampled in accordance with the PDI Work Plan. Eleven of the geotechnical soil borings (BH-1 through BH-9, BH-11, and BH-12) were drilled along the perimeter of the Western Plant excavation area, and one boring (BH-13) was drilled in the central portion of the excavation area, as shown on Figure 1 (Boring Location Plan). Geotechnical boring BH-10 was originally proposed to be drilled behind the former Air

Sparge/Soil Vapor Extraction (SVE) Treatment Building located on the western portion of the parcel; however, due to the steep slope of the bank behind the building, this boring could not be drilled. BBL's geotechnical engineer evaluated the need for this boring and, based on conditions encountered in completed borings (including those from nearby boring SB-305), determined that BH-10 could be eliminated from the program. At the request of New York State Electric & Gas Corporation (NYSEG), BBL field personnel used NYSEG's Global Positioning System (GPS) equipment to horizontally locate the new borings. Ground surface elevations at each of the borings were not determined. Boring locations and ground surface elevations should be determined by a surveyor prior to design of the excavation support system that will be needed to implement the selected remedy. According to NYSEG, the horizontal accuracy of the GPS equipment could be expected to be between 1 to 3 meters. The approximate locations of the borings are shown on Figure 1.

SJB Services, Inc. (SJB) was subcontracted by BBL to perform the drilling associated with the PDI. The borings were drilled using 4.25-inch I.D. hollow-stem augers (HSAs) to an average depth of approximately 45 feet below ground surface (bgs). Standard penetration tests (SPTs) were performed in each boring according to ASTM Method 1586. SPTs were conducted at standard (i.e., nominal 5-foot) intervals from 0 to approximately 15 feet below ground surface (bgs), and then continuously from approximately 15 feet bgs to the bottom of the boring. SPT samples were collected and visually classified for engineering purposes by BBL.

A total of 38 soil samples were selected for shipment to Parratt Wolff, Inc. (Parratt Wolff) for analysis of the geotechnical parameters specified in the PDI Work Plan. Based on the soil types encountered, BBL's geotechnical engineer determined that Shelby Tube samples were not necessary. The geotechnical laboratory test data are provided in Attachment A. Upon receipt from the laboratory, the geotechnical test data were used to adjust and refine the visual soil classifications contained on the boring logs, which are provided in Attachment B.

BBL prepared two geologic cross-sections through the Western Plant excavation area. Figure 2 depicts the cross-section transects, while Figures 3 and 4 present the cross-sections.

Task 2 – Nonaqueous Phase Liquid (NAPL) Investigation Beneath Mill Race Creek

From December 7 through 23, 2005, a total of seven borings were drilled to better delineate the vertical and horizontal extent of NAPL beneath Mill Race Creek. As previously described in Task 1, BBL field personal used NYSEG's GPS to locate the new borings. Five of the borings (SB-301, SB-302, SB-303, SB-304, and SB-305) were drilled to the top of the silt-and-fine-sand confining layer (ranging from 10 to 14 feet below the creek bed). Based on the observed presence of NAPL in borings SB-301, SB-303, and SB-304, two additional delineation borings (SB-310 and SB-311) were drilled. Boring SB-310 was drilled to a depth of 27 feet below the creek bed to investigate the presence/absence of NAPL, as well as to characterize geological conditions at deeper intervals beneath the creek. Boring SB-310 was selected as the deeper creek boring due to the access to the shoreline at that location. NAPL was not observed at these two borings. The locations of the creek borings and the locations of observed NAPL are shown on Figure 5. NAPL was observed in borings SB-301 (at 6 to 8 feet bgs), SB-303 (at 4 to 8 feet bgs), and SB-304 (at 8 to 10 feet bgs).

The borings were drilled using a tripod-mounted drilling rig using the "drive-and-wash" method. Due to the amount of water in Mill Race Creek during drilling, the tripod-mounted drill rig was mounted on a floating barge. Continuous split spoon sampling was conducted. Borings were drilled and sampled in

accordance with the Field Sampling Plan (FSP) and Quality Assurance/Sampling and Analysis Project Plan (QA/SAPP). Each soil sample was visually characterized for soil type, grain size, moisture, and for evidence of NAPL. A portion of each sample was placed in a container for headspace screening using a field photoionization detector (PID). One sample was collected from each soil boring (from the interval that contained the highest headspace screening result), submitted to Severn Trent Laboratories (STL), located in Amherst, New York, and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and polycyclic aromatic hydrocarbons (PAHs). The analytical results are summarized in Table 1.

Task 3 - Groundwater Vertical Gradient Investigation Beneath Mill Race Creek

In accordance with the PDI Work Plan, three piezometers (PZ-1-05, PZ-2-05, and PZ-3-05) were installed into the Mill Race Creek bed to evaluate the vertical gradient of groundwater beneath the creek. The piezometers were installed at the locations of soil borings SB-305, SB-303, and SB-310, respectively, as shown on Figure 1.

Each of the 2-inch diameter piezometers was constructed with a black steel pipe, a stainless steel well point, and a screen approximately 1.2 feet in length. The bottom of each screen is 0.5-foot above the bottom of the well point. The screen in PZ-2-05 (6.8 to 8.0 feet bgs) was placed at a depth just above the surface of the silt-and-fine-sand confining layer. The screen in PZ-3-05 (8.8 to 10.0 feet bgs) was placed just below the surface of this layer. The screen in PZ-1-05 (5.8 to 7.0 feet bgs) was placed at a depth approximately half the distance from the surface water to the confining layer. The construction details of the piezometers are presented on the boring logs (Attachment B).

After installation, water levels were collected from the three piezometers on December 23, 2005. Collection of water levels from the piezometers will continue during three additional site visits that will be conducted every other month (February, April, and June 2006). A summary of the groundwater vertical gradient data will be submitted under separate cover as an addendum to this letter report.

Task 4 - Subsurface Soil Investigation Near the Existing 30-inch Diameter Sanitary Sewer

On December 7 and 8, 2005, BBL drilled three soil borings (SB-306, SB-307, and SB-308) near the 30-inch diameter subsurface sanitary sewer that crosses the creek near the southwest portion of the Western Plant Area. Before drilling the borings, NYSEG's excavation contractor, Sevenson Environmental Services, Inc., confirmed the location of the 30-inch sanitary sewer pipe using an excavator. The objective of this task was to assess whether NAPL existed near the sewer pipe and if the presence of the pipe will affect the location/design of the sheetpile.

Based on the location of the sanitary sewer, the locations for the soil borings were selected. Each of the soil borings was located approximately three to five feet from the eastern edge of the sanitary sewer, as shown on Figure 1. The attached figures have been modified to indicate that sheetpile will not be installed on the northwestern side of the sanitary sewer. Soil boring SB-309, as shown in the PDI Work Plan, could not be drilled because of lack of access to the proposed location. The NYSDEC onsite representative concurred that soil borings SB-306, SB-307, and SB-308 provided sufficient information regarding the extent of NAPL in the area proximate to the 30-inch diameter sanitary sewer pipeline, and that SB-309 was not required. Based on the boring data and observations made during the investigation, the onsite NYSDEC representative concluded that, in terms of the remedial design, excavation would not be required on the northwestern side of the sanitary sewer (i.e., the side of the pipe opposite the site).

Each of the soil borings was drilled to the top of the silt-and-fine-sand confining layer. The borings were drilled using 4.25-inch I.D. HSAs. The borings were drilled and sampled in accordance with the FSP and QA/SAPP. Soil samples were collected continuously at 2-foot intervals. Each soil sample was visually characterized for soil type, grain size, moisture, and for evidence of NAPL. A portion of each sample was placed in a container for headspace screening using a field PID. The soil sample with the highest headspace reading from each boring was analyzed for BTEX and PAHs. The analytical data are summarized in Table 1. The boring logs are provided in Attachment B. As previously discussed, BBL field personal used NYSEG's GPS to locate the new borings.

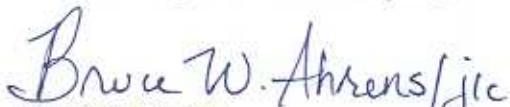
Task 5 - Management of Investigation-Derived Wastes (IDW)

IDW were managed by containing them and staging them in the Western Plant Area. IDW consisted of drill cuttings, drilling fluids (water pumped from "drive-and-wash" borings), and decontamination water. The drilling fluids and decontamination water were contained in 55-gallon drums. Drill cuttings were contained in a polyethylene-lined storage area located in the Western Plant Area and covered with polyethylene sheeting. NYSEG disposed of the IDW along with the soils and fluids generated during the Eastern Plant Area remedial activities, which were occurring during the PDI. Those remedial activities are described in the *Remedial Design Work Plan For Removal and Off-Site Disposal of Coal Tar Impacted Soil On the Eastern Plant Area*, prepared by NYSEG and dated May 2005.

Please feel free to contact me at (585) 385-0090, extension 34 with any questions or comments that you may have.

Sincerely,

BLASLAND, BOUCK & LEE, INC.



Bruce W. Ahrens

Associate, Senior Project Manager

JLW/ams
Attachments

cc: Mr. Frederick J. Kirschenheiter, P.E., Blasland, Bouck & Lee, Inc.
Ms. Margaret A. Carrillo-Sheridan, P.E., Blasland, Bouck & Lee, Inc.
Mr. Keith A. White, Blasland, Bouck & Lee, Inc.
Mr. Douglas L. Musser, P.G., Blasland, Bouck & Lee, Inc.
Mr. Douglas Cowin, Blasland, Bouck & Lee, Inc.

Table

TABLE 1
ONEONTA FORMER MGP SITE
ONEONTA, NEW YORK

PRE-DESIGN INVESTIGATION ANALYTICAL RESULTS

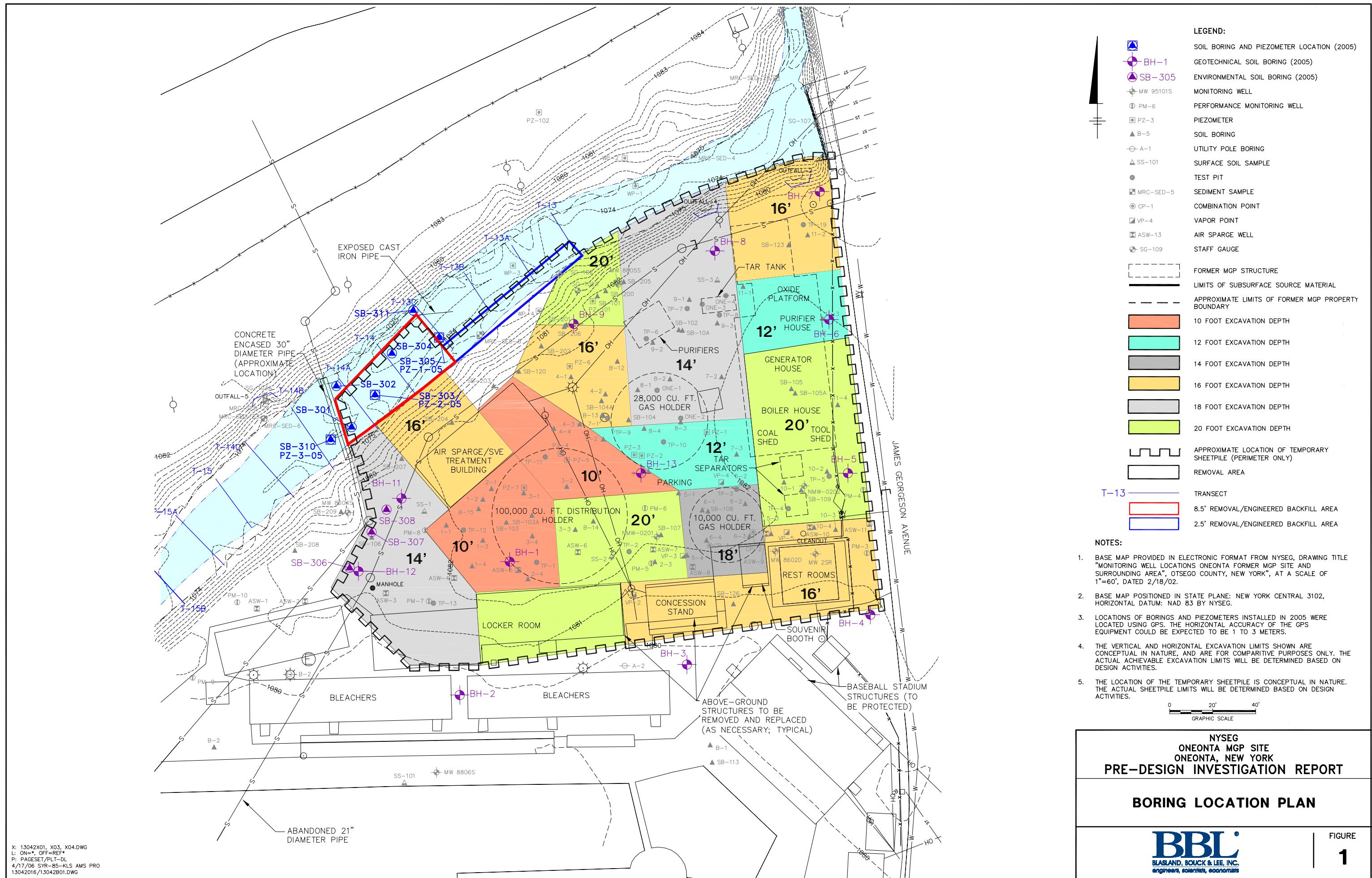
Sample ID: Location ID: Sample Depth(Feet): Date Collected:	Units	OGBOBM68301 SB-301 6 - 8 12/15/05	OGBOBM68302 SB-302 6 - 8 12/14/05	OGBOBM68303 SB-303 6 - 8 12/21/05	OGBOBM810304 SB-304 8 - 10 12/22/05	OGBOBM810305 SB-305 8 - 10 12/22/05	OGBOBM810306 SB-306 8 - 10 12/07/05	OGBOBM810307 SB-307 8 - 10 12/08/05	OGBOBM810308 SB-308 8 - 10 12/08/05	OGBOBM68310 SB-310 6 - 8 12/19/05	OGBOBM810311 SB-311 8 - 10 12/23/05
BTEX by EPA Method 8260											
Benzene	mg/kg	0.044	0.002 J	0.004 J	0.44 DJ	0.005 U	0.005 UJ	0.23 EJ	0.11	0.002 J	0.003 J
Ethylbenzene	mg/kg	0.34 D	0.006	0.087	1.9 D	0.005 U	2.1 D	12 DJ	0.16	0.007	0.008
Toluene	mg/kg	0.002 J	0.006 U	0.002 J	0.014	0.005 U	0.004 J	0.031 J	0.006	0.005 U	0.002 J
Total Xylenes	mg/kg	0.16	0.004 J	0.092	0.54	0.016 U	4.2 D	5.1 DJ	0.29	0.003 J	0.005 J
Total BTEX	mg/kg	0.546 J	0.012 J	0.185 J	2.89 J	ND	6.3 J	17 J	0.566	0.012 J	0.018 J
PAHs by EPA Method 8270											
2-Methylnaphthalene	mg/kg	0.55 J	0.12 J	1	1.5	0.36 U	3.4	5.9 J	6 J	0.36 U	0.032 J
Acenaphthene	mg/kg	0.99 J	0.078 J	0.83	0.46	0.36 U	4.1 J	29	38	0.025 J	0.057 J
Acenaphthylene	mg/kg	0.84 J	0.075 J	0.37 J	0.63	0.36 U	1.1	6.8 J	4.3 J	0.36 U	0.36 U
Anthracene	mg/kg	0.61 J	0.1 J	1.1	0.65	0.034 J	3	14	17	0.022 J	0.36 U
Benzo(a)anthracene	mg/kg	3.1	0.075 J	1.4	0.35 J	0.11 J	1.9	10	12	0.036 J	0.36 U
Benzo(a)pyrene	mg/kg	2.2	0.078 J	0.88	0.28 J	0.1 J	1.7	9	9	0.023 J	0.36 U
Benzo(b)fluoranthene	mg/kg	1.6 J	0.055 J	0.94	0.26 J	0.17 J	1.7	9.6	9.8	0.031 J	0.36 U
Benzo(ghi)perylene	mg/kg	1 J	0.028 J	0.44	0.12 J	0.068 J	0.65	4.8 J	4.5 J	0.36 U	0.36 U
Benzo(k)fluoranthene	mg/kg	0.64 J	0.35 U	0.96	0.076 J	0.17 J	1.7	9.9	10	0.36 U	0.36 U
Chrysene	mg/kg	2.7	0.059 J	1.4	0.27 J	0.11 J	1.6	9	8.8	0.035 J	0.36 U
Dibenzo(a,h)anthracene	mg/kg	0.25 J	0.35 U	0.13 J	0.041 J	0.02 J	0.16 J	0.93 J	1.1 J	0.36 U	0.36 U
Dibenzofuran	mg/kg	0.11 J	0.023 J	0.068 J	0.12 J	0.36 U	0.25 J	1.8 J	2.3 J	0.36 U	0.36 U
Fluoranthene	mg/kg	2.4	0.16 J	2	0.78	0.29 J	4.8	24	25	0.098 J	0.36 U
Fluorene	mg/kg	0.66 J	0.1 J	0.45	0.63	0.022 J	2.9	16	19	0.028 J	0.031 J
Indeno(1,2,3-cd)pyrene	mg/kg	0.71 J	0.025 J	0.32 J	0.098 J	0.058 J	0.53	3.5 J	3.4 J	0.36 U	0.36 U
Naphthalene	mg/kg	4.2	0.21 J	2.7	2.6	0.027 J	7 D	51 J	2.3 J	0.22 J	0.17 J
Phenanthrene	mg/kg	1.2 J	0.38	2.6	1.9	0.13 J	12 D	53	60	0.072 J	0.026 J
Pyrene	mg/kg	3.5	0.19 J	2.4	0.86	0.22 J	8 DJ	36	36	0.078 J	0.36 U
Total PAHs	mg/kg	27.3 J	1.76 J	20 J	11.6 J	1.53 J	56.5 J	294 J	269 J	0.668 J	0.316 J

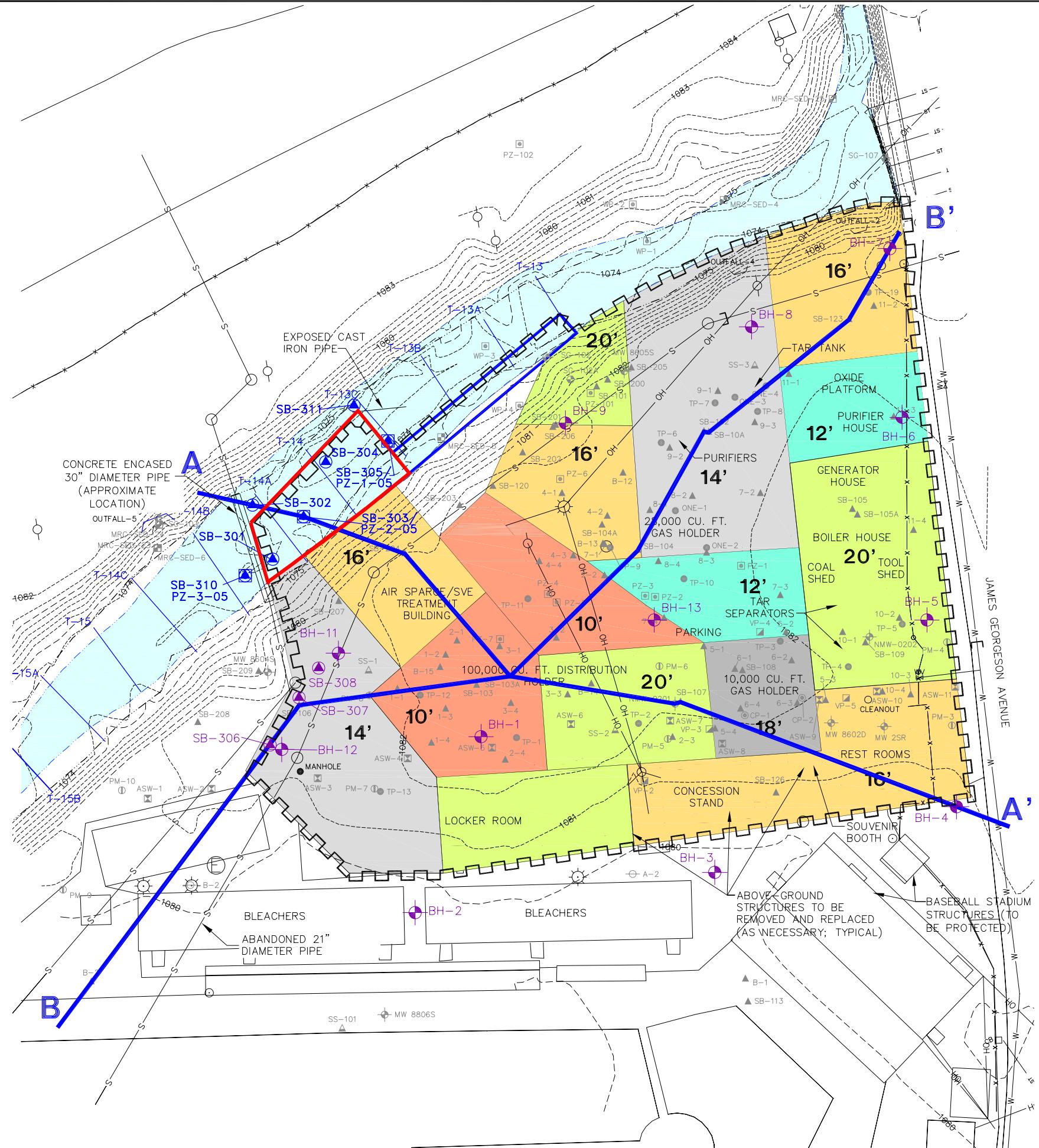
Notes:

1. Samples collected by Blasland, Bouck & Lee, Inc.
2. BTEX = benzene, toluene, ethylbenzene, and xylene compounds.
3. PAHs = Polycyclic aromatic hydrocarbons.
4. ND = Not detected.
5. U indicates the compound was analyzed for but not detected at concentrations greater than the associated laboratory detection limit
6. J indicates an estimated value.
7. D indicates compound identified in an analysis at the secondary dilution factor.
8. E indicates compound quantified above the calibration range.
9. Laboratory analysis conducted by Severn Trent Laboratories located in Amherst, New York.
10. mg/kg = milligrams per kilograms

Figures

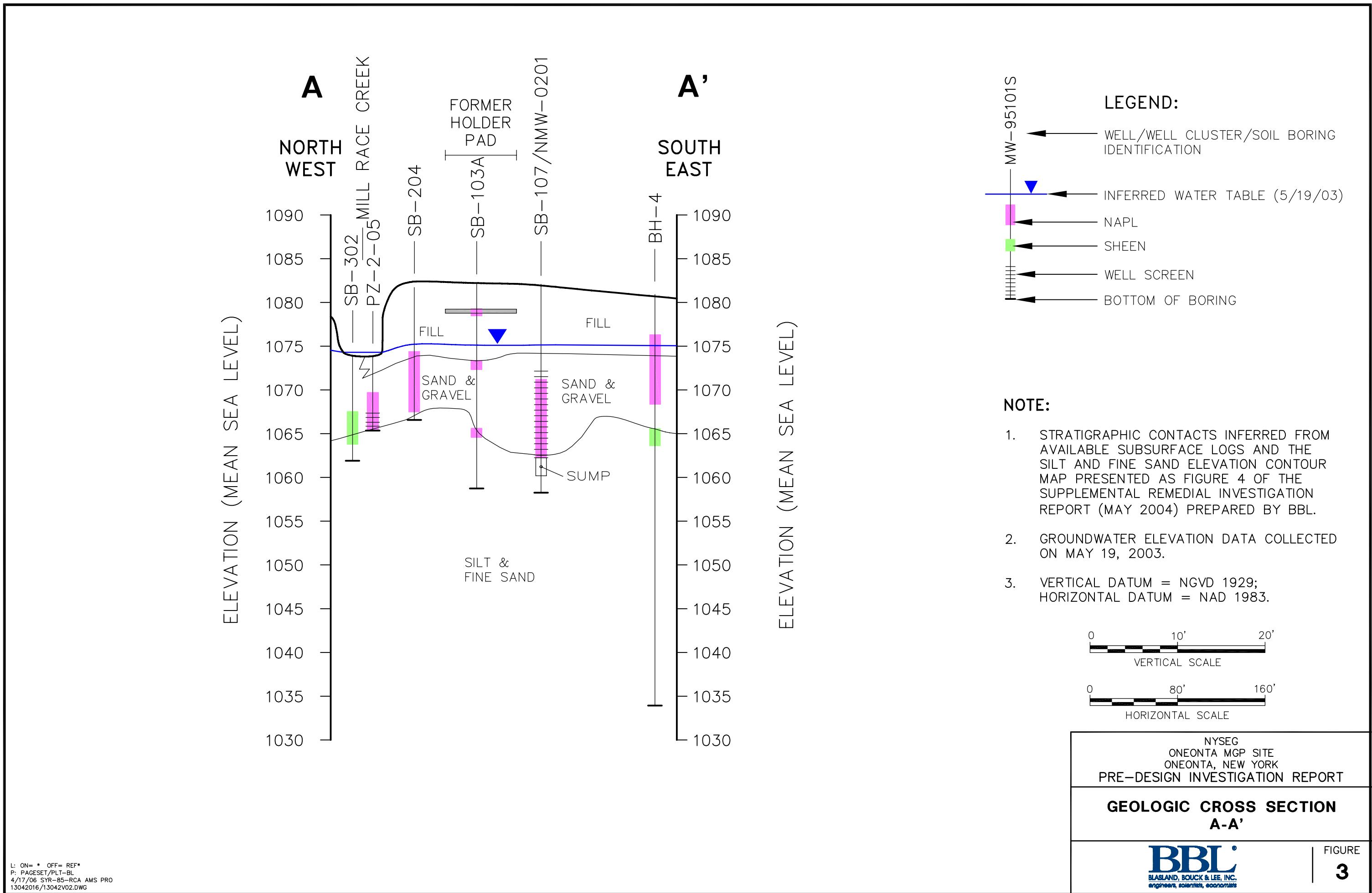


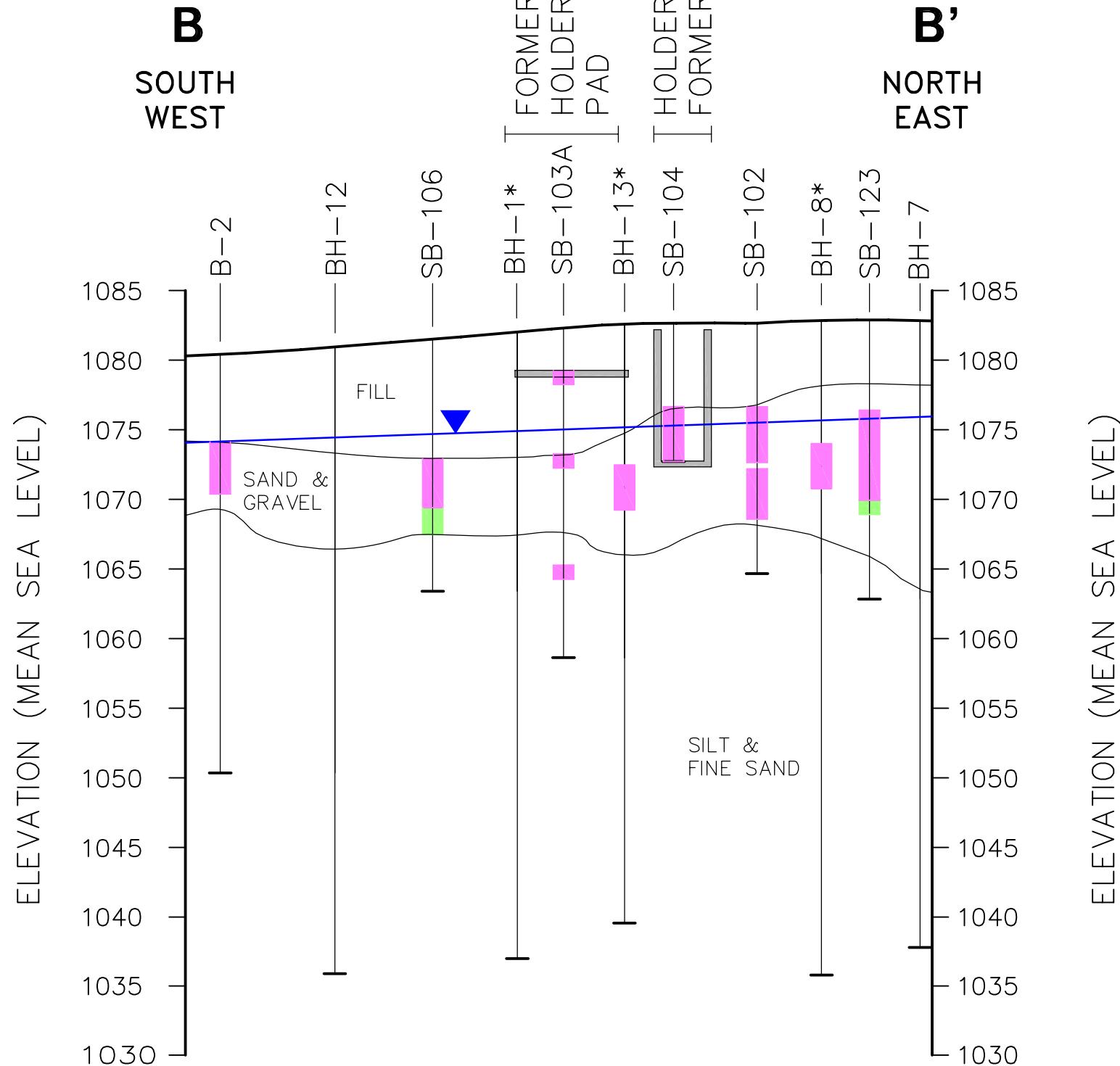


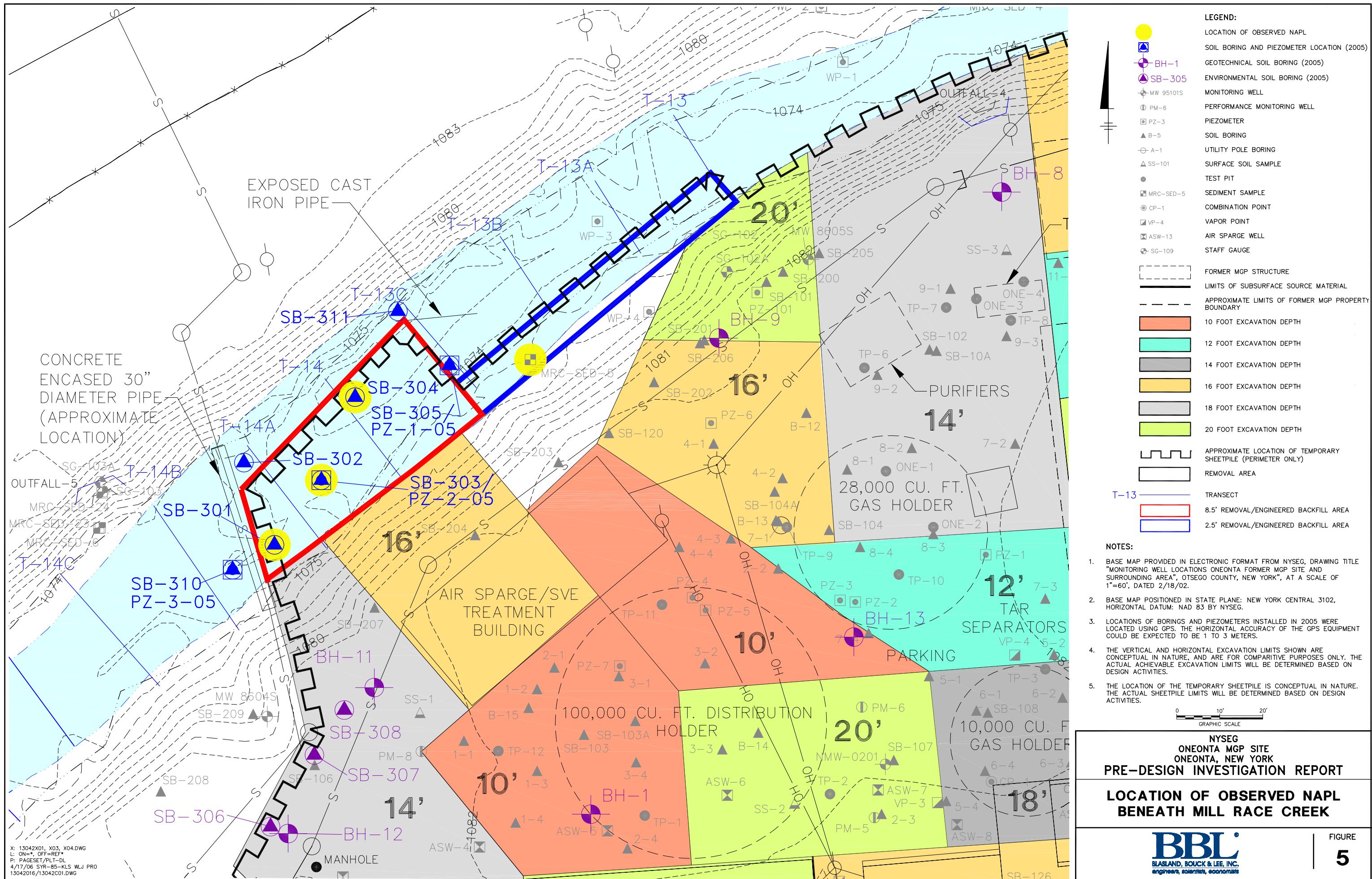


NYSEG ONEONTA MGP SITE ONEONTA, NEW YORK PRE-DESIGN INVESTIGATION REPORT

GEOLOGIC CROSS SECTIONS- TRANSECT LOCATIONS







Attachment A

Geotechnical Laboratory Data





PW LABORATORIES, INC.
P.O. BOX 56, 5879 FISHER ROAD, EAST SYRACUSE, NY 13057
315-437-1420 • 866-7PW-LABS • Fax 315-437-1752

January 30, 2006

Mr. Phil Bergmeier
Blasland Bouck & Lee, Inc.
6723 Towpath Road
P.O. Box 66
Syracuse, New York 13214-0066

Page One of Two

Re: L-06003
Laboratory Testing
NYSEG
Oneonta Former MGP Site
Oneonta, New York
File #0130.13042 #1

Dear Mr. Bergmeier:

Enclosed are the results of laboratory testing performed at your request on thirty-eight jar soil samples delivered to our laboratory on January 6, 2006 for the above referenced project. Results include:

- | | | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1. | Natural Moisture Content ASTM D2216
Laboratory I.D. #19880- 19890, 19892-19901, 19903-19917 | 32 each |
| 2. | Sieve Analysis ASTM D422 & D1140
Laboratory I.D. #19880- 19896, Composite 19897-19899,
19900-19903, 19906-19914 | 31 each |
| 3. | Hydrometer Anaylsis ASTM D422
Laboratory I.D. #19882, 19883, 19885, 19886, 19888, 19889, 19891,
19893, 19895, Composite 19897-19899, 19900, 19902, 19903, 19906,
19907, 19910, 19912, 19913, 19914 | 19 each |
| 4. | Atterberg Limits ASTM D4318
Laboratory I.D. #19882, 19883, 19891, 19902, 19906, 19914 | 6 each |
| 5. | Specific Gravity ASTM D854
Laboratory I.D. #19882, 19889, 19892, Composite 19897-19899,
Composite 19904-19905, 19910, Composite 19915-19917 | 7 each |
| 6. | Hydraulic Conductivity- Flexible Wall ASTM D5084
Laboratory I.D. #19893, Composite 19904-19905, 19907 | 3 each |



January 30, 2006
Blasland Bouck & Lee, Inc.

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Re: L-06003
Laboratory Testing
NYSEG
Oneonta Former MGP Site
Oneonta, New York
File #0130.13042 #1

7. Direct Shear Test ASTM D3080
Laboratory I.D. #Composite 19897-19899, Composite 19915-19917 2 each

All requested tests have been completed on the previously received sample(s) for the above project. All sample remains are scheduled to be disposed of on March 1, 2006. Please notify PW Laboratories, Inc. by letter or telephone prior to March 1, 2006 if you would prefer to pick up the sample(s) or that the sample(s) be retained by PW Laboratories, Inc. for an additional period of time.

Thank you for this opportunity to work with you.

Very truly yours,

PW LABORATORIES, INC.

A handwritten signature in cursive script.

Virginia J. Thoma
Manager - Laboratory Services
VJT/klw
encs:



PW LABORATORIES, INC.

P.O. BOX 55, 5879 FISHER ROAD, EAST SYRACUSE, NY 13057
315-437-1420 • 866-7PW-LABS • Fax 315-437-1752

January 30, 2006

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L-06003
Laboratory Testing
NYSEG
Oneonta Former MGP Site
Oneonta, New York
File #0130.13042 #1

NATURAL MOISTURE CONTENT
ASTM D2216

<u>Lab I.D. #</u>	<u>Boring #</u>	<u>Depth (feet)</u>	<u>Moisture Content as a Percent of Dry Weight</u>
19880	BH-1	10.0-12.0	9.6
19881	BH-1	15.0-17.0	23.6
19884	BH-2	16.0-18.0	17.4
19885	BH-2	35.0-37.0	24.4
19886	BH-2	45.0-47.0	24.0
19888	BH-3	21.0-23.0	27.8
19889	BH-3	39.0-41.0	29.2
19890	BH-4	15.0-17.0	26.5
19892	BH-4	40.0-42.0	26.9
19893	BH-5	21.0-23.0	26.5
19894	BH-6	15.0-17.0	21.8
19895	BH-6	35.0-37.0	24.5
19896	BH-7	17.0-19.0	13.2
19897	BH-7	19.0-21.0	27.4
19898	BH-7	21.0-23.0	27.7
19899	BH-7	23.0-25.0	21.9
19900	BH-7	31.0-33.0	27.1
19901	BH-8	10.0-12.0	8.8
19903	BH-8	45.0-47.0	26.6
19904	BH-9	15.0-17.0	11.5
19905	BH-9	17.0-19.0	18.2
19907	BH-9	37.0-39.0	22.7
19908	BH-11	15.0-17.0	23.1
19909	BH-11	20.0-22.0	26.8
19910	BH-11	30.0-32.0	30.0



PW LABORATORIES, INC.
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315-437-1420 • 866-7PW-LABS • Fax 315-437-1752

January 30, 2006

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L-06003
Laboratory Testing
NYSEG
Oneonta Former MGP Site
Oneonta, New York
File #0130.13042 #1

NATURAL MOISTURE CONTENT
ASTM D2216

<u>Lab I.D. #</u>	<u>Boring #</u>	<u>Depth</u> (feet)	<u>Moisture Content as a Percent of Dry Weight</u>
19911	BH-12	15.0-17.0	24.9
19912	BH-12	27.0-29.0	25.3
19913	BH-12	41.0-43.0	24.6
19914	BH-13	21.0-23.0	27.9
19915	BH-13	31.0-33.0	25.0
19916	BH-13	33.0-35.0	24.9
19917	BH-13	35.0-37.0	26.5



PW LABORATORIES INC.
P.O. BOX 58, 5879 FISHER ROAD, EAST SYRACUSE, NY 13057
315-437-1420 • (866) 7PW-LABS • FAX 315-437-1752

SIEVE ANALYSIS OF
SOIL / AGGREGATE

PROJECT TITLE

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File #0130.13042 #1

PROJECT # L-06003

TEST METHOD ASTM D422 & D1140

Page 1 of 5

REPORT # 1
REPORT DATE January 30, 2006

Sieve Size - Percent Passing Sieve										
Lab ID. #	Boring #	Depth (feet)	1 1/4"	1"	3/4"	1/2"	3/8"	1/4"	#10	#40
19880	BH-1	10.0-12.0	--	--	100	87.4	82.3	66.4	59.8	45.5
19881	BH-1	15.0-17.0	--	--	--	--	--	--	100	99.9
19882	BH-1	29.0-31.0	--	--	--	--	--	--	--	100
19883	BH-1	43.0-45.0	--	--	--	--	--	--	--	--
19884	BH-2	16.0-18.0	--	--	--	--	--	100	96.7	57.3
19885	BH-2	35.0-37.0	--	--	--	--	--	--	--	100
19886	BH-2	45.0-47.0	--	--	--	--	--	--	--	--

Sample mass, as received, meets minimum mass requirements of test method:

Yes No X

Prewashed: Yes No X

Remarks:

Performed By: SC, AM

Checked By: V.J. Thoma



PW LABORATORIES INC.
P.O. BOX 56, 5879 FISHER ROAD, EAST SYRACUSE, NY 13057
315-437-1420 • (665) PW-LABS • FAX 315-437-1752

SIEVE ANALYSIS OF
SOIL / AGGREGATE

PROJECT TITLE

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File #0130.13042 #1

PROJECT # L-06003
TEST METHOD ASTM D422 & D1140

Page 2 of 5

REPORT # 1
REPORT DATE January 30, 2006

Sieve Size - Percent Passing Sieve

Lab I.D. #	Boring #	Depth (feet)	1 1/2"	1"	3/4"	1/2"	1/4"	#4	#10	#30	#40	#60	#100	#200		
19887	BH-3	10.0-12.0	--	100	91.5	78.8	65.9	53.6	47.0	33.3	24.2	20.9	19.1	14.4	10.6	
19888	BH-3	21.0-23.0	--	--	--	--	--	--	--	--	--	--	100	99.5	77.1	
19889	BH-3	39.0-41.0	--	--	--	--	--	--	--	100	99.8	99.7	99.6	98.1	78.0	
19890	BH-4	15.0-17.0	--	--	--	--	--	--	--	--	--	--	100	99.2	84.4	
19891	BH-4	30.0-32.0	--	--	--	--	--	--	--	--	--	--	100	96.9	71.3	
19892	BH-4	40.0-42.0	--	--	--	--	--	--	--	--	--	100	99.8	96.4	68.6	
19893	BH-5	21.0-23.0	--	--	--	--	--	--	--	--	--	--	100	99.1	84.2	

Sample mass, as received, meets minimum mass requirements of test method:

Yes _____ No X _____

Remarks:

Performed By: SC, AM
Checked By: V.J. Thoma

Prewashed: Yes X No _____



PW LABORATORIES INC.
PO. BOX 58, 5079 FISHER ROAD, EAST SYRACUSE, NY 13057
315-437-1420 • (866) 7PW-LABS • FAX 315-437-1752

SIEVE ANALYSIS OF
SOIL / AGGREGATE

PROJECT TITLE Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File #0130.13042 #1

PROJECT # L-06003
TEST METHOD ASTM D422 & D1140

Page 3 of 5
REPORT # 1
REPORT DATE January 30, 2006

			Sieve Size - Percent Passing Sieve									
Lab I.D. #	Boring #	Depth (feet)	1 1/2"	1"	1/2"	3/8"	1/4"	#4	#10	#30	#40	#60
19894	BH-6	15.0-17.0	--	100	96.7	92.8	91.6	91.1	90.4	87.0	78.1	72.1
19895	BH-6	35.0-37.0	--	--	--	--	--	100	99.9	99.8	99.7	99.6
19896	BH-7	17.0-19.0	--	100	78.0	63.2	57.1	49.9	44.7	34.1	26.6	22.7
19897-	BH-7	Composite 19.0-25.0	--	--	100	95.8	95.3	95.3	95.1	94.6	94.4	94.3
19899	BH-7	31.0-33.0	--	--	--	--	--	--	--	--	100	99.9
19900	BH-8	10.0-12.0	100	76.9	64.7	57.2	51.4	43.5	40.8	32.7	25.8	23.9
19901	BH-8	20.0-22.0	--	--	--	--	--	--	--	--	100	99.9
19902	BH-8	20.0-22.0	--	--	--	--	--	--	--	--	97.4	

Sample mass, as received, meets minimum mass requirements of test method:

Yes _____ No _____ X _____

Prewashed: Yes _____ X _____ No _____

Performed By: SC, AM

Remarks: _____

Checked By: V.J. Thoma



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SIEVE ANALYSIS OF
SOIL, / AGGREGATE

PROJECT TITLE

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File #0130.13042 #1

PROJECT # L-06003

TEST METHOD ASTM D422 & D1140

Page 4 of 5

REPORT # 1
REPORT DATE January 30, 2006

Sieve Size - Percent Passing Sieve									
Lab I.D. #	Boring #	Depth (feet)	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#10
19903	BH-8	45.0-47.0	--	--	--	--	--	100	99.8
19906	BH-9	35.0-37.0	--	--	--	--	--	--	--
19907	BH-9	37.0-39.0	--	--	--	--	--	--	100
19908	BH-11	15.0-17.0	--	--	--	--	--	--	--
19909	BH-11	20.0-22.0	--	--	--	--	--	--	--
19910	BH-11	30.0-32.0	--	--	--	--	--	100	99.9
19911	BH-12	15.0-17.0	--	--	--	--	--	--	--

Sample mass, as received, meets minimum mass requirements of test method:
Remarks:

Yes _____ No _____

Prewashed: Yes _____ X _____ No _____

Performed By: SC, AM
V.J. Thoma

Checked By: V.J. Thoma



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SIEVE ANALYSIS OF SOIL / AGGREGATE

PROJECT TITLE

Laboratory Testing

NYSER

Oneonta Former MGP Site

Oneonta New York

CHILOE ISLANDS

File #013013042 #1

PROJECT # L-06003

PROJECT # L-06003 TEST METHOD ASTM D422 & D1140

Successive stages of evolution and phylogeny mass requirements of test method:

Yes No X

Yes No

DRAFT

Performed By SC. AN

Checked By: V. I. Thoma

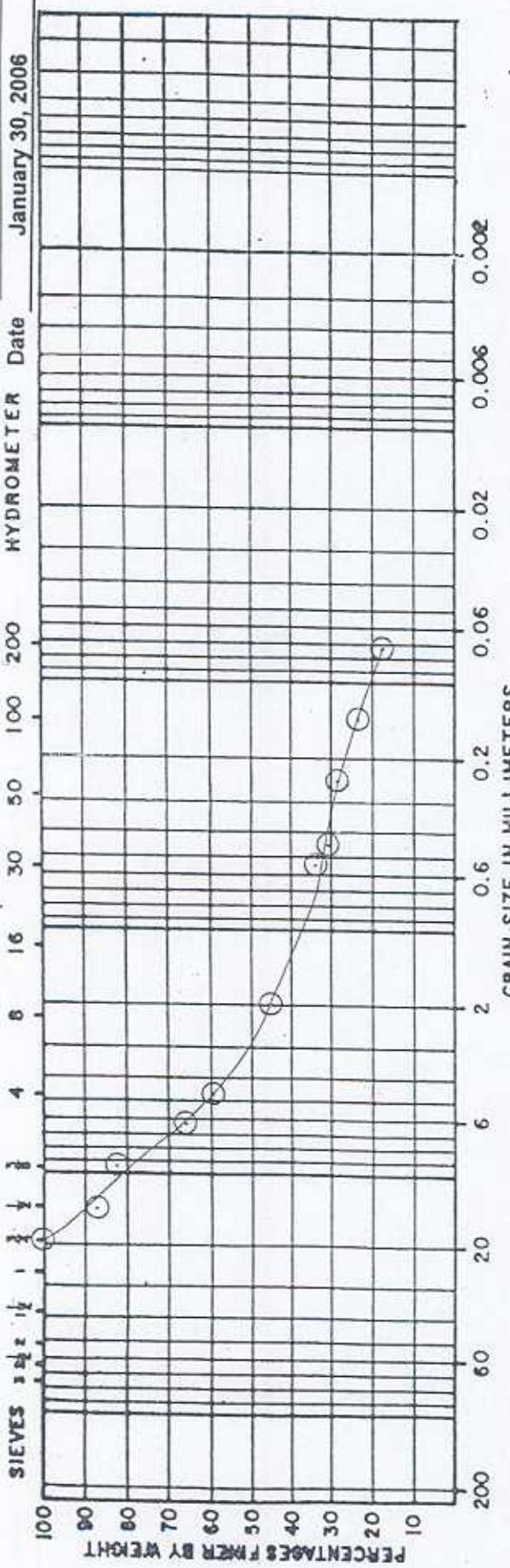
GRAIN SIZE ANALYSIS

Job No.: L-06003

1

Report No:

HYDROMETER Date January 30, 2006



BOULDERS COBBLES	GRAVEL			SAND			SILT - CLAY SOIL		
	C	M	F	C	M	F	C	M	F
228 3 in.	76.2 1 in.	25.4 $\frac{3}{8}$ in.	9.52	2.0	0.59	0.25	0.074	MM.	OPENING SIEVE
	Nos. 10			No. 30		No. 60			200

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130-13042 #1

Lab I.D. # 19880

Boring # BH-1

Depth (Feet): 10.0-12.0

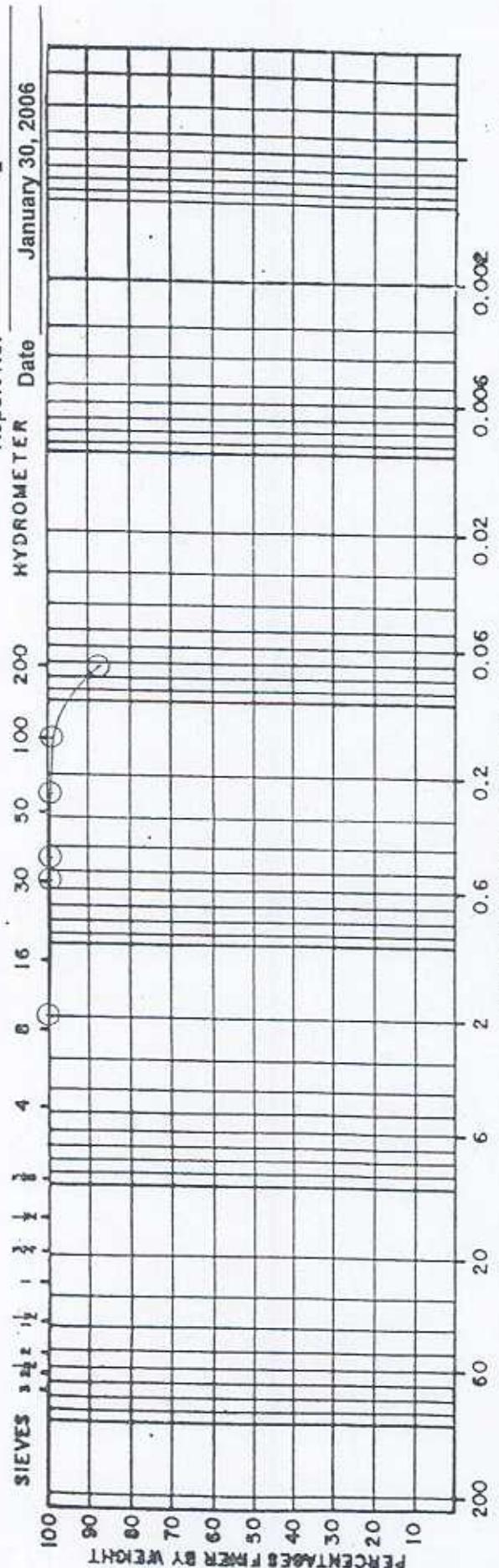
- Steve Analysis ASTM D422 & D1140
- Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

2

Report No:



GRAIN SIZE IN MILLIMETERS						
COULDERS COBBLES	GRAVEL			SAND		SILT-CLAY SOIL
	C	M	F	C	H	
226 3 in.	76.2	25.4	9.52	2.0	0.59	OPENING 3/8 in.
	10	30	60	10	30	SIEVE 200

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

Lab I.D. # 19881

Boring # BH-1

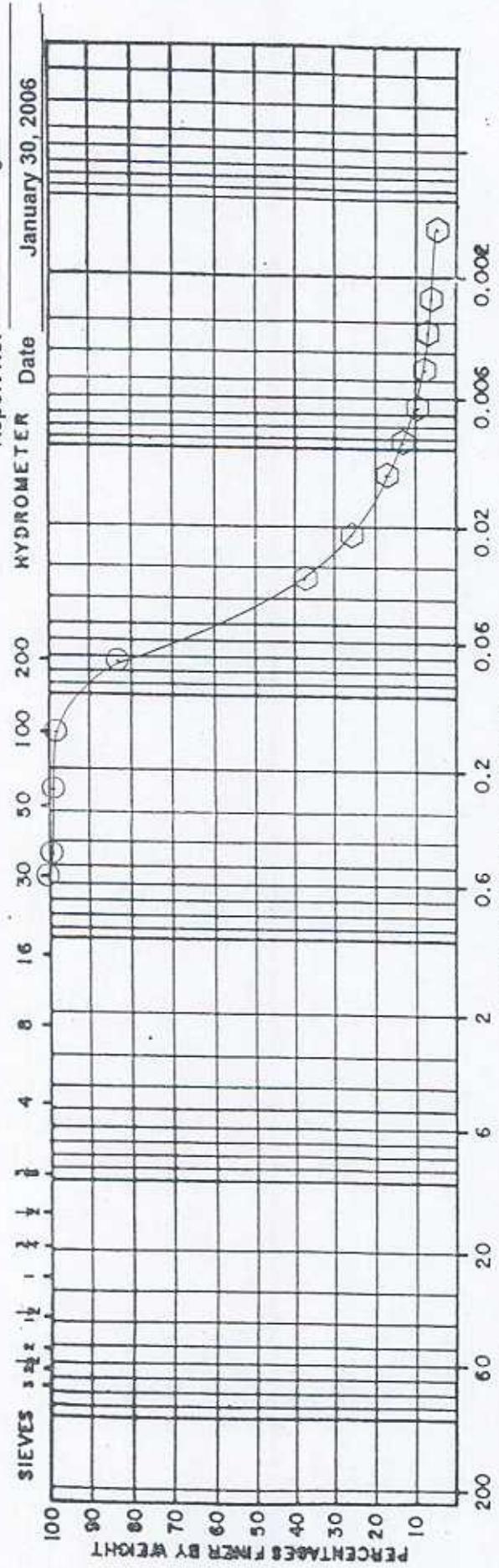
Depth (Feet): 15.0-17.0

- Sieve Analysis ASTM D422 & D1140
- Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 3



		GRAIN SIZE IN MILLIMETERS			SILT - CLAY SOIL	
BOULDERS	COBBLES	GRAVEL	C	SAND	F	
C	M	F	C	H		
228	76.2	25.4	9.52	2.0	0.59	OPENING
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60
					200	200
						SIEVE

Lab I.D. # 19882

Boring # BH-1

Depth (Feet): 29.0-31.0

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

○ Sieve Analysis ASTM D422 & D1140

○ Hydrometer Analysis ASTM D422

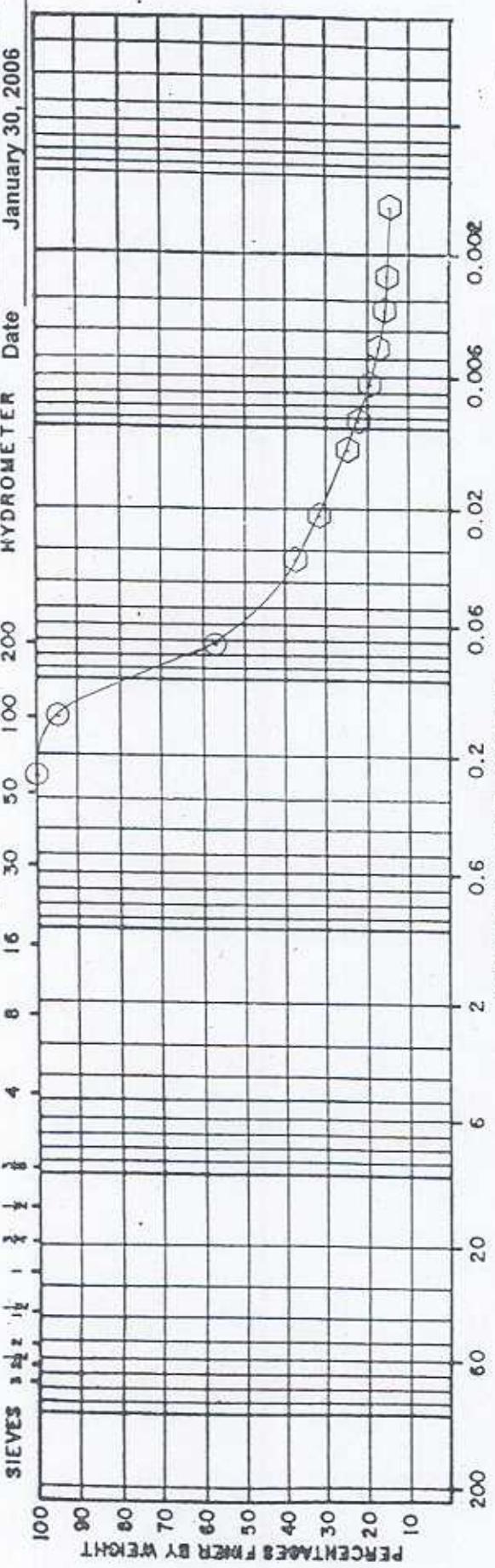
GRAIN SIZE ANALYSIS

Job No.: L-06003

4

Report No.: 4

Date: January 30, 2006



BOULDERS COBBLES	GRAVEL			SAND			SILT - CLAY SOIL		
	C	M	F	C	H	F			
22.8 3 in.	76.2 1 in.	25.4 3/8 in.	9.52	2.0	0.59	0.25	0.074 mm.	OPENING	
				No. 10	30	60	200	SIEVE	

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

Lab I.D. # 19883

Boring # BH-1

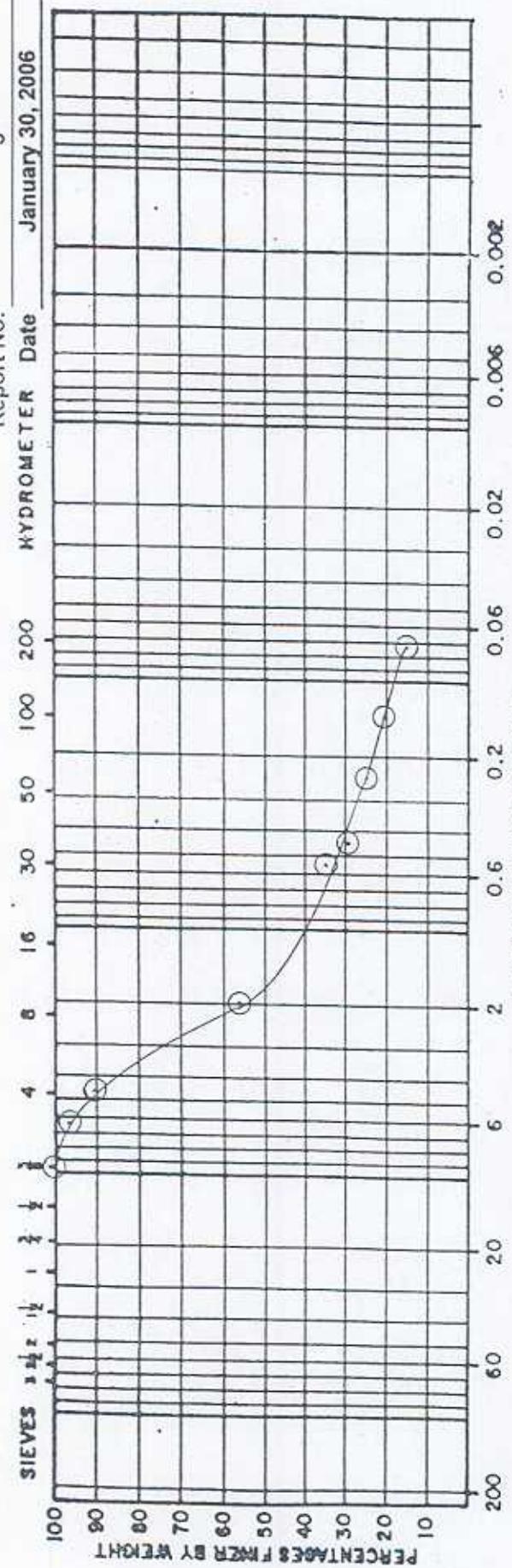
Depth (Feet): 43.0-45.0

- Sieve Analysis ASTM D422 & D1140
- Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No: 5



BOULDERS			GRAVEL			SAND			SILT - CLAY SOIL		
C	M	F	C	M	F	C	M	F	C	M	F
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	0.006	OPENING		
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200	200	SIEVE		

L-06003
 Laboratory Testing
 NYSEG
 Oneonta Former MGP Site
 Oneonta, New York
 File # 0130.13042 #1

Lab I.D. # 19884
 Boring # BH-2
 Depth (Feet): 16.0-18.0

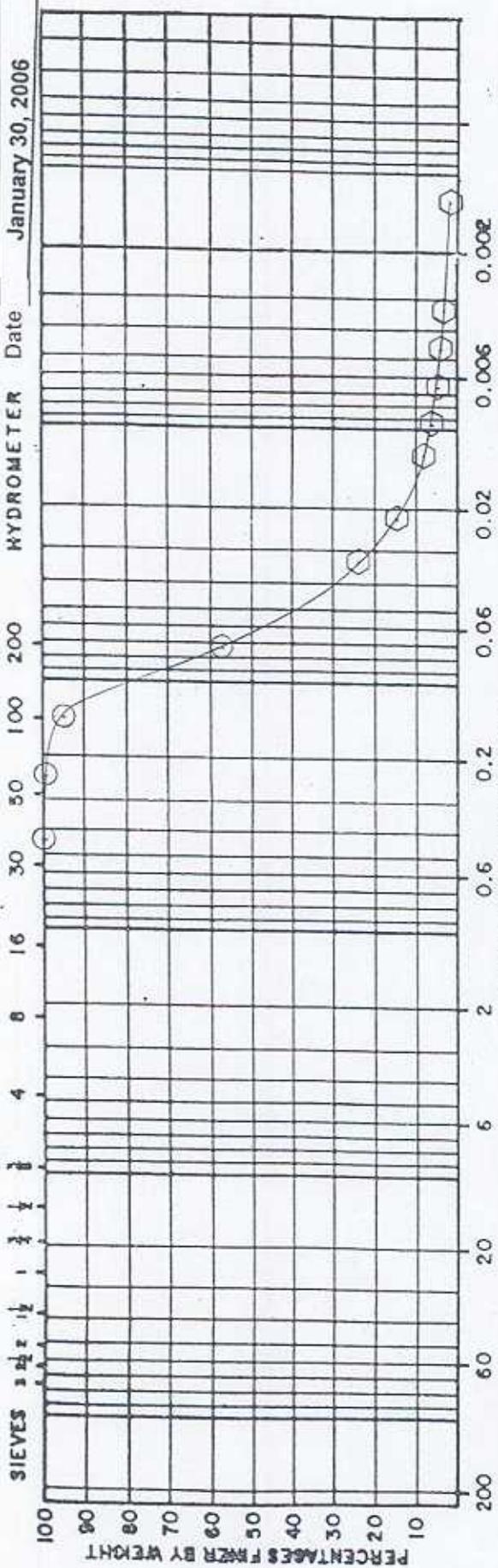
- Sieve Analysis ASTM D422 & D1140
- Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No: 6

HYDROMETER Date January 30, 2006



BOULDERS	COBBLES	GRAVEL	F	C	SAND	H	F	SILT - CLAY SOIL
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM. OPENING

9 in. 3 in. 1 in. 3/8 in. No. 10 30 60 200 SIEVE

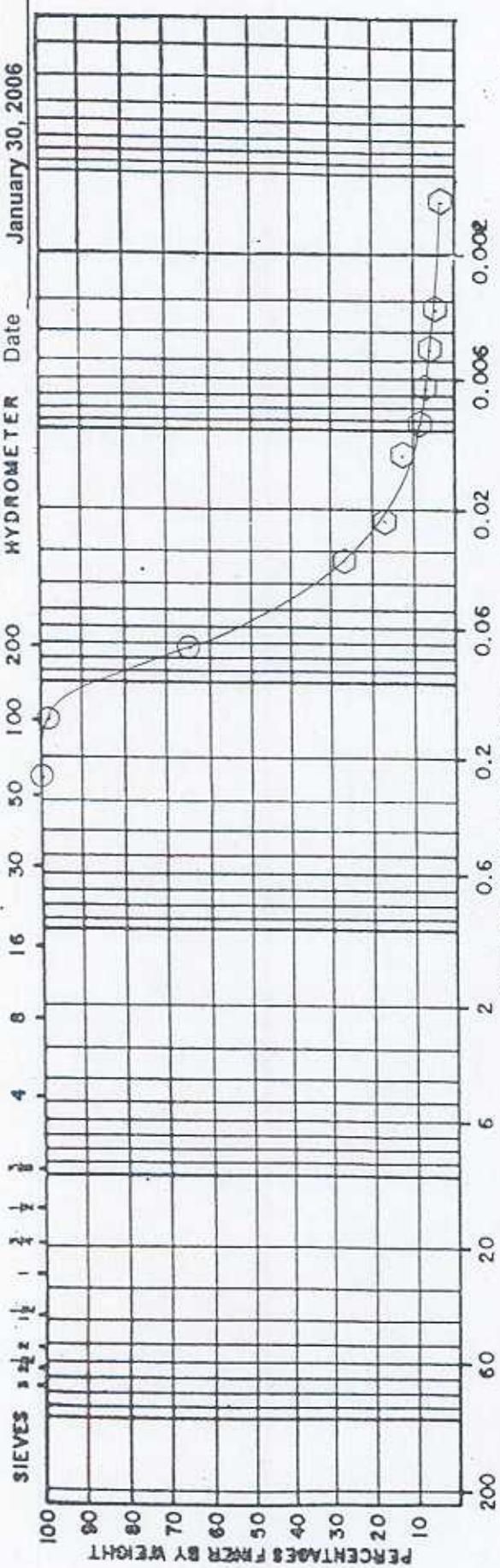
L-06003	Lab I.D. # 19885
Laboratory Testing	Boring # BH-2
NYSEG	Depth (Feet): 35.0-37.0
Oneonta Former MGP Site	
Oneonta, New York	
File # 0130.13042 #1	
○ Sieve Analysis ASTM D422 & D1140	
○ Hydrometer Analysis ASTM D422	

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 7

HYDROMETER Date - January 30, 2006



GRAIN SIZE IN MILLIMETERS									
BOULDERS COBBLES	GRAVEL			SILT - CLAY SOIL					
	C	M	F	C	H	F			
22.8 9 in.	76.2 3 in.	25.4 1 in.	9.52 3/8 in.	2.0 No. 10	0.59 30	0.25 60	0.074 200	MM. 200	OPENING SIEVE

L-06003 Lab I.D. # 19886
 Laboratory Testing Boring # BH-2
 NYSEG Depth (Feet): 45.0-47.0
 Oneonta Former MGP Site
 Oneonta, New York
 File # 0130.13042 #1

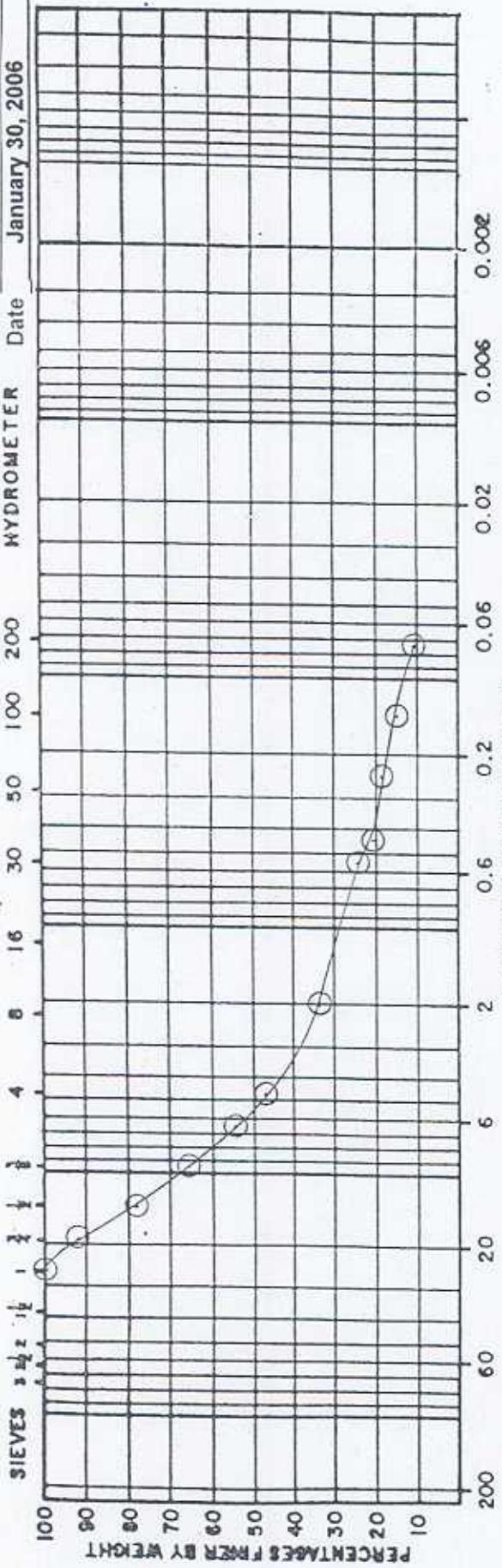
(○) Sieve Analysis ASTM D422 & D1140
 (□) Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

8

Report No.:
HYDROMETER Date January 30, 2006



GRAIN SIZE IN MILLIMETERS						
BOULDERS COBBLES	GRAVEL		SAND		SILT - CLAY SOIL	
	C	M	F	C	H	
228	76.2	25.4	9.52	2.0	0.59	OPENING
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	No. 60
					200	SIEVE

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

Lab I.D. # 19887

Boring # BH-3

Depth (Feet): 10.0-12.0

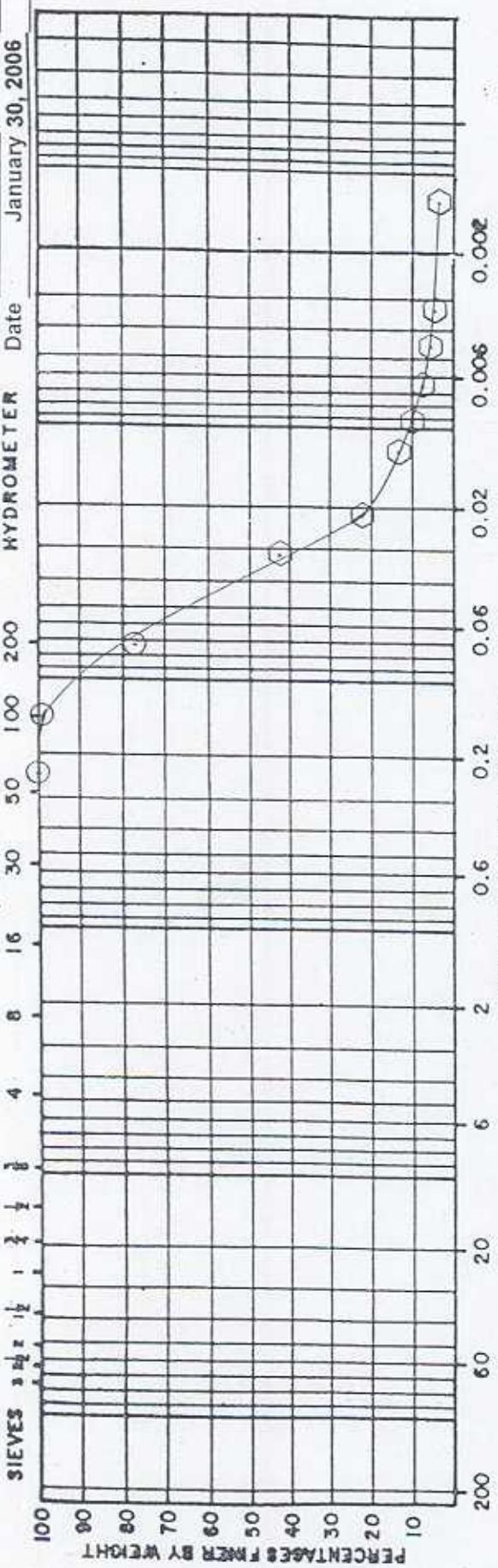
- Sieve Analysis ASTM D422 & D1140
- Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 9

HYDROMETER Date January 30, 2006



GRAIN SIZE IN MILLIMETERS								
BOULDERS COBBLES	GRAVEL		SAND		SILT - CLAY SOIL			
	C	M	F	H	F			
228	76.2	25.4	9.52	2.0	0.59	OPENING		
9 In.	3 in.	1 in.	3/8 in.	No. 10	No. 30	No. 60	No. 200	SIEVE

Lab I.D. # 19888

Boring # BH-3

Depth (Feet): 21.0-23.0

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

○ Sieve Analysis ASTM D422 & D1140

○ Hydrometer Analysis ASTM D422

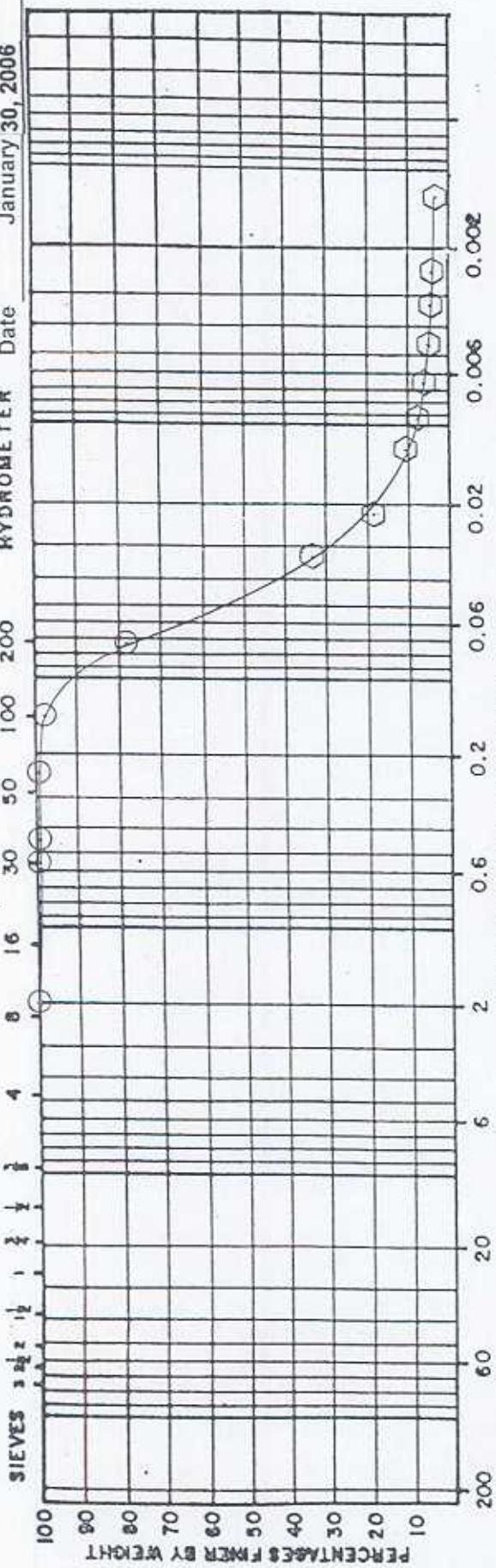
GRAIN SIZE ANALYSIS

Job No.: L-06003

10

Report No:

Date January 30, 2006



GRAIN SIZE IN MILLIMETERS						
BOULDERS COBBLES	GRAVEL			SILT - CLAY SOIL		
	C	M	F	C	H	F
22.8	76.2	25.4	9.52	2.0	0.59	0.25
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60
					200	OPENING SIEVE

 Lab I.D. # 19889
 L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

 Boring # BH-3
 Depth (Feet): 39.0-41.0

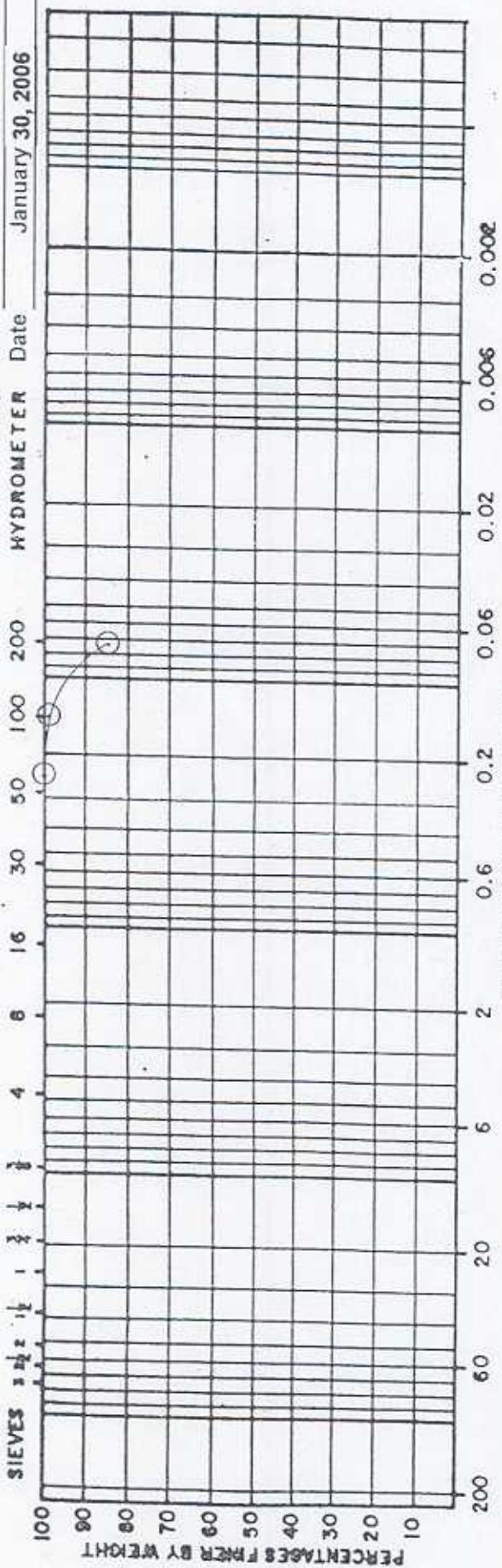
 Steve Analysis ASTM D422 & D1140
 Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 11

HYDROMETER Date: January 30, 2006



DOULDERS COBBLES	GRAVEL			SAND			SILT- CLAY SOIL		
	C	M	F	C	M	F	C	M	F
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	OPENING
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	-	200	SIEVE

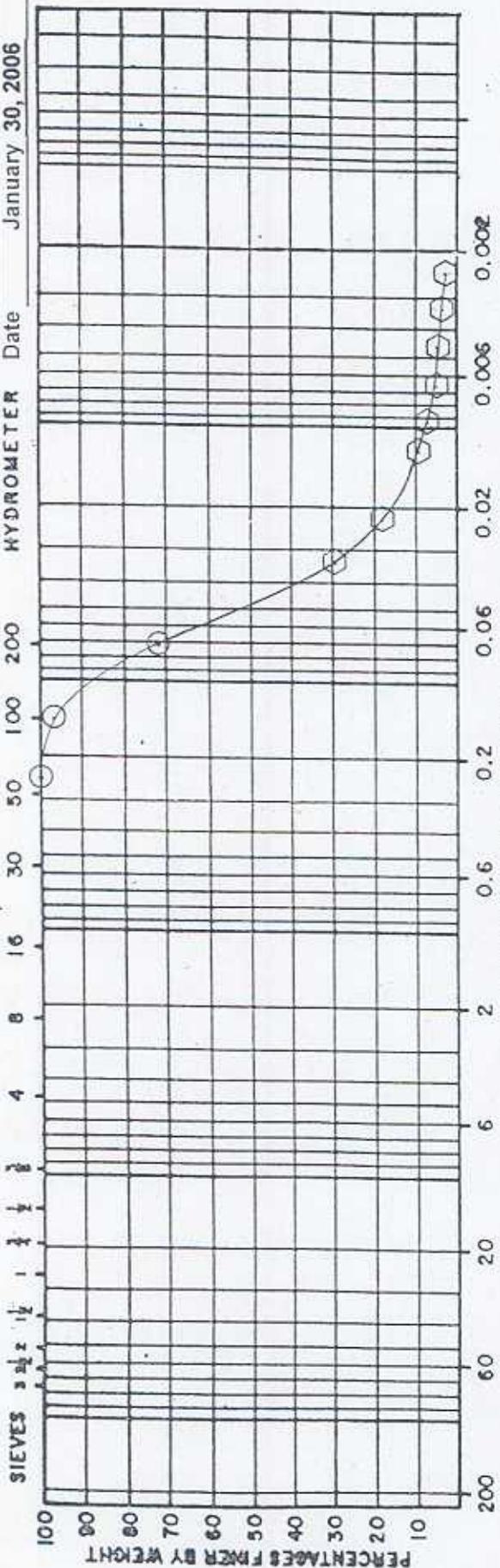
L-06003	Lab I.D. # 19890
Laboratory Testing	Boring # BH-4
NYSEG	Depth (Feet): 15.0-17.0
Oneonta Former MGP Site	
Oneonta, New York	
File # 0130.13042 #1	
◎ Sieve Analysis ASTM D422 & D1140	
◎ Hydrometer Analysis ASTM D422	

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No: 12

HYDROMETER Date January 30, 2006



BOULDERS COBBLES	GRAVEL			SAND			SILT - CLAY SOIL		
	C	M	F	C	H	F			
228 9 in.	76.2 3 in.	25.4 1 in.	9.52 3/8 in.	2.0 No. 10	0.59 30	0.25 60	0.074 200	MM.	OPENING SIEVE

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

Lab I.D. # 19891

Boring # BH-4

Depth (Feet): 30.0-32.0

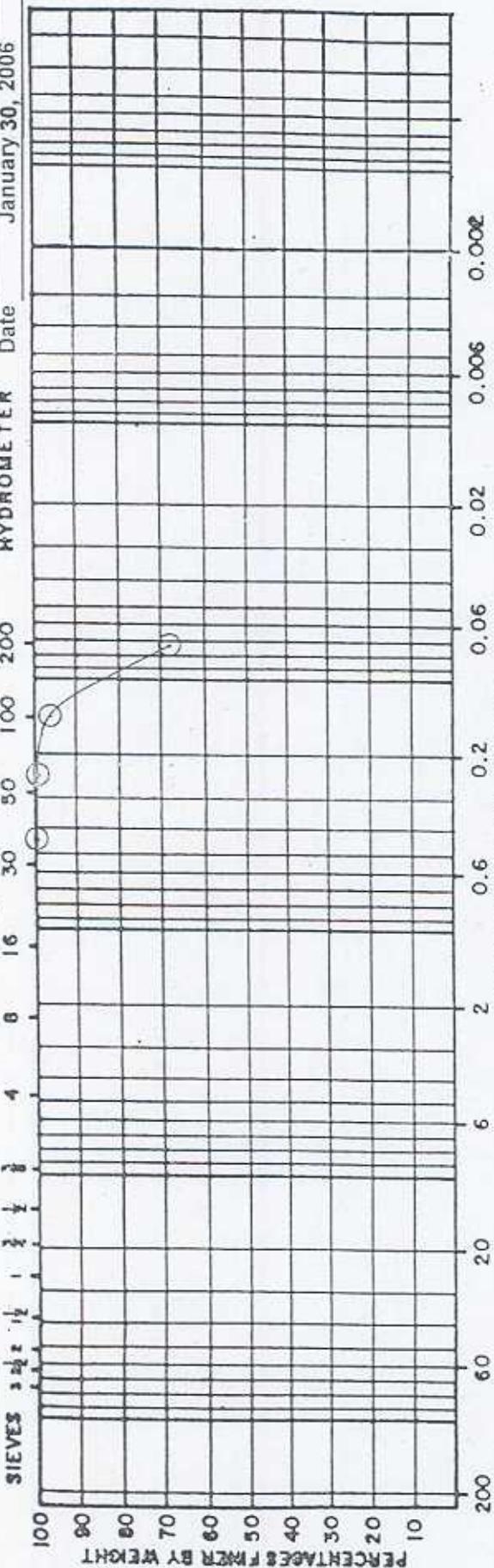
- Sieve Analysis ASTM D422 & D1140
- Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No: 13

HYDROMETER Date January 30, 2006



BOULDERS		GRAVEL			SAND			SILT - CLAY SOIL		
C	M	C	M	C	M	F	C	M	F	
22.6	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	OPENING	
0 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200		SIEVE	

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130-13042 #1

Lab I.D. # 19892

Boring # BH-4

Depth (Feet): 40.0-42.0

○ Sieve Analysis ASTM D422 & D1140

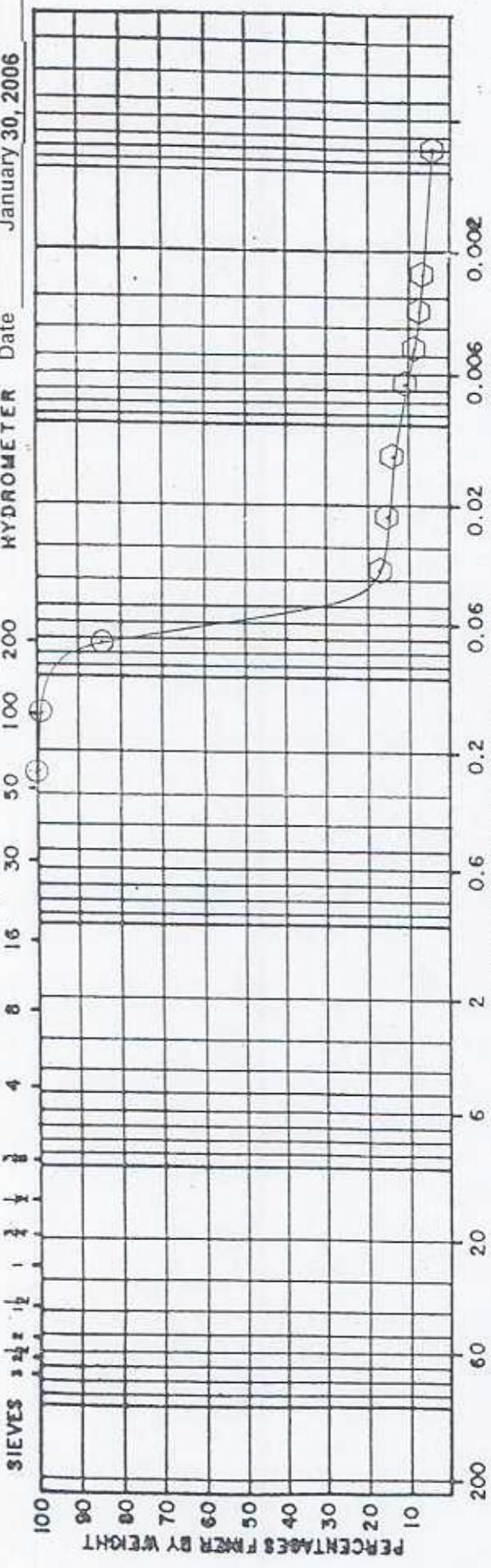
○ Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

14

Report No: January 30, 2006



BOULDERS COBBLES	GRAVEL			SAND			SILT - CLAY SOIL		
	C	M	F	C	H	F			
22.8 9 in.	76.2 3 in.	25.4 1 in.	9.52 3/8 in.	2.0 No. 10	0.59 30	0.25 60	0.074 200	MM. OPENING SIEVE	

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

Lab I.D. # 19893

Boring # BH-5

Depth (Feet): 210.0-23.0

○ Sieve Analysis ASTM D422 & D1140

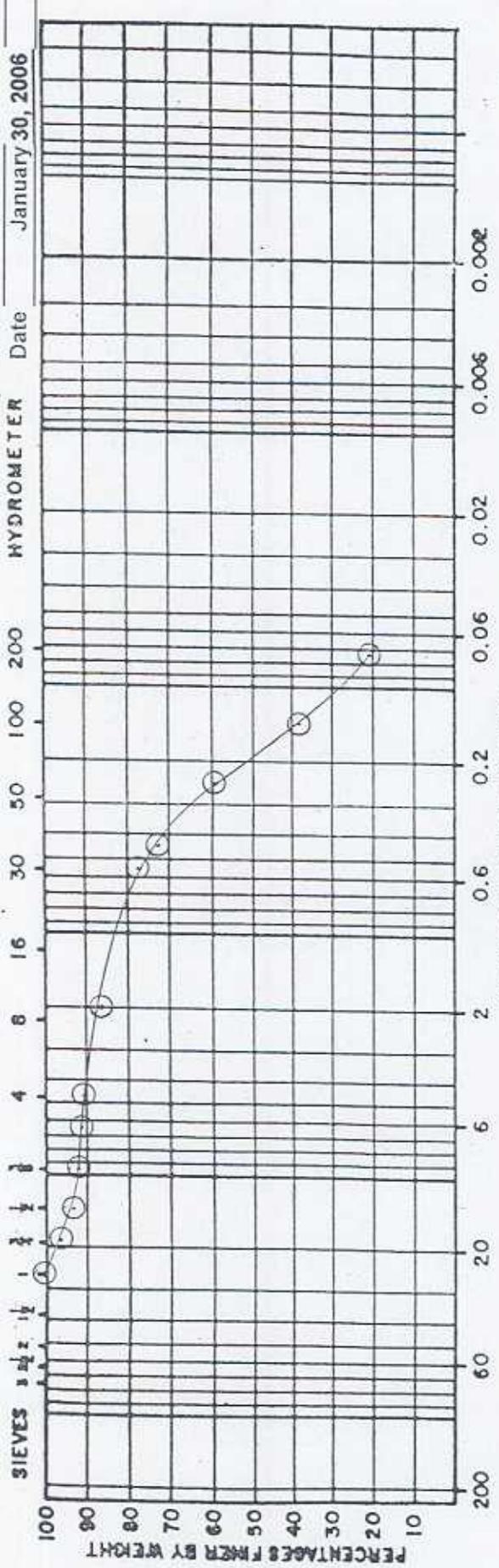
○ Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 15

Date: January 30, 2006



BOULDERS	GRAVEL	SAND	SILT - CLAY	SOIL					
COBBLES	C	M	H	F					
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	OPENING
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200	SIEVE	

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

Lab I.D. # 19894

Boring # BH-6

Depth (Feet): 15.0-17.0

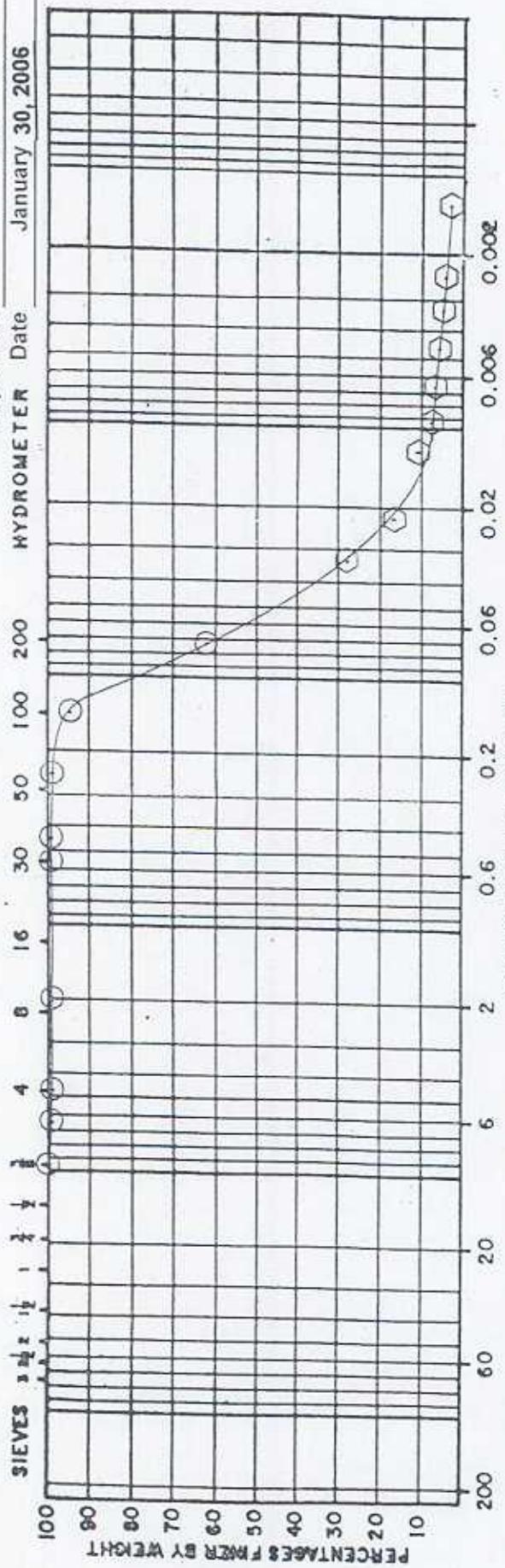
- Sieve Analysis ASTM D422 & D1140
- Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 16

Date: January 30, 2006



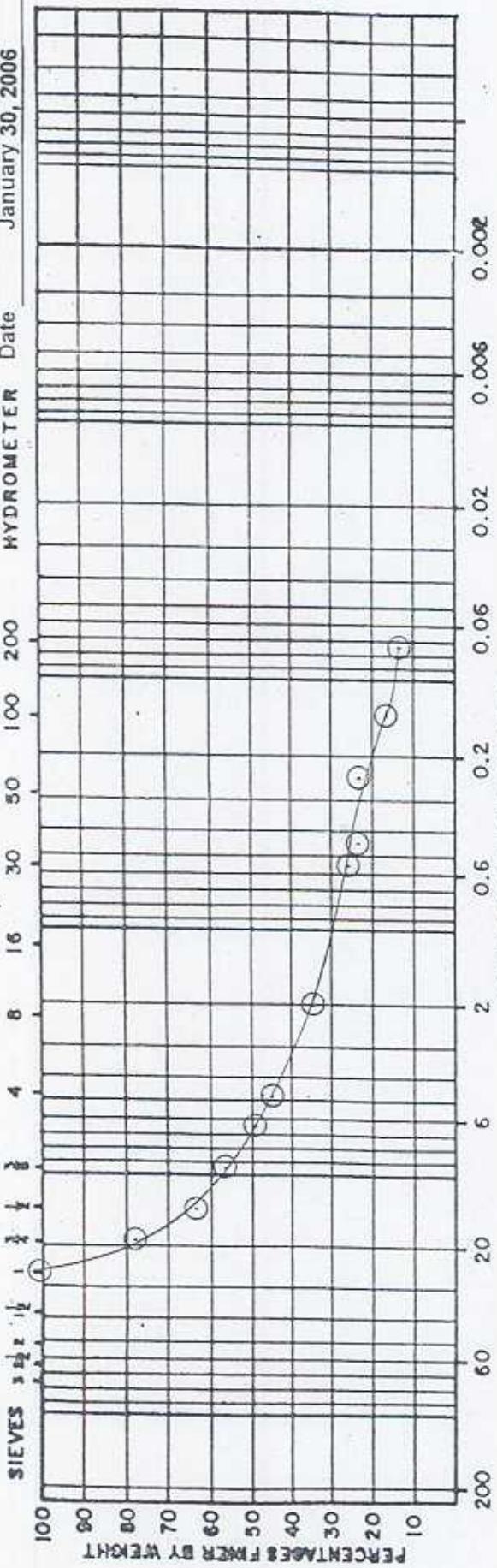
GRAIN SIZE ANALYSIS

Job No.: L-06003

17

Report No.: Date

January 30, 2006



BOULDERS		GRAVEL		SAND		SILT - CLAY SOIL	
C	M	C	F	C	M	F	
22.6	76.2	25.4	9.52	2.0	0.59	0.25	OPENING
0 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200
							SIEVE

Lab I.D. # 19896

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

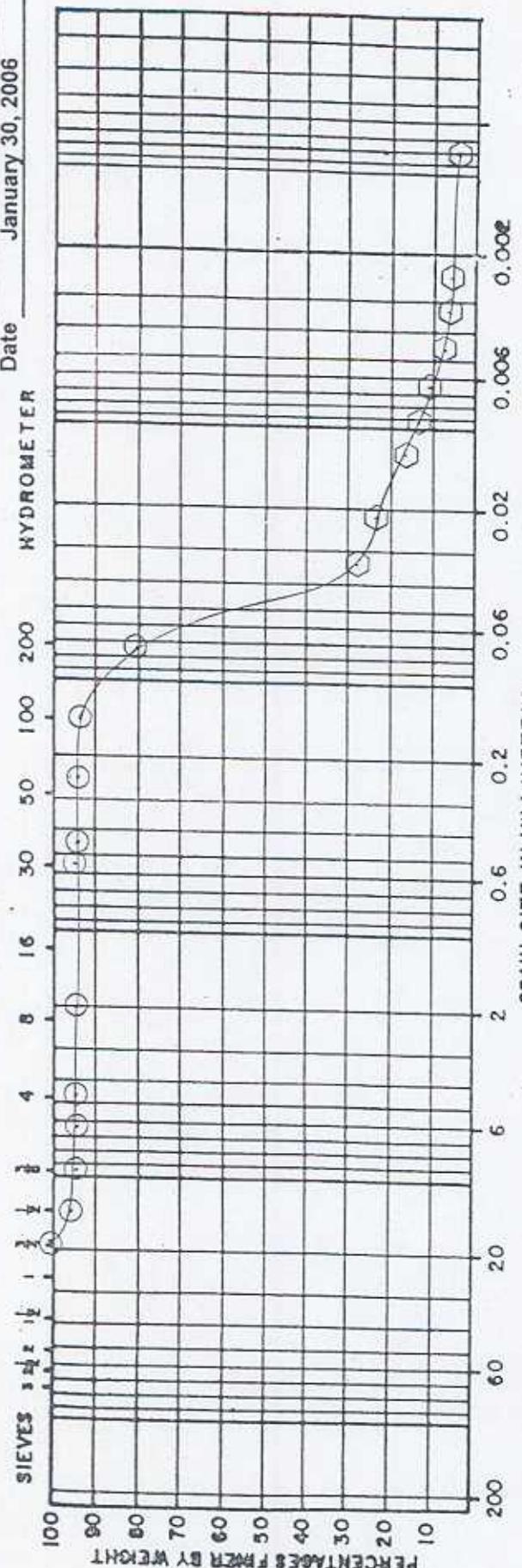
Boring # BH-7

Depth (Feet): 17.0-19.0

○ Sieve Analysis ASTM D422 & D1140
○ Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003
Report No.: 18
Date: January 30, 2006

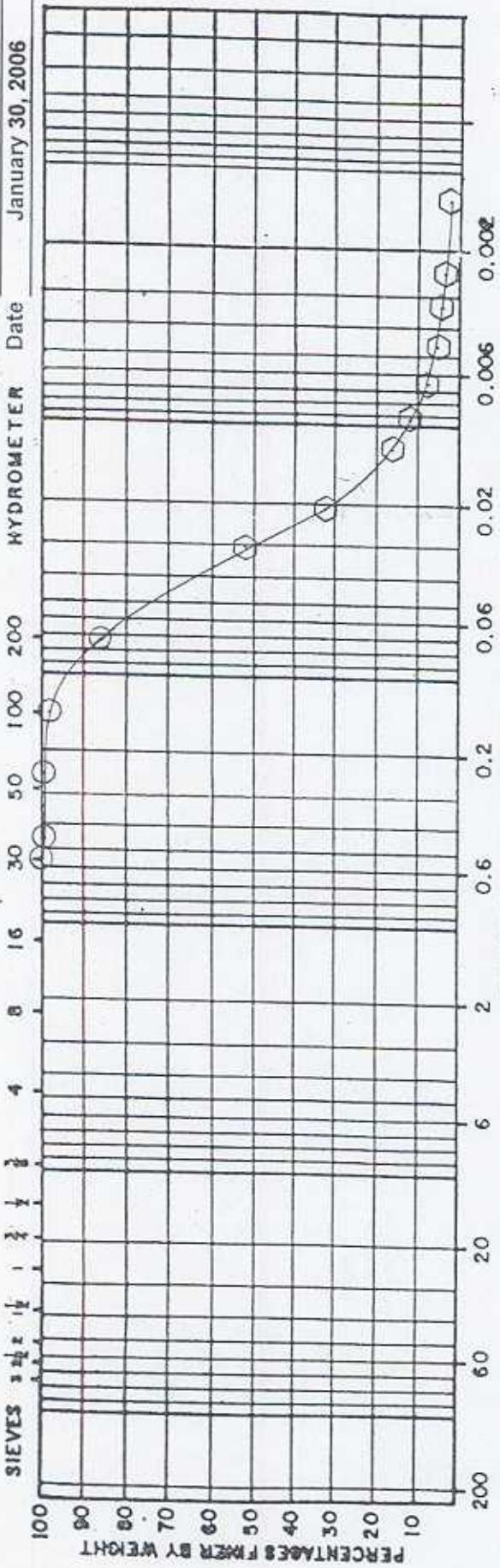




PH LABORATORIES INC.
P.O. BOX 54, 3479 FISHER ROAD, EAST SYRACUSE, NY 13057
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GRAIN SIZE ANALYSIS

Job No.: L-06003
Report No.: 19



BOULDERS COBBLES	GRAVEL			SAND			SILT- CLAY SOIL		
	C	M	F	C	H	F			
22.8 3 in.	76.2 1 in.	25.4 3/8 in.	9.52	2.0	0.59	0.25	0.074	MM.	OPENING SIEVE

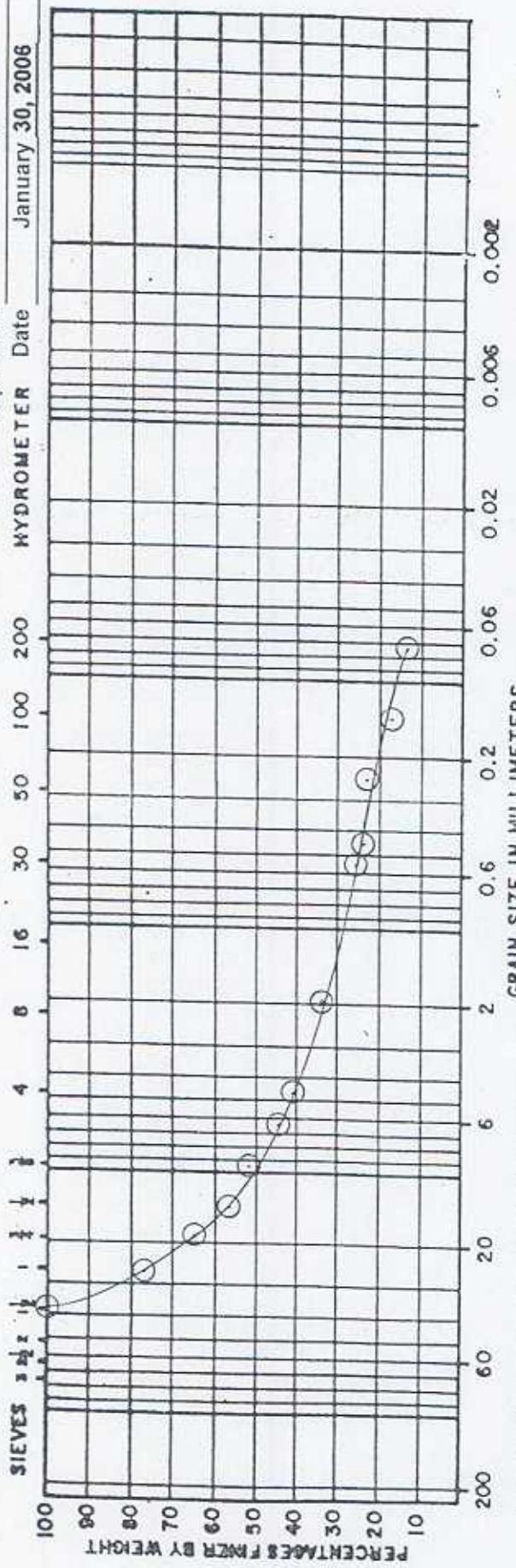
L-06003	Lab I.D. # 19900
Laboratory Testing	Boring # BH-7
NYSEG	Depth (Feet): 311.0-333.0
Oneonta Former MGP Site	
Oneonta, New York	
File # 013013042 #1	
○ Sieve Analysis ASTM D422 & D1140	
○ Hydrometer Analysis ASTM D422	

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 20

Date January 30, 2006



BOULDERS COBBLES	GRAVEL			SAND			SILT- CLAY SOIL		
	C	M	F	C	M	F	C	M	F
228 9 in.	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	OPENING SIEVE
	3 in.	1 in.	3/8 in.	No.	10	30	60		200

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

Lab I.D. # 19901

Boring # BH-8

Depth (Feet): 10.0-12.0

○ Sieve Analysis ASTM D422 & D1140

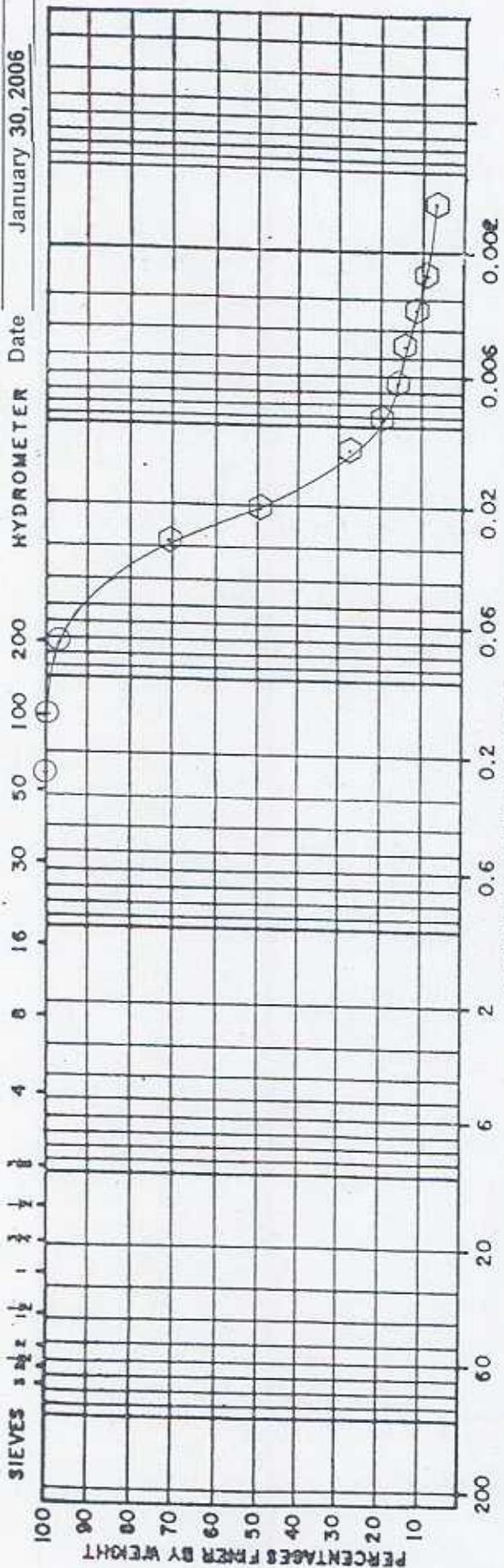
○ Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 21

Date: January 30, 2006



GRAIN SIZE IN MILLIMETERS						
BOULDERS COBBLES	GRAVEL		SAND		SILT - CLAY SOIL	
	C	H	F	C	F	
228	76.2	25.4	9.52	2.0	0.59	OPENING
9 in.	3 in.	1 in.	3/8 in.	No. 10	No. 60	200 SIEVE

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

Lab I.D. # 19902

Boring # BH-8

Depth (Feet): 20.0-22.0

○ Sieve Analysis ASTM D422 & D1140

○ Hydrometer Analysis ASTM D422

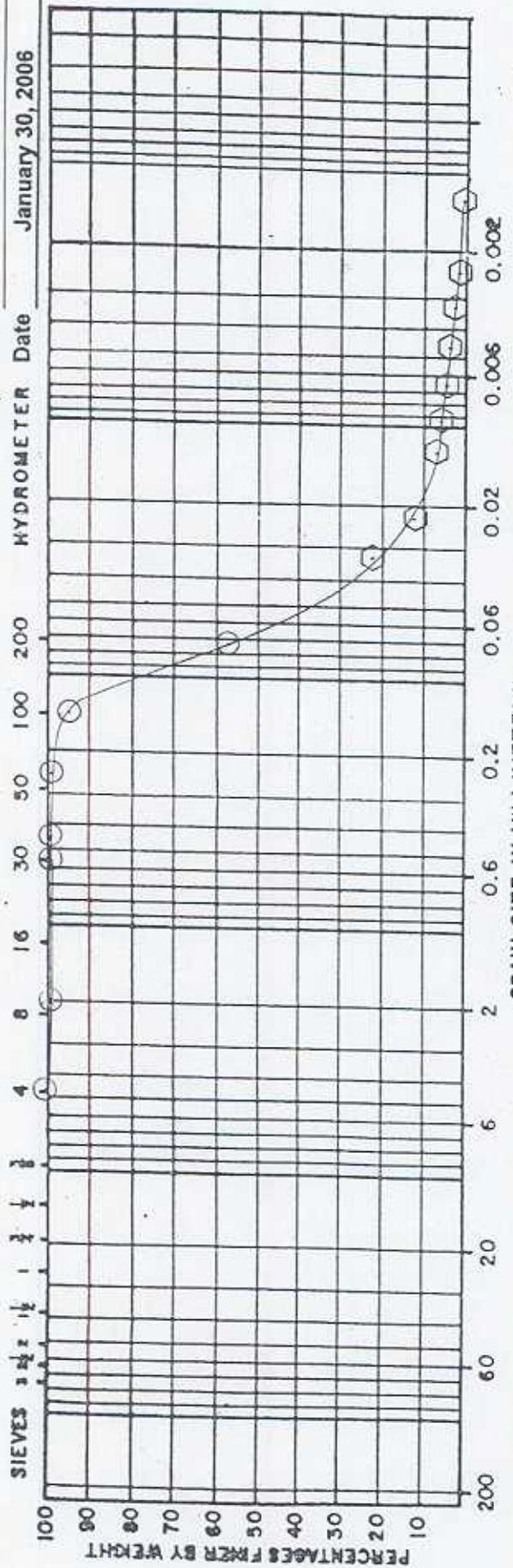
GRAIN SIZE ANALYSIS

Job No.: L-06003

22

Report No.: 22

HYDROMETER Date January 30, 2006



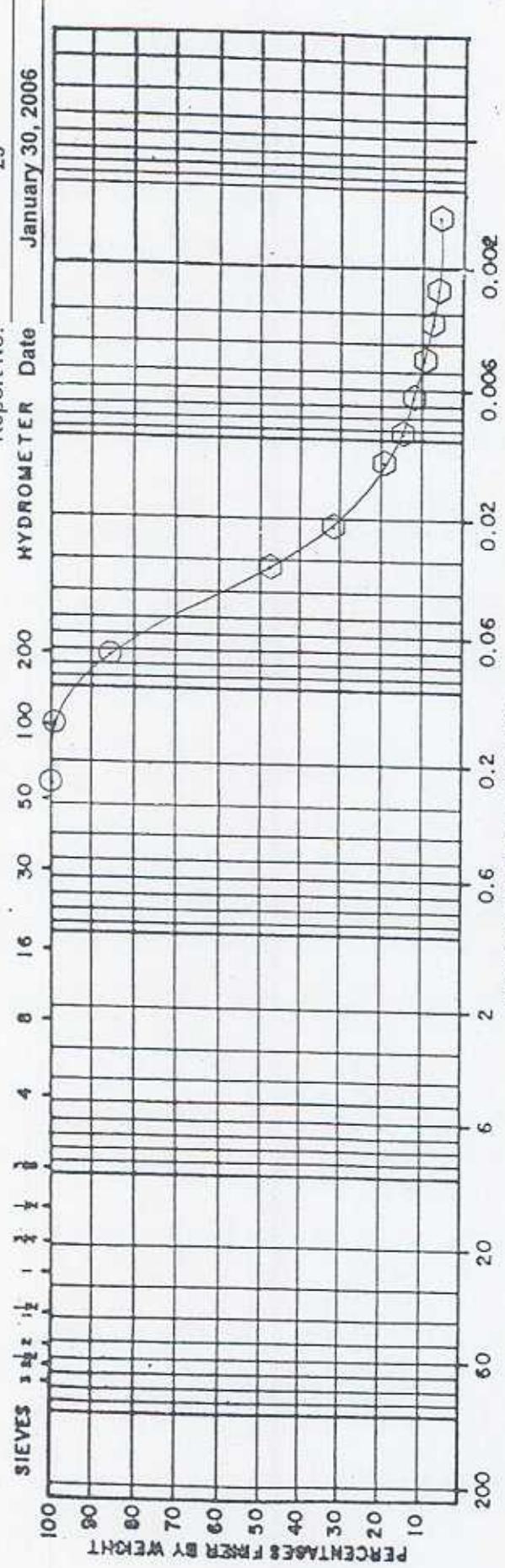
BOULDERS COBBLES	GRAVEL			SAND			SILT - CLAY SOIL		
	C	M	F	C	M	F	C	M	F
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	0.02	OPENING SIEVE
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200		

L-06003
 Laboratory Testing
 NYSEG
 Oneonta Former MGP Site
 Oneonta, New York
 File # 0130.13042 #1

- Sieve Analysis ASTM D422 & D1140
- Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003
Report No.: 23



BOULDERS		GRAVEL		SAND		SILT - CLAY SOIL	
C	M	C	F	C	H	F	
226	76.2	25.4	9.52	2.0	0.59	0.25	0.074 MM.
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	OPENING SIEVE

Lab I.D. # 19906
Boring # BH-9
Depth (Feet): 35.0-37.0

Oneonta Former MGP Site
Oneonta, New York
File # 0130.13042 #1

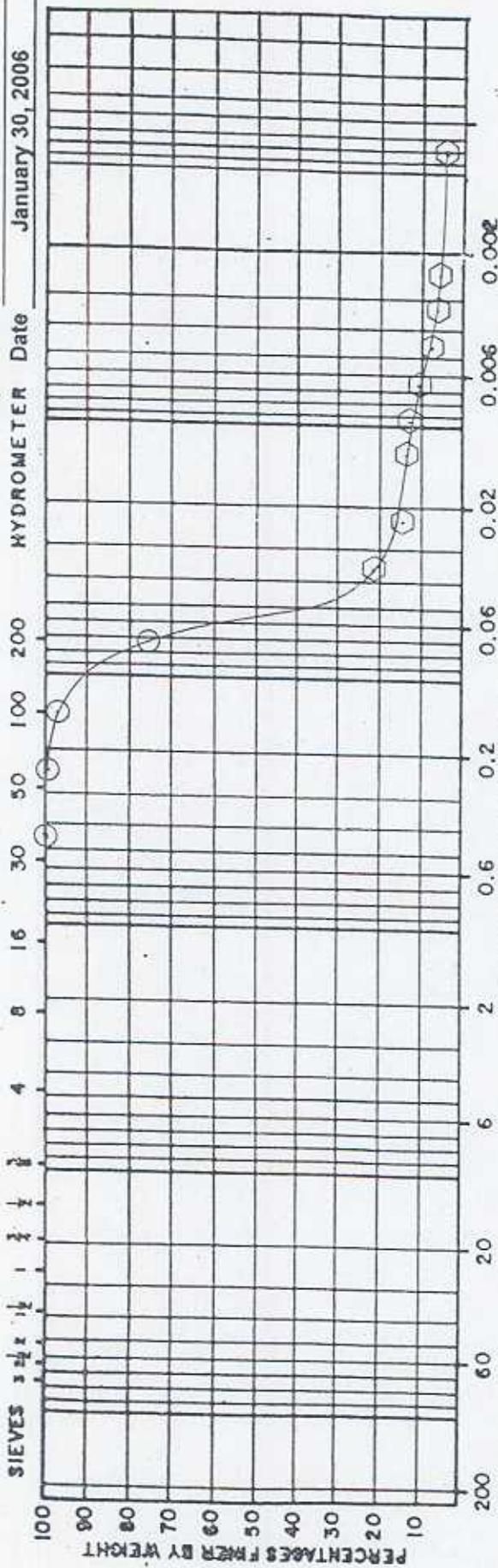
- Sieve Analysis ASTM D422 & D1140
- Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 24

HYDROMETER Date January 30, 2006



BOULDERS COBBLES				GRAVEL				SAND				SILT - CLAY SOIL			
C	M	F	C	C	M	F	C	C	M	F	C	C	M	F	
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	OPENING						
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200		SIEVE						

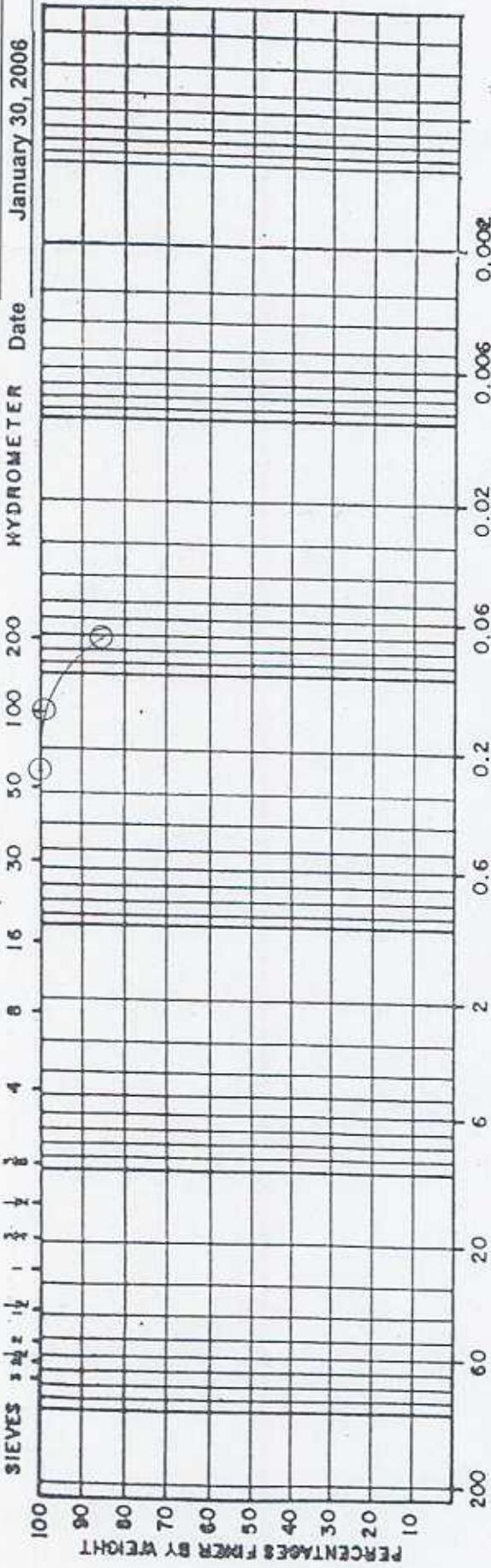
L-06003	Lab I.D. # 19907
Laboratory Testing	Boring # BH-9
NYSEG	Depth (Feet): 37.0-39.0
Oneonta Former MGP Site	
Oneonta, New York	
File # 0130.13042 #1	
○ Sieve Analysis ASTM D422 & D1140	
◇ Hydrometer Analysis ASTM D422	

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 25

HYDROMETER Date January 30, 2006



BOULDERS COBBLES	GRAVEL			SAND			SILT - CLAY SOIL		
	C	M	F	C	H	F			
226	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MM.	OPENING
9 in.	3 in.	1 in.	3/8 in.	No.	10	30	60	200	SIEVE

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

Lab I.D. # 19908

Boring # BH-11

Depth (Feet): 15.0-17.0

○ Sieve Analysis ASTM D422 & D1140

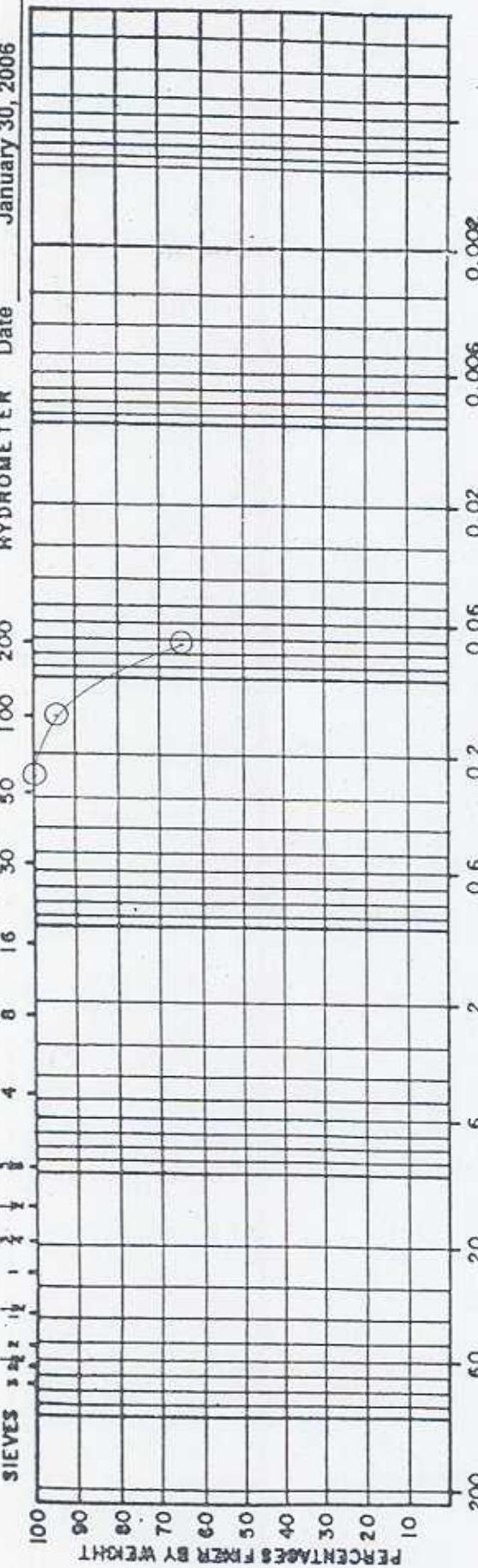
○ Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 26

HYDROMETER Date January 30, 2006



		GRAIN SIZE IN MILLIMETERS			SILT - CLAY SOIL	
BOULDERS	COBBLES	GRAVEL	M	C	SAND	F
228	76.2	25.4	9.52	2.0	0.59	0.25
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60

OPENING
SIEVE
200

Lab I.D. # 19909
L-06003
Laboratory Testing
Boring # BH-11
NYSEG
Oneonta Former MGP Site
Oneonta, New York
File # 0130.13042 #1

○ Sieve Analysis ASTM D422 & D1140
○ Hydrometer Analysis ASTM D422

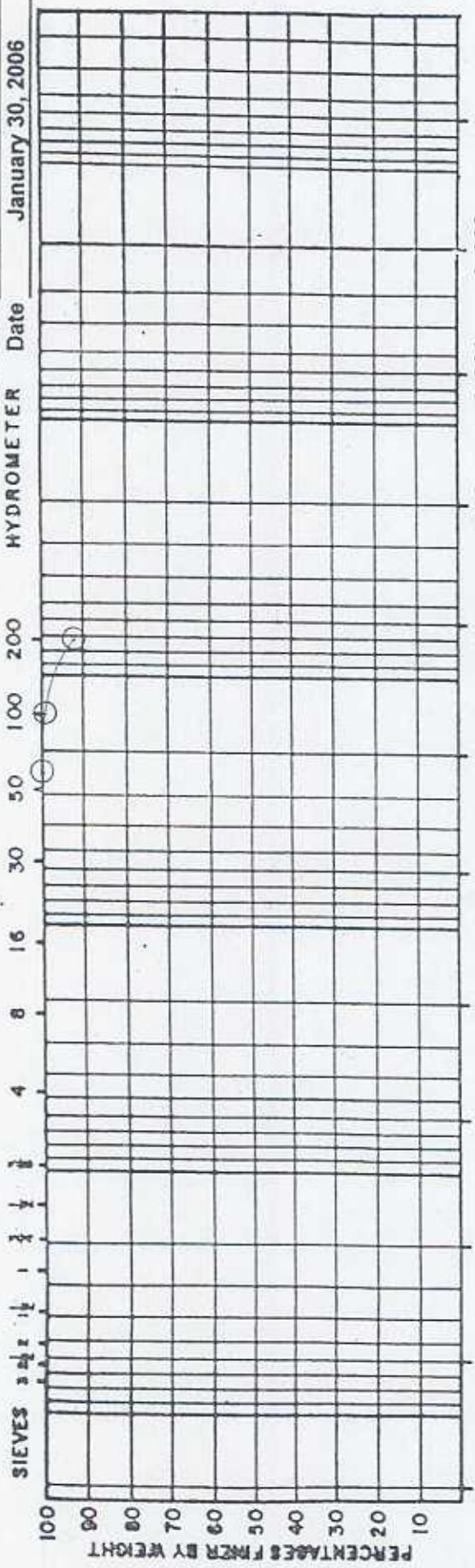
GRAIN SIZE ANALYSIS

Job No.: L-06003

28

Report No:

January 30, 2006



GRAIN SIZE IN MILLIMETERS						
BOULDERS			GRAVEL			
COBBLES	C	M	F	C	SAND	
228	76.2	25.4	9.52	2.0	0.59	O.25
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60
						0.074 MM.
						OPENING
						200
						SIEVE

L-06003 Lab I.D. # 19911
Laboratory Testing Boring # BH-12
NYSEG Depth (Feet): 15.0-17.0
Oneonta Former MGP Site
Oneonta, New York
File # 0130.13042 #1

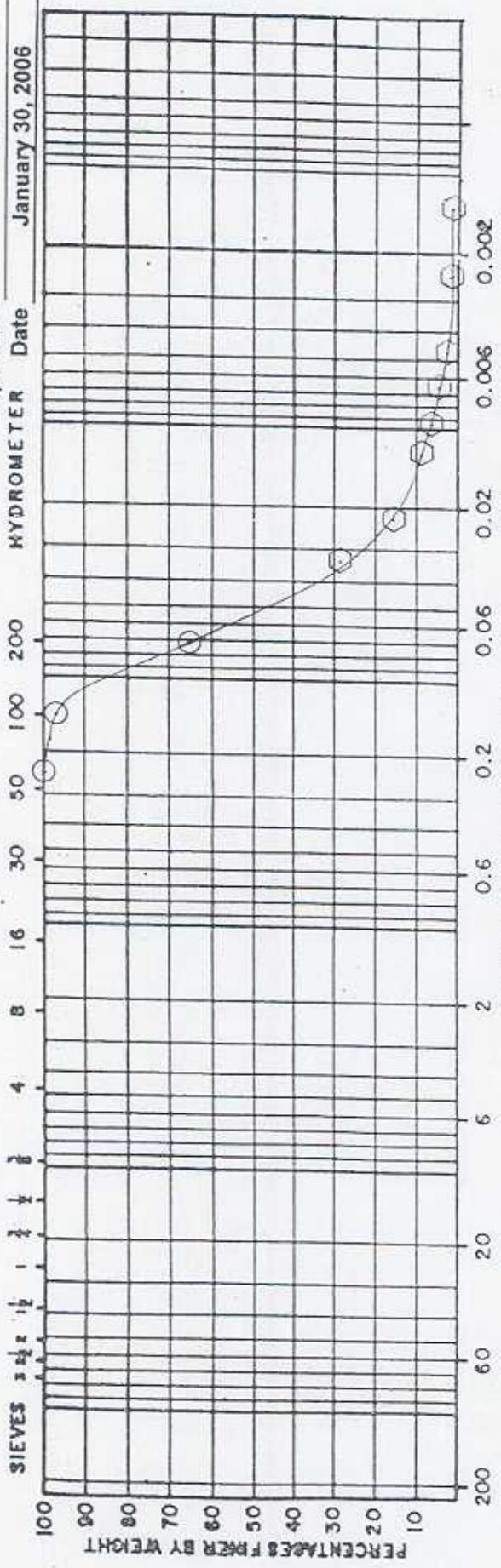
- Sieve Analysis ASTM D422 & D1140
- Hydrometer Analysis ASTM D422

GRAIN SIZE ANALYSIS

L-06003

Report No: _____ 29

HYDROMETER Date January 30 2006



BOULDERS		GRAVEL				GRAIN SIZE IN MILLIMETERS				SILT-CLAY SOIL	
COBBLES	C	M	F	C	H	SAND	F		OPENING	SIEVE	
2228	76.2	25.4	9.52	2.0		0.59	0.25	0.074	MM.	200	
2206	3.0	1.0	3/8 in.	Nea.	0	30	160				

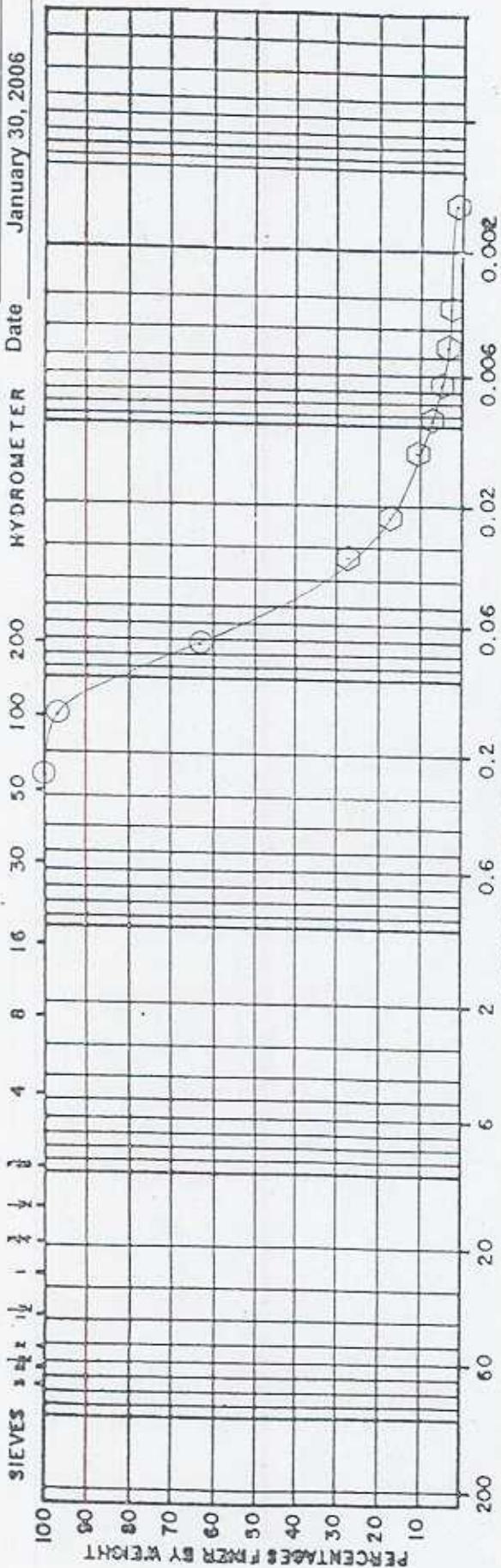
L-06003	Laboratory Testing	NYSEG	Lab I.D. # 19912
			Boring # BH-12
			Depth (Feet): 27.0-29.0

GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 30

HYDROMETER Date January 30, 2006

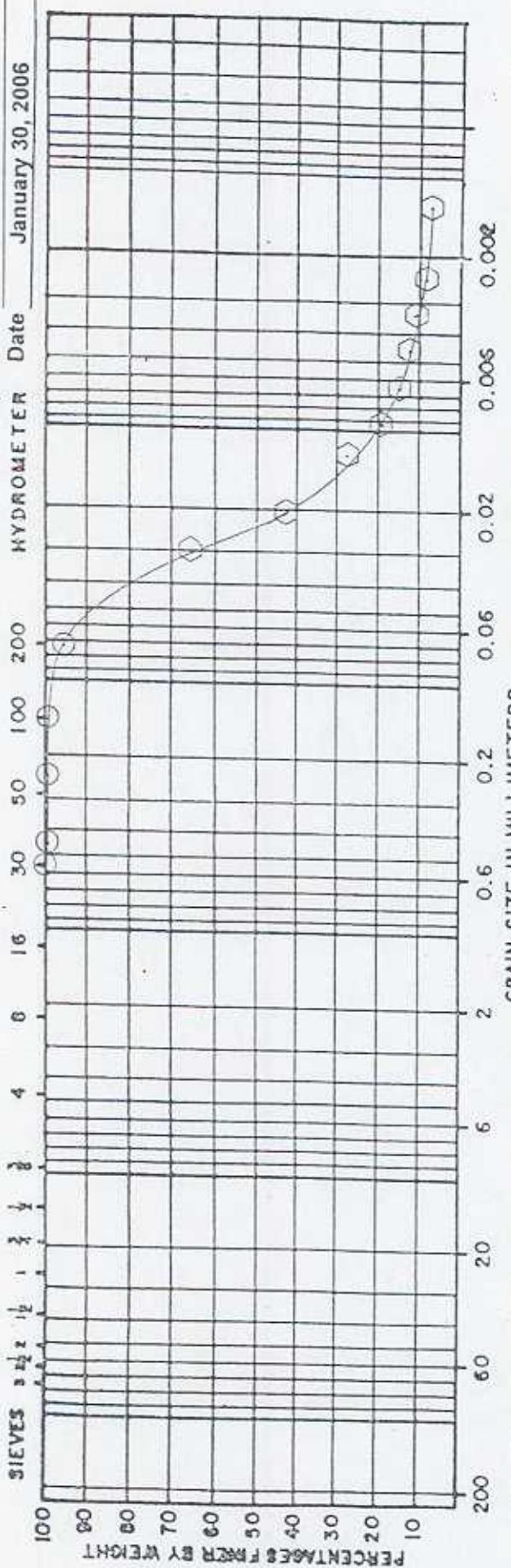


GRAIN SIZE ANALYSIS

Job No.: L-06003

Report No.: 31

Date: January 30, 2006



BOULDERS		GRAVEL			SAND			SILT - CLAY SOIL		
COBBLES	C	M	F	C	M	F	C	M	F	
228	76.2	25.4	9.52	2.0	0.59	0.25	0.074	MIN.	OPENING	
9 in.	3 in.	1 in.	3/8 in.	No. 10	30	60	200	200	SIEVE	

Lab I.D. # 19914

Boring # BH-13

Depth (Feet): 21.0-23.0

L-06003

Laboratory Testing

NYSEG

Oneonta Former MGP Site

Oneonta, New York

File # 0130.13042 #1

○ Sieve Analysis ASTM D422 & D1140

○ Hydrometer Analysis ASTM D422



PW LABORATORIES, INC.
P.O. BOX 56, 5879 FISHER ROAD, EAST SYRACUSE, NY 13057
315-437-1420 • 866-7PW-LABS • Fax 315-437-1752

January 30, 2006

L-06003
Laboratory Testing
NYSEG
Oneonta Former MGP Site
Oneonta, New York
File #0130.13042 #1

ATTERBERG LIMITS
ASTM D4318

<u>Lab</u>		<u>Depth</u>	<u>Plastic</u>	<u>Liquid</u>	<u>Plasticity</u>
<u>ID #</u>	<u>Boring #</u>	(feet)	Limit	Limit	Index
19882	BH-1	29.0-31.0	Non-Plastic	--	--
19883	BH-1	43.0-45.0	Non-Plastic	--	--
19891	BH-4	30.0-32.0	Non-Plastic	--	--
19902	BH-8	20.0-22.0	Non-Plastic	--	--
19906	BH-9	35.0-37.0	Non-Plastic	--	--
19914	BH-13	21.0-23.0	Non-Plastic	--	--



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January 30, 2006

L-06003
Laboratory Testing
NYSEG
Oneonta Former MGP Site
Oneonta, New York
File #0130.13042 #1

SPECIFIC GRAVITY OF SOILS ASTM D854

Lab <u>I.D. #</u>	<u>Boring #</u>	Depth (feet)	Specific Gravity <u>of Solids (G)</u>
19882	BH-1	29.0-31.0	2.72
19889	BH-3	39.0-41.0	2.74
19892	BH-4	40.0-42.0	2.75
Composite			
19897-19899	BH-7	19.0-25.0	2.73
Composite			
19904-19905	BH-9	15.0-19.0	2.74
19910	BH-11	30.0-32.0	2.72
Composite			
19915-19917	BH-13	31.0-37.0	2.75



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REPORT

DATE: January 30, 2006

Test Start

Date: January 26, 2006

**Measurement of Hydraulic Conductivity
of Saturated Porous Materials
Using a Flexible Wall Permeameter
ASTM D5084**

Project No.: L-06003	Project Title: Laboratory Testing NYSEG, Oneonta Former MGP Site, Oneonta, NY	
ST. No:	Lab ID#: 19893	Test Sample Location: BH-5
Depth/Lift/Elev.: 21.0' - 23.0'	Type of Sample: Undisturbed	Remolded <input checked="" type="checkbox"/>
Method of Compaction: As necessary to achieve target density	Percent Compaction:	--
Dry Unit Weight (PCF): Maximum: --	Initial: 108.3	Moisture Content (% of Dry Weight): Optimum: -- Initial: 26.5
Initial Height (cm): 4.79	Initial Diameter (cm): 6.05	Initial Gradient: 58.7
Initial Degree of Saturation (B Value) (%): --	/ Permeant Liquid Used: Deaired	Deionized H ₂ O
Confining Pressure (PSI): 71.0	Test (head) Pressure (PSI): 68.0	Tail (back) Pressure (PSI): 64.0
Final Degree of Saturation (B Value) (%): 100	Final Dry Unit Weight (PCF): 103.7	Final Gradient: 58.1
Final Height (cm): 4.84	Final Diameter (cm): 6.15	Final Moisture Content (% of Dry Weight): 23.0

Final Four Determinations k (cm/sec)

8.22X10⁻⁶8.25X10⁻⁶8.27X10⁻⁶8.25X10⁻⁶

Mean Value of Final Four Consecutive Determinations:

Coefficient of Permeability

k (cm/sec): 8.25X10⁻⁶

Project

Specifications: --

Notes:



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REPORT

DATE: January 30, 2006

Test Start

Date: January 26, 2006

Measurement of Hydraulic Conductivity
of Saturated Porous Materials
Using a Flexible Wall Permeameter
ASTM D5084

Project No.: L-06003	Project Title: Laboratory Testing NYSEG, Oneonta Former MGP Site, Oneonta, NY File #0130.13042 #1	
ST. No:	Lab ID#: Composite 19904- 19905	Test Sample Location: BH-9 (1)
Depth/Lift/Elev.: 15.0' - 19.0'	Type of Sample: Undisturbed	Remolded <input checked="" type="checkbox"/>
Method of Compaction: As necessary to achieve target density	Percent Compaction:	--
Dry Unit Weight (PCF) Maximum: --	Initial: 125.0	Moisture Content (% of Dry Weight): Optimum: -- Initial: 14.9
Initial Height (cm): 5.50	Initial Diameter (cm): 7.25	Initial Gradient: 51.2
Initial Degree of Saturation (B Value) (%): --	Permeant Liquid Used: Deaired Deionized H ₂ O	
Confining Pressure (PSI): 71.0	Test (head) Pressure (PSI): 68.0	Tail (back) Pressure (PSI): 64.0
Final Degree of Saturation (B Value) (%): 96	Final Dry Unit Weight (PCF): 135.8	Final Gradient: 54.8
Final Height (cm): 5.13	Final Diameter (cm): 7.20	Final Moisture Content (% of Dry Weight): 16.6

Final Four Determinations k (cm/sec)

1.43X10⁻⁶

1.42X10⁻⁶

1.41X10⁻⁶

1.40X10⁻⁶

Mean Value of Final Four Consecutive Determinations:

Coefficient of Permeability

k (cm/sec): 1.42X10⁻⁶

Project

Specifications: --

Notes: (1) Minus 1/2" material used in test sample.



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REPORT

DATE: January 30, 2006

Test Start

Date January 26, 2006

**Measurement of Hydraulic Conductivity
of Saturated Porous Materials
Using a Flexible Wall Permeameter
ASTM D5084**

Project No.: <u>L-06003</u>	Project Title: <u>Laboratory Testing NYSEG, Oneonta Former MGP Site, Oneonta, NY File #0130.13042 #1</u>	
ST. No: <u>-</u>	Lab ID#: <u>19907</u>	Test Sample Location: <u>BH-9</u>
Depth/Lift/Elev.: <u>37.0' - 39.0'</u>	Type of Sample: <u>Undisturbed</u>	Remolded <input checked="" type="checkbox"/>
Method of Compaction: <u>-</u>	Percent Compaction: <u>--</u>	
Dry Unit Weight (PCF) Maximum: <u>--</u>	Moisture Content (% of Dry Weight) Initial: <u>92.0</u>	Optimum: <u>--</u> Initial: <u>22.7</u>
Initial Height (cm): <u>5.45</u>	Initial Diameter (cm): <u>6.05</u>	Initial Gradient: <u>51.6</u>
Initial Degree of Saturation (B Value) (%): <u>-</u>	/ Permeant Liquid Used: <u>Deaired Deionized H₂O</u>	
Confining Pressure (PSI): <u>71.0</u>	Test (head) Pressure (PSI): <u>68.0</u>	Tail (back) Pressure (PSI): <u>64.0</u>
Final Degree of Saturation (B Value) (%): <u>100</u>	Final Dry Unit Weight (PCF): <u>(1)</u>	Final Gradient: <u>51.6</u>
Final Height (cm): <u>(1)</u>	Final Diameter (cm): <u>(1)</u>	Final Moisture Content (% of Dry Weight): <u>25.3</u>

Final Four Determinations k (cm/sec)

5.08X10⁻⁵ 5.08X10⁻⁵ 5.08X10⁻⁵ 5.17X10⁻⁵

Mean Value of Final Four Consecutive Determinations:

Coefficient of Permeability k (cm/sec): <u>5.10X10⁻⁵</u>	Project Specifications: <u>--</u>
------------------------------------------------------------------------	--------------------------------------

Notes: (1) Due to significant deformation in the after test sample, original sample height and diameter were used in the calculation

JLT LABORATORIES, INC.

GEOTECHNICAL, GEOSYNTHETIC AND MATERIALS TESTING AND RESEARCH

January 17, 2006
06LS763.01

PW Laboratories, Inc.
5879 Fisher Road
PO Box 56
East Syracuse, NY 13057

Attn: Virginia Thoma

RECEIVED

JAN 20 2006

RE: DIRECT SHEAR TEST RESULTS
NYSEG PROJECT (L-06003)
ONEONTA FORMER MGP SITE

PW LABORATORIES, INC.

Dear Ms. Thoma:

JLT Laboratories, Inc. (JLT) is pleased to submit the results of direct shear testing performed on two (2) samples identified as BH-7 (19-25) and BH-13 (31-37) for the above referenced project. A third test, sample BH-9 (15-19), could not be performed due to sample quality (rock).

All testing was performed in accordance with ASTM D-3080 and subject to JLT's internal QA/QC and data validation procedures.

We appreciate the opportunity to provide our services and look forward to working with you again. Should you have any questions, comments or require additional information, please do not hesitate to call. Thank you.

Sincerely,

JLT LABORATORIES, INC.



John Boschuk, Jr., P.E.
President

Enclosures
JB:ndo
wp10 letter/0611

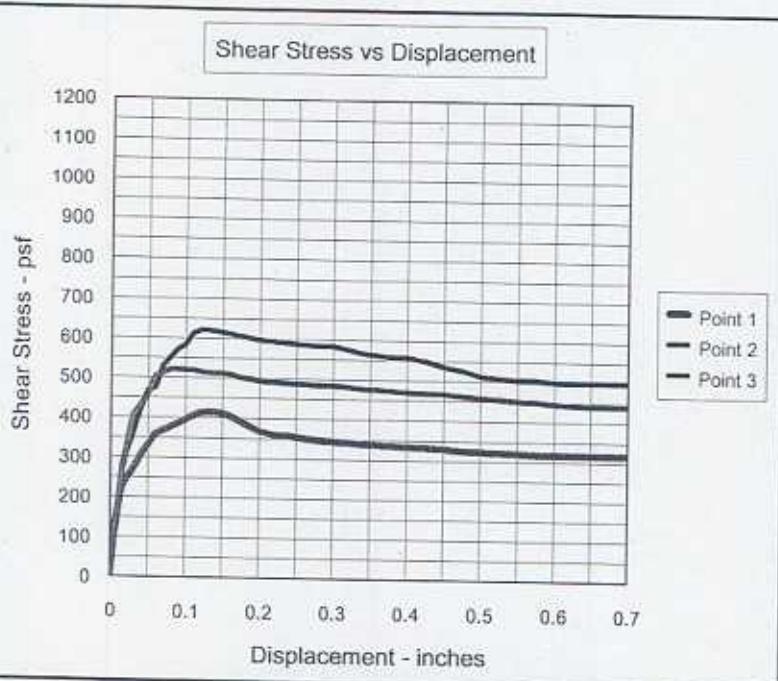
DIRECT SHEAR TEST RESULTS

ASTM D-3080 2.5-inch Diameter Wykham Farrence Shear Box



Client: PW Laboratories, Inc.
 Project: NYSEG (L-06003)
 Oneonta Former MGP Site
 Sample ID: BH-7 (19 - 25)

Date: 01/17/06
 Project No.: 06LS763.01
 Perfd By: AG
 Chkd By: JB



COMPACTION PROPERTIES

Initial	Point 1	Point 2	Point 3
Moisture Cnt, %	25.70	25.70	25.70
Dry Density, pcf	92.0	92.0	92.0
Saturation, %	85.4	85.4	85.4
Void Ratio	0.797	0.797	0.797

At Test	Point 1	Point 2	Point 3
Moisture Cnt, %	29.37	28.99	28.60
Dry Density, pcf	92.9	93.4	93.9
Saturation, %	99.8	99.7	99.6
Void Ratio	0.780	0.770	0.761

Other Information:

Specified Soil Properties	Density pcf	Moisture %
Compacted as Specified on test request form	92.0	25.7

CURVE DATA

Point	Normal Load psf	Peak Strength psf	Residual Strength psf
1	1700	416	318
2	2200	522	441
3	2700	621	500
4			
5			
6			

Displacement Rate: 0.005 in/min
 Saturation: Yes

STRENGTH PROPERTIES

Best Fit Linear Regression

	Peak	Residual
Cohesion	psf	38
Friction	Degrees	11.6
		10.3

Comments:

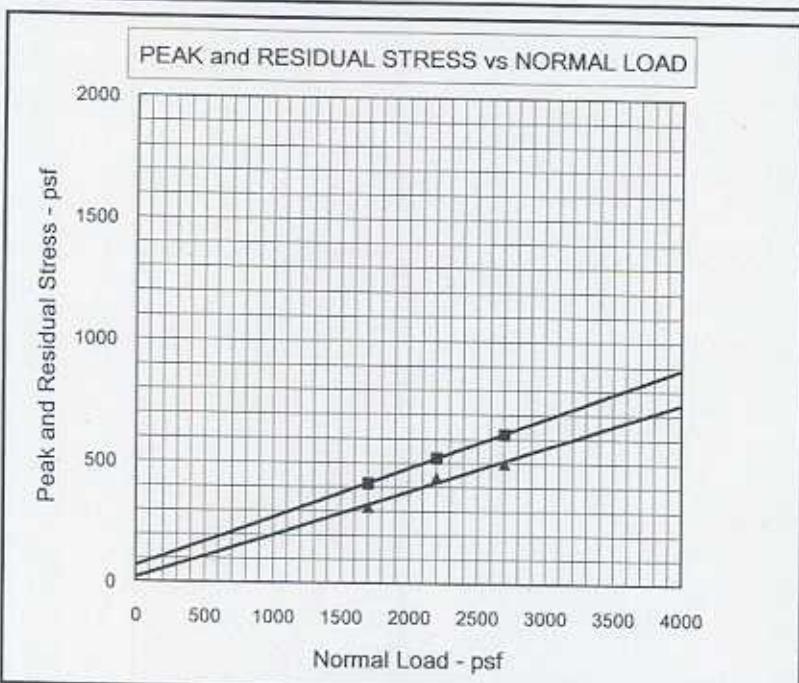


FIGURE - NYSEG BH-7

INPUT DATA FOR**JLT**

PW Laboratories, Inc.
 NYSEG (L-06003)
 Oneonta Former MGP Site
 BH-7 (19 - 25)

Date: 01/17/06
 Project No.: 06LS763.01
 Performed By: AG
 Checked By: JB

UPPER GRAPH

Displacement inches	Point 1 Load lbs	Point 2 Load lbs	Point 3 Load lbs	Point 1 Stress psf	Point 2 Stress psf	Point 3 Stress psf
0.000	0.0	0.0	0.0	0.00	0.00	0.00
0.005	11.0	14.0	13.0	99.00	126.00	117.00
0.010	19.0	20.0	20.0	171.00	180.00	180.00
0.015	25.0	30.0	29.0	225.00	270.00	261.00
0.020	27.0	35.0	34.0	243.00	315.00	306.00
0.030	30.0	45.0	40.0	270.00	405.00	360.00
0.040	34.0	48.0	47.0	306.00	432.00	423.00
0.050	37.0	51.0	52.0	333.00	459.00	468.00
0.060	40.0	56.0	53.0	360.00	504.00	477.00
0.070	41.0	57.0	59.0	369.00	513.00	531.00
0.080	42.0	58.0	61.4	378.00	522.00	552.60
0.090	43.0	58.0	63.6	387.00	522.00	572.40
0.100	44.0	57.9	65.0	396.00	521.10	585.00
0.110	45.0	57.8	68.0	405.00	520.20	612.00
0.120	46.0	57.4	69.0	414.00	516.60	621.00
0.130	46.2	57.1	69.0	415.80	513.90	621.00
0.140	46.1	57.0	68.7	414.90	513.00	618.30
0.150	45.7	57.0	68.4	411.30	513.00	615.60
0.160	45.0	56.7	68.0	405.00	510.30	612.00
0.170	44.0	56.0	67.5	396.00	504.00	607.50
0.180	43.0	55.7	67.2	387.00	501.30	604.80
0.190	42.0	55.4	66.8	378.00	498.60	601.20
0.200	41.0	55.0	66.4	369.00	495.00	597.60
0.220	40.0	54.8	66.0	360.00	493.20	594.00
0.240	39.8	54.4	65.6	358.20	489.60	590.40
0.260	39.2	54.3	65.2	352.80	488.70	586.80
0.280	38.7	54.1	65.0	348.30	486.90	585.00
0.300	38.4	54.0	64.9	345.60	486.00	584.10
0.320	38.1	53.7	64.0	342.90	483.30	576.00
0.340	37.8	53.2	63.0	340.20	478.80	567.00
0.360	37.6	53.0	62.5	338.40	477.00	562.50
0.380	37.4	52.7	62.1	336.60	474.30	558.90
0.400	37.2	52.4	62.0	334.80	471.60	558.00
0.425	37.0	52.1	61.0	333.00	468.90	549.00
0.450	36.7	52.0	59.5	330.30	468.00	535.50
0.475	36.2	51.5	58.5	325.80	463.50	526.50
0.500	36.0	51.0	57.0	324.00	459.00	513.00
0.525	35.8	50.7	56.5	322.20	456.30	508.50
0.550	35.6	50.2	56.0	320.40	451.80	504.00
0.575	35.4	50.0	56.0	318.60	450.00	504.00
0.600	35.3	49.5	55.6	317.70	445.50	500.40
0.650	35.3	49.0	55.5	317.70	441.00	499.50
0.700	35.3	49.0	55.5	317.70	441.00	499.50

LOWER GRAPH

Pn	Peak	Residual
1700	415.8	317.7
2200	522.0	441.0
2700	621.0	499.5

Engineering Properties
Best Fit Linear Regression

	Peak	Residual
Slope, m	0.205	0.182
Cohesion	38.200	19.400
Phi, degrees	11.585	10.315

Data Record for
FIGURE - NYSEG BH-7

JLT

Laboratories, Inc.

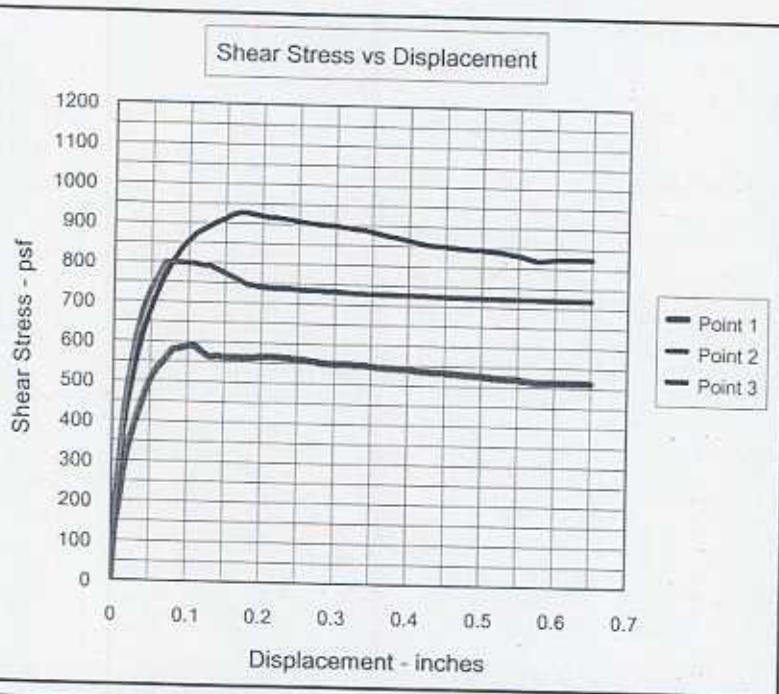
DIRECT SHEAR TEST RESULTS

ASTM D-3080 2.5 - inch Diameter Wykham Farrence Shear Box



Client: PW Laboratories, Inc.
 Project: NYSEG (L-06003)
 Oneonta Former MGP Site
 Sample ID: BH-13 (31 - 37)

Date: 01/17/06
 Project No.: 06LS763.01
 Perf'd By: AG
 Chk'd By: JB



Compaction Properties

	Initial	Point 1	Point 2	Point 3
Moisture Cnt, %	25.50	25.50	25.50	25.50
Dry Density, pcf	92.0	92.0	92.0	92.0
Saturation, %	84.7	84.7	84.7	84.7
Void Ratio	0.797	0.797	0.797	0.797

	At Test	Point 1	Point 2	Point 3
Moisture Cnt, %	29.17	28.80	28.38	28.38
Dry Density, pcf	93.1	93.4	94.1	94.1
Saturation, %	99.6	99.4	99.3	99.3
Void Ratio	0.776	0.770	0.757	0.757

Other Information:

Specified Soil Properties	Density pcf	Moisture %
Compacted as Specified on test request form	92.0	25.5

CURVE DATA

Point	Normal Load psf	Peak Strength psf	Residual Strength psf
1	2500	590	513
2	3200	800	720
3	3900	927	824
4			
5			
6			

Displacement Rate: 0.005 in/min
 Saturation: Yes

STRENGTH PROPERTIES

Best Fit Linear Regression

	Peak	Residual	
Cohesion	psf	1	0
Friction	Degrees	13.5	12.5

Comments:

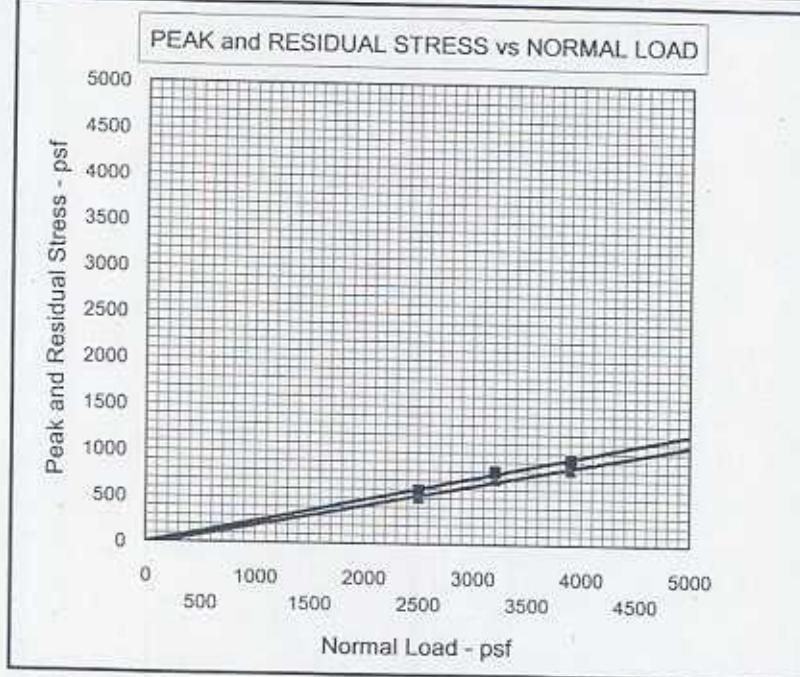


FIGURE - NYSEG BH-13

INPUT DATA FOR**JLT**

PW Laboratories, Inc.
 NYSEG (L-06003)
 Oneonta Former MGP Site
 BH-13 (31 - 37)

Date: 01/17/06
 Project No.: 06LS763.01
 Perfd By: AG
 Chkd By: JB

UPPER GRAPH

Displacement inches	Point 1 Load lbs	Point 2 Load lbs	Point 3 Load lbs	Point 1 Stress psf	Point 2 Stress psf	Point 3 Stress psf
0.000	0.0	0.0	0.0	0.00	0.00	0.00
0.005	15.0	21.0	18.0	135.00	189.00	162.00
0.010	22.0	33.5	29.5	198.00	301.50	265.50
0.015	30.0	45.9	41.5	270.00	413.10	373.50
0.020	36.0	55.0	49.5	324.00	495.00	445.50
0.030	44.0	67.0	60.2	396.00	603.00	541.80
0.040	50.5	75.5	68.9	454.50	679.50	620.10
0.050	56.1	81.1	75.5	504.90	729.90	679.50
0.060	59.5	85.0	81.0	535.50	765.00	729.00
0.070	61.7	88.9	85.5	555.30	800.10	769.50
0.080	64.5	88.9	89.3	580.50	800.10	803.70
0.090	65.0	88.8	92.5	585.00	799.20	832.50
0.100	65.5	88.7	95.0	589.50	798.30	855.00
0.110	65.5	88.6	96.9	589.50	797.40	872.10
0.120	63.7	88.1	98.1	573.30	792.90	882.90
0.130	62.5	88.0	99.3	562.50	792.00	893.70
0.140	62.9	87.0	100.4	566.10	783.00	903.60
0.150	62.5	86.0	101.3	562.50	774.00	911.70
0.160	62.5	85.0	102.5	562.50	765.00	922.50
0.170	62.5	84.0	103.0	562.50	756.00	927.00
0.180	62.4	83.0	102.9	561.60	747.00	926.10
0.190	62.5	82.7	102.6	562.50	744.30	923.40
0.200	62.9	82.3	102.1	566.10	740.70	918.90
0.220	62.8	82.0	101.8	565.20	738.00	916.20
0.240	62.5	82.0	101.2	562.50	738.00	910.80
0.260	62.2	81.7	100.5	559.80	735.30	904.50
0.280	61.5	81.6	100.1	553.50	734.40	900.90
0.300	61.2	81.4	99.8	550.80	732.60	898.20
0.320	61.1	81.2	99.2	549.90	730.80	892.80
0.340	60.9	81.0	98.7	548.10	729.00	888.30
0.360	60.5	80.9	97.7	544.50	728.10	879.30
0.380	60.2	80.8	96.9	541.80	727.20	872.10
0.400	60	80.7	96	540.00	726.30	864.00
0.425	59.5	80.6	94.9	535.50	725.40	854.10
0.450	59.2	80.5	94.5	532.80	724.50	850.50
0.475	58.9	80.4	94.0	530.10	723.60	846.00
0.500	58.5	80.3	93.8	526.50	722.70	844.20
0.525	58.0	80.2	93.3	522.00	721.80	839.70
0.550	57.8	80.1	92.4	520.20	720.90	831.60
0.575	57.0	80.1	90.9	513.00	720.90	818.10
0.600	57.0	80.0	91.5	513.00	720.00	823.50
0.650	57.0	80.0	91.5	513.00	720.00	823.50
0.700						

LOWER GRAPH		
Pn	Peak	Residual
2500	589.5	513.0
3200	800.1	720.0
3900	927.0	823.5

Engineering Properties		
Best Fit Linear Regression		
	Peak	Residual
Slope, m	0.24	0.22
Cohesion	0.77	0.00
Phi, degrees	13.55	12.52

Attachment B

Boring Logs



Date Start/Finish: 11/18/05 - 11/21/05	Northing: 897106.32	Well/Boring ID: BH-1
Drilling Company: SJB Services, Inc.	Easting: 1231707.47	Client: New York State Electric & Gas
Driller's Name: Walt Ketter	Casing Elevation: NA	Energy East Corporation
Drilling Method: HSA		
Bit Size: NA	Borehole Depth: 45.0' bgs	
Auger Size: 4 1/4"	Surface Elevation: NA	
Rig Type: CME-75 Truck Mount		
Sampling Method: SPT (2" Split Spoon)	Field Engineer: Adam Chwalibog	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-1

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 45.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-4	15-17	1.5	9.5	5 6	8		End 11/18/05 Start 11/21/05	
		S-5	17-19	1.6	0.8	3 3 3 3	6		SAA (Loose, Wet)	
		S-6	19-21	2.0	0.4	4 2 2 3	4		Brown SILT, some fine Sand. (Loose, Wet)	
20-20		S-7	21-23	2.0	0.1	4 4 3 6	7		Brown SILT and fine SAND. (Loose, Wet)	
		S-8	23-25	1.4	0.0	2 2 3 4	5		SAA (Loose, Wet)	
25-25		S-9	25-27	1.1	0.0	woh woh 1 1	1		SAA (Very Loose, Wet)	
		S-10	27-29	1.1	2.4	1 1 3 5	4		SAA (Loose, Wet)	
		S-11	29-31	2.0	1.0	2 3 3 4	6		SAA, except occasional 1/4" Clayey SILT laminations. (Loose, Wet)	
30-30		S-12	31-33	1.8	0.0	3 4 5 6	9		Brown SILT and fine SAND. (Loose, Wet)	
		S-13	33-35	1.5	0.0	3 3 5 6	8		Brown SILT and fine SAND, 1/2" red Silty CLAY varve @34.5' bgs. (Loose, Wet)	
35-35		S-14	35-37	1.2	0.0	2 4	8		Brown SILT and fine SAND. (Loose, Wet)	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-1

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 45.0' bgs

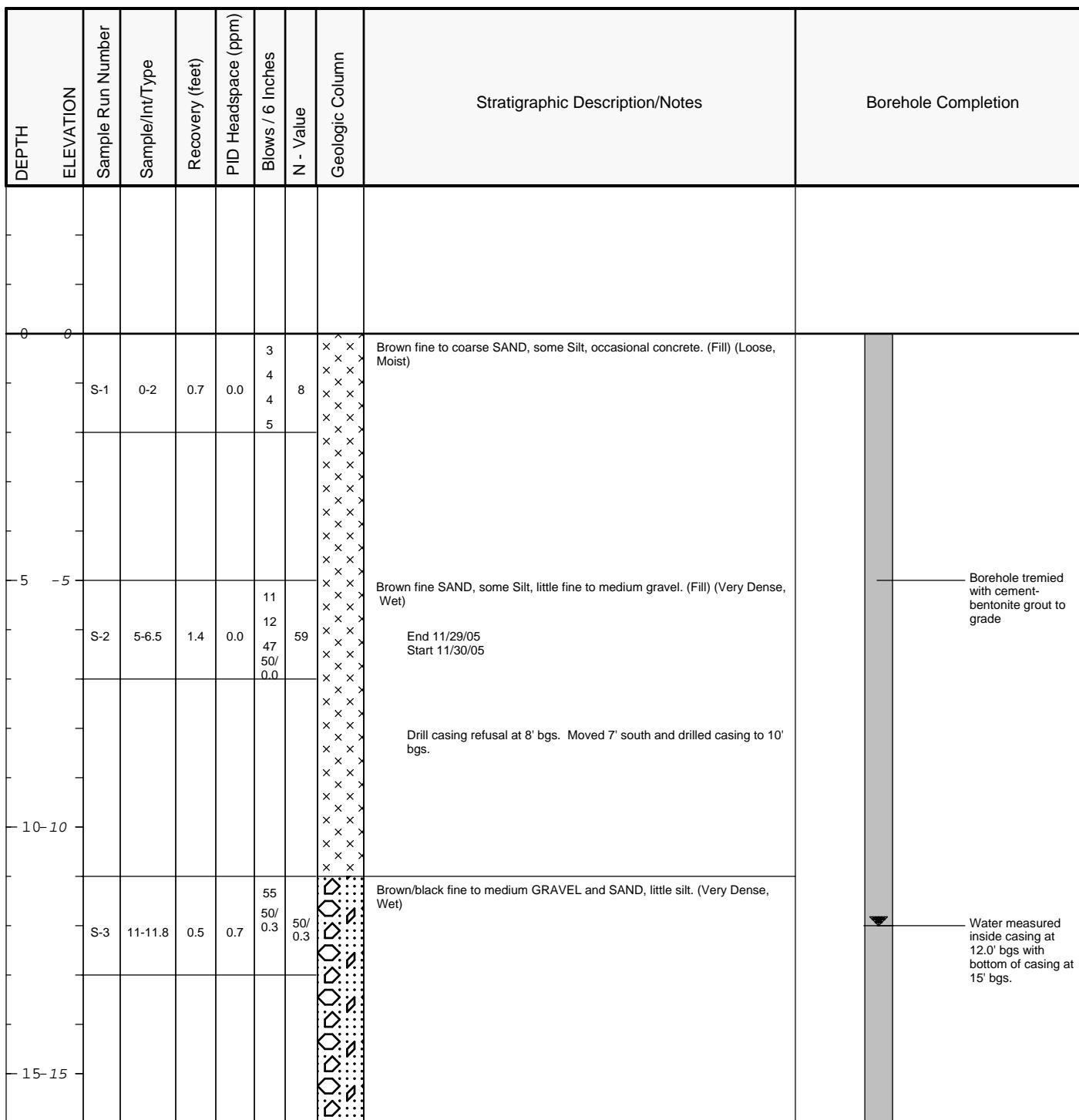
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-14	35-37	1.2	0.0	4 4	8		SAA (Loose, Wet)	
		S-15	37-39	1.5	0.0	4 4 5 7	9		SAA (Very Loose, Wet)	
40-40		S-16	39-41	0.9	0.0	2 1 2 2	3		SAA (Loose, Wet)	Borehole tremied with cement-bentonite grout to grade
		S-17	41-43	1.2	0.0	3 3 4 7	7		SAA, except 1/2" red Silty CLAY varve @44.7' bgs. (Loose, Wet)	
45-45		S-18	43-45	1.5	0.0	3 3 4 6	7		Boring terminated at 45' bgs.	
50-50										
55-55										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

<p>Date Start/Finish: 11/29/05 - 12/1/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: Drive and Wash Casing Bit Size: NA Auger Size: 3" Casing Rig Type: Tripod Sampling Method: SPT (2" Split Spoon)</p>	<p>Northing: 897044.28 Easting: 1231690.64 Casing Elevation: Borehole Depth: 47.0' bgs Surface Elevation: N/A Field Engineer: Adam Chwalibog</p>	<p>Well/Boring ID: BH-2 Client: New York State Electric & Gas Energy East Corporation Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY</p>
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Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

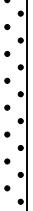
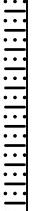
Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-2

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 47.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
	S-4	16-18	0.5	0.0	22 28 26 11		54		Brown fine to coarse SAND, little silt, trace fine gravel. (Very Dense, Wet) End 11/30/05 Start 12/1/05	
20-20	S-5	21-23	0.6	0.0	13 16 14 14		30		Brown fine SAND and SILT. (Medium Dense, Wet)	 Borehole tremied with cement-bentonite grout to grade
25-25	S-6	26-28	1.2	0.0	6 8 7 9		15		Brown SILT and fine SAND. (Medium Dense, Wet)	
30-30	S-7	30-32	1.5	0.0	5 5 5 6		10		SAA (Medium Dense, Wet)	
35-35	S-8	35-37	2.0	0.0	11 12		24		SAA (Medium Dense, Wet)	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-2

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 47.0' bgs

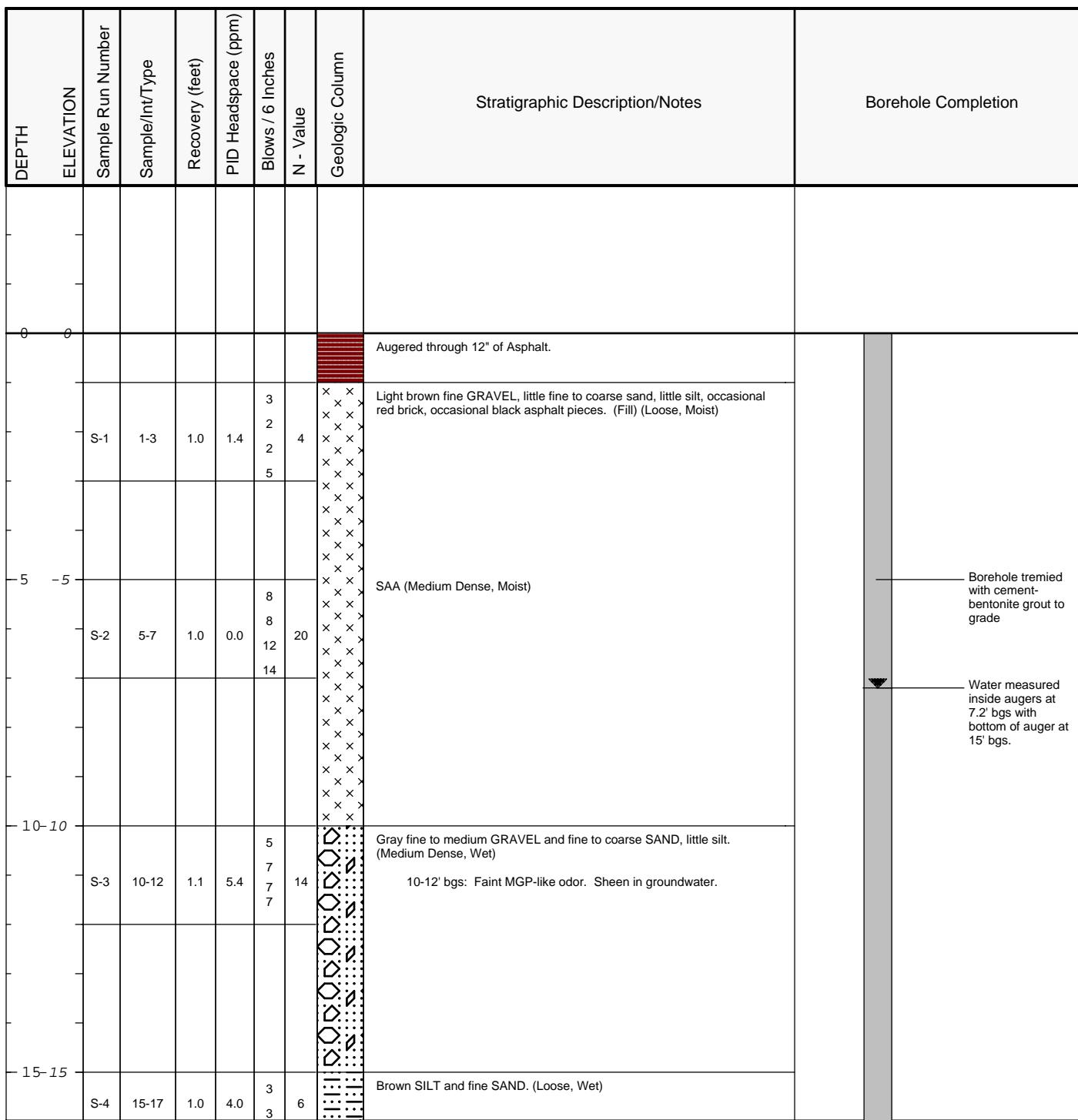
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-8	35-37	2.0	0.0	12 15	24			
40-40		S-9	40-42	1.8	0.0	8 14 20 32	34		SAA (Dense, Wet)	
45-45		S-10	45-47	1.3	0.0	22 32 33 40	65		SAA (Very Dense, Wet)	
50-50									Boring terminated at 47' bgs.	
55-55										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 11/28/05 - 11/29/05	Northing: 897058.47	Well/Boring ID: BH-3
Drilling Company: SJB Services, Inc.	Easting: 1231789.88	Client: New York State Electric & Gas
Driller's Name: Walt Ketter	Casing Elevation:	Energy East Corporation
Drilling Method: HSA		
Bit Size: NA	Borehole Depth: 45.0' bgs	Location: Western Plant Area
Auger Size: 4 1/4"	Surface Elevation: N/A	Oneonta Former MGP Site
Rig Type: CME-75 Truck Mount		Oneonta, NY
Sampling Method: SPT (2" Split Spoon)	Field Engineer: Adam Chwalibog	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-3

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 45.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-4	15-17	1.0	4.0	3 4	6		SAA (Very Loose, Wet)	
		S-5	17-19	1.8	1.7	5 2 1 1	3		SAA, except occasional 1/4" red Silty CLAY laminations @ 21' bgs. (Very Loose, Wet)	
20-20		S-6	19-21	1.5	0.0	woh woh 2 1	2		End 11/28/05 Start 11/29/05	
		S-7	21-23	1.8	0.0	2 3 3 3	6		Light brown SILT, some fine Sand. (Loose, Wet)	
		S-8	23-25	0.9	0.0	woh 1 2 3	3		Brown SILT, some fine Sand, few 1/8" red Silty CLAY laminations. (Very Loose, Wet)	
25-25		S-9	25-27	1.8	0.0	3 3 3 3	6		SAA (Loose, Wet)	
		S-10	27-29	2.0	0.0	3 4 4 3	8		Brown SILT and fine SAND. (Loose, Wet)	
		S-11	29-31	1.8	0.0	4 4 3 3	7		SAA (Loose, Wet)	
30-30		S-12	31-33	2.0	0.0	3 3 4 5	7		SAA (Loose, Wet)	
		S-13	33-35	1.9	0.0	3 3 4 3	7		SAA (Loose, Wet)	
35-35		S-14	35-37	1.0	0.0	1 1	3		SAA (Loose, Wet)	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-3

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 45.0' bgs

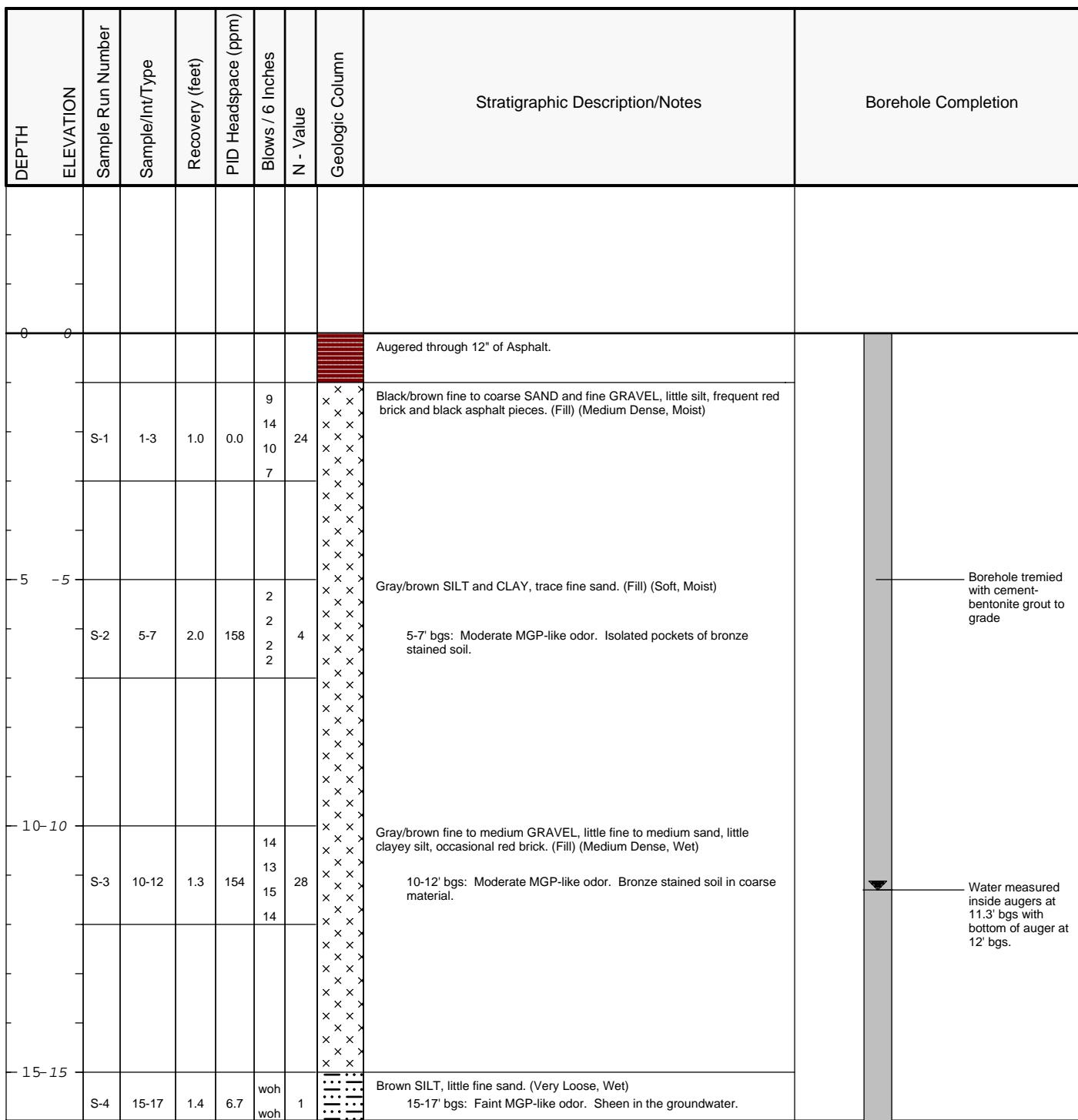
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-14	35-37	1.0	0.0	2 6	3		SAA (Loose, Wet)	
		S-15	37-39	2.0	0.0	2 2 3 4	5		SAA (Loose, Wet)	
40-40		S-16	39-41	1.7	0.0	3 3 4 3	7		SAA (Loose, Wet)	
		S-17	41-43	1.4	0.0	3 4 4 5	8		SAA (Loose, Wet)	
		S-18	43-45	1.0	0.0	3 3 3 3	6		SAA (Loose, Wet)	
45-45									Boring terminated at 45' bgs.	 Borehole tremied with cement-bentonite grout to grade
50-50										
55-55										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 11/17/05	Northing: 897081.62	Well/Boring ID: BH-4
Drilling Company: SJB Services, Inc.	Easting: 1231875.14	
Driller's Name: Walt Ketter	Casing Elevation:	
Drilling Method: HSA		
Bit Size: NA	Borehole Depth: 47.0' bgs	
Auger Size: 4 1/4"	Surface Elevation: N/A	
Rig Type: CME-75 Truck Mount		
Sampling Method: SPT (2" Split Spoon)	Field Engineer Adam Chwalibog	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-4

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 47.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-4	15-17	1.4	6.7	1 2	1			
20-20		S-5	20-22	1.5	1.0	woh woh 2 3	2		Light brown SILT, some fine Sand. (Very Loose, Wet)	
25-25		S-6	25-27	1.5	0.4	woh 1 3 2	4		SAA (Loose, Wet)	
30-30		S-7	30-32	1.3	0.0	woh woh 1 1	1		SAA (Very Loose, Wet)	
35-35		S-8	35-37	1.6	0.0	woh 1	3		Brown SILT and fine SAND. (Very Loose, Wet)	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-4

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 47.0' bgs

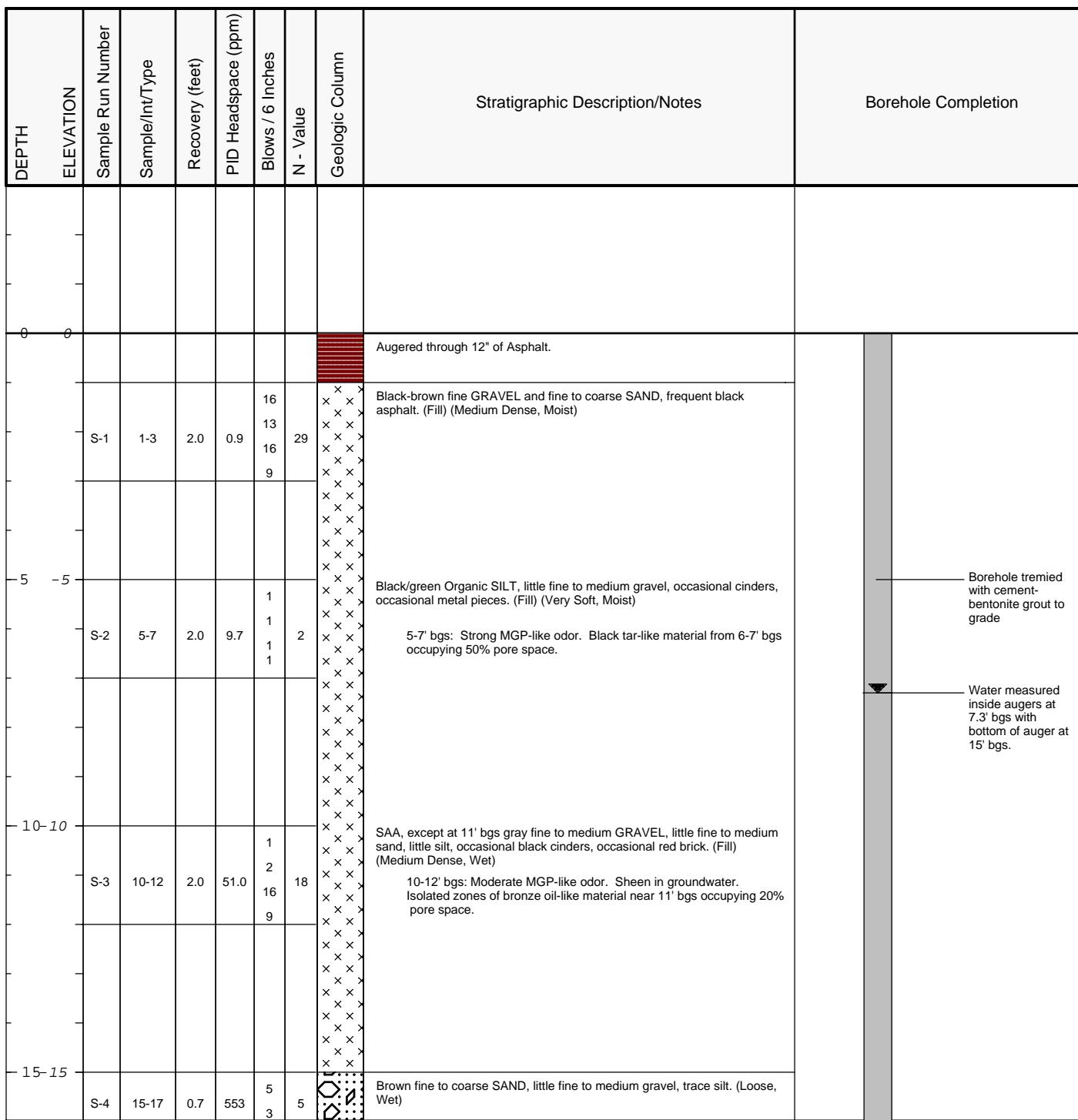
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-8	35-37	1.6	0.0	2 2	3			
40-40		S-9	40-42	1.8	0.0	woh 2 3 4	5		SAA (Loose, Wet)	
45-45		S-10	45-47	1.0	0.0	woh woh woh woh	-		SAA (Very Loose, Wet)	
50-50									Boring terminated at 47' bgs.	
55-55										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 11/22/05 - 11/23/05	Northing: 897147.46	Well/Boring ID: BH-5
Drilling Company: SJB Services, Inc.	Easting: 1231864.72	Client: New York State Electric & Gas
Driller's Name: Walt Ketter	Casing Elevation:	
Drilling Method: HSA		
Bit Size: NA	Borehole Depth: 45.0' bgs	
Auger Size: 4 1/4"	Surface Elevation: N/A	
Rig Type: CME-75 Truck Mount		
Sampling Method: SPT (2" Split Spoon)	Field Engineer Adam Chwalibog	Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-5

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 45.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-4	15-17	0.7	553	2 2	5		15-17' bgs: Strong MGP-like odor. Sheen in groundwater. Bronze oil-like material in coarse soil occupying 80% pore space.	
		S-5	17-19	2.0	6.4	2 3 3	5		Gray-brown fine SILT and fine SAND. (Loose, Wet) 17-19' bgs: Moderate MGP-like odor. Sheen in groundwater. Bronze oil-like material near 17' bgs occupying 15% pore space	
20-20		S-6	19-21	2.0	7.0	7 5 5 7	10		SAA (Medium Dense, Wet) At 19' bgs switched to double casing. 3" casing inside 4 1/4" Hollow Stem Augers. 19-21' bgs: Faint MGP-like odor. Sheen on outside of split-spoon.	
		S-7	21-23	2.0	4.1	4 4 4 6	8		SAA, except light brown. (Loose, Wet)	
		S-8	23-25	1.2	2.0	3 3 4 4	7		Brown fine SAND and SILT. At 24' bgs brown SILT, some fine Sand, occasional 1/4" red Silty CLAY laminations. (Loose, Wet)	
25-25		S-9	25-27	0.0	4.4	2 3 3 2	6		Brown SILT and fine SAND, occasional 1/4" red Silty CLAY lamination near 27' bgs. (Loose, Wet)	
		S-10	27-29	1.8	0.7	11 10 8 13	18		Brown SILT and fine SAND. (Medium Dense, Wet)	
30-30										
		S-11	33-35	1.3	0.0	4 8 8 12	16		SAA (Medium Dense, Wet)	
35-35										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Site Location:

**Western Plant Area
Oneonta Former MGP Site
Oneonta, NY**

Well/Boring ID: BH-5

Borehole Depth: 45.0' bgs



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

<p>Date Start/Finish: 11/16/05-11/17/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: HSA Bit Size: NA Auger Size: 4 1/4" Rig Type: CME-75 Truck Mount Sampling Method: SPT (2" Split Spoon)</p>	<p>Northing: 897218.92 Easting: 1231855.96 Casing Elevation: Borehole Depth: 47.0' bgs Surface Elevation: N/A Field Engineer: Adam Chwalibog</p>	<p>Well/Boring ID: BH-6 Client: New York State Electric & Gas Energy East Corporation Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY</p>
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Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-6

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 47.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-5	15-17	0.7	5.5	2 2	4		15-17' bgs: Moderate MGP-like odor. Sheen in groundwater. End 11/16/05 Start 11/17/05	
20-20		S-6	20-22	0.7	15.8	1 1 1 1	2		Brown SILT and fine SAND. (Very Loose, Wet) 20-22' bgs: Moderate MGP-like odor.	Borehole tremied with cement-bentonite grout to grade
25-25		S-7	25-27	2.0	0.5	4 3 3 4	6		SAA (Very Loose, Wet) 25-27' bgs: Very faint MGP-like odor.	
30-30		S-8	30-32	1.2	0.4	woh 2 4 5	6		SAA (Loose, Wet)	
35-35		S-9	35-37	1.0	0.0	1 1	2		SAA (Very Loose, Wet)	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-6

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 47.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-9	35-37	1.0	0.0	1 1	2			
40-40		S-10	40-42	1.5	0.0	1 2 1 1	3		Brown SILT and fine SAND, occasional 1/2" red Silty CLAY varve @ 40.5' bgs. (Very Loose, Wet)	Borehole tremied with cement-bentonite grout to grade
45-45		S-11	45-47	1.3	0.0	woh			Brown SILT and fine SAND. (Very Soft, Wet)	
50-50									Boring terminated at 47' bgs.	
55-55										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 11/14/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: HSA Bit Size: NA Auger Size: 4 1/4" Rig Type: CME-75 Truck Mount Sampling Method: SPT (2" Split Spoon)	Northing: 897288.48 Easting: 1231848.78 Casing Elevation: Borehole Depth: 45.0' bgs Surface Elevation: N/A Field Engineer Adam Chwalibog	Well/Boring ID: BH-7 Client: New York State Electric & Gas Energy East Corporation Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY
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Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-7

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 45.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-4	15-17	0.5	0.2	8 12	18		SAA (Medium Dense, Wet)	
		S-5	17-19	0.4	0.3	10 6 7 6	13		Brown Clayey SILT, little fine sand. (Soft, Wet)	
20-20		S-6	19-21	1.5	0.0	1 1 1 1	2		Brown SILT and fine SAND. (Loose, Wet)	
		S-7	21-23	2.0	0.0	1 1 1 1	2		SAA (Very Loose, Wet)	
		S-8	23-25	0.6	0.0	1 woh 1 woh	1		SAA (Loose, Wet)	
25-25		S-9	25-27	1.8	0.0	woh 2 3 2	5		SAA (Loose, Wet)	
		S-10	27-29	2.0	0.0	2 3 5 6	8		SAA (Loose, Wet)	
		S-11	29-31	1.0	0.0	1 1 1 2	2		SAA, except occasional 1/4" red Silty CLAY laminations. (Very Loose, Wet)	
30-30		S-12	31-33	2.0	0.0	3 4 4 7	8		Brown SILT, little fine sand. (Loose, Wet)	
		S-13	33-35	2.0	0.0	1 1 2 3	3		SAA, except occasional 1/4" red Silty CLAY laminations. (Loose, Wet)	
35-35		S-14	35-37	1.3	0.0	2 2	5		Brown SILT, little fine sand. (Loose, Wet)	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-7

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 45.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-14	35-37	1.3	0.0	3 5	5		SAA (Medium Dense, Wet)	
		S-15	37-39	1.8	0.0	3 5 5 7	10		SAA (Loose, Wet)	
40-40		S-16	39-41	1.1	0.0	3 3 5 7	8		Brown fine SAND, some Silt. (Medium Dense, Wet)	Borehole tremied with cement-bentonite grout to grade
		S-17	41-43	2.0	0.0	7 7 7	14		SAA, except occasional 1/4" red Silty CLAY laminations.	
45-45		S-18	43-45	2.0	0.0	7 7 8 10	15		Boring terminated at 45' bgs.	
50-50										
55-55										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 11/11/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: HSA Bit Size: NA Auger Size: 4 1/4" Rig Type: CME-75 Truck Mount Sampling Method: SPT (2" Split Spoon)	Northing: 897250.82 Easting: 1231802.88 Casing Elevation: Borehole Depth: 47.0' bgs Surface Elevation: N/A Field Engineer Adam Chwalibog	Well/Boring ID: BH-8 Client: New York State Electric & Gas Energy East Corporation Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY
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Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

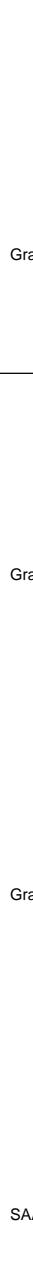
Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-8

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 47.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-4	15-17	1.5	9.4	4 4	7		15-17' bgs: Moderate MGP-like odor. Sheen in the groundwater. Bronze oil-like material and black tar-like material pooled on top of sample near 15' bgs.	
20-20		S-5	20-22	1.3	4.2	woh woh 2 2	2		Gray / brown Clayey SILT, trace fine sand. (Soft, Wet) 20-22' bgs: Faint MGP-like odor. Little bronze oil-like material on outside of spoon. Sheen in groundwater.	 Borehole tremied with cement-bentonite grout to grade
25-25		S-6	25-27	0.4	39.1	woh woh 1 1	1		Gray / brown fine SAND and SILT. (Very Loose, Wet) 25-27' bgs: Sheen in groundwater.	
30-30		S-7	30-32	1.2	5.3	1 2 2 3	4		Gray / brown SILT and fine SAND. (Loose, Wet)	
35-35		S-8	35-37	0.8	3.7	3 4	8		SAA (Loose, Wet)	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

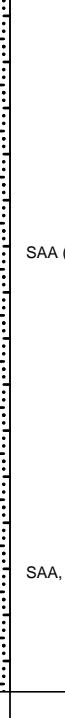
Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-8

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 47.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-8	35-37	0.8	3.7	4 6	8			
40-40		S-9	40-42	0.8	2.3	woh woh 1 4	1		SAA (Loose, Wet)	 Borehole tremied with cement-bentonite grout to grade
45-45		S-10	45-47	0.8	2.3	woh woh 2 5	2		SAA, except occasional 1/4" red Silty CLAY laminations. (Very Loose, Wet)	
50-50									Boring terminated at 47' bgs.	
55-55										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 11/10/05-11/11/05	Northing: 897216.90	Well/Boring ID: BH-9
Drilling Company: SJB Services, Inc.	Easting: 1231737.22	Client: New York State Electric & Gas
Driller's Name: Walt Ketter	Casing Elevation:	Energy East Corporation
Drilling Method: HSA		
Bit Size: NA	Borehole Depth: 45.0' bgs	
Auger Size: 4 1/4"	Surface Elevation: N/A	
Rig Type: CME-75 Truck Mount		
Sampling Method: SPT (2" Split Spoon)	Field Engineer Adam Chwalibog	Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

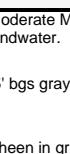
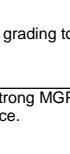
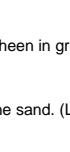
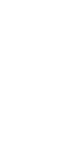
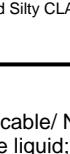
Client: New York State Electric & Gas
Energy East Corporation

Site Location:

**Western Plant Area
Oneonta Former MGP Site
Oneonta, NY**

Well/Boring ID: BH-9

Borehole Depth: 45.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-4	15-17	0.5	61	11 3	20		15-17' bgs: Moderate MGP-like odor. Black staining near 15' bgs. Sheen in groundwater.	
		S-5	17-19	1.4	24.4	9 11 11 3	22		SAA, except at 18.5' bgs gray fine SAND, some Silt. (Medium Dense, Wet) 17-18' bgs: Sheen in groundwater.	
- 20-20		S-6	19-21	1.2	225	16 19 15 6	34		Gray fine to medium GRAVEL, little fine to coarse sand. (Dense, Wet) 19-21' bgs: Moderate MGP-like odor. Black tar-like material occupying 70% pore space.	
		S-7	21-23	1.1	841	2 2 3 2	5		Black fine GRAVEL grading to gray Clayey SILT at 22' bgs. (Loose, Wet) 21-23' bgs: Strong MGP-like odor. Black tar-like material occupying 85% pore space.	Borehole tremied with cement-bentonite grout to grade
		S-8	23-25	1.2	0.7	1 2 2 3	4		Brown Clayey SILT and fine SAND. (Soft, Wet)	
- 25-25		S-9	25-27	1.3	14.9	1 2 2 2	4		Brown SILT, some fine Sand. (Loose, Wet) 25-27' bgs: Sheen in groundwater.	
		S-10	27-29	1.4	0.9	3 3 3 3	6		Brown SILT, little fine sand. (Loose, Wet)	
- 30-30		S-11	29-31	1.0	2.2	1 1 2 4	3		SAA (Very Loose, Wet)	
		S-12	31-33	1.0	0.4	4 4 5 6	9		SAA (Loose, Wet)	
		S-13	33-35	1.3	0.8	2 2 4 6	6		SAA (Medium Dense, Wet)	
- 35-35		S-14	35-37	1.2	0.3	2 2	7		SAA, except few red Silty CLAY laminations. (Loose, Wet)	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-9

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 45.0' bgs

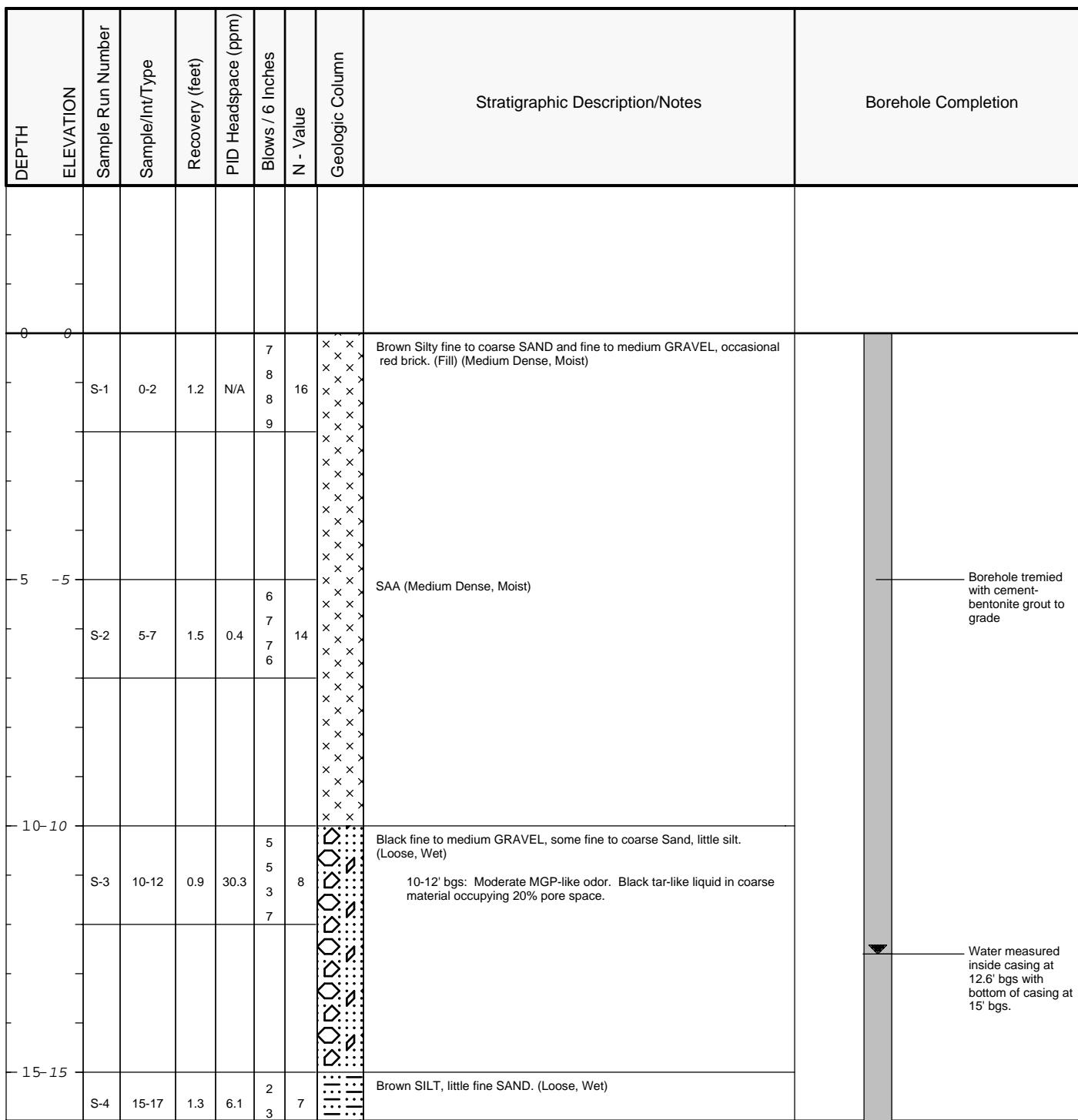
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-14	35-37	1.2	0.3	5 5	7		Brown SILT, some fine Sand. (Loose, Wet)	
		S-15	37-39	2.0	1.2	4 5 4 4	9		SAA (Loose, Wet)	
40-40		S-16	39-41	1.0	5.7	3 2 4 7	6		SAA (Medium Dense, Wet)	 Borehole tremied with cement-bentonite grout to grade
		S-17	41-43	2.0	2.0	10 12 15 7	27		41-43' bgs: Blows may be high because hammer not dropped properly.	
		S-18	43-45	1.6	1.6	4 5 6 6	11		SAA (Medium Dense, Wet)	
45-45									Boring terminated at 45.0' bgs.	
50-50										
55-55										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 12/6/05-12/7/05	Northing: 897135.74	Well/Boring ID: BH-11
Drilling Company: SJB Services, Inc.	Easting: 1231657.18	
Driller's Name: Walt Ketter	Casing Elevation:	
Drilling Method: HSA		
Bit Size: NA	Borehole Depth: 47.0' bgs	
Auger Size: 4 1/4"	Surface Elevation: N/A	
Rig Type: CME-75 Truck Mount		
Sampling Method: SPT (2" Split Spoon)	Field Engineer Adam Chwalibog	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-11

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 47.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-4	15-17	1.3	6.1	4 2	7		End 12/6/05 Start 12/7/05	
20-20		S-5	20-22	1.8	1.0	3 3 3 3	6		Brown SILT and fine SAND. (Loose, Wet)	Borehole tremied with cement-bentonite grout to grade
25-25		S-6	25-27	0.9	0.0	woh woh woh woh	N/A		Brown SILT, trace fine sand. (Very Loose, Wet)	
30-30		S-7	30-32	1.3	0.2	woh woh woh woh	N/A		SAA (Very Loose, Wet)	
35-35		S-8	35-37	1.5	0.0	woh woh	N/A		SAA (Very Loose, Wet)	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

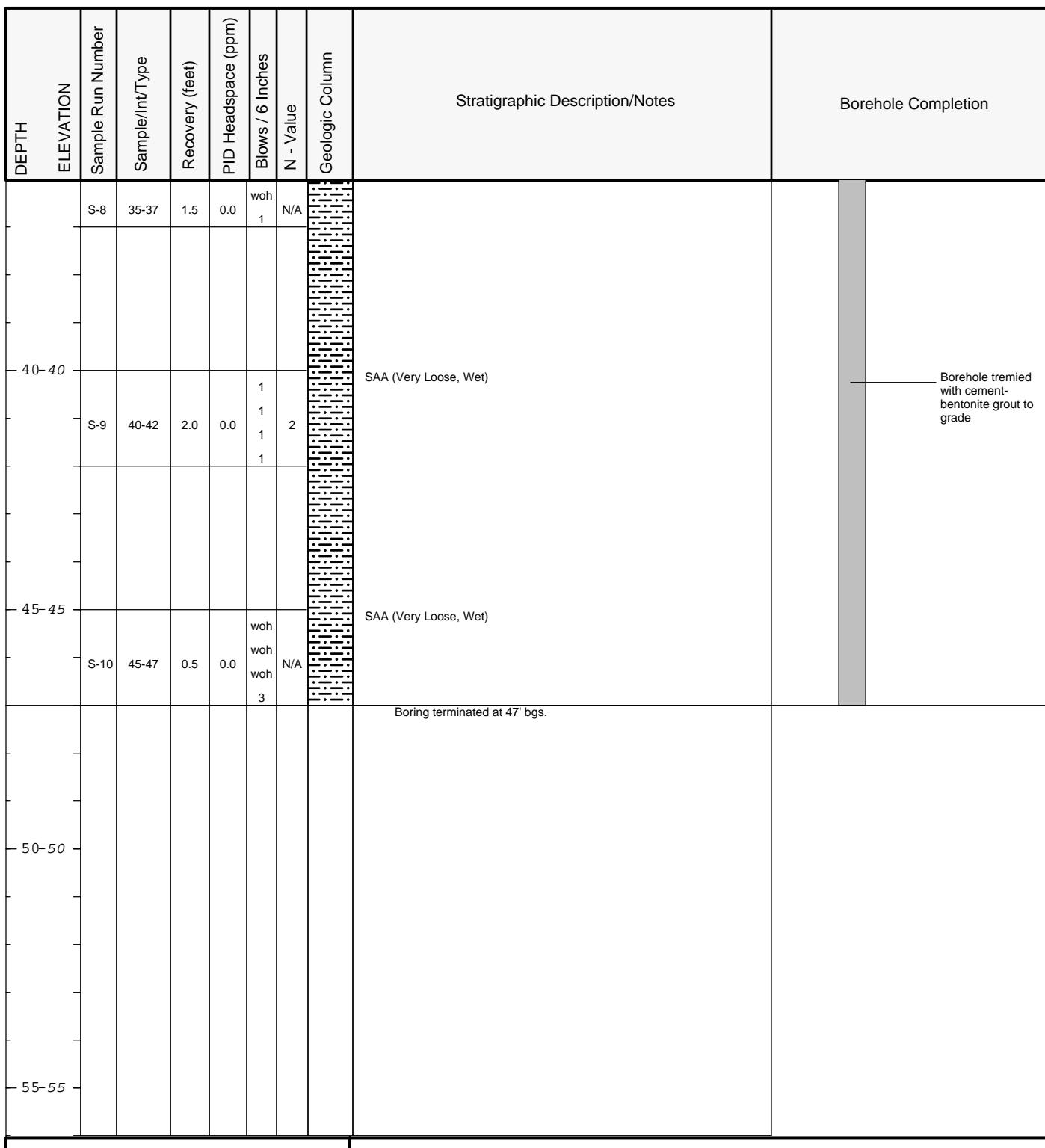
Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-11

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

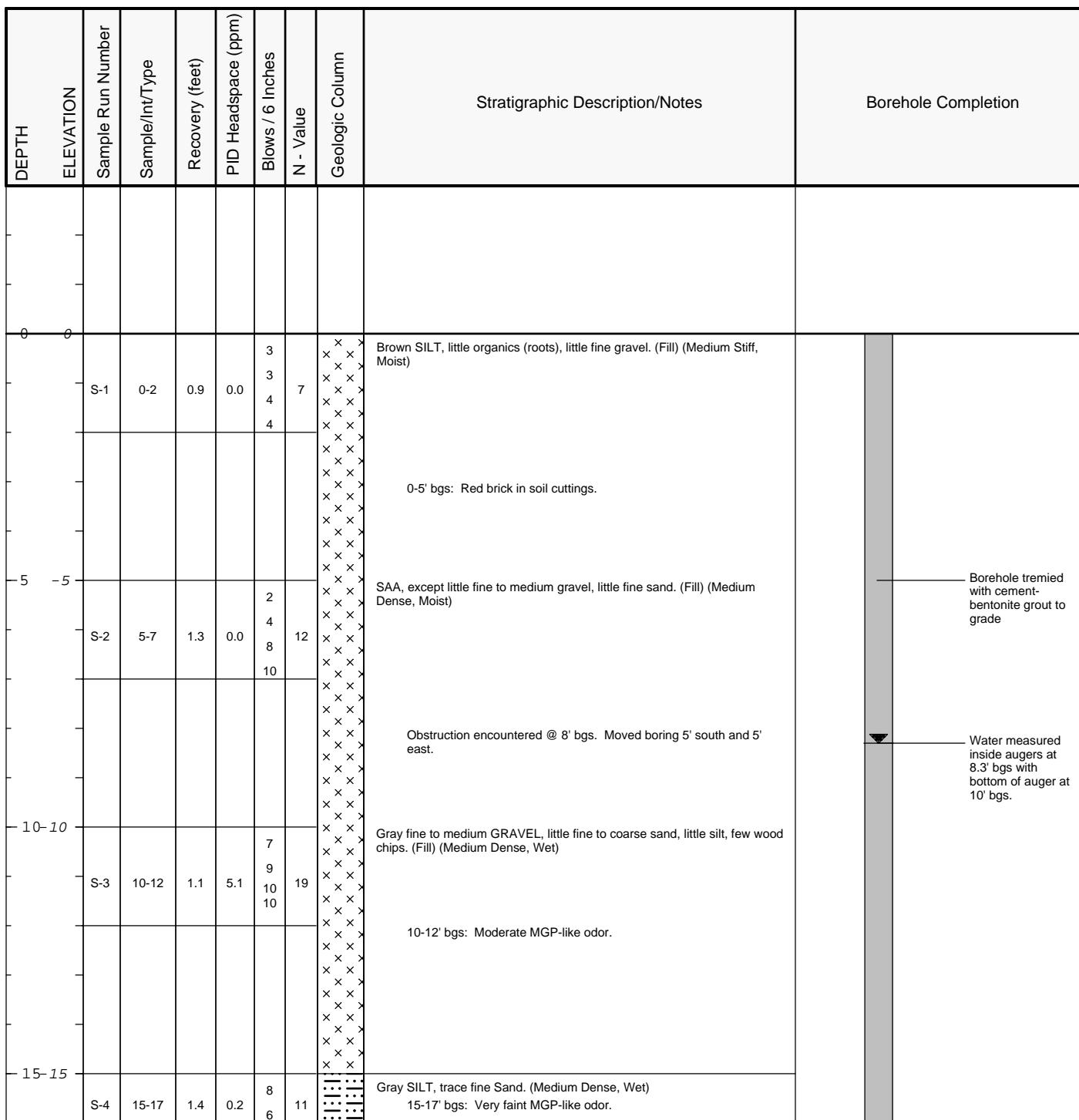
Borehole Depth: 47.0' bgs



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 12/5/05	Northing: 897101.83	Well/Boring ID: BH-12
Drilling Company: SJB Services, Inc.	Easting: 1231637.18	Client: New York State Electric & Gas
Driller's Name: Walt Ketter	Casing Elevation:	Energy East Corporation
Drilling Method: HSA	Borehole Depth: 45.0' bgs	Location: Western Plant Area
Bit Size: NA	Surface Elevation: N/A	Oneonta Former MGP Site
Auger Size: 4 1/4"		Oneonta, NY
Rig Type: CME-75 Truck Mount		
Sampling Method: SPT (2" Split Spoon)	Field Engineer: Adam Chwalibog	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-12

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 45.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-4	15-17	1.4	0.2	5 5	11		SAA (Medium Dense, Wet)	
		S-5	17-19	1.7	0.0	5 6 4	11		SAA, except few 1/4" brown fine SAND laminations. (Very Loose, Wet)	
20-20		S-6	19-21	1.8	0.0	1 1 1 2	2		Brown SILT and fine SAND. (Loose, Wet)	
		S-7	21-23	1.5	0.0	3 3 4 6	7		SAA (Loose, Wet)	
		S-8	23-25	1.5	0.0	3 3 4 5	7		Brown SILT, some fine Sand, 1/2" red Silty CLAY varve near 26' bgs. (Very Loose, Wet)	
25-25		S-9	25-27	1.3	0.0	woh woh 1 1	1		Brown SILT and fine SAND. (Loose, Wet)	
		S-10	27-29	1.7	0.0	1 2 2 2	4		SAA, except few 1/4" red Silty CLAY varves near 30' bgs. (Loose, Wet)	
30-30		S-11	29-31	1.4	0.0	woh 1 2 4	3		Brown fine SAND and SILT. (Medium Dense, Wet)	
		S-12	31-33	2.0	0.0	4 4 6 6	10		Brown SILT and fine SAND. (Very Loose, Wet)	
		S-13	33-35	1.4	0.0	woh woh woh 2	N/A		Brown SILT, some fine Sand. (Very Loose, Wet)	
35-35		S-14	35-37	1.7	0.0	woh woh	1			Borehole tremied with cement-bentonite grout to grade



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-12

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 45.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-14	35-37	1.7	0.0	1 1	1		SAA (Very Loose, Wet)	
		S-15	37-39	1.6	0.0	1 1 2 3	N/A		Brown SILT and fine SAND. (Very Loose, Wet)	
40-40		S-16	39-41	2.0	0.0	woh woh woh 2	N/A		SAA (Loose, Wet)	Borehole tremied with cement-bentonite grout to grade
		S-17	41-43	1.7	0.0	4 4 5 7	9		SAA (Medium Dense, Wet)	
		S-18	43-45	1.5	0.0	8 9 12 12	21		Boring terminated at 45' bgs.	
45-45										
50-50										
55-55										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 11/15/05	Northing: 897147.46	Well/Boring ID: BH-13
Drilling Company: SJB Services, Inc.	Easting: 1231768.55	
Driller's Name: Walt Ketter	Casing Elevation:	
Drilling Method: HSA		
Bit Size: NA	Borehole Depth: 43.0' bgs	
Auger Size: 4 1/4"	Surface Elevation: N/A	
Rig Type: CME-75 Truck Mount		
Sampling Method: SPT (2" Split Spoon)	Field Engineer Adam Chwalibog	



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-13

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 43.0' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes		Borehole Completion
		S-4	15-17	1.2	1386	5 5	10		15-17' bgs: Strong MGP-like odor. Black tar-like material and bronze oil-like material in coarse material occupying 70% pore space.		
		S-5	17-19	1.6	21.0	1 1 2 5	3		Gray SILT and fine SAND. (Loose, Wet)		
		S-6	19-21	1.3	6.9	2 2 3 3	5		SAA (Loose, Wet) At 20' drillers switched to double casing. Advanced boring using 3" casing inside 4 1/4" augers.		
20-20		S-7	21-23	2.0	2.1	2 2 2 2	4		Gray SILT, trace fine sand, few 1/4" red-brown Silty CLAY laminations. (Loose, Wet)		
		S-8	23-25	1.5	3.2	1 3 2	5		Brown SILT, little fine sand. (Loose, Wet)		
25-25		S-9	25-27	0.0	0.8	4 4 4 4	8		No Recovery		
		S-10	27-29	1.0	0.7	9 9 6 8	15		Brown SILT and fine SAND. (Medium Dense, Wet)		
		S-11	29-31	2.0	0.0	3 2 2 5	4		Brown SILT, some fine Sand. (Loose, Wet)		
30-30		S-12	31-33	2.0	0.0	4 5 5 8	10		Brown SILT and fine SAND. (Medium Dense, Wet)		
		S-13	33-35	1.9	0.0	7 4 4 5	8		SAA (Loose, Wet)		
35-35		S-14	35-37	1.6	0.0	4 4	8		SAA (Loose, Wet)		



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East Corporation

Well/Boring ID: BH-13

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 43.0' bgs

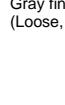
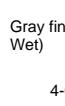
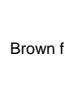
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-14	35-37	1.6	0.0	4 6	8		Brown fine SAND and SILT. (Medium Dense, Wet)	
		S-15	37-39	1.2	0.0	4 6 6 9	12		SAA (Medium Dense, Wet)	
40-40		S-16	39-41	1.6	0.0	5 6 7 7	13		SAA (Medium Dense, Wet)	Borehole tremied with cement-bentonite grout to grade
		S-17	41-43	2.0	0.0	6 6 6 6	12		Boring terminated at 43' bgs.	
45-45										
50-50										
55-55										



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 12/15/05	Northing: 897168.89	Well/Boring ID: SB-301
Drilling Company: SJB Services, Inc.	Easting: 1231634.00	Client: New York State Electric & Gas
Driller's Name: Walt Ketter	Casing Elevation: N/A	Energy East
Drilling Method: Drive and Wash Casing	Borehole Depth: 12' bgs	Location: Western Plant Area
Bit Size: N/A	Surface Elevation:	Oneonta Former MGP Site
Auger Size: 3" Casing		Oneonta, NY
Rig Type: Barge Mounted Tripod		
Sampling Method: SPT (2" Split Spoon)	Field Engineer Adam Chwalibog	

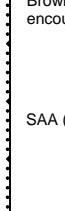
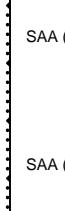
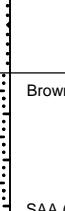
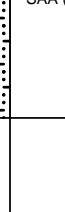
DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description/Notes		Borehole Completion
0	S-1	0-2	0.0	0.0	3 1 1 1	2		No Recovery		
	S-2	2-4	0.7	5.4	1 2 4 13	6		Gray fine to medium GRAVEL, some fine to coarse Sand, trace silt. (Loose, Wet)		
-5	S-3	4-6	0.5	7.6	46 44 42 38	86		Gray fine to medium GRAVEL, trace fine to coarse sand. (Very Dense, Wet) 4-6' bgs: Very faint MGP-like odor.		
	S-4	6-8	1.0	80.4	38 30 27 18	57		Brown fine to coarse SAND, some fine Gravel, trace silt. (Very Dense, Wet) 6-8' bgs: Moderate MGP-like odor. Sheen in groundwater. Occasional oil-like material in coarse soil occupying 10% pore space.		
	S-5	8-10	0.4	5.4	6 6 3 4	9		Brown SILT and fine SAND, little coarse sand. (Loose, Wet)		
10-10	S-6	10-12	1.6	4.0	6 3 4 4	7		Brown SILT and fine SAND. (Loose, Wet)		
15-15										



Remarks:

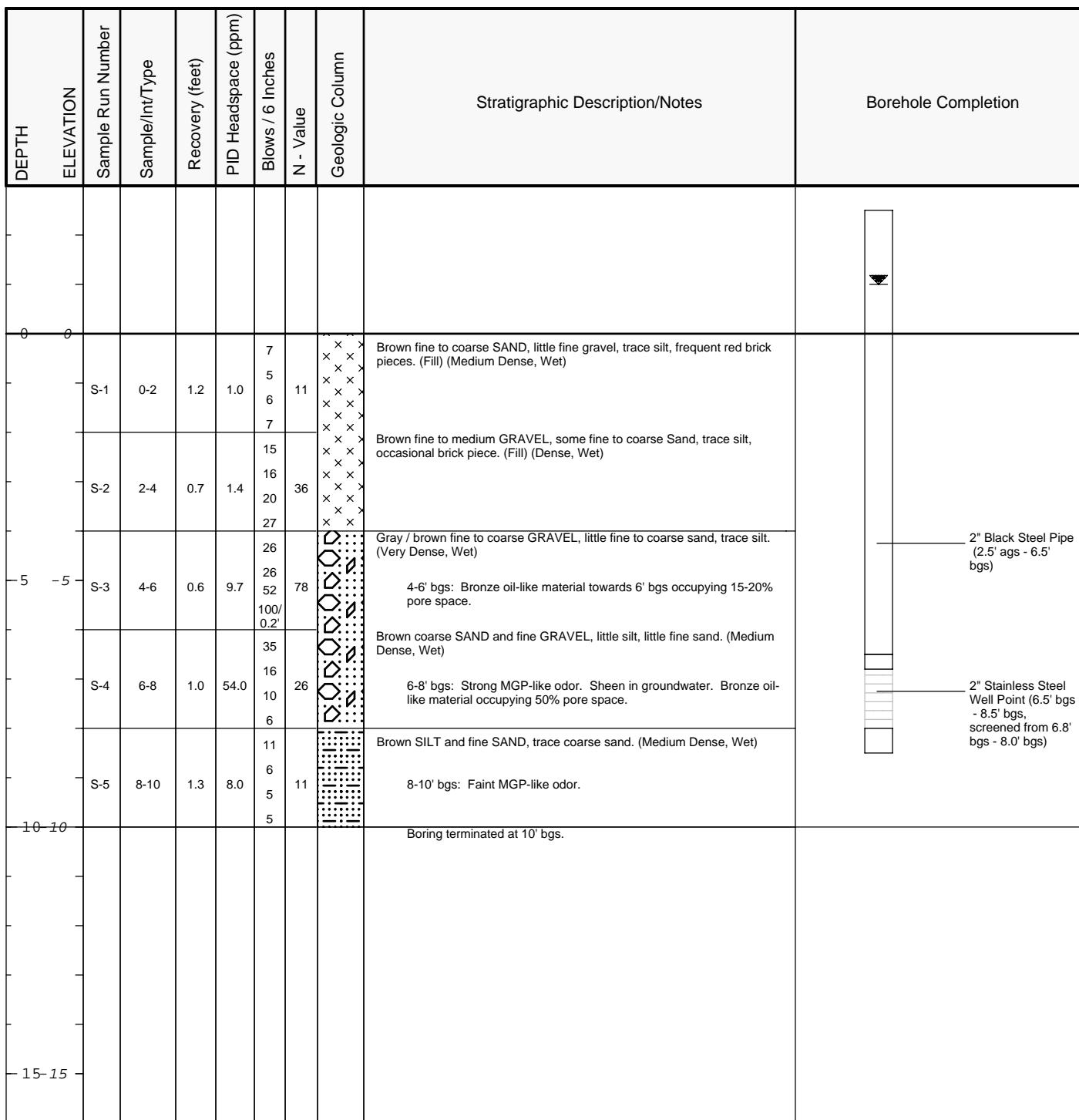
NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 12/14/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: Drive and Wash Casing Bit Size: NA Auger Size: 3" Casing Rig Type: Barge Mounted Tripod Sampling Method: SPT (2" Split Spoon)	Northing: 897187.99 Easting: 1231626.90 Casing Elevation: NA Borehole Depth: 12' bgs Surface Elevation: Field Engineer Adam Chwalibog	Well/Boring ID: SB-302 Client: New York State Electric & Gas Energy East Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY
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DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description/Notes		Borehole Completion
0	S-1	0-2	0.4	0.9	5 10 18 17	28		Brown fine to medium SAND and GRAVEL, little silt, frequent cobbles encountered. (Medium Dense, Wet)	SAA (Very Dense, Wet)	
	S-2	2-4	0.7	0.5	16 33 27 49	60		SAA (Very Dense, Wet)	SAA (Very Dense, Wet)	
-5	S-3	4-6	1.3	1.1	87 81 72 67	153		SAA (Very Dense, Wet)	SAA (Very Dense, Wet)	
	S-4	6-8	1.5	6.4	42 36 32 23	66		6-8' bgs: Faint MGP-like odor. Sheen in groundwater.	Brown SILT and fine SAND, trace fine gravel. (Medium Dense, Wet)	
	S-5	8-10	0.6	3.0	17 10 15 4	25		8-10' bgs: Faint MGP-like odor. Sheen in groundwater.	SAA (Loose, Wet)	
10-10	S-6	10-12	1.6	4.6	7 4 4 3	8		Boring terminated at 12' bgs.		
15-15										

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists	Remarks: NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.
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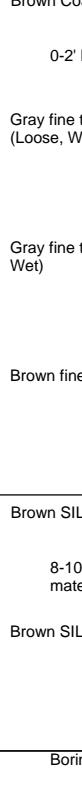
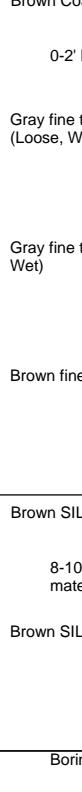
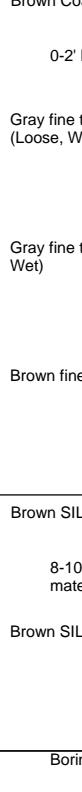
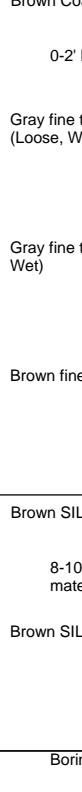
<p>Date Start/Finish: 12/20/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: Drive and Wash Casing Bit Size: NA Auger Size: 3" Casing Rig Type: Barge Mounted Tripod Sampling Method: SPT (2" Split Spoon)</p>	<p>Northing: 897183.90 Easting: 1231644.88 Casing Elevation: NA Borehole Depth: 10' bgs Surface Elevation: Field Engineer Adam Chwalibog</p>	<p>Well/Boring ID: SB-303 / PZ-2-05 Client: New York State Electric & Gas Energy East Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY</p>
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Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish:	12/21/05 - 12/22/05	Northing: 897203.19	Well/Boring ID: SB-304
Drilling Company:	SJB Services, Inc.	Easting: 1231652.72	Client: New York State Electric & Gas
Driller's Name:	Walt Ketter	Casing Elevation: NA	Energy East
Drilling Method:	Drive and Wash Casing	Borehole Depth: 12' bgs	Location: Western Plant Area
Bit Size:	NA	Surface Elevation:	Oneonta Former MGP Site
Auger Size:	3" Casing		Oneonta, NY
Rig Type:	Barge Mounted Tripod		
Sampling Method:	SPT (2" Split Spoon)	Field Engineer Adam Chwalibog	

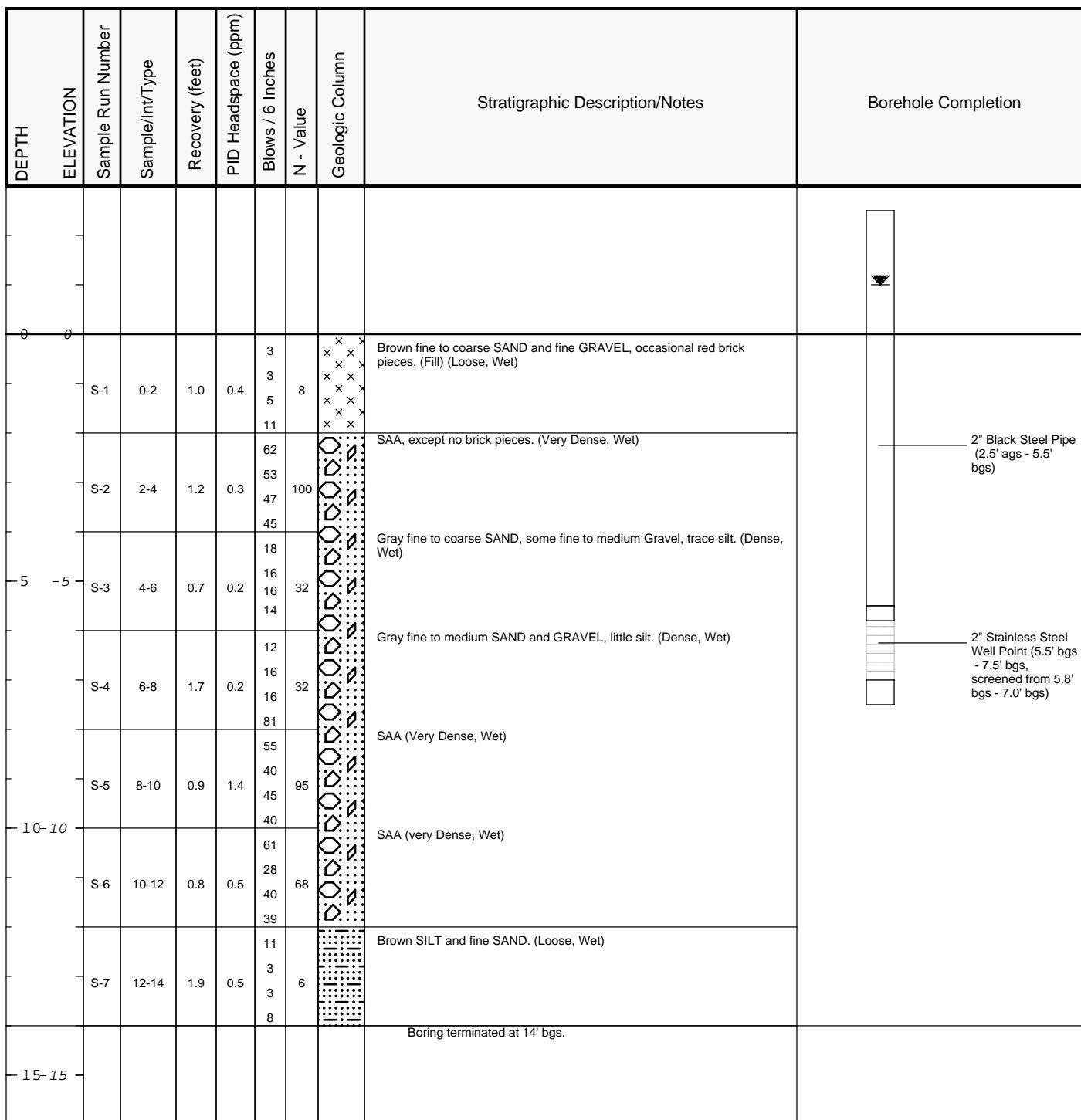
DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description/Notes		Borehole Completion
0	S-1	0-2	0.2	0.5	20 40 22 21	62		Brown Coarse SAND, little fine gravel. (Very Dense, Wet) 0-2' bgs: Cobbles observed on creek bed. Gray fine to medium GRAVEL, some fine to coarse Sand, trace silt. (Loose, Wet) Gray fine to medium GRAVEL, trace fine to coarse sand. (Very Dense, Wet) Brown fine to coarse SAND, some fine Gravel, trace silt. (Very Dense, Wet)		
-5	S-3	4-6	0.6	0.5	16 24 18 74	42		Brown SILT and fine SAND, little coarse sand. (Dense, Wet) 8-10' bgs: Moderate MGP-like odor. Occasional black / gold oil-like material occupying 10% pore space.		
10-10	S-4	6-8	1.0	1.1	20 15 15 11	30		Brown SILT and fine SAND. (Dense, Wet)		
15-15	S-6	10-12	1.6	5.3	19 6 4 4	10		Boring terminated at 12' bgs.		



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

<p>Date Start/Finish: 12/23/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: Drive and Wash Casing Bit Size: NA Auger Size: 3" Casing Rig Type: Barge Mounted Tripod Sampling Method: SPT (2" Split Spoon)</p>	<p>Northing: 897210.58 Easting: 1231674.64 Casing Elevation: NA Borehole Depth: 14' bgs Surface Elevation: Field Engineer: Adam Chwalibog</p>	<p>Well/Boring ID: SB-305 / PZ-1-05 Client: New York State Electric & Gas Energy East Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY</p>
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Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 12/7/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: HSA Bit Size: NA Auger Size: 4 1/4" Rig Type: CME-75 Truck Mount Sampling Method: SPT (2" Split Spoon)	Northing: 897105.35 Easting: 1231631.34 Casing Elevation: NA Borehole Depth: 18' bgs Surface Elevation: Field Engineer Adam Chwalibog	Well/Boring ID: SB-306 Client: New York State Electric & Gas Energy East Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY
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Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Client: New York State Electric & Gas
Energy East

Well/Boring ID: SB-306

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 18' bgs



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 12/8/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: HSA Bit Size: NA Auger Size: 4 1/4" Rig Type: CME-75 Truck Mount Sampling Method: SPT (2" Split Spoon)	Northing: 897120.09 Easting: 123643.27 Casing Elevation: NA Borehole Depth: 14' bgs Surface Elevation: Field Engineer Adam Chwalibog	Well/Boring ID: SB-307 Client: New York State Electric & Gas Energy East Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY
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Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 12/8/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: HSA Bit Size: NA Auger Size: 4 1/4" Rig Type: CME-75 Truck Mount Sampling Method: SPT (2" Split Spoon)	Northing: 897130.52 Easting: 1231650.22 Casing Elevation: NA Borehole Depth: 14' bgs Surface Elevation: Field Engineer Adam Chwalibog	Well/Boring ID: SB-308 Client: New York State Electric & Gas Energy East Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY
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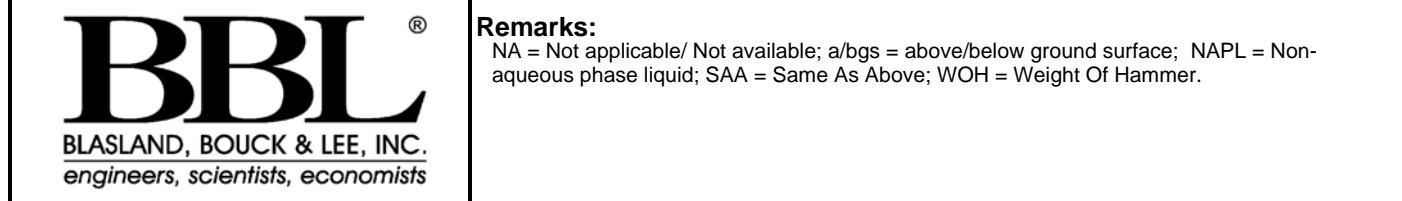
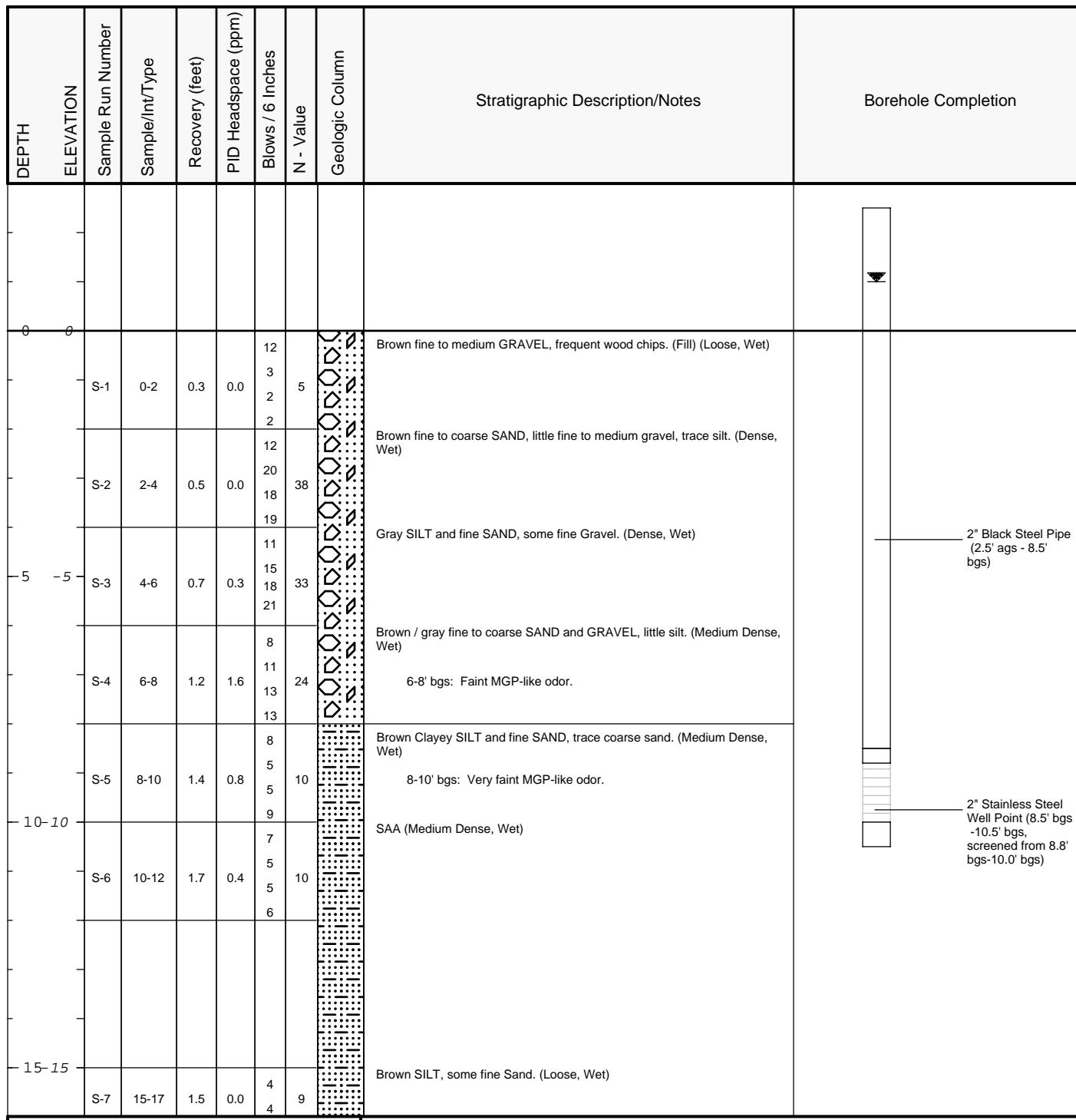
NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.

Date Start/Finish: 12/22/05	Northing: 897223.15	Well/Boring ID: SB-311
Drilling Company: SJB Services, Inc.	Easting: 1237223.15	Client: New York State Electric & Gas
Driller's Name: Walt Ketter	Casing Elevation: NA	Energy East
Drilling Method: Drive and Wash Casing	Borehole Depth: 14' bgs	Location: Western Plant Area
Bit Size: NA	Surface Elevation:	Oneonta Former MGP Site
Auger Size: 3" Casing		Oneonta, NY
Rig Type: Barge Mounted Tripod		
Sampling Method: SPT (2" Split Spoon)	Field Engineer Adam Chwalibog	

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description/Notes		Borehole Completion
0	S-1	0-2	0.2	0.3	16 22 20 24	44		Brown Coarse SAND, little fine gravel. (Very Dense, Wet)		
	S-2	2-4	0.7	0.2	20 14 35 26	49		Brown / gray fine to coarse SAND and fine to medium GRAVEL, trace silt. (Dense, Wet)		
-5	S-3	4-6	0.9	0.3	73 30 15 16	45		SAA (Dense, Wet)		
	S-4	6-8	0.9	0.5	11 10 10 12	20		Gray fine to coarse SAND and fine to medium GRAVEL, little silt. (Medium Dense, Wet)		
	S-5	8-10	1.1	0.6	20 22 30 36	52		SAA (Dense, Wet)		
10-10	S-6	10-12	1.0	0.2	21 22 15 6	37		SAA, except at 11.5' bgs grades to brown silt and fine sand. (Dense, Wet)		
	S-7	12-14	1.4	0.2	11 8 8 6	16		Brown SILT and fine SAND. (Medium Dense, Wet)		
-15-15								Boring terminated at 14' bgs.		

BBL BLASLAND, BOUCK & LEE, INC. engineers, scientists, economists	Remarks: NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.
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Date Start/Finish: 12/19/05 Drilling Company: SJB Services, Inc. Driller's Name: Walt Ketter Drilling Method: Drive and Wash Casing Bit Size: NA Auger Size: 3" Casing Rig Type: Barge Mounted Tripod Sampling Method: SPT (2" Split Spoon)	Northing: 897163.05 Easting: 1231623.94 Casing Elevation: NA Borehole Depth: 27' bgs Surface Elevation: Field Engineer Adam Chwalibog	Well/Boring ID: SB-310 / PZ-3-05 Client: New York State Electric & Gas Energy East Location: Western Plant Area Oneonta Former MGP Site Oneonta, NY
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Client: New York State Electric & Gas
Energy East

Well/Boring ID: SB-310 / PZ-3-05

Site Location:

Western Plant Area
Oneonta Former MGP Site
Oneonta, NY

Borehole Depth: 27' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description/Notes	Borehole Completion
		S-7	15-17	1.5	0.0	5 3	9			
	20-20	S-8	20-22	1.4	0.0	7 11 9 8	20		SAA (Medium Dense, Wet)	
	25-25	S-9	25-27	1.7	0.0	7 11 13 8	24		SAA (Medium Dense, Wet)	
	30-30								Boring terminated at 27' bgs.	
	35-35									



Remarks:

NA = Not applicable/ Not available; a/bgs = above/below ground surface; NAPL = Non-aqueous phase liquid; SAA = Same As Above; WOH = Weight Of Hammer.