NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C 625 Broadway, 12th Floor, Albany, NY 12233-7014 P: (518) 402-9662 I F: (518) 402-9679 www.dec.ny.gov

September 16, 2020

Mr. John C. Brussel, P.E. Arcadis of New York, Inc. One Lincoln Center 110 West Fayette Street, Suite 300 Syracuse, NY 13202

Re: Proposed Focused Soil Investigation for Guard Station Relocation – Approval with Modification
National Grid, North Albany Service Center
NM - North Albany, Site No. 401040

Dear Mr. Brussel:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the Proposed Focused Soil Investigation for Guard Station Relocation work plan pertaining to the above referenced site, provided to the Department on September 11, 2020. The Department and NYSDOH find the proposal to be acceptable with the following modification:

 Section II. Proposed Soil Investigation, last paragraph, first sentence: "Community air monitoring will be performed during all outdoor ground intrusive work in accordance..."

If you have any questions, please contact me at 518-402-2029 or email: greta.white@dec.ny.gov.

Sincerely,

Greta White, P.G. Project Manager

Remedial Action Bureau C

Division of Environmental Remediation

EC: D. Eaton, J. Brown, A. Fleck - NYSDEC

A. Perretta, J. Deming, R. Swider - NYSDOH

R. Groves, AC

G. Cummins, M. Root - NG



ANDREW M. CUOMO Governor HOWARD A. ZUCKER, M.D., J.D. Commissioner

LISA J. PINO, M.A., J.D. Executive Deputy Commissioner

September 16, 2020

Ms. Greta White, P.G.
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233

Re: Focused Soil Investigation for Guard Station Relocation

North Albany MGP Site

Site #401040

Albany, Albany County

Dear Ms. White:

I have reviewed the September 2020 Focused Soil Investigation for Guard Station Relocation for the above referenced site. I have no public health related comments to offer. I find the report acceptable. If you have any questions please contact me at (518) 402-7860.

Sincerely,

Anthony Perretta

Public Health Specialist 2

Bureau of Environmental Exposure Investigation

ec: J. Deming / e-File

R. Swider - NYSDOH CAEHP

R. Groves – ACHD

J. Brown / D. Eaton - NYSDEC Central Office

A. Fleck - NYSDEC Region 4



Ms. Greta White, P.G. Assistant Geologist New York State Department of Environmental Conservation 625 Broadway Albany, NY 12233-7017

Mr. Douglas MacNeal, P.E.
Project Manager
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7017

Subject:
National Grid
North Albany Former MGP
Albany, New York
NYSDEC Site No. 401040
Proposed Focused Soil Investigation for Guard Station Relocation

Dear Ms. White and Mr. MacNeal:

On behalf of National Grid, this letter presents a work plan for a focused soil investigation to evaluate conditions within the footprint of a proposed new guard station at the National Grid North Albany Service Center (see Figure 1 for site location). The proposed new guard station is within the footprint of the former manufactured gas plant (MGP) site (see Figure 2). The new guard house will be located on the left side when entering the site, ahead of a new security gate. The existing guard house, which is on the right side behind the current security gate, will be demolished. The new location for the guard house and gate will improve site security and entry screening efficiency.

The proposed soil investigation described herein will include characterizing soil within the guard house building footprint, associated utility corridors, and new gate foundations for disposal purposes. Findings from the soil investigation will be used to assess environmental requirements, including material handling, air monitoring, for National Grid's contractors that will be constructing the new guard station.

Relevant background information, including an overview of the proposed new guard station and findings from previous investigation nearby, is presented Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Tel 315 446 9120
Fax 315 449 0017

ENVIRONMENT

www.arcadis.com

Date:

September 11, 2020

Contact

John C. Brussel, P.E.

Phone:

315.671.9441

Emai

John.Brussel@arcadis.com

Our ref:

30058019 #10

below, followed by details of the proposed focused soil investigation, reporting, and schedule.

I. BACKGROUND INFORMATION

Design drawings prepared by Nelson Associates Architectural Engineering show the construction of a new approximately 30-foot long by 20-foot wide slab-on-grade guard house on the west side of the driveway entrance from Broadway and a new 33-foot long aluminum sliding gate and 14-foot long traffic arm extending across the driveway, opposite the guard house (the layout is shown on Drawing C101 in Attachment 1). Excavations are anticipated for the following:

- Guard Station Foundation: The design drawings show a foundation system consisting of a continuous 2-foot wide, steel-reinforced concrete spread footer extending beneath the perimeter of the new guard house with an 8-inch wide continuous pier supporting the guard house walls. The base of the footing is shown to be on undisturbed soil at a depth of 5 feet below the top of the building floor slab, which is slightly above the existing grade. Excavation at the footing locations is anticipated to extend approximately 5 feet below ground surface (bgs) and be roughly 4 feet wide to allow for construction of the 2-foot wide concrete footer, resulting in the generation of approximately 75 cubic yards (CY) of excavation spoils. The drawings show the new 4-inch thick reinforced concrete floor slab on a 6-inch thick compacted gravel base. The excavation for this gravel base will add approximately 10 CY of excavation spoils.
- *Utility Trenches*: The design drawings show a utility corridor extending approximately from the northeast corner of the guard house toward the northwest corner of Building 2 for the following:
 - Storm Sewer Pipe: Approximately 105 lineal feet (LF) of new 3-inch diameter storm sewer pipe will convey roof drainage to an existing catch basin off the northwest corner of Building 2. The invert of the new storm sewer pipe at the catch basin is shown to be 2.1 feet bgs. A utility detail shows a minimum of 4-inches of bedding material beneath the pipe. Based on this information, the average excavation depth may be approximately 2.5 feet bgs. Assuming the pipe trench is 2.5 feet wide, the trench excavation will generate approximately 24 CY of spoils.
 - Electric Conduit. Approximately 170 LF of new electric conduit will bring electrical service from Building 2 to the new guard station. The trench for the conduit, like that for the storm sewer pipe, is anticipated to be 2.5 feet wide and 2.5 feet deep, generating approximately 40 CY of excavation spoils.
 - Water Pipe: Approximately 190 LF of new 1¼-inch diameter pipe will supply water from Building #2 to the new guard station. The minimum burial depth for the new water pipe is 5 feet bgs. Assuming the trench for the water pipe is 2.5 feet wide and 5.5 feet deep (to allow for at least 4-inches of bedding material), the pipe trench excavation will generate approximately 100 CY of spoils.

The design drawings also show: (1) new ¾-inch diameter gas pipe extending approximately 55 LF from the northwest corner of the new guard station to an existing 2-inch diameter gas main that extends along the western property boundary; and (2) approximately 10 LF of sanitary sewer tying into an existing sanitary sewer pipe in the immediate area. The top of the gas pipe is required to be beneath at least 3.5 feet of cover and the sanitary sewer is anticipated to be beneath a similar depth

of cover. Both of these utilities will require trenches that are approximately 2.5 feet wide and 4 feet deep (for total gas pipe and sanitary sewer pipe excavation spoils of 24 CY).

• Sliding Gate and Traffic Arm Excavations: The design drawing notes indicate that the foundation for the new 33-foot long sliding gate will be 20-inches long by 30-inches wide and 54-inches high with a 6-inch reveal above grade and placed on a 6-inch thick bed of compacted subbase. The excavation for this foundation is anticipated to be 44-inches long by 54-inches wide and 54-inches deep, resulting in approximately 3 CY of spoils. The design drawings indicate that the foundation for the new 14-foot long traffic arm will be 23-inches square and 36-inches high with a 4-inch reveal above grade and placed on a 6-inch thick bed of compacted stone. The excavation for this smaller foundation is anticipated to be approximately 47-inches square and 38-inches deep, resulting in approximately 2 CY of spoils.

Based on the estimates above, the guard station construction is anticipated to generate approximately 278 CY of excavation spoils that will need to be properly managed. The typical utility trench detail shows trenches in paved areas being backfilled with pipe bedding material (crushed stone) and select fill. The trench detail allows excavated soil to be reused as backfill at least 12-inches above subsurface utilities in grass-only areas. Since most or all of the trenches are within paved areas, most or all of the excavated material will require offsite transportation and disposal.

Based on review of historical site investigation reports and data, soil within the footprint of the proposed guard station construction has not previously been characterized. Soil borings drilled closest to the proposed guard station construction area as part of previous environmental investigations include SB-9, SB-13, and SB-112, which are shown on Feasibility Study Report Figure 1-16 (included in Attachment 2). As indicated on the figure and soil boring logs (see Attachment 3), no coal tar dense non-aqueous phase liquid (DNAPL) or sheens were encountered in the soil samples recovered from these three borings, except for a slight sheen from 10 to 12 feet bgs at SB-112. The concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs) detected in samples collected from the borings are well-below the 10 part per million (ppm) and 500 ppm soil cleanup objectives, respectively, presented in the New York State Department of Environmental Conservation (NYSDEC) Record of Decision for the site, dated March 2016. The BTEX and total PAH analytical results for the soil samples collected from these borings are summarized in the table below:

Soil	Sample Depth	Concentration (ppm)					
Boring ID	(feet bgs)	BTEX	Total PAHs				
	6-8	0.01	31				
SB-9	12-14	ND	ND				
	20-22	0.04	1.1				
SB-13	2-4	0.21	1.8				
SB-112	10-12	ND	91				
SD-112	18-20	ND	5.1				

Although the potential for encountering NAPL-impacted soil within the proposed excavation limits for the proposed new guard house and utilities is low, further investigation will be performed as described below to assess the potential presence and extent of MGP impacts in the immediate construction area and

provide data to evaluate soil handling/treatment/disposal requirements for materials to be excavated during construction.

II. PROPOSED SOIL INVESTIGATION

Dig-Safely New York will be contacted by Arcadis' drilling subcontractor, Parratt-Wolff, Inc. of East Syracuse, New York, approximately one week before the start of the proposed soil investigation. Arcadis subcontractors are scheduled to perform the following work on September 21, 2020, two days before the start of soil boring/sampling work:

- CT Male Associates will conduct field surveying to locate and mark proposed soil boring locations based on coordinates obtained from mapping (i.e., coordinates for the sampling locations as overlaid on the AutoCADD file for Design Drawing C101).
- GPRS, Inc. will conduct a geophysical survey using electro-magnetic and ground-penetrating radar techniques to further evaluate subsurface utility locations.

Parratt-Wolff is scheduled to be onsite on September 23 and 24, 2020 to complete soil borings via vacuum excavation at the eight locations described below and shown on the figure in Attachment 1. Vacuum excavation is proposed in lieu of direct-push drilling given the shallow depth of the borings (6 feet or less) and potential to encounter unmarked utilities/debris.

Soil Boring ID	Proposed Structure	Depth (feet bgs)
SB-201	Natural gas pipe alignment	5
SB-202 & SB-203	Guard station spread footer foundation	5
SB-204	Sliding gate pedestal/foundation	5
SB-205 & SB-206	Storm sewer alignment	4
SB-207 & SB-208	Water main alignment	6

Soil samples will be collected from each boring at approximately one-foot depth intervals for visual characterization (soil classification, color, texture, moisture content, potential MGP impacts) and photoionization detector (PID) headspace screening. Soil samples from five of the eight borings (one soil sample per boring for a total of five samples) will be submitted to Eurofins TestAmerica of Buffalo, New York for laboratory analysis for the waste characterization parameters required for offsite thermal treatment/disposal at the ESMI facility in Fort Edward, New York:

- Polychlorinated biphenyls (PCBs) using United States Environmental Protection Agency (USEPA)
 SW-846 Method 8082A
- Target Compound List (TCL) VOCs using USEPA SW-846 Method 8260C
- TCL SVOCs using USEPA SW-846 Method 8270D
- Target Analyte List (TAL) inorganic constituents using USEPA SW-846 Methods 6010C/7471B
- Total cyanide using USEPA SW-846 Method 9012B
- Total petroleum hydrocarbons (TPH) diesel range organics (DRO) using USEPA SW-846 Method 8015D

TPH gasoline range organics (GRO) using USEPA SW-846 Method 8015D

The soil samples selected for laboratory analysis will be biased toward intervals exhibiting the greatest impact (if any), based on visible staining, elevated PID readings, or obvious odors, if encountered. In the absence of obvious impacts, the soil samples will be collected from the first 0.5-foot interval below the asphalt pavement and stone subbase and from borings SB-201, SB-203, SB-204, SB-205, and SB-208. This will provide a uniform distribution of data with one sample per approximately 55 CY of material to be generated by construction (exceeding typical minimum characterization sampling frequencies for waste profiling). Photographs will be taken to document conditions encountered in the borings (i.e., looking into the borings and showing samples recovered from the borings) and observations will be documented in soil boring logs.

The soil borings will be backfilled using material removed from the borings, assuming it contains no DNAPL and does not exhibit an obvious odor. If DNAPL or obvious odors were to be encountered, the soil removed from the boring will be placed in 55-gallon drums for offsite transportation and disposal by National Grid's waste disposal vendor (NRC or Capitol Environmental). In that case, the boring would be restored with imported clean gravel. The surface at each location will be restored using concrete tinted black to match the surrounding pavement.

Based on review of the boring logs in Attachment 3 and historical groundwater elevation data for monitoring wells closest to the investigation work area (i.e., wells formerly located in the parking lot north of the new guard house location), the water table is anticipated to be approximately 5 to 6 feet bgs in the area. If groundwater is encountered within a boring before reaching the target depth, the boring may be terminated early depending on the volume of water entering the boring.

Community air monitoring will be performed during the outdoor drilling/sampling in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP) included in Appendix 1A to the NYSDEC's Program Policy Document titled, DER-10 / Technical Guidance for Site Investigation and Remediation, dated May 3, 2010. This will involve monitoring for VOC vapors and particulates at one upwind and one downwind monitoring station. The air monitoring stations will be adjusted in the morning and afternoon, as needed, based on changes in prevailing wind direction. The monitoring equipment will calculate 15-minute running average concentrations, which will be compared to the action levels specified in the CAMP.

III. INVESTIGATION REPORT

Arcadis will prepare a letter report to the NYSDEC summarizing the fieldwork, findings, and proposed environmental requirements for the guard station relocation construction based on findings of the sampling. The letter will address the following aspects of the planned construction: health and safety, dust/vapor/emissions controls, community air monitoring, excavation/material handling, water management, imported fill, demarcation, and decontamination, similar to what was provided in the September 27, 2019 letter work plan for the Versaire building drainage improvements. The letter report will be supported by the following:

 Data tables presenting the analytical results compared to commercial- and industrial-use soil cleanup objectives (SCOs) presented in Title 6 of the New York Codes, Rules and Regulations (6 NYCRR)
 Part 375-6.8(b) and ESMI acceptance criteria, as applicable. Ms. White and Mr. MacNeal September 11, 2020

- Figures showing the site location, site layout, proposed guard station with utility locations and soil boring/sampling locations, and analytical results for constituents exceeding SCOs.
- Soil boring logs.
- Laboratory analytical data reports (electronic attachment only).

Because the analytical data are intended primarily for waste characterization purposes, data validation is not proposed.

IV. SCHEDULE

As indicated above, a geophysical survey is scheduled for September 21, 2020 to pre-clear the proposed soil boring/sampling locations for subsurface utilities. The soil boring (vacuum excavation) work is scheduled to begin on September 23, 2020 and anticipated to take two days to complete. The schedule for the fieldwork is subject to change based on weather conditions (e.g., heavy rain) or unexpected field conditions during the vacuum excavation/sampling. Laboratory analysis of the proposed soil samples will be performed on a standard turnaround with results available approximately two to three weeks following sampling (on or around October 16, 2020). We anticipate sending the investigation summary letter report to the NYSDEC within approximately four weeks following receipt of laboratory analytical results (by November 13, 2020).

We await any NYSDEC comments or approval of the work plan presented above. Let us know if you would like to visit the site during the investigation, and we can arrange to meet you there. Please note that COVID-specific safety requirements (body temperature check, face coverings, social distancing, etc.) will be required for this work in addition to the use of standard personal protective equipment (hard hat, safety glasses, reflective vest, and steel-toe boots).

Please do not hesitate to contact Garry Cummins (National Grid Site Investigation and Remediation Project Manager at 315.440.5825) or the undersigned at 315.671.9441 if you have any questions or need additional information.

Sincerely,

Arcadis of New York, Inc.

John C. Brussel, P.E.

Principal Engineer/Certified Project Manager

Copies:

Andrew R. Blaszkow, Nelson Associates Architectural Engineering Gerald P. Cummins, National Grid Matthew Root, National Grid Steven Plansker, National Grid Kenneth Keenahan, National Grid

Matthew S. Hysell, P.E., Arcadis of New York, Inc.

Enclosures:

Figures

- 1 Site Location Map
- 2 Site Layout and Proposed Soil Investigation Area

Attachments

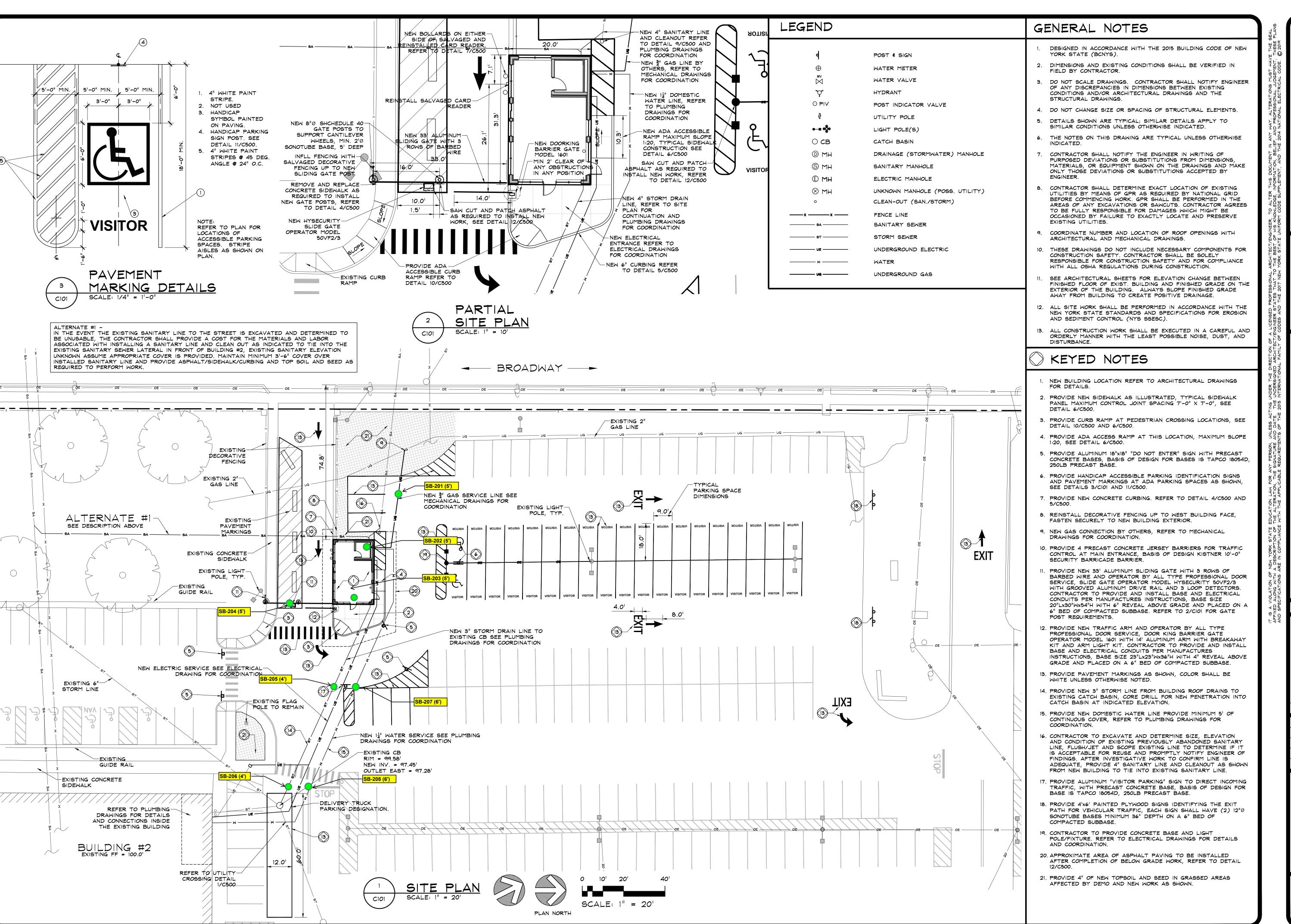
- 1 Guard Station Relocation Design Drawing and Proposed Soil Boring Locations
- 2 Total BTEX/PAHs in Soil
- 3 Soil Boring Logs

FIGURES

ST: DAVIS, NATHI

ATTACHMENT 1

Guard Station Relocation Design Drawing and Proposed Soil Boring Locations



NELSON ASSOCIATES

COPYRIGHT 2019

ALBANY SERVICE CENTER
ARD STATION ALTERATIONS
AND SITE UPGRADES
1125 BROADWAY
MENANDS, NEW YORK 13204

PROJECT NO. 19-2038

REVISION DATE BY

DATE 09/13/19

DRAWN BY DRK

CHECKED BY PNN

APPROVED BY PNN

AS NOTED

SHEET TITLE

SITE PLAN

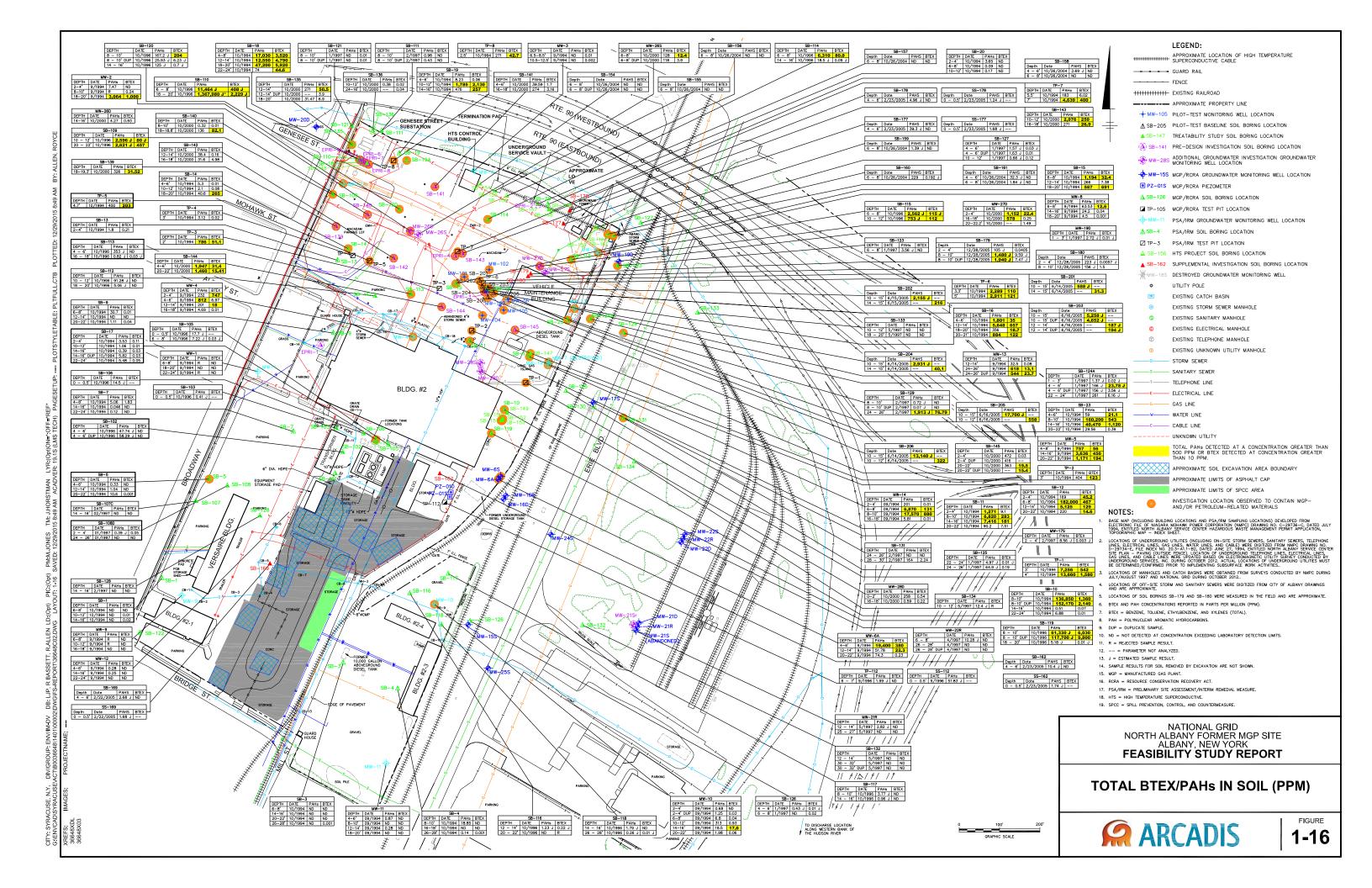
SCALE

SHEET NO.

C101

ATTACHMENT 2

Total BTEX/PAHs in Soil



ATTACHMENT 3

Soil Boring Logs (SB-9, SB-13, and SB-112)

LOG OF BORING

PROJECT: Wragam Mohawk BORING NUMBER: 88 - 9 DATE STARTED: \$015/94 PROJECT NO: LOCATION: N ALBORY, NY DATE COMPLETED: 10/5/94 GEOLOGIST: K. Wacbreyov **GROUNDWATER DEPTH:** DRILLER: STB DWILLING **ELEVATION:** DRILLINGSAMPLING METHOD: 41/4"HSA 2" Carbon Sted Split Spoon SAMPLE DEPTH BLOWS RECO-PRO-USCS MATERIAL COLLECTION HNu COMMENTS D VERY FILE CLASS (feet) per 6° DESCRIPTION Time Date ppm 0 .5 10/5/44 C-17 "Med brn. silfyfm SMND, tv. f. grv1, few black ashy fragnants, sl. morst. 2-3-3 15" 0833 10/5/94 MAP 2 0-3" asabore. 7" 0336 615194 4-34-FILL 3-7": Med brnf-m SAND, 11 HCc-tr. SiH, moist. 5 FILL granshie y-as above in 0240 10/5/4y 1-1-1-6 0-3": as above 0043 10/5/44 10pp , peak > 100pp 74" 1-2-1-11 FILL 3-12": Lf. greybon f-c89ND and SILT, tr. clay & f-grvl bruk chants at base saturated. 499 6-81 PT fragments must fosaturate 8 2-2-4 18" of woodfragments, moist. 700c 40 odors 10 0-2": as above 0057 10/5/01 20 m, peak 7100 Z-14": Medgray-green clayey f-CSAND, 11the-tr. f-mgrv1, muist to suburated. 1-7-3-5 NOTES: PAGE 1 OF 2

LOG OF BORING

	000										
CE	OCATION OCATION	N: N.All	coreg	UY		DATE STARTED: 10/5/94 DATE COMPLETED: 10/5/94 GROUNDWATER DEPTH: ELEVATION:					
DRILLING/SAMPLING METHOD: LILLY HEAT 2"COLLECTION STOLL SPORT SAMPLE DEPTH BLOWS RECO-PRO-USCS MATERIAL COLLECTION HIND ID (feet) per 6" VERY FILE CLASS DESCRIPTION Time Date ppm											
_	12			FILE	CLASS		Time	Date	ppm		
8B-9		4-3-4	15"		5P	3-154: Mad may cree info	0902	₩ 5 44	SAP	- Indicator	
	16	13	21"		6P	0-22": Medgrey-f-c8#ND anolf-CGPYL, some-little clay, fow shale-frequents.	0912	10 5 44	UNB	3'sporn	
	15	3-5-7- 11	1611			0-10": Med grayf-csoffND, saturated: 10-10": Medgrey f-csofND, and f-MGPVL, little Blot, saturated	१९११	1015144	عاطر	n, peak10ppn	
12.2	20	10-11- 14-11	24"		nu		0922	1015/94	4pp	, peak 20 pm	
\$13-9 10-12		10 - 50/ 125	, 7"		nu	0-6": as above, more stude 16-7": solid studes for mathemal, parameted at: Borring terminated at: 20.6'.	0939	p 5 A4		5"spoon - solid ghale in spoon sho	
ı						Borring terminated at.		• -			
	NOTES:										
AGELO	FL			A							

LOG OF BORING

LO	PROJECT: NIAGAM NORWAL PROJECT NO: LOCATION: N. ALBANY, NY GEOLOGIST: K. Mac Greyov DRILLER: SSB ELEVATION: DRILLING/SAMPLING METHOD: 4 14 14 18 A 2" Curbon Steel Spin Spotn												
	AMPLE DEPTH BLOWS RECO- PRO- USCS MATERIAL COLLECTION HALL COMMENTS												
SAMPLE	(feet)	per 6°			USCS		Time	Date	ppm	COMMENTS			
	.5	2 11 13				asphalt	-						
	2_	3-4-4	16"		FILL	0-13": Med-dk brn f-c 871NB, little sill and f-ongrvl, mast 13-16": Med brn -61 kf 871ND and SILT, very Must							
513-13 2-4'		4-4-5- 50/3"	18"		FILL	0-18": Med brn-bikf. STND and SILT, revy maist to saturated.	o745	ાગામું ૧૫	3.4	opn Inclicators			
						Borny terminated at 3.75'							
PAGE 1 O	NOTES:												

Date Start/Finish: 10/09/96 - 10/10/96

Drilling Company: SJB Driller's Name: Jim Lamm

Drilling Method: Hollow Stem Auger Bit Size: Auger Size: 4.25" ID Rig Type: CME 550 ATV Spoon Size: 2" and 3" 0D Hammer Weight: 140-15 Height of Falt: 30-in. Northing: 1398102.9808 Easting: 696700.9998

Borehole Depth: 20.2 ft. Ground Surface Elev.: 21.65 ft.

Descriptions by: Ronald D. Kuhn

Boring No. SB-112

Client:

Niagara Mohawk Power Corporation

Site:

1125 Broadway Albany, New York

ОЕРТН	ELEVATION	Sample Interval	Spoon Size (in,00)							Boring Construction				
gs elevation 21.65 ft.				-						GROUND SURFACE		2	п	
_	20 _	(0-2')	2"	- 9 6 6	15	LI	0.0	AS SW/	000000	Black Asphalt. Black fine to medium SAND, coal, slag, glass, and brick, trace Silt and fine to medium Gravel, damp.	ua			
		(2-4')	2"	16 32 28 7	60	1.2	0.0	FΪ	0000000					
_ 5	. –	(4-6')	2"	2 6 4 4	10	0.8	0.0	FI		Dark gray to black slag, little fine medium Sand, trace Silt, saturated	to		Type 1 por cement/5% bentonite (to 20.2' bg	grout 0'
_	5 <u> </u>	(6-8')	2"	2 1 1 1	2	0.7	0.0	FI		Gray ash, saturated. Gray ash, trace fine Sand,			10 20.2 by	js
-10	-	(8-10')	2"	WOH (18") 1	WOH	2.0	0.0			saturated.				
	ν _	(10-12')	3"	3 14 12 16	26	14	1.0	ML SP		Black stained SILT, slight sheen, moist to wet. Brown SILT, trace fine Sand, sligh odor, slight sheen, wet. Gray fine SAND, trace natural	•			
	-	(12-14')	3"	3 5 9 14	14	14	0.0	SM		Gray fine SAND, trace natural corganics material, slight odor, wet. Gray fine to medium SAND, little fir to medium Gravel and Silt, trace coarse Sand, saturated.				
15_	_	(14-16')	3"	9 24	50	NR	NA							
7	BLASLA engir	NO, BOUCK	} & & sc16	LEE, IN	<u>()</u>		Labor	tted s	s for	mple intervals (10-12") and (18-20") to Galson analysis of PCBs, BTEX, PAHs, TAL Inorganics, and t-spoon refusal.	Date	Satur e / Time	Elevation	Depth

Project: 364.69.030

Script: BBL-bor1 Date: 10/16/97 Page: 1 of 2

Site:

1125 Broadway Albany, New York

Client:

Niagara Mohawk Power Corporation

Boring No. SB-112

Total Depth = 20.2 ft.

ОЕРТН	ELEVATION	Sample Interval	Spoon Size (in,00)	Blows/6 In.	z	Recovery (ft.)	PID (ppm) Headspace	USCS Code	Geologic Column	Stratigraphic Description		(Boring Construction	n
	_	(14-16')	3"	26 21	50	NR	NA			Gray fine to medium SAND, little fine to medium Gravel and Silt, trace	•			
_	5 _	(16-18')	3"	16 23 43 40	66	0.4	0.0	SM		coarse Sand, saturated.*			Type 1 poi cement/59 bentonite to 20.2' bo	grout 0'
- ~	-	(18-20')	3"	9 38 50/0.4	Ref	0.8	0.0				-			
—20 —	0 -	(20-22')	3"	50/0.3	Ref	0.2	0.0	SH		Dark gray weathered SHALE, saturated. (SH) Split-spoon refusal at 20.3' bgs.	1			
	-										5			
—25 —														
-	-5 _ -													
- -30										¥				
-	-ю <u> </u>													
-				5										
35														
	BLASLAI	BEND, BOUCK	3	EE, INC	,		Remarl Boring		ted to	grade using Type 1 portland cement/5% bentonite.	Date	Satura / Time	Elevation	