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ANALYSIS OF SOIL BORINGS AND TEST TRENCHES PROPOSED FISH MARKET RELOCATION HUNTS POINT BRONX, NEW YORK

OD DMEOUX

& Fulton Fish Market Hunts Point

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LIST OF PERSONNEL

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- Principal Investigator Author

Mark Whitby

- Graphics

Lee Weber

- Word Processor



INTRODUCTION

The purpose of this study is to analyze soil borings and test trenches completed at the proposed location of the relocation of the Fulton Fish Market, Hunts Point, Borough of the Bronx. The borings and trenches are being analyzed to determine whether there is potential for significant archaeological deposits here. This review was requested by the staff of the New York City Landmarks Preservation Commission in their Environmental Review dated March 5, 2001. An Archaeological/Historical Sensitivity Evaluation Report was completed for this project during February 2000. That report indicated that remains from the last half of the nineteenth century and first part of the twentieth century could survive in the southeastern portion of the project area. The report also concluded that the project area could have been utilized during prehistory, but that such may well have been disturbed or destroyed by nineteenth and twentieth century development. From the 1920s through the 1960s the project area was a coal gassification plant (Greenhouse Consultants Inc. 2000:18-19).

The project area is located within the neighborhood known as Hunts Point. It is bounded by Ryawa Avenue to the north, Halleck Street to the west, Hunts Point Avenue to the east, and the East River to the south. See Figure 1 for the location of the project area.

During the last year another historic map depicting the project area was found. This is taken from the 1874 Topographical Atlas by Egbert L. Viele. This map shows the project area as vacant. A road passes through leading to Spofford Point. The nearest structures are shown on a rise to the northeast. See Figure 2

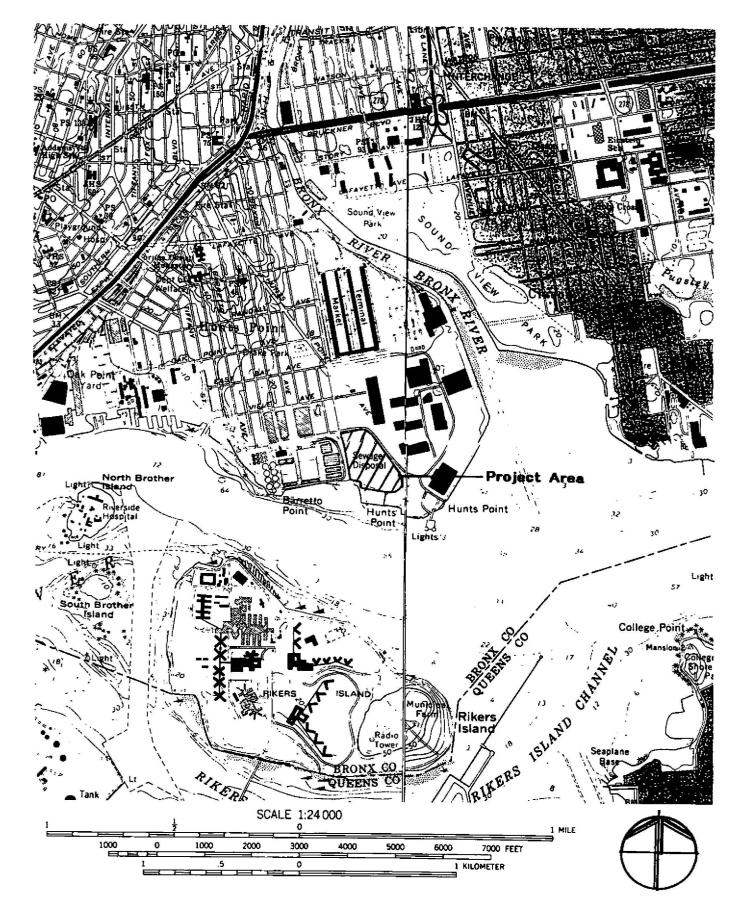


Figure 1 Location of project area shown on portion of U.S.G.S. 7.5 minutes series, Central Park, New York quadrangle.

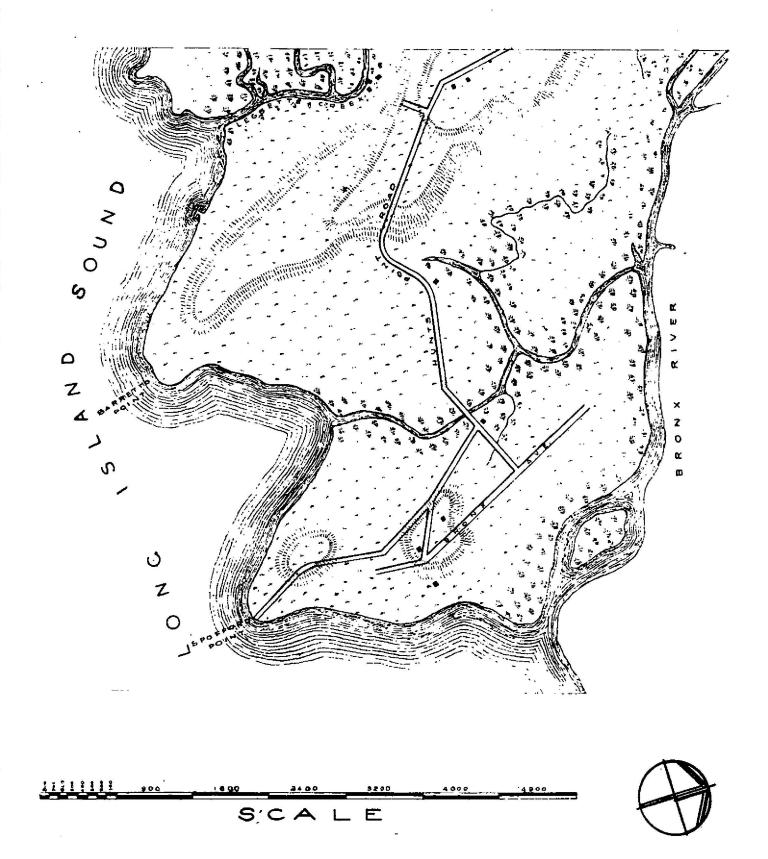


Figure 2 From the 1874 Viele Atlas.



FIELD INVESTIGATIONS

The information reviewed in this study was taken from three sets of soil borings, and one group of test trenches. All of the borings and trenches were designed and completed for purposes other than the assessment of archaeological sensitivity. Greenhouse Consultants personal were not present during these investigations. Logs from the borings and descriptions and sketches of the test trench cross-sections were made available for our study. Since these logs and descriptions were not done by archaeologists, it is possible that soils described as fill may include historic period archaeological deposits. The first set of soil borings were completed during March 6 to 13, 2000. Eighteen borings labeled B-1 through B-18 were completed. Sampling began at 10 or 12 feet below grade for all except boring B-10 which began at grade. The locations of B-1 through B-18 are shown on Figure 3.

A series of five soil borings labeled SB-1 through SB-5 were undertaken during February 2000 at the Vernon C. Baines Correctional Facility adjacent to the project area. The locations of SB-1 through SB-5 are shown on Figure 4. Sampling of three borings began at one foot below grade.

The final set of soil borings were completed during March 20 through April 12, 2000. A total of 48 borings were planned, but logs were received for only 40. Borings labeled B-1 through B-22, B-25, B-28 through B-32, B-35 through B-39, B-41 through B-45, B-47 and B-48 are included. The locations of these borings are shown on Figure 5.

Eleven test trenches numbered 1 through 11 were also recently completed within the project area. These trenches were from 175 to 1510 feet long and 7 to 10 feet deep. See Figure 3 for the locations of Test Trenches 1 through 11.

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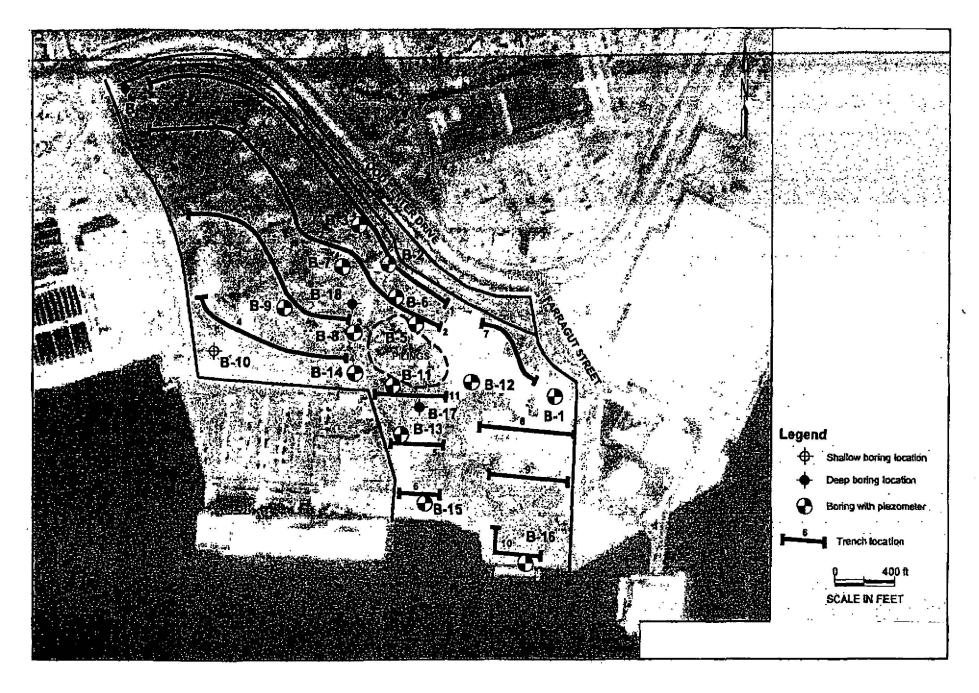


Figure 3 Locations of Test Trenches 1 through 11 and Borings B-1 through B-18, within the project area.

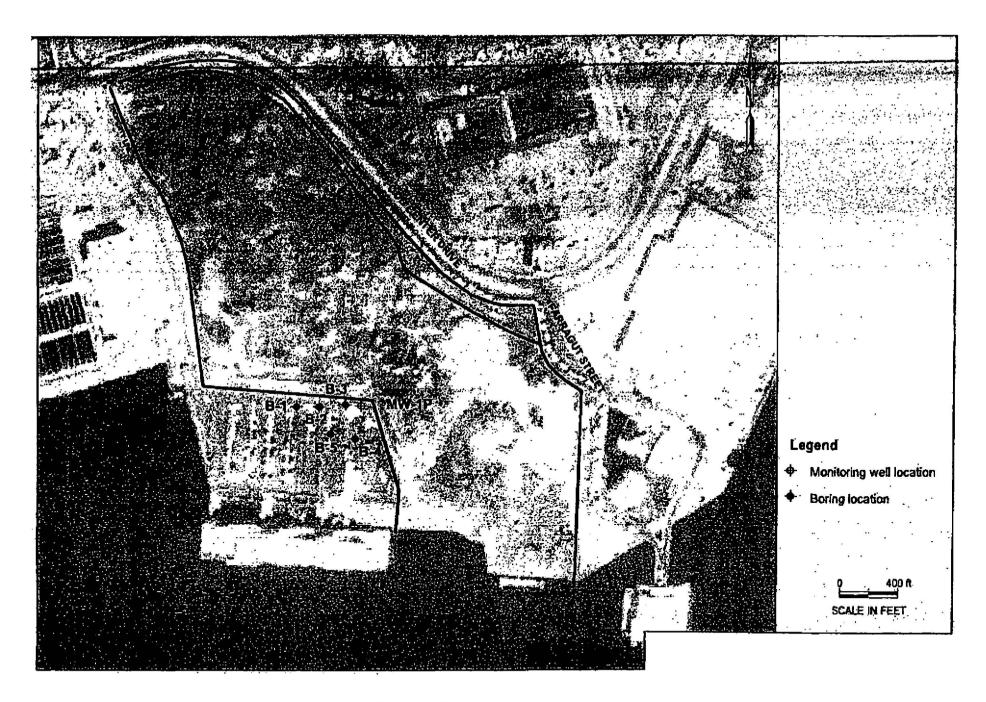
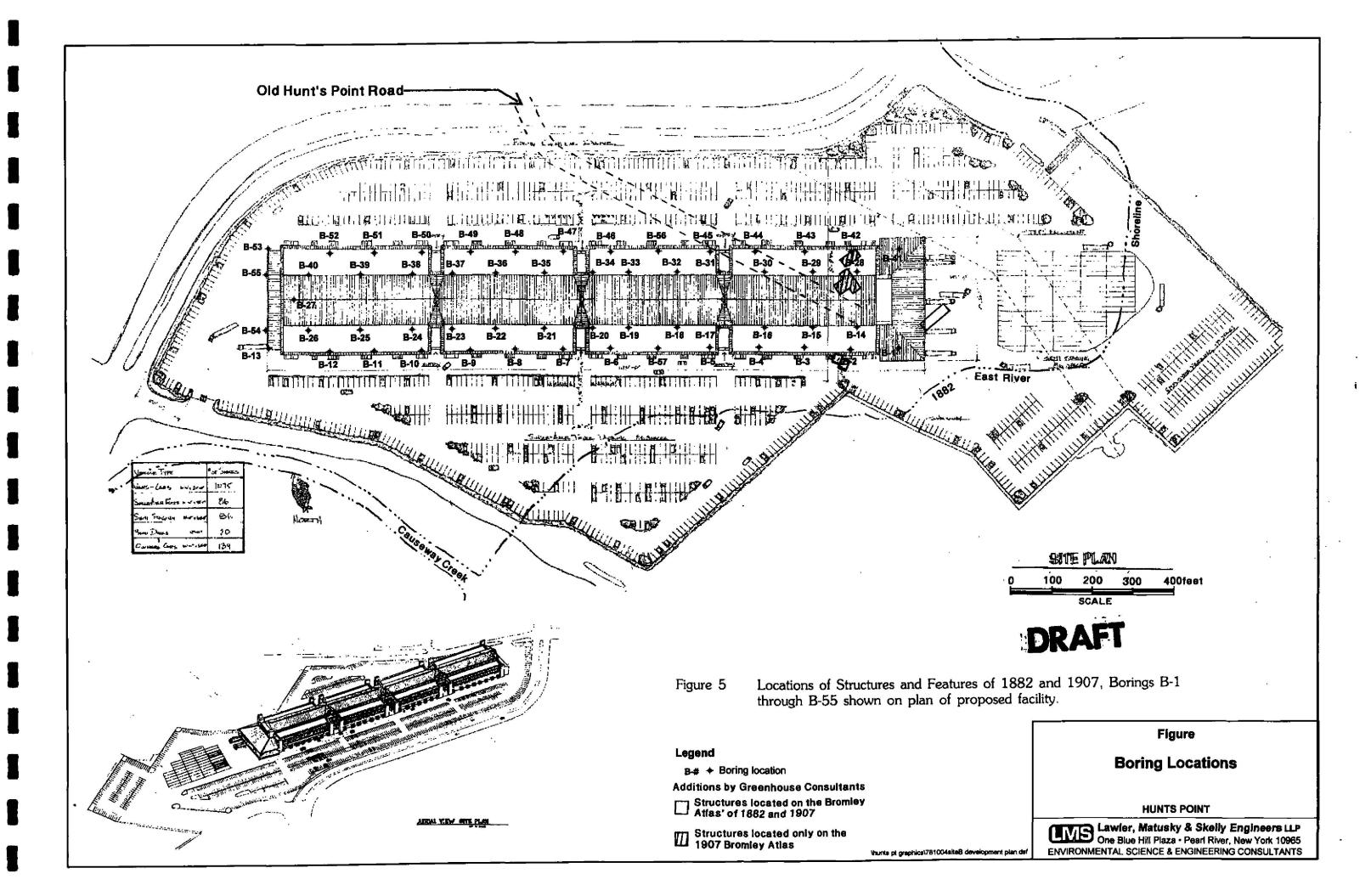
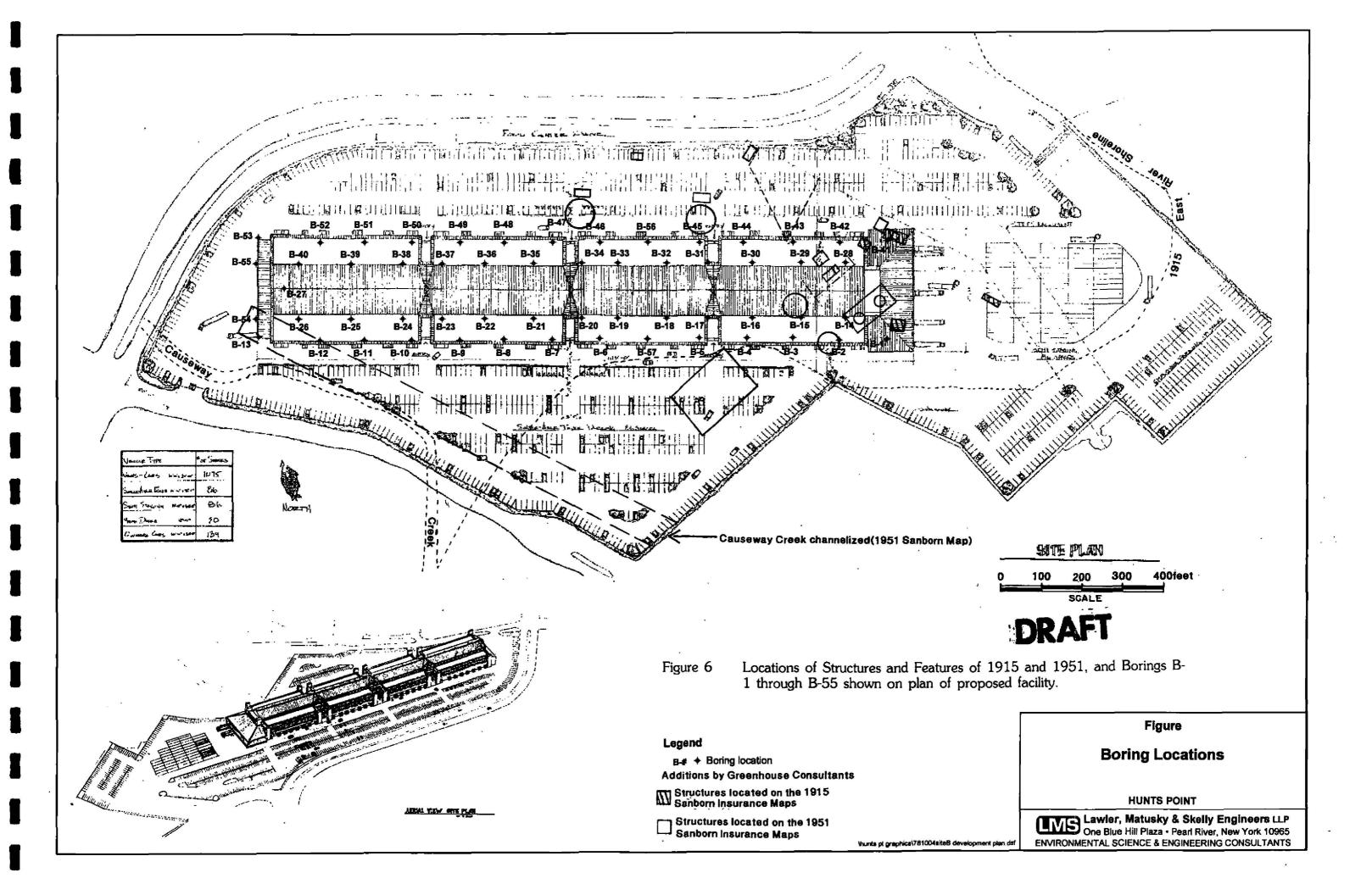


Figure 4 Locations of Borings SB-1 through SB-5 within the Vernon C. Baine Correctional Facility.







ANALYSIS OF BORINGS AND TRENCHES

The first set of borings completed within the project area show fill in the top parts of Borings B-1, B-4, B-10 and B-15. The fill included cinders, ash, brick fragments, glass and coal. Since all the other borings began at 10 to 12 feet below grade, it is probable that fill exists above the layers recorded. The fill is 13 feet thick in B-1, 16 feet thick in B-4, 12 feet thick in B-10, and 14 feet thick in B-15. See Appendix 1 for the logs for the first set of borings.

The second set of borings was completed within the Vernon C. Baines Correctional Facility, which lies to the south of the project area. Boring SB-1 shows 16 feet of fill including ashes, cinders and coal. Borings SB-2 and SB-3 show similar fill 13 feet and 9.3 feet thick respectively. Boring SB-4 has only 2.4 feet of similar fill. Under this is brown sand with varying amounts of gravel and silt. This sand deposit was found throughout boring SB-5. It is likely that the sand deposit in SB-4 and SB-5 is hydraulic fill. Figures 5 and 6 show that all these borings are within the East River during 1882 and 1915. See Appendix 1 for the second set of boring logs.

The third set of borings were located entirely under the proposed structure in the central part of the project area. Thirty-seven of these 40 borings include fill. The fill included fragments of brick, concrete, granite and iron, as well as coal ash and tar. The fill is thickest in B-25 where it is 16 feet. No fill was recorded in B-1, B-14 and B-48. Less than 4 feet of fill was recorded in B-2, B-17, B-18 and B-36. A black organic layer with sand and shells was recorded in B-21 at 4 to 5 feet below grade. This may represent a buried surface that could have been used during prehistory. However, a similar deposit was recorded in B-22 at 10 feet below grade, and fill with coal ash was recorded 5 feet beneath the organic soil. This indicates either that the organic layer dates to the historic period, or has been disturbed. See Appendix 1 for the boring logs.

The eleven test trenches completed within the project area probably offer the best information on the subsurface conditions. These trenches are the only locations where the soil deposits could be viewed since the borings were only 2 inches in diameter. See Appendix 2 for the profile drawings and descriptions of the test trenches. Fill was recorded in all eleven trenches. Trenches 1 and 4 through 10 were located in the proposed parking areas surrounding the proposed market building. Test Trenches 2,3 and 11 include portions of the proposed new building.

The fill under the proposed parking areas ranges from 2.5 feet to at least 10.5 feet in thickness. The shallowest fill is at the center of Test Trench 1. Test Trenches 5,6,9 and 10 are within the East River as of 1882, so most if not all of the deposits should be fill. Much of Test Trench 10 is identified as hydraulic fill. The brown silty sand seen in Test Trench 7 must be fill since it lies above coal ash deposits in the central and western parts of the trench. Test Trench 1 had more fill in the western half than in the east. The eastern end had disturbance from an old oil tank. Fill was noted surrounding this tank. It included tires, automobile parts and bricks. Concrete piers or footings were found from 397 to 615 feet west of the eastern end of the trench. Surrounding and beneath the footings was a fill deposit of coal ash and slag. Towards the western end a second deposit of coal ash with slag was seen. These coal ash deposits were above an extensive deposit



of black incinerator ash. This covered the western 580 feet of the trench, and was from 2 to 10 feet thick. Most of Test Trench 4 was located within the East River in 1882 and 1915. Trench 4 includes 5 layers of fill described as purifier bed waste, construction and demolition debris, coal ash, grey silty clay and incinerator ash. The fill was 8 feet thick at the east end and 10 feet or thicker at the west end. The grey silty clay fill has the same description as the probable subsoil in Trench 4, but must be fill since it lies above some of the coal ash. Test Trench 8 was on fast land. The fill deposits appear to be shallow here, usually only about one foot thick. A pile of fill with household waste about 5 feet thick was recorded near the middle of the trench, but this was above the ground surface over the remainder.

Test Trench 2 runs roughly along the northeastern side of the proposed market building. Test Trench 2 shows 3 layers of fill: construction and demolition debris, coal ash and coal tar, and incinerator ash. The fill is at least 10 feet thick at the east end of the trench, and about 7 feet thick at the west end. Test Trench 3 roughly follows the southwestern side of the proposed market building. The cross-section shows four layers of fill: purifier bed waste, construction and demolition debris, coal tar and incinerator ash. The fill is about 5 feet deep at the eastern end, possibly only 1 foot thick at 160 feet from the eastern end, and about 4 feet thick at the western end of the trench. The trench description mentions a concrete slab from 49 to 114 feet from the eastern end of the trench. This was under construction/demolition debris, firebricks and coal tar. Depth was not described. Test Trench 11 passes through the southern corner of the proposed market building. Only shallow fill was recorded in the eastern half of the trench. Coal ash and concrete rubble were present in places down to about 1.5 feet below grade. Beneath this was tan silty sand with cobbles. The western half of the trench included construction/demolition debris approximately 4 feet thick. Beneath this was brown silty sand. Wooden pilings coated with creosote were recorded with the western 60 feet of the trench.



RESULTS

Figures 5 and 6 show the structures and other features from the 1882 and 1907 Bromley Atlases, and the 1915 and 1951 Sanborn maps, superimposed on the development plan. From these maps, it is clear that the footprint of the proposed market building overlaps part of the Old Hunt's Point Road, several structures from 1882 through 1915, and the location of the possible buried surface seen in B-21. Several of the structures from 1951 and associated pipes overlap some of the earlier features. The 1951 structures are from the Coal Gassification Plant. These features would have disturbed or destroyed earlier remains in their locations.

However, there appear to be three potential resources within the proposed market building footprint that do not overlap either the locations of the 1951 structures or the pipes. The three potential archaeological resources are the buried surface at B-21, part of the Old Hunt's Point Road just west of B-29, and a building from 1907 between B-28 and B-42. A building shown in 1882 and 1907, northeast of B-1, and another structure from 1915 were probably disturbed by Test Trench 11. A 1915 structure lies within the proposed parking area southeast of the proposed market building. This location will have only shallow impacts from the new parking. All of the other structures from 1882, 1907 and 1915 appear to have been destroyed or disturbed by the 1951 buildings and pipes. It is not possible to locate any of the structures shown on the maps prior to 1874 with any degree of accuracy. This is due to the scale of the maps and the lack of surviving landmarks to accurately position them over the modern landscape.

The possible buried topsoil deposit recorded in B-21 could date to the prehistoric period or any later time. There is no evidence available regarding the date. The background research completed shows no evidence of prehistoric remains having been reported here. The nearest site lies 0.3 miles away (Greenhouse Consultants 2000:4-6). During 1995 Greenhouse Consultants completed archaeological testing at Our Lady of Fatima in Jackson Heights, Queens. Soil borings indicated fill over a possible surface of the buried Trains Meadow (Greenhouse Consultants 1994:10-11). Four backhoe trenches were completed but no evidence of prehistoric occupation was found (Greenhouse Consultants 1995:5). This situation indicates that the probability of finding prehistoric remains based only on indications of buried topsoil is rather low. The layer seen in B-21 is four to five feet below grade. A similar deposit in B-22 at 10 feet below grade included coal ash, and therefore dates to the historic period. Given the uncertainty of the date of the deposit, and the failure to find prehistoric artifacts in a similar deposit in Queens, it appears that testing at B-21 is not warranted.

The course of Old Hunt's Point Road passes through the proposed location of the Fish Market Structure just west of B-29. Test Trench 2 also crossed its path slightly further north. No indication of the old road bed can be seen in the sketch of the cross section of Test Trench 2. While the opportunity to excavate a portion of the Old Hunt's Point Road could add to our knowledge of the nineteenth century history of the point by determining the road's position, width and method of construction, there exists an additional portion of the road under the proposed parking area. This portion will not be disturbed by the proposed construction, so the opportunity to examine this road will still exist once the market is built.



There are two small structures on the 1907 Bromley Atlas that are adjacent to B-28 an within the footprint of the proposed market building. The Bromley Atlas marks both with the symbol used to depict barns or stables. These structures are from the end of the period of domestic use of Hunts Point were probably built by the Simpson family. This area could provide evidence regarding the Simpsons and their use of Hunts Point during the early twentieth century, however it would not be as important as the location of their house. Since this project area is known to be contaminated, archaeological testing here would be difficult. These barns or stables were probably wood frame structures with dirt floors, so they may not have left substantial remains. If they were excavated, they could not provide any evidence regarding the earlier occupations by the Spofford, Winship, Hunt, Jessup or Richardson families. Given the contaminated conditions, the use as a barn or stable, and the late date for the use of the structures, it appears that testing would not be warranted.



CONCLUSIONS AND RECOMMENDATIONS

It is our conclusion that three locations within the footprint of the proposed fish market building at Hunts Point in the Bronx, have potential for preserving archaeological deposits. The three locations consist of B-21 where a possible buried surface was recorded at 4 to 5 feet below grade, west of B-29 where the Old Hunt's Pond Road formerly ran, and between B-28 and B-42 where a structure existed in 1907. All other locations of potential archaeological resources within the footprint of the proposed structure probably have been disturbed or destroyed by later activities. The proposed structure is the only location where deep impacts are expected. The remainder of the project area is proposed for access roads and parking. Impacts for these uses are expected to be no more than 1.5 feet.

We recommend no archaeological testing of these three locations. This recommendation is due to the very low probability that the buried topsoil could contain prehistoric remains, the availability of other portions of Hunts Point Road outside the impact zone, and the nature and date of the barn or stables seen on the 1907 atlas.



BIBLIOGRAPHY

Greenhouse Consultants Inc.

1994 Archaeological/Historical Sensitivity Evaluation of the Our Lady of Fatima Senior Citizen Residence Project, Borough of Queens, New York. New York, New York: Greenhouse Consultants Inc.

1995 Archaeological Testing of the Proposed Our Lady of Fatima Senior Citizen Residence Project, Borough of Queens, New York. New York, New York: Greenhouse Consultants Inc.

2000 Archaeological/Historical Sensitivity Evaluation, Proposed Fish Market Relocation, Hunts Point, Bronx, New York. New York: Greenhouse Consultants Inc.

Maps and Atlases

Bromley, George W.

1882 Atlas of Westchester County. New York: G.W. Bromley & Co. 1907 Atlas of the City of New York. Philadelphia: G.W. Bromley & Co.

Sanborn Map Company

1915 Insurance Maps of the City of New York, Borough of the Bronx. Volume 16. New York: Sanborn Map Company.

1951 Updated to 1951.

United States Geological Survey

1966 Central Park, N.Y. Quadrangle. 7.5 minute series topographic map. Photorevised 1979.

Viele, Egbert

1874 Topographic Atlas of the City of New York.



APPENDIX 1
BORING LOGS

	I.V.			-	51			Boring No.: B-1
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	ed By		J. Mo	_		1.181	-	Hole Diameter: 6 in
MON			ument Sample		=	HNu I	П	Classification Of Material
€					: <u>:</u>	ing di	e ge	f - fine and - 35-50%
Depth (ft)	0	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% Remarks c - coarse little - 10-20% trace - 0-10%
10-12	3	2	1	3	24			0-3" gravel and brown silty sand. 3-
			_					18" black, wet, trace wood, trace
				101				brick, organic odor
12-14	2	1	2	4	24	ļ.—		Wet, 0-12" black mc. micaceous well set at 15'
\vdash			<u> </u>		<u> </u>	-		sand, trace brick fragments, 12-24"
\vdash			-	-	-		-	peat, 14-24", black mc. micaceous sand, wet very strong organic odor
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Depth (ft)	90	6".12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
10-12	24	50	41	25	20			0.0-6" tight brown silty micaceous
								sand, 6-8" ? gravel/cobble, 8-20"
					 			loose brown silty gneissic micaceous
	-	_			Ļ		<u> </u>	sand, dry
12-14			40	42	2			brown moist m-c sand Wet at 15', brown m micaceous sand set well at 20'
14-16	7_	15	13	12	24	 -	 	Wet at 15', brown m micaceous sand set well at 20' some silty sand, no odor
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Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-30% m - medium some - 20-35% Remarks c - coarse little - 10-20% trace - 0-10%
10-12	16	29	100/3		2			Brown micaceous sand, a piece of
2.60 %	lic	53	SAME.					schist in shoe. augering to 12'
12-14	6	18	38	100/3	24			Dry very tight micaceous silty sand,
						ļ		micaceous schist- pieces of rock in
			-					spoon, augering to 14' petroleum
44.40	400/4							color
	100/1 21	67	25	17	0 24			Augering to 16 ft Dry tight brown micaceous silty sand,
16-18	۷۱	-01	20	17	24			rock fragments in shoe, micaceous
					-	_		rock dust on outside of spoon, large
			_					cobble, petroleum odor, auger to 18'
18-20	2	3	5	9	24			Wet, water at 18' black grey very set well at 21'
								coarse micaceous sand, strong
								petroleum odor, 0.0-18". 18-24"
								brown m. micaceous silty sand
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Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% RefileIKS c - coarse little - 10-20%
لــــا		9_	7	=	&	_		trace - 0-10%
12-14	1	2	1	1_	12			Wet, incinerator ash-black-brown-
								wood, cinders, glass, porcelain, etc.
14-16	2_	1	2	1	6		 	Clay in tip, black-grey incinerator ash
				<u> </u>	ļ		ļ	trace brick, trace wood, cinders, etc.
		<u> </u>		 				clay is grey and silty.
16-18	woh				_2_			Grey clay in tip of spoon, trace ?
					0.4			from top.
	woh	-	_	 	24	_	\vdash	grey-green silty clay and shells Grey-green silty clay micaceous
20-22	woh		-	-	24			no shells
22-24	woh		3	1	24			Grey-green silty clay very soft to 22",
22-24	WOII		3	 				micaceous, no shells.
24.26	woh		<u> </u>		24			Grey-green silty clay, micaceous
	*****	-		-				some shells.
26-28	woh	8 -			24			Grey -green silty clay, soft, no shells
								organic odor.
28-30	woh				24			Soft grey-green silty clay-micaceous
								trace shells organic odor
30-32	woh				24			Grey-green silty clay-micaceous,
								trace shells, organic odor.
32-34	woh				24			Grey-green silty clay, micaceous,
								sandy silt. 12-24" brown m-c
34-36	woh			ļ	24	<u> </u>		Grey-green silty clay, micaceous,
		-						tight, trace shells, organic odor.
36-38	woh				24			Grey-green silty clay, micaceous,
								tight, some shells, organic odor. Grev-green silty clay, micaceous. EOB at 40'
38-40	woh			-	24			Grey-green silty clay, micaceous, EOB at 40' tight, some shells, organic odor.
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Drille		-	Test E						Total	Depth:		<u>6/∠00∪</u> 7 Ft
		thod:		HSA	1					to Wate		12 Ft
		ation	<u>: </u>	See F	gure					Elevation		12 1 1
—	dinate		I Mo		-					Diameter		6 in
	ed By		J. Mo		=	HNu		<u> </u>	I TOTE L	<u> </u>	•	0 111
INOU			ument n Sample		T =		8	Classification Of Material		ľ		
€		010143		· ·	Recovery (in)	Instrument Reading	ed Se	f - fine and - 35		_		
Depth (ft)	0	6"-12"	12"-18"	18"-24"	over	trur	Sample Retained	m - medium some - 2		R	emark	S
ď	6	9	12"	186	Rec	SE SE	တည	c - coarse little - 1 trace - 0				
10-12	3	5	7	10	24	 		Grey- green silty sand, Very st	ong	T w	et at t	ip
10 .12		Ť		'				petroleum odor				
12-14	17	18	19	23	24		(CS)	Grey- green m. micaceous sar	d	EOB	at 14	' set
							i.	Water at 12', Product black she	en	We	ell at 1	7'
								on water				
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	N/	S	Too	4 Da	rine	<u> </u>		Boring No.: B-6
						<u> </u>	<u>9</u>	Sheet 1 of 1
		me:		DC-S	ite B			Project No.: 781-005
Clier		NYCE						Date: Start: 03/06/2000
Drille			Test E				_	Finish: 03/06/2000
	_	ethod:		HSA				Total Depth: 14 Ft
	_	cation	:	See F	igure		-	Depth to Water: 11 Ft
	dinate							Surf. Elevation
	ed By		J. Mo					Hole Diameter: 6 in
Mon		g Instr			1 _	HNu		
£		Blows Or	n Sample I	er T	. €	er er	8 E	Classification Of Material f - fine and - 35-50%
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% Remarks c - coarse little - 10-20% trace - 0-10%
10-12	5	8	11	11	24			Brown-silty m. micaceous sand 0-6"
					3 180			6-12" Grey petroleum contaminated
								sand, moist, silty, m. micaceous,
							100 T	water at 12'
12-14	9	8	7	10				Grey petroleum contaminated mc. Setting well at 17'
				70.0				sand wet, product on water try for 16'
								strong odor not as bad as B-5
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								sandy silt. 12-24" brown m-c
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	a IV.	Q Yau					1.00	Boring No.: B-7	
版			Tes	t Bo	ring	J Lo	g	Sheet 1 of	1
Proie	ct Na	me:		DC-S	_			Project No.: 781-	005
Clier		NYCE						Date: Start: 03/07/	2000
Drille			Test E	Borina				Finish: 03/07/	2000
	03390-00	thod:		HSA			<u> </u>	Total Depth: 14	
		cation		See F	igure	S			2 Ft
	dinate		<u>. </u>	0001	<u>.ga. c</u>		0.20	Surf. Elevation	
	ed By		J. Mo	rse					6 in
			ument						
			n Sample		Ē			Classification Of Material	S
Depth (ft)		30 50	5	1	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50%	
dg.		6"-12"	12"-18"	18"-24"	o e	ead	etai	m - medium some - 20-35% Remarks	
ă	ò		12	<u>&</u>	Rec	₹ ₽	SE	c - coarse trace - 0-10%	
10-12	2	5	5	7	24		,	0-6" brown tight moist silty sand,	
.0-12		<u> </u>	<u> </u>	- '-				6-12" brown m. micaceous wet	
				-				silty sand, no odor	
2-14	6	8	12	14	24			0-14" brown m. micaceous sand well set at 1	16'
4-14		۲			-		_	14-24" brown tight micaceous silty	
								sand, water at 12'	
			 						
									
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	עער	<u>.</u>	Tes	_		j Lo	g		Sheet	1	of 1	
	ct Na			DC Si	te B				Project		781-005	
Clier		NYCE						·	Date:		03/08/200	
Drille			Test E							Finish:	03/08/200	Ų
		thod:	_	HSA		_			Total D		14 Ft	
		cation	<u> </u>	See F	igure	<u>s</u>				to Water levation		<u>- l</u>
_	dinate	•	I Ma							iameter:		_
	ed By		J. Mo ument			HNu			noie D	iailletei.	. 011	_
WIOTH			n Sample		Γ <u>-</u>			Classification Of Material				
(£)	•	T			<u>≒</u> >	nent	ple ned	f - fine and - 35-50		_		
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-3 c - coarse little - 10-2 trace - 0-10	0%	Re	emarks	
10-12	7	10	11	15	24			Very Strong petroleum odor, 0-8'	•			
								brown tight silty fill. 8-12" Grey tig	ght			
								micaceous silt. 12-20" looser gre				
					<u> </u>			sandy micaceous silt. 20-24" tigh	nt			
	1941					ļ		grey micaceous silt. wet at ~11'				
12-14	_ 9	16	25	29	24			Very wet, grey-green silty sand o		set w	vell at 15'	
						-		gravel at 14'. Very strong petrole		i i		
							2 100 2 10	odor, sheen on water in spoon, s c. sand micaceous	one			
					<u> </u>			c. sand micaceous				
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	i V.		-				-	Boring No.: B-9	
	$1 \mathrm{M}$	S:	Tes	t Bo	ring	ı Lo	g	Sheet 1 of	1
Proje	ct Na	me:	NYCE	DC-S	ite B		<u> </u>	Project No.: 781	-005
Clien		NYCE							7/2000
Drille		Craig		Borina				Finish: 03/07	7/2000
		thod:		HSA	_		_	Total Depth: 14	4 Ft
		cation		See F	iaure			Depth to Water:	12 Ft
	dinate		<u>*</u>					Surf. Elevation	
	ed By		J. Mo	rse	i da da		_	Hole Diameter:	6 in
		Instr	_			HNu			
		Blows Or			£	=	_	Classification Of Material	
(£)		1	3"	E.	<u>الح</u>	a gig	inec	f - fine and - 35-50% m medium some - 20-35% Remark	e
Depth (ft)	06	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	m - medium some - 20-35% Remark c - coarse little - 10-20%	_
		9	1.	1	~	= _		trace - 0-10%	
10-12	1	9	16	18	24			Tan tight silty sand, some m.	
\Box		-500000	******	*******	, and a second			micaceous layers moist	401
12-14	19	22	22	15	24		<u> </u>	Wet gray brown, m. silty sand set well at	16'
								layer of c. gravel at 12',	
						<u> </u>	-	water at 12'	
		_							
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	and the				<u> </u>	<u> </u>		sandy silt. 12-24" brown m-c	
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3	\$. V. I							Boring No.: B-10
	<u> IVI</u>	J ,	Tes	t Bo	ring	j Lo	g	Sheet 1 of 1
Proje	ct Na	me:	NYCE	DC Si	te B	92		Project No.: 781-005
Clien	t:	NYCE	DC					Date: Start: 03/10/2000
Drille	r:	Craig	Test B	oring				Finish: 03/10/2000
Drilli	ng Me	thod:		HSA		110 1100		Total Depth: 12 Ft
Borir	ng Log	ation		See F	igure	s		Depth to Water: 7 Ft
Coor	dinate	es:						Surf. Elevation
Logg	ed By	/:	J. Mo	rse				Hole Diameter:
Moni	toring	Instr	ument	(s): _		HNu		
		Blows Or	Sample	ır	Ξ	<u>ء</u> ۾		Classification Of Material
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% Remarks c - coarse little - 10-20%
								trace - 0-10%
0-2	8	18	20	10	24		$\vdash \vdash \vdash$	0-3", topsoil, 3-7" brick fragments,
			-			 		gravel, brown silt, 7-24" tight brown- black silty sand, no odor
 	10	12	10	15	10		┝┈┤	Dry, brown silty m. micaceous sand,
2-4	10	12	10	15	10		\vdash	no odor
4-6	7	6	4	3	20			0-22" brown moist, silty sand and
	4	,	-7	<u> </u>				gravel, 22-24" ash
6-8	2	2	3	2	18			Incinerator ash brown black, trace
 • •								glass, trace brick, trace papery ash
								wet at 7'.
8-10	1	1	1	1	8			incinerator ash, trace glass, trace
								brick, trace gravel, loose granular,
10-12	1	1	~	1_	12		200.00	wet loose granular ash, trace wood EOB at 12',
		e.						trace glass, trace gravel
	- 20							
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	Ш	9	Tes	t Bo	ring	y Lo	g	Sheet 1 of 1				
Proje	ct Na	me.		DC Si				Project No.: 781-005				
Clien		NYCE					-	Date: Start: 03/08/2000				
	Driller: Craig Test Boring											
	Drilling Method: HSA Total I											
1		cation		See F	igure	<u> </u>		Total Depth: 18 Ft Depth to Water: 9 Ft				
Coord			•	0001	<u>iga o</u>			Surf. Elevation				
Logg			J. Mo	rea				Hole Diameter: 6 in				
		ı Instr		100000000		HNu						
		Blows Or			2			rial				
E					⊕	ing in	ed ed	d - 35-50%				
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	me - 20-35% Remarks tle - 10-20% tice - 0-10%				
10-12	9	16	25	100/1	24		2	micaceous				
								12', gravel				
								poon.				
12-14	5	10	11	11	6			3-6" tight				
\Box								try one				
					_							
14-16	11	16	27	66	20			t, moist-				
<u> </u>								15				
16-18	50	43	47	67	24_			nd fm.				
						-		trace				
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	IJIJ,		Tes	t Bo	ring	j Lo	g	Sheet 1 of 1
Proje	ct Na	me:	NYCE	DC Si	te B			Project No.: 781-005
Clien	ıt:	NYCE	DC					Date: Start: 03/08/2000
Drille	r:	Craig	Test E	Boring				Finish: 03/08/2000
Drilli	ng Me	thod:		HSA_				Total Depth: 14 Ft
Borir	ig Loc	ation	:	See F	igure	s		Depth to Water: 10 Ft
Соог	dinate	es:	4					Surf. Elevation
Logg	ed By	r:	J. Mo	rse				Hole Diameter: 6 in
Moni	toring	Instr	ument	t(s):		HNu		
æ	1	Blows Or	Sample	er	(ij)	£ 6	ا چ ن	Classification Of Material
Depth (ft)	9-,,0	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
10-12	40	37	27	20	24			0-20" black silty sand and brick
								fragments with gravel, 20-24" moist
	10							wet grey-green silty micaceous
		2.0		(1) (1)		<u> </u>		sand.
12-14	18	18	18	28	24	_		Moist-wet, 0-18" grey-green silty Set well at 20'
					-			micaceous sand, 18-24" grey-brown wet m. micaceous sand, strong
-								petroleum odor on water table.
\vdash					-	-		perioleum odor on water table.
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Project Name:NYCEDC Site BProject No.:781-00Client:NYCEDCDate:Start:03/09/20Driller:Craig Test BoringFinish:03/09/20Drilling Method:HSATotal Depth:14 FtBoring Location:See FiguresDepth to Water:10Coordinates:Surf. Elevation		₹V.	C	_			* 4		Boring No.: B-13
Client: NYCEDC		TIT		Tes	t Bo	ring	J LO	<u>g_</u>	
Driller: Craig Test Boring Driller: Craig Test Boring Drilling Method: HSA Boring Location: See Figures Coordinates: Coged By: J. Morse Monitoring Instrument(s): Blows On Sampler Surf. Elevation Hole Diameter: 6 in the control of the con	Proje	ct Na	me:	NYCE	DC S	te B		_	
Drilling Method: HSA Total Depth: 14 Ft									
Boring Location: See Figures Depth to Water: 10									
Coordinates: Logged By: J. Morse Monitoring Instrument(s): Blows On Sampler Solution of Material Framework of the course of									
Logged By: J. Morse Monitoring Instrument(s): Blows On Sampler Solution of Material For Sampler Solution of Sampler Solution of Sampler Solution of Sampler Solution of Sampler Solution of Sampler Solution of Sampler Solution of Sampler Solution of Sampler Solution of Sampler Soluti	$\overline{}$	_		-	See F	igure	S		
Monitoring Instrument(s): Blows On Sampler									
Classification Of Material									Hole Diameter: 6 in
Fig. Fig.	Monit						HNu		
10-12 12 30 35 20 18 O-10" tight brown micaceous silty sand, 10-18" looser brown very micaceous m. silty sand, wet schist in shoe, no odor! wet, tan brown mc. very micaceous sand little coarse sand, is slightly silty at shoe	lεŀ		3lows Or		-	Ē	ent G	<u>.</u>	Company of the Compan
sand, 10-18" looser brown very micaceous m. silty sand, wet schist in shoe, no odor! wet, tan brown mc. very micaceous sand little coarse sand, is slightly silty at shoe	Depth (90	6"-12"	12"-18"	18"-24"	Recoven	Instrum Readir	Samp Retain	m - medium some - 20-35% Remarks c - coarse little - 10-20%
micaceous m. silty sand, wet schist in shoe, no odor! wet, tan brown mc. very micaceous sand little coarse sand, is slightly silty at shoe Set well at 16' Set well at 16'	10-12	12	30	35	20	18			0-10" tight brown micaceous silty
in shoe, no odor! 12-14 12 16 17 20 24 wet, tan brown mc. very micaceous sand little coarse sand, is slightly silty at shoe Set well at 16'									
wet, tan brown mc. very micaceous sand little coarse sand, is slightly silty at shoe									
sand little coarse sand, is slightly silty at shoe			_		Va. (**)				And min to arrange
at shoe	12-14	12	16	17	20	24		igdash	
sandy silt. 12-24" brown m-c	$\vdash \vdash$							<u> </u>	at snoe
sandy silt. 12-24" brown m-c	┝─┼								
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かみ。 Projo	ct Na			DC-Si		,	<u>J</u>	Project No.: 781-005
Clien		NYCE		<u> </u>	<u></u> _	-		Date: Start: 03/07/2000
Drille			Test E	Roring				Finish: 03/07/2000
		thod:	16311	HSA		_	_	Total Depth: 14 Ft
				See F	iguro	1		Depth to Water: 10 Ft
	dinate	ation	-	3661	igure		-	Surf. Elevation
A C W LONDON	ed By	N. Delitoro	J. Mo	rco				Hole Diameter: 6 in
			ument			HNu		
MOIII			Sample		_	T		Classification Of Material
€		510113 01			\ \(\bar{\pi}\)	ng ng	<u>g</u> <u>e</u>	C - fine and - 35-50%
Depth (ft)	0"-6"	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% Remarks c - coarse little - 10-20% trace - 0-10%
10-12	3	2	3	5	24			6" recovery piece of wood, wet
								c. sand shells over silty sand,
					Ī			grey- no odor, water at 10'
12-14	5	4	4	3				Grey very c. to c.
								micaceous sand, 0-10" brown tight set well at 14'
								silty sand, micaceous moist on clay,
								trace wood, very slight? odor in sand
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		- 3						sandy silt. 12-24" brown m-c
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Project Name: NYCEDC Site B Project No.: 781-005 (Client: NYCEDC Date: Start: 03/09/2000 Finish: 03/09/2000		N/I	S	T					Boring No.: B-15
Cilent: NYCEDC Driller: Craig Test Boring Finish: 03/09/2000 Frilling Method: HSA Total Depth: 14 Ft Boring Location: See Figures Depth to Water: 12 Ft Coordinates: Surf. Elevation Hole Diameter: 6 in HNu Classification Of Malerial f - fine and - 35-50% m - medium some - 20-35% m - medium some		40,			_		j LO	g	
Driller: Craig Test Boring Driller: Craig Test Boring Finish: 03/09/2000 Drilling Method: HSA Boring Location: See Figures Depth to Water: 12 Ft Coordinates: Surf. Elevation Hole Diameter: 6 in Monitoring Instrument(s): HNu Classification Of Material F - fine	Proje	ct Na	me:	NYCE	DC Si	te B			
Drilling Method: HSA Total Depth: 14 Ft	Clien	it:							
Boring Location: See Figures Coordinates: Logged By: J. Morse Monitoring Instrument(s): Blows On Sampler See Figures HNU Classification Of Material f - fine								-	
Coordinates: Logged By: J. Morse Monitoring Instrument(s): Blows On Sampler Set of the course of	Drilli	ng Me	thod:	_	HSA				
Logged By: J. Morse Monitoring Instrument(s): Blows On Sampler	Borir	ng Loc	cation	•	See F	igure	S		
Monitoring Instrument(s): Blows On Sampler	Coor	dinate	es:						
Blows On Sampler	Logg	ed By	<i>/</i> :	J. Mo	rse				Hole Diameter: 61
10-12 2 1 2 1 2 3 6	Moni	toring	Instr	<u>ument</u>	t(s):		HNu		
10-12 2 1 2 1 20 10-16" grey m. silty micaceous sand, 6-16" brown loose micaceous m. sand, 16-20" black wet incinerator ash, no odor, trace glass, trace coal Brown-black incinerator ash, trace glass, trace wood, trace porcelain wet	_	1	Blows Or	Sample	er	Ē	#	. 73	20 20 0 1 10 10
10-12 2 1 2 1 20 10-16" grey m. silty micaceous sand, 6-16" brown loose micaceous m. sand, 16-20" black wet incinerator ash, no odor, trace glass, trace coal Brown-black incinerator ash, trace glass, trace wood, trace porcelain wet	₽		1 .	ŧ _o	-	ery	ding	nple	Pomorke
10-12 2 1 2 1 20 10-16" grey m. silty micaceous sand, 6-16" brown loose micaceous m. sand, 16-20" black wet incinerator ash, no odor, trace glass, trace coal Brown-black incinerator ash, trace glass, trace wood, trace porcelain wet	Sept	9	1.7	7-1	32	8	Rea	Sar	III - Hedraid
16" brown loose micaceous m. sand, 16-20" black wet incinerator ash, no odor, trace glass, trace coal Brown-black incinerator ash, trace glass, trace wood, trace porcelain wet			9		7	æ	_		trace - 0-10%
16-20" black wet incinerator ash, no odor, trace glass, trace coal Brown-black incinerator ash, trace glass, trace wood, trace porcelain wet Set well at 16'	10-12	2	1	2	1	20			
odor, trace glass, trace coal Brown-black incinerator ash, trace glass, trace wood, trace porcelain wet									
Brown-black incinerator ash, trace glass, trace wood, trace porcelain wet								$oxed{oxed}$	s e e e e e e e e e e e e e e e e e e e
glass, trace wood, trace porcelain wet					_	,,,			
wet	12-14	2	1	2	3	6		-	
									- · · · · · · · · · · · · · · · · · · ·
sandy silt. 12-24" brown m-c						<u> </u>			wet
sandy silt. 12-24" brown m-c						<u> </u>			<u> </u>
sandy silt. 12-24" brown m-c		_							
sandy silt. 12-24" brown m-c		200							
sandy silt. 12-24" brown m-c	1								
sandy silt. 12-24" brown m-c	\vdash		<u> </u>	_		. —			
sandy silt. 12-24" brown m-c				<u> </u>		 			
sandy silt. 12-24" brown m-c						<u> </u>			
sandy silt. 12-24" brown m-c					<u> </u>	_			
sandy silt. 12-24" brown m-c				-	_				
sandy silt. 12-24" brown m-c			÷			-	i		
sandy silt. 12-24" brown m-c	\vdash	-	-	\vdash	-	 			
sandy silt. 12-24" brown m-c	\vdash		ė.	 	 - -	\vdash		\vdash	
sandy silt. 12-24" brown m-c			N.						
	\vdash		×.		 	 	-	$\vdash \vdash$	sandy silt. 12-24" brown m-c
	\vdash								
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	8 N/A			_				Boring No.: B-16
			Tes	t Bo	ring	Lo	g	Sheet 1 of 1
Proie	ct Na	me:	A 1000 N 100 N	EDC S				Project No.: 781-005
Clier		NYCE						Date: Start: 03/09/2000
Drille			Test E	3oring				Finish: 03/09/2000
_		ethod:		HSA				Total Depth: 14 Ft
		cation		See F	igure	s		Depth to Water: 10 Ft
	dinate							Surf. Elevation
Logg	red By	<i>r</i> :	J. Mo	rse		Hole Diameter: 6 in		
Moni	toring	Instr	umen	t(s):	7	HNu		
		Blows Or	Sample	er	(j)	ξ		Classification Of Material
E		Į,	₽	<u>*</u>	Ģ.	Jme Iding	angle	f - fine and - 35-50% Remarks
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% Remarks c - coarse little - 10-20%
				<u> </u>		_		trace - 0-10%
10-12	8	23_	27	9	24			Spoon in wet, water in augers, 0-12"
 	_					ļ		mc. tan sand, micaceous 12-22" vc.
\vdash				<u> </u>				micaceous sand and gravel, 22-24" brown-black m. micaceous sand no
\vdash								odor
12-14					24	-	\vdash	0-10" cvc. micaceous sand and set well at 15"
12-14					24			rounded colorful gravel, 10-20" brown
\vdash			_					m. micaceous silty sand, 20-24"
1								brown-black m. silty sand organic
			-					odor, micaceous
				- 100 E				
\vdash								
\vdash	_							
			-	-	-	-	$\vdash\vdash$	sandy silt. 12-24" brown m-c
\vdash				-				Sandy Silt. 12-24 DIOWITHITO
\vdash			<u> </u>	 				
	-		-	-				
\vdash	-			 	<u> </u>			
	-		-		_			
						<u> </u>	<u> </u>	

100	1.V/	Q 1	_		_			Boring No.: B-17
			Tes	t Bo	ring	y Lo	g	Sheet 1 of 1
Proje	ct Na	me:	NYCE	DC Si	te B			Project No.: 781-005
Clien	t:	NYCE	EDC			_		Date: Start: 03/10/2000
Drille	r:	Craig	Test B	Boring				Finish: 03/13/2000
Drilli	ng Me	thod:		HSA				Total Depth: 32 Ft
Borir	ng Loc	cation	:	See F	<u>igure</u>	s		Depth to Water: 14 Ft
Coor	dinate	es:						Surf. Elevation
Logg	ed By	/ :	J. Moi	rse	*			Hole Diameter: 6 in
Moni	toring	lnstr	ument	(s):		HNu		<u> </u>
		Blows O	n Sample	r	(<u>ii</u>	= _		Classification Of Material
£ (£		1.	L.	-4	ery	ding	ap de la la la la la la la la la la la la la	f - fine and - 35-50% m - medium some - 20-35% Remarks
Depth	.9-,0	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-33% refinal KS c - coarse little - 10-20%
		9	1 2	7	2	=		trace - 0-10%
12-14	7	14	16	23	14			Tight moist brown sandy silt and
								cobble fragments, rock in shoe
					Ĉ.			no odor
14-16	18	56	100/6		6	<u> </u>		Water table cobble fragments, some
						<u> </u>		silt, very slight odor
16-18	12	19	34	18	10		_	Very slight petroleum odor 0-4" vc.
			-			 -		gravel/cobble fragments, 4-10" grey-
— →								brown m. micaceous silty sand and
40.00		_		4.4	22			f. gravel.
18-20	3	6	8	14	22	-		Wet 0-4" grey-tan m. micaceous sand, v. slight odor, 4-22" tan grey m.
├ ── - †		-		-			-	micaceous sand strong odor
22-24	8	17	30	34	24	_		wet 0-12" grey-tan m. micaceous
22-24	0		30	JH				sand, 12-24" grey-tan tight m.
\vdash	-					-		micaceous sand 12-24" grey tan
\vdash			1					tight m. micaceous silty sand,
					_			slight odor
24-26	21	20	21	31	24			wet grey m. micaceous sand and
		37 30.05						cvc rounded gravel, slight odor
26-28	25	22	40	52	24			grey m. micaceous sand and cvc.
								rounded gravel, slight odor
28-30	40	53	51	68	24			sandy silt. 12-24" brown m-c
								vc. gravel 12-14" grey tight sandy
						<u> </u>	L	micaceous silty, 14-24" trace f.
$\vdash \rightarrow$		5000 mm	1g_qqqqqqqq			<u> </u>	ļ	gravel, wet, slight odor
30-32	20	21	53	100/4	24	 _		Wet, 0-18" red-brown cvc.
$\vdash \dashv$								micaceous sand and fm. rounded
\vdash						-		gravel. 18"-schist fragment
						├		18"-24" Grey tight micaceous sandy
 						├		silt slight odor
 						 		
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3	IN/A	9	_		-	•		Boring	
			Tes	t Bo	ring	y Lo	g	Sheet_	1 of 1
Proje	ct Na	me:	NYCE	EDC Si	te B			Project	
Clien	t:	NYCE	DC			00.760		Date: S	
Drille	r:	Craig	Test E	Boring					inish: 03/10/2000
Drilli	ng Me	ethod:		HSA			- 1	Total Do	epth: 28 Ft
Borir	ıg Lo	cation		See F	igure	s		Depth to	o Water: 12 Ft
Coor	dinat	es:					-	Surf. El	evation
Logg	ed B	y:	J. Mo	rse				Hole Di	ameter: 6 in
Moni	toring	g Instri	umen	t(s):		HNu	0-0500		
_ [Blows On	Sample	er	<u> </u>	= _		Classification Of Material	
Depth (ft)	.90	6"-12"	12".18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
12-14	12	13	15	19	10			0-2" large piece of granite, wet.	, , , , ,
								grey-green tight micaceous silty sand,	
								strong petroleum odor	
14-16	5	10	16	24	14	<u> </u>		0-2" tight grey green silt,	
	4			ļ				2-3" mc. micaceous sand	
		$oxed{oxed}$					\vdash	3-12" m. silty sand grey green	
		<u> </u>	-			-		12-14" m. micaceous sand, very	
		ļ				-	 	strong odor	
18-20				<u> </u>	15			Wet, 0-7" grey m. micaceous sand	1
		\vdash		-	<u> </u>	 	-	slightly silty, trace f. gravel at end	j
20 22	33	52	66	100/3	6		-	grey-green, strong petroleum odor Rock in shoe, no odor! grey cvc.	
20-22	33	52_	00	100/3	0	-		sand and f. rounded gravel, wet some	
	_					 		salid and it rounded graver, wet some	Ī
22-24	16	25	55	73	18	 		wet 0-6" very tight brown micaceous	
	.0			-		 		sandy silt, no odor, 6-15" vf. brown	
┰┪			_			<u> </u>		micaceous sand. 15-18" very tight	
			_					brown micaceous sand, some	î
				1				rounded gravel, no odor, wet	
24-26	5	22	15	52	18			wet 0-6" fluffy fm. micaceous sand	
								brown, 6-12" tight tan grey micaceous	
								sandy silt. 12-24" brown m-c	
								micaceous sand, some rounded	
								gravel, no odor, wet	
26-28	25_	100/1			3			Rock in shoe, brown mc. micaceous	
								sand	
					-		20	[
]									
				<u> </u>					
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		<u> </u>							

1	V	1				144				Boring	No.: SB-1
		200	Tes	st Bo	orin	g Lo	og			Sheet	1 of 1
Proid	ect N	ame:	Hun	ts Poir	nt - Ve	ernon	C. Ba	ines C			t No.: 781-005
Clier		VYSD		•	no = " (g)						Start 2-16-00
Drille	5 7650 ₂		nitt Dri	illina			•			The second secon	inish 2-16-00
	ng M			lobile	B-59/2	2.25 H	ISA	*		Total [Depth: 17.0
	ng Lo										To Water: ~10.0
	dinat		, i i i	-				-5			levation:
	ed B			Diameter: 4-in.							
				hornb ent(s):)					
1011			n Samp		T	<u> </u>		1	Classification Of Material		<u> </u>
		JIOWS C				 =		0 ~	f - fine and - 35-50%		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%		Remarks
					_	_			0-0.4 ft asphalt		Began sampling
1	12	35	50/1		0.8			m	1.0-1.8 Gray fine to medium SAND,		1-ft below grade
•	==								some silt, little fine to coarse gravel.		refusal at 2.0 ft
3	8	6	6	6	1.5			m	3.0-3.8 Dark gray SILT, some fine to)	Offset hole 2 ft.
									medium sand, trace fine gravel.		
5	7	9	9	7	1			m	3.8-4.5 Ash, trace coal, trace cinder		
									5.0-6.0 Same as above		
7_	4	4	2	2	0.3			m	7.0-7.3 Same as above		
9	2	5	7	12	8.0			w.	9.0-9.8 Same as above		
11	8	5	5	5	0.6		•	w	11.0-11.6 Same as above		
13	3	4	3	5	0.6			w	13.0-13.6 Ash, trace coal, trace cind	der,	
200									trace glass 15.0-16.0 Ash, little white flaky mate	orial	
15	5	6	6	8	1			W	trace coal, trace cinder, trace glass	stial,	
									liace coal, frace ciriaer, frace glass		
17									End of boring at 17.0 ft		

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					<u> </u>		-				
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				200	_				-		
	<u> </u>	<u> </u>							4		
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	VA C								Boring	No.: SB-2
2750274	111		Tes	st Bo	orin	g Lo	og		Sheet	1 of 1
Proje	ct Na	me:	Hun	ts Poir	nt - Ve	ernon	C. Ba	ines C	Correctional Facility Projec	t No.: 781-005
Clier		IYSD					-			Start 2-16-00
Drille	er: S	Summ	nitt Dri	illing	-	. 1		,	F	inish 2-16-00
	ng Me			lobile l	3-59/2	2.25 H	ISA	· ·	Total D	Depth: 37.75
	ng Lo		_						Depth	To Water: ~10.0
-	dinat						**		Surf. E	levation:
			ohn T	hornb	ura				Hole D	iameter: 4-in.
				ent(s):						•
			n Samp						Classification Of Material	
₽					ا ح	int g	m ™	v ±	f - fine and - 35-50%	
Depth (ft)	0	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some - 20-35%	Remarks
l de	Ö	6	12	18.	₩ ₩	nstr Rea	Sa	ŞΩ	c - coarse trace - 0-10%	
		_							0-0.4 Asphalt	Began sampling at
1	21	34	31	18	1.3			m	0-0.7 Dark gray silty fine to medium SAND	
<u> </u>		<u> </u>	31						little fine to coarse gravel, little ash	
3	7	6	7	7	0.9			m	0.7-1.3 Black ash, trace coal	
				3.					3.0-3.9 Black and gray ASH, trace coal	
5	3	5	5	5	0.7			m	5.0-5.7 Black and gray ASH, little cinder,	
<u> </u>								-	trace coal	
7	4	6	5	3	0.3			m	7.0-7.3 Black ASH, some cinders	
						(i			9.0-9.3 Olive gray fine to medium SAND,	
9	2	6	5	1	0.3			W	some silt, trace angular gravel	
									1.0-11.8 Gray ASH, little glass, little coal,	
11	1	4	3	1	0.8		,	W	trace wood	
			,,,,,,						13.0-13.1 Same as above	
13	2	2	3	2	0.1			W		
		_								
15	2	1	3	3	NR			W	17.0.17.4 Dorte arou fine to approx SAND	
								ì	17.0-17.4 Dark gray fine to coarse SAND (ash), little gravel	
17	2	4	4_	6	0.4			w	19.0-19.5 Dark gray fine to coarse SAND	
									(ash), little gravel, some white flaky materia	
19	1	1	2	2	0.5			W	21.0-21.8 Dark gray fine to coarse SAND,	
								_	trace wood, trace glass, trace cinder.	
21	2	2	5	5	0.8			W	23.0-24.4 Dark gray fine to coarse SAND,	
									little silt, trace wood, trace glass, trace	
23	7	5	4	1	1.4			W	cinder	
	<u> </u>								25.0-25.2 Same as above	
25	2	3	1	_1	0.3			w_	25.2-25.3 Gray silty CLAY	
								SOCIALITY	27.0-27.6 Gray silty CLAY, trace ceramic	
27	1	2	1	3	0.6			W	fragment, trace coal	
					0.0			_	29.0-29.9 Gray silty CLAY grading into	
29	1	0	1_	0	0.9		-	W	clayey fine to medium SAND, some silt,	
		•		_	415	ļ			trace shell	
31	1	4_	6	7	NR			w	33.0-33.7 Brown fine to medium SAND, little	
	00/0	7.			0.7				fine to coarse gravel, little silt	
33	80/6	75	,		0.7	·		W	35.0-35.8 Brown fine to medium SAND,	
25	4.7	72	0.4	<u> </u>	0.0		_		some silt (Saprolite)	Auger refusal at
35	17	71	94		8.0			<u> w</u>	1	37.75 ft
27	75/2				NID				1	OT TO IL
37	75/3				NR			Щ.,	<u> </u>	L ,

	VI								E	Boring	No.: SB-3
	777		Tes	st Bo	orin	g Lo	og		5	Sheet	1 of 1
Proj	ect N	ame:	Hun	ts Poir	nt - Ve	ernon	C. Ba	ines C	Correctional Facility	Projec	t No.: 781-005
Clier		VYSD									Start 2-16-00
Drille	er:	Summ	nitt Dr	illing	•					F	inish 2-16-00
0 01 00-9000000		ethod		lobile l	B-59/4	4.25 H	ISA		1	rotal C	Depth: 16.0
		catio									To Water: ~10.0
	rdina								the state of the s		levation:
Logo	ged B	v: J	ohn	Thornb	urg				ŀ	Hole D	iameter: 8-in.
				ent(s):				850			
		Blows O							Classification Of Material	***	
£			i.	· .	جے ا	en e	မမ	일 눈	f - fine and - 35-50%		
Depth (ft)	.90	6"-12"	2"-18"	18"-24"	Recovery (ft)	adin	Sample Retained	Moisture Content	m - medium some - 20-35%		Remarks
Ğ	٥	ō	12	81	% A	Instrument Reading	Rel	၌ပိ	c - coarse ittle - 10-20% trace - 0-10%		
								-	0-0.4 Asphalt		Began sampling
1	40	25	19	11	1.3	0		m	1.0-1.4 Brown silty fine SAND, trace	fine	1-ft below grade.
			3 300-0						gravel		E 30 See See See
3	11	10	11	7	0.8	0		m	1.4-1.6 Black SILT, little fine sand, tra	ace	PID has lots of drift
						8			coal		due to moisture ar
5	5	5	5	5	0.3	0		m	1.6-2.3 ASH, trace coal, trace glass		cold temp.
-									3.0-3.8 Black and gray ASH, trace ci	nder,	Change montoleum
7	4	3	5	4	NR	0		m	trace glass		Strong pertoleum odor at 9.0 ft
					-02 (1981)				5.0-5.3 Brown and gray ASH		2.25" augers to 11
9	3	3	3	3	0.3	0		W	9.0-9.3 Dark gray ASH,		ft. Swithed to 4.25
									11.0-11.4 Dark gray silty fine SAND,	enme	ACTION (MORE O INSCRIPTIONAL STATE OF ALL MONITORISMS IN
11	8	14	40	50/2	1.1	8		W	wood fragments	301110	installed. Product
									11.4-12.1 Light brown fine to coarse		on the augers
13	25	50/2			0.3	5		W	SAND, little silt, trace f-c gravel		Augers chattering
4.5	E0/0	-			ND				13.0-13.3 Brown fine to coarse SANI	D,	15.5 ft. Refusal at
15	50/3		-		NR	5		W	some silt, little fine to medium gravel	7	16.0 ft. Wrecked b
17											Set well at 16.0 ft.
17								_	End of boring at 16.0 ft		
		,			<u> </u>						
	-										
				-							
0 - 20 E					-						
10					<u> </u>						
			-								
			12								
						20 0		2.28			
	l										

	V. C	2				_			Borin	g No.: SB-4
	LIE		Tes	st Bo	orin	g Lo	og		Sheet	1 of 1
Proje	ect Na	ame:	Hun	ts Poir	nt - Ve	rnon	C. Ba	ines C	Correctional Facility Project	ct No.: 781-005
Clier		IYSD				-0			Date:	Start 2-16-00
	-	Summ	-	illina	_	_				Finish 2-16-00
	ng M			lobile	B-59/2	2.25 H	ISA		Total	Depth: 17.0
	ng Lo								<u>S</u>	To Water: ~10.0
	dinat			2		÷				Elevation:
	ed B		obo T	hornb	ura		-	-		Diameter: 4-in.
				ent(s):			<u> </u>			
iori					FIL			Γ-	Classification Of Material	
		lows O	n Samp	ler		ید			f - fine and - 35-50%	İ
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
					N 30				0-0.4 asphalt	Began sampling
1	17	20	50	40	1.8			m	1.0-1.4 Olive brown silty fine to medium,	1-ft below grade.
									SAND, trace fine gravel	
	"								1.4-1.9 Black SILT (ash), trace glass	
									1.9-1.1 Brown fine to medium SAND, little	
3	35	33	30	32	1			m	silt	
		, , , , , , , , , , , , , , , , , , ,	_	552					1.1-1.4 Black silt (ash), little coal, trace	ì
						18.82			cinder	
									2.4-1.8 Brown fine to medium SAND, little	
5	10	7	8	5	0.4			m	gravel	
		81 IO	-1				8		3.0-4.0 Brown fine to medium SAND, little	Ť.
		0 - 2 0 - 0							fine to medium gravel, trace silt	
									5.0-5.4 Brown silty fine to medium SAND,	
7	6	7	5	7	1_			W	trace coarse gravel 7.0-8.0 Brown fine to medium SAND.	
									some fine to medium gravel, some silt,	
									trace clay clods	
					900 - 30				9.0-10.0 Brown fine to medium SAND,	
9	5	5	6	4	1			W	trace coarse sand, trace fine to medium	
									gravel	
									9,4,0	
								<u> </u>	11.0-12.6 Brown fine to coarse SAND,	
11	4	2	3	4	2			w	little silt, trace fine gravel	
									12.6-13.0 Gray fine to medium SAND,	
	-	200	ä			L .			little silt, trace fine gravel, trace thin blak	
									silty clay seams at 12.8 ft.	
13	4	3	3	4	2			W	13.0-15.0 Brown fine to medium SAND,	
									trace fine gravel, trace silt	
									<u> </u>	
				90 E					15.0-17.0 Brown fine to medium SAND,	
15	3	2	3	6	2		ļ .	ļ	little silt, trace fine to medium gravel	
17									End of boring at 17.0 ft	
				2002			2]	
							i			

	V			. –						Boring	No.: SB-5
	211		Tes	t Bo	orin	g Lo	og			Sheet	1 of 1
Proje	ct Na	ame:	Hun	ts Poir	nt - Ve	ernon	C. Ba	ines C	orrectional Facility	Projec	t No.: 781-005
Clien		IYSD		2 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			~			Date: \$	Start 2-16-00
Drille	er: 5	Summ	itt Dri	lling				_		F	inish 2-16-00
Drilli		ethod		obile l	B-59/2	2.25 H	ISA			Total [Depth: 17.0
		catio								Depth	To Water: ~10.0
	dina							-		Surf. E	levation:
	ed B		ohn T	hornb	ura					Hole D	Diameter: 4-in.
				nt(s):)		-			
		Blows O			1			<u> </u>	Classification Of Material		
Ω.	-	1000			_	토 m	, TO	يب نه	f - fine and - 35-50%		
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some - 20-359 c - coarse little - 10-20% trace - 0-10%		Remarks
									0-0.4 asphalt		Began sampling
1	15	35/3						m	1.0-1.3 Gray fine to medium SAND,	some	1-ft below grade.
									silt, trace fine to medium gravel		Water running into
			8								hole from subbase
					<u>L</u> _				0 0 0 7 Dunium view 6 40 6-0 CANI	_	
3	24	18	13_	15	0.7			m	3.0-3.7 Brown very fine to fine SAN	D,	
									trace silt		1
			-								
					<u></u>				5.0-6.3 Brown very fine to medium	SAND	
5_	10	7	6	5	1.3			m	little silt	o,,	1
									The same		
			rs -		ļ	 -					1
	7	_	40	45	4 4			<u> </u>	7.0-8.4 Brown very fine to medium	SAND,	
7	7	8	10	15	1.4	 		m	little silt, trace medium gravel		
_					 						
_				1	-						
9	7	7	6	8	1.2			-w	9.0-10.2 Brown very fine to medium		ļ
	•	,	-		1	<u> </u>			SAND, little fine gravel, little silt (we	t at ~	
-								_	10.0 ft)		
-											
11	13	8	6	5	1.3			w	11.0-11.3 Same as above		
									11.3-1.3 Gray very fine to medium	SAND.	ļ
									little silt	_, ,, ,,	1
									13.0-14.5 Brown very fine to mediu	m	
13	_ 5	3	4	7	1.5			w	SAND, trace silt, trace fine to mediu		
									gravel		
											ļ
						ļ			Same as above		
15	5	6	8	11	1.6			W	-		
,						ļ			-		1
		ļ.,			<u> </u>	<u> </u>			-		
		 			<u> </u>	 		<u> </u>	- 1 (1 (2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1
17					 	1	}	 - -	End of boring at 17.0 ft		
_					-	-	<u> </u>	 	1		
_		-			-			<u> </u>	1		
			ļ				<u> </u>	<u> </u>	4		

	S. Lake	1	-	,				Borine	No.: B-1
	MR		Tes	t Bo	rino	y Lo	g	Sheet	
Drois	يحسم	me: N			_		NEW CONTRACTOR		t No.: 781-005
		CEDC	TOED	C Hui	13 1 0	HIL OH	ie D		Start 3/30/00
		aig Tes	t Borin	20	-			200000000000000000000000000000000000000	Finish 3/30/00
		ethod:			-				Depth: 20'
		cation		•	- 3				To Water: NA
		es: NA							Elevation: NA
20 10 100 100010		/: Ed T		and					Diameter: 2" Split
		instr			Δ			THOIC E	nameter 2 opm
		Blows O						Classification Of Material	
£					2	_E	ام	f - fine and - 35-50%	
Depth (ft)	0	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	3	3	2	4	10"		S-1	Brown sand and silt.	-
0-2	ა	_ <u></u>		1	10		3-1	Brown saild aild siit.	
		-			-		\vdash		\
2-4	1	1	3	5	9"	-	S-2	4.5" brown sand and silt.	
-		ΓĖ			<u> </u>			4.5" light brown silty sand.	
4-6	12	23	26	28	11"		S-3	Light brown silty sand.	
									,
6-8	6	16	20	32	17"		S-4	S.A.A.	
									,
								S A A some group!	
10-11	25	100/6			11"		S-5	S.A.A. some gravel.	,
\vdash	-								
15-17	15	13	12	12	17"		S-6	S.A.A.	
10-11	10	13	12		17		3-0		
					_		- 1		
18-20	24	40	100/6		11"	-	S-7	Crushed schist.	
									E.O.B. 20' PVC
			8				0 10 15_0		installed.
				A ASERT					
		<u> </u>							
					L				
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							\vdash		

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	VIG	1						-	Boring	g No.: B-2
	J.P.	A STATE	Tes	t Bo	ring	j Lo	g		Sheet	1 of 1
Proje	ct Na	me: N	YCED	C Hun	its Po	int S	ite B		Projec	t No.: 781-005
		CEDC							Date:	Start 3/31/00
Drille	r: Cra	ig Tes	t Borir	ng						Finish 3/31/00
Drilli	ng Me	thod:	H.S.A		10				Total I	Depth: 20'
Borin	ıg Loc	ation	NA						Depth	To Water: NA
Coor	dinate	s: NA		×	_				Surf. I	Elevation: NA
Logg	ed By	: Ed T	ownse	end					Hole [Diameter: 2" Split
Moni	toring	Instr	ument	(s): N	Α					
	Ę	Blows On	Sample	r				Classification Of Material		
Depth (ft)	.9-,0	6"-12"	12"-18"	18".24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-5 m - medium some - 20 c - coarse little - 10-3 trace - 0-1	-35% 20%	Remarks
0-2	4	6	6	9	10"		S-1	Brown sand and silt, quartz rock fragments, trace coal ash.		
2-2.5	22	100/1			8"		S-2	Brown sand and silt, little quartz fragments.	, root	
4-4.25	100/3				1"		S-3	Gniss rock fragment.		
6-8	20	19	23	21	0"		S-4	No recovery.		
10-12	18	22	24	21	11"		S-5	Grey f to m sand, some gravel.		Slight odor.
15-17	15_	18	16	17	13"		S-6	S.A.A.		Slight odor.
18-20	12	10	15	23	8"		S-7	S.A.A.		Slight odor.
										E.O.B. 20' PVC installed.

	ME	T	Tes	t Bo	ring	g Lo	og	!	ring No.: B-3
Proi	ct Na	me: N	YCED				100		ject No.: 781-005
	t: NY			<u> </u>					e: Start 4/4/00
			st Borir	10					Finish 4/4/00
			H.S.A	_				Tot	al Depth: 20'
	ng Loc				_				th To Water: NA
	dinate		_						f. Elevation: NA
			Townse	nd			-	Hol	e Diameter: 2" Split
			ument		A				
			n Sample					Classification Of Material	T -
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	4	6	16	12	10"		S-1	Brick and sandy grey silt.	
2-4	18	32	25	26	8"		S-2	Concrete fragments.	
4-6	23	35	26	25	12"		S-3	Grey silty fine sand, some brick and concrete.	Slight odor.
6-8	9	11	28	33	6"		S-4	Grey silty fine sand.	Slight odor.
10-12	15	48	41	43	14"		S-5	S.A.A.	Slight odor.
15-17	16	16	17	14	12"		S-6	Grey f to m sand, little silt, trace brick fragments.	Slight odor.
18-19.4	29	69	100/5		5"		S-7	S.A.A., schist fragment.	Slight odor.
									E.O.B. 20' PVC installed.
								*Drill head lost in first boring, another hole was drilled 3 feet SE of original.	
	-								

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	17							Boring	No.: B-4
	ME		Tes	t Bo	rino	ı Lo	a	Sheet	1 of 1
		(E) = +/3	YCED	1000					No.: 781-005
		CEDC	TCED	C Hui	ils FO	iii. S	ile D		Start 3/21/00
			4 Davis						nish 3/21/00
			t Borir						epth: 20'
			H.S.A			101	5		Fo Water: NA
		ation				_			levation: NA
		s: NA						A CONTRACTOR OF THE CONTRACTOR	ameter: 2" Split
		_	ownse		^	noie bi	ameter. 2 Spiit		
MOH			ument		T T	1	г Т	Classification Of Material	
_		Blows Of	Sample		-	= _		f - fine and - 35-50%	
Depth (ft)	.9,0	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	5	13	15	15	13"		S-1	Coarse medium brown sandy silt and	
								brick fragments, little OM, trace coal	
								tar.	
2-4	40	33	17	12	13"		S-2	Medium brown fine sandy silt, little	
					ļ		Щ	gravel, trace coal ash and tar.	
	_							Fire and little silt and proved trans	
4-6	13	13	16	16	10"		S-3	Fine sand, little silt and gravel, trace red brick.	ļ
	-,							red brick.	
		40	40		0"		C 4	Stone fragment in cutting head.	
6-8	- 8	13	13	17	U		S-4	Otone fragment in cutting field.	
-					 		\vdash		
8-10	25	25	23	18	12"		S-5	Fine grey sand, little silt.	Strong odor,
0-10	23	23	23	10_	12			1 - -	staining.
$\vdash \vdash \vdash$					-		\vdash		
10-12	17	19	20	15	9"		S-6	S.A.A.	Strong odor,
1.0 1.2					-				staining.
М									5007
15-17	9	9	9	10	11"		S-7	0 - 0 − 1	Strong odor,
									staining.
18-20	18	18	26	32	15"			Grey/brown fine sandy silt.	No odor.
									E O D 201 701 /0
								1	E.O.B. 20' PVC
						_			installed.
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	2.5				.				
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	VIE		Tes	+ P^	rine	,) ^	·	Boring No.: B-5
	77	Design		200				Sheet 1 of 1
			YCED	C Hur	its Po	int S	ite B	Project No.: 781-005
Clien	t: NY	CEDC						Date: Start 3/21/00
Drille	r: Cra	ig Tes	t Borir	ng				Finish 3/21/00
Drilli	ng Me	thod:	H.S.A					Total Depth: 20'
Bori	ng Loc	ation	: NA					Depth To Water: NA
Coor	dinate	s: NA						Surf. Elevation: NA
Logg	ed By	: Ed T	ownse	end				Hole Diameter: 2" Split
Moni	toring	Instr	ument	(s): N	A			
	E	Blows Or	Sample	r				Classification Of Material
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
0-2	12	48	50	48	16"		S-1	5" yellow-grey coarse sand, medium brown silty sand and debris.
2-4	16	17	19	20	16"		S-2	Top 4" grey ash and silt, rest medium brown fine sand and silt, little fine to coarse gravel. Turpentine like odor. (Creosote)
4-6	16	32	40	16	7"		S-3	S.A.A. Creosote odor.
6-8	17	18	20	35	17"		S-4	S.A.A., little mica, trace brick. Creosote odor.
10-12	81	43	51	52	6"		S-5	Light brown medium sand, little silt, trace mica, little gravel
15-17	11	25	27	49	10"		\$-6	Medium brown fine to medium sand, little silt, trace gravel.
18-20	80	79	51	49	8"	_	S-7	S.A.A., some mica fragments, last 4" Very slight odor. black medium sand.
								E.O.B. 20' PVC installed.
						-		

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7.		Sept.						Boring No.; B-6
	WS		Tes	t Bo	rino	a Lo	q	Sheet 1 of 1
Design								Project No.: 781-005
			YCED	C Hui	us Po	IIII <u>5</u>	ile D	Date: Start 3/27/00
		CEDC				-		Finish 3/27/00
			t Borin					20 (400-400000000000000000000000000000000
			H.S.A					Total Depth: 20'
		cation						Depth To Water: NA
		es: NA						Surf. Elevation: NA
			ownse					Hole Diameter: 2" Split
Moni			ument		<u> </u>			
		Blows Or	Sample	er .			e	Classification Of Material
3	z	<u>ج</u>	₽	-4	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35%
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	8 (5)	를 를	ag ag	c - coarse little - 10-20% Remarks
۵		9	-			हिल	တည	trace - 0-10%
0-2	2	2	3	3	12"		S-1	Brown sandy silt, little gravel and coal.
2-4	2	3	4	9	11"		S-2	S.A.A., little coal ash and brick
						<u> </u>		fragments.
								D. A
4-6	3	3	4	4	10"		S-3	Dark grey silty sand with medium
							Ш	gravel, little shells, organics, trace
				<u> </u>				brick.
6-8	4	3	4	9	8"		S-4	S.A.A., oxidized iron/fill.
								O l'abb bassan aile.
10-12	4	5	11	14	3"		S-5	Coarse gravel, some light brown silty
								sand.
					ļ			Brown and name group!
15-17	8	9	24	69	6"		S-6	Brown sand, some gravel.
							Ш	
		ļ						S.A.A.
18-20	13	22	29	38	8"		S-7	J.A.A.
								E O B COLDVO
								E.O.B. 20' PVC
								installed.
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							Ш	
$oxed{oxed}$						L <u>.</u>		
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							\Box	
							\Box	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$oxedsymbol{oxed}$								
$oxedsymbol{oxedsymbol{oxed}}$		ii.						
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5-14 P	aj nega:	24 July 2			_			Davis No. D 7
	MS	TEE	Tes	t Bo	ring	ı I c	oa	Boring No.: B-7
De la la	1	7.1						Sheet 1 of 1 Project No.: 781-005
			YCED	C Hur	แร คอ	ini 5	ite B	
		CEDC	. D					Date: Start 3/27/00 Finish 3/27/00
			t Borir					
			H.S.A	•		_		Total Depth: 20'
		cation						Depth To Water: NA
		es: NA						Surf. Elevation: NA
			ownse					Hole Diameter: 2" Split
Moni			ument		A		г	
		Blows Or	Sample	er I				Classification Of Material f - fine and - 35-50%
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% Remarks c - coarse little - 10-20% trace - 0-10%
0-2	3	3	2	4	8"		S-1	Fine to medium dark brown sand, some
								brick and shells.
2-4	11	13	15	8	18"		S-2	S.A.A., little coal ash.
4-6	2	1	1	2	10"		S-3	Dark grey organic clay, some brick. Slight odor.
6-8	5	4	2	2	8"		S-4	S.A.A. Slight odor.
					Ů			
10-12	1	1	3	_2	12"		S-5	S.A.A., some shells. Slight odor.
15-17	8	3	3	2	1"		S-6	Coarse gravel, some shells.
18-20	15	28	26	24	4"		S-7	2" medium gravel, 2" brown medium sand.
								E.O.B. 20' PVC installed.
		. <u>-</u>						
			<u></u>					
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n f	VIC	5.7.	_	. –					Boring	No.: B-8
	LID S		Tes	t Bo	ring	j Lo	g	Ţ.	Sheet	1 of 1
Proje	ct Na	me: N	YCED	C Hur	ts Po	int S	ite B		Projec	t No.: 781-005
		CEDC	<u> </u>	N. C. S. S. S. S. S. S. S. S. S. S. S. S. S.					Date: S	Start 4/3/00
Drille	r: Cra	ig Tes	t Borir	19					F	inish 4/3/00
		thod:							Total D	Depth: 20'
		ation	_							To Water: NA
		s: NA	_			***	-			levation: NA
		: Ed T		end			-			iameter: 2" Split
		Instr			Α		ļ.		<u> </u>	
	_	Blows Or	20 0 000 0					Classification Of Material	_	<u> </u>
æ			esi (5)		5	[_E	ا و ۾	f - fine and - 35-509		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-3 c - coarse little - 10-20' trace - 0-109	%	Remarks
0-2	2	4	5	7	8"		S-1	Brown sandy silt, some coal ash, t	trace	3.440
								wood fiberglass, and brick fragme		
								Grey sandy silt and shell fragment	ts.	
2-4	13	9	8	7	14"		S-2			
					<u> </u>			S.A.A., little coal ash.		
4-6	8	6	5	6	10"		S-3			
		2.5	-			<u> </u>		0.0.0		
								S.A.A.		
6-8	3	2	2	2	9"		S-4	İ		
								Crou silly cond and -balls		
								Grey silty sand and shells.		Climbs adam
10-12	1	2	2	1	10"		S-5			Slight odor.
							\vdash	S.A.A.		
	107				14"		S 6	اح.د.		Slight odor.
15-17	W. ,	Ο.	Н.	10	14		S-6			Chight Guoi.
-	-				 		 	Grey silty sand and gravel.		
10.00	10	6	5	6	6"		S-7	and any and area greater		Slight odor.
18-20	10	U	J	U	<u> </u>	<u> </u>	5-7			
										E.O.B. 20' PVC installed.
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	VY	1			-	=	7	Boring N	o.: B-9
	عايا		Tes	t Bo	ring	g Lo	g	Sheet 1	of 1
Proie	ct Na	me: N	YCED	C Hur	ts Po	int Si	te B	Project N	o.: 781-005
		CEDC						Date: Sta	
Drille	er: Cra	ig Tes	t Borir	ng				Fini	sh 4/3/00
		thod:						Total Dep	oth: 20'
		cation			•			Depth To	Water: NA
		s: NA						Surf. Elev	ation: NA
Logg	ed By	r: Ed T	ownse	end				Hole Diar	neter: 2" Split
Moni	itoring	Instr	ument	(s): N	A				_
		Blows Or	Sample	r				Classification Of Material	_
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	1	2	3	2	8"		S-1	Coal ash and grey sandy silt, trace shells.	-
2-4	7	20	51	27	17"		S-2	Coal ash and decomposed concrete, some grey sandy silt.	
4-6	10	11	6	4	3"		S-3	Coal ash and gravel, rock fragment.	
6-8	3	3	5	6_	12"		S-4	Coal ash and grey silty sand, little shells, trace brick fragments.	
10-12	2	2	2	2	8"		S-5	S.A.A.	ight odor.
15-17	1	1	1	1_	18"		S-6	Grey silty sand and shell fragments.	ight odor.
18-20	W.	0.	H.		24"		S-7	S.A.A.	ight odor.
									O.B. 20' PVC stalled.
	20			-					

1 SV	MS		Toe	t Ro	rin/	1 l c		<u> </u>	oring No.: B-10
									heet 1 of 1
		me: N	YCED	C Hur	its Po	int S	ite B		roject No.: 781-005
	accepted to their star of	CEDC						D	ate: Start 4/3/00
		ig Tes		_					Finish 4/3/00
	-	thod:							otal Depth: 20'
		ation			_				epth To Water: NA
		s: NA			_				urf. Elevation: NA
		: Ed T							ole Diameter: 2" Split
Moni		Instr			<u> </u>				
	<u> </u>	Blows Or	n Sample	r I		_		Classification Of Material	
Depth (fl)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35' c - coarse little - 10-20% trace - 0-10%	% Remarks
0-2	10	12	58_	18	10"		S-1	Brown sandy silt, little gravel, 4" tar	
2-4	16	13	10	11	5"		S-2	Coal ash, tar, rock fragments.	
4-6	7	9	8	9	0"		S-3	No recovery.	
6-8	1	_1	1	1	12"		S-4	Grey silty sand, trace gravel.	
10-12	1	1	1	1_	24"		S-5	S.A.A.	Slight odor.
15-17	1	0	1	1	20"		S-6	S.A.A.	Slight odor.
18-20	_1_	0	1	0	20"		S-7	S.A.A.	Slight odor.
									E.O.B. 20' PVC installed.
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	×.			10			\Box		
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A A	<i>-</i>	(\$. 6);				 		Boring No.: B-11	
	V S		Tes	t Bo	rino	a Lo	a	Sheet 1 of	
		2000					0.000	Project No.: 781-	100
		me: N	T UED	C Hun	เร ۲0	int 5	ile B	Date: Start 4/3/0	
		CEDC						Finish 4/3/0	
		ig Tes							
		thod:		<u> </u>				Total Depth: 20	
		ation			0			Depth To Water:	
		s: NA						Surf. Elevation:	
		: Ed T						Hole Diameter: 2	Split
Moni		instri			A				
	E	Blows Or	Sample	<u> </u>		_		Classification Of Material	
€	<u></u>	5	<u>.</u> 6	.4	, ery	Fig.	ped Dec	some - 20-35%	
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	c - coarse little - 10-20%	arks
-						<u> </u>		trace - 0-10%	
0-2	6	4	4	4	8"		Ş-1	Brown sandy silt, little gravel and coal	
\vdash								ash.	
	-		40	1	8"		S-2	Coal ash and brick fragments.	
2-4	3	4	10	4_	8		3-2	Coal asil and blick fragilierus.	
\vdash		_			<u> </u>	-			
4.6	3	3	3	5	0"		S-3	No recovery.	
4-6	٠	<u> </u>	3	5_	0		3-3	110 1000101)1	
├─-┼				-					
6-8	5	3	2	4	8"		\$-4	Coal ash, little rock and brick	
0-0	<u> </u>	3				 		fragments.	
		_		-					
10-12	1	1	1	1	24 ⁿ		\$-5	Grey silty fine sand,trace brick and Slight odo	ır.
10-12			•		 			shell fragments.	
				_	1				8
15-17	1	1	1	1	20"		S-6	S.A.A. Slight odo	r.
		NO. 1000 NO10							
18-20	1	1	1	0	24"		S-7	S.A.A. Slight odo	ir.
						10.50			. 5) /6
								E.O.B. 20	PVC
								installed.	
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	MS		Tes	t Bo	rino	a Lo	na 	Bori She	ng No.: B-12
_		me: N	YUEL	C nui	แรคง	ini 5	ile D		ect No.: 781-005 : Start 4/3/00
		25.0	4 D = 2.					Date	Finish 4/3/00
		aig Tes						Total	
		thod:		<u>. </u>					Depth: 20'
		cation							h To Water: NA
1		es: NA							Elevation: NA
		/: Ed T							Diameter: 2" Split
Mon		Instr			A	_			
		Blows Or	Sample	<u> </u>	-			Classification Of Material f - fine and - 35-50%	Ķ
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	3	3	5	4	16"		S-1	Grey sandy silt, some rock fragments.	
2-4	100/5				1"		S-2	Trace wood, rock fragments.	
4-6	11	6	5	7	13"		S-3	Coal ash and gravel, rock fragment.	
6-8	7	7	5	5	4"		S-4	Decomposed concrete, some brown silty sand.	Slight odor.
10-12	8	5	1	2	0"		S-5	No recovery.	
15-17	1	WHO	1	1	17"		S-6	Grey silty sand.	Slight odor.
18-20	W.	Ο.	Н.		6"	_	S-7	S.A.A.	Slight odor.
	**								E.O.B. 20' PVC installed.
-									
		A2 50							

97 Y		a tree.							
MI	VE	3	T	4 D ~		. I -	تبغر		No.: B-13
	775	A		t Bo		-0	1 -1	Sheet	3 3 N A
Proje	ct Na	me: N	YCED	C Hun	ts Po	int S	ite B	Projec	t No.: 781-005
Clien	t: NY	CEDC	? 3						Start 4/3/00
Drille	er: Cra	ig Tes	st Bori	ng					inish 4/3/00
Drilli	ng Me	thod:	H.S.A						Depth: 20'
Borir	ng Lo	ation	: NA						To Water: NA
Coor	dinate	s: NA						Surf. I	Elevation: NA
Logg	ed By	r: Ed T	ownse	end				Hole E	Diameter: 2" Split
Moni	toring	Instr	umen	t(s): N	A				
		Blows Or	Sample	er		}		Classification Of Material	
ε	i.	5.		. 4 :	eī.	nent	eg pe	f - fine and - 35-50% m - medium some - 20-35%	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	c - coarse little - 10-20% trace - 0-10%	Remarks
0-1.6	5	5	30	100/1	6"		S-1	Dark brown to black sandy silt, some	
								gravel, coal ash, crushed concrete.	
2-4	5	3	5	5	14"		S-2	Coal ash.	9
10			-		- CII			Coal ash.	
4-6	6	9	5	5	6"		S-3	Coar asn.	
					-				
6-8	5	5	5	3	0"		S-4	No recovery.	
0-0				-	-		0		
10-12	1	1	1	2	2"		S-5	Coal ash, little gravel.	Slight odor.
	-					6			
15-17	1	W.	O.	H.	6"		S-6	Grey silty fine sand.	Slight odor.
18-20	<u>W.</u>	_0.	Н.		12"		S-7	S.A.A.	Odor.
 		_							E.O.B. 20' PVC
									installed.
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n î	v r.	5 13		-	Cost			Boring No.: B-14
) or 24	Tes	t Bo	ring	j Lo	g	Sheet 1 of 1
Proje	ct Na	150		C Hun		-		Project No.: 781-005
_		CEDC	, QLD		.0.0			Date: Start 3/30/00
	CONTRACTOR OF THE PERSON NAMED IN	aig Tes	t Bori	00				Finish 3/30/00
		thod:	_					Total Depth: 20.4'
				١.				Depth To Water: NA
		cation					8	Surf. Elevation: NA
	200	es: NA						The second section and the second section is the second section of the second section in the second section is
		/: Ed T						Hole Diameter: 2" Split
Mont				t(s): N/	<u> </u>			
		Blows Or	Sample	er	1000			Classification Of Material f - fine and - 35-50%
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
0-2	4	7	6	7	20"		S-1	Light brown sandy silt.
2-4	5	6	5	5	12"		S-2	Grey silty sand.
4-6	11	14	21	28	18"		S-3	S.A.A.
								1 to the bosons of this again
6-8	15	30	19	19	17"		S-4	Light brown silty sand.
		1		<u> </u>				
								S.A.A.
10-12	18	24	24	34	8"		S-5	5.A.A.
						_		
\vdash	40	45	-00	4004	450			Light grey sandy silt, some gravel. Slight odor.
15-16.5	13	15	26	100/1	15"		S-6	Light grey sandy sitt, some gravel.
	28	45	72	100/5	10"		S-7	11" light grey sandy silt, 1" crushed Slight odor.
18 5-20 4	20	45	12	100/5	12		3-1	sandstone.
				 				E.O.B. 20' PVC
				1				installed.
				\vdash		\vdash	-	
				 				
\vdash								
 								
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					150000 000	0		
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			· ·				- 8	Borin	g No.: B-15
	MS		Tes	t Bo	rinc	ı Lo	g	Sheet	7 77
Drain	et No	me: N					771	2174000000	ct No.: 781-005
		CEDC	ICED	C Hun	เอ คบ	int <u>5</u>	ite D		Start 3/31/00
	The state of the s	ig Tes	+ Boris						Finish 3/31/00
		thod:	_		- 8-8-				Depth: 20'
		cation		<u>' - —</u>			-		To Water: NA
		es: NA							Elevation: NA
	_	/: Ed T		and a					Diameter: 2" Split
		Instru			Δ				Prairie Cont
1110111		Blows Or						Classification Of Material	T -
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
		400/0			6"	€ "	-	Brown sandy silt, root fragments, little	
05	8	100/0			6		S-1	brick and concrete fragments.	
2-4	6	6	7	46	4"		S-2	Concrete and rock fragments.	
4-6	11	13	21_	22	14"		S-3	Grey to black sandy silt, coal ash, little brick fragments.	Slight odor.
6-8	14	20	22	35	17"		S-4	Dark grey sandy silt, some coal ash.	
10-12	42	49	36	28	4"		S-5	Fine gravel, sandstone fragment.	
15-17	23	45	83	71	7"		S-6	Medium to fine gravel, grey medium to fine sand, trace brick fragments.	
18-20	15	8	11	16	1"		S-7	Fine gravel and rock fragment.	Slight odor.
				-					E.O.B. 20' PVC installed.
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	-	-		-					
						-			
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10	VIC	1				-			Boring	No.: B-16
	ME) (Tes	t Bo	ring	g Lo	g		Sheet	1 of 1
Proje	ect Na	me: N	YCED	C Hun	ts Po	int S	ite B		Projec	t No.: 781-005
		CEDC		1500					Date:	Start 3/30/00
Drille	er: Cra	ig Tes	t Borir	ng					F	inish 3/30/00
		thod:				Auto-			Total I	Depth: 20'
		cation							Depth	To Water: NA
		s: NA					-045 BAR S		Surf. E	Elevation: NA
Logg	ed By	r: Ed T	ownse	end		4 102			Hole D	Diameter: 2" Split
		Instr			A					
		Blows Or	Sample	ır				Classification Of Material		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50 m - medium some - 20- c - coarse little - 10-20 trace - 0-10	35%)%	Remarks
0-2	4	17	15	17	10"		S-1	Sandy silt and coal ash.		
										,
2-4	25	48	16	27	18"		S-2	Roots, brick fragments,coal ash a dark brown silty sand.	and	
4-6	6	13	27	28	7"		S-3	Grey silty sand, trace shells and t	orick.	Petroleum odor.
6-8	11	10	14	17	15"		S-4	Dark grey silty sand.		Strong petroleum odor.
10-12	9	13	11	15	15"		S-5	S.A.A., little gravel.		Strong petroleum odor.
15-17	7	14	16	13	10"		S-6	Grey silty fine to medium sand.		Petroleum odor.
18-20	18	26	34	33	6"		S-7	S.A.A.		Slight odor.
-										E.O.B. 20' PVC installed.
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	V							Boring	No.: B-17
	$\Delta \Sigma$		Tes	t Bo	ring	y Lo	g	Sheet	1 of 1
		me: N						Projec	t No.: 781-005
		CEDC							Start 3/29/00
	GG198 - 3195 Zt	ig Tes	t Borir	10				F	inish 3/29/00
0.0		ethod:						Total D	Depth: 20'
		cation:							To Water: NA
		es: NA					2		levation: NA
		/: Ed T		end				Hole D	iameter: 2" Split
		Instru			A	-		· · · · · · · · · · · · · · · · · · ·	
		Blows On	_					Classification Of Material	
Depth (ft)	6"	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
		400/5			9"	<u> </u>		Coal ash and rock fragment.	
0-1.9	6	100/5			9"		S-1	Coal ash and rock fragment.	
		├				-			
2-4	8	25	23	12_	8"		S-2	1" mica, brown silty sand and coal ash, 2" gravel.	
4-6	10	11	13	11	8"		S-3	Brown silty sand, some gravel.	Petroleum odor.
6-8							S-4	Over drill.	
10-12	17	20	16	14	8"		S-5	Brown silty sand, some gravel.	Petroleum odor.
15-17	2	4	3	4	6"		S-6	Grey silty sand, trace gravel.	Petroleum odor.
18-20	11_	11	17	37	4"		S-7	S.A.A.	Petroleum odor. E.O.B. 20' PVC installed.
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	Vic							to the second se	No.: B-18
	L'IC		Tes	t Bo	ring	y Lo	g	Sheet	1 of 1
Proje	ct Na	me: N	YCED	C Hun	its Po	int Si	ite B		No.: 781-005
		CEDC							tart 3/23/00
	ANTHOR MARKET		st Borin	ıg					nish 3/23/00
Drilli	ng Me	thod:	H.S.A						epth: 20'
Borir	ig Loc	ation	: NA	_				Depth T	o Water: NA
Coor	dinate	es: NA	\						evation: NA
Logg	ed By	: Ed 1	Townse	nd				Hole Dia	ameter: 2" Spli
Moni	toring	Instr	ument	(s): N	Α				9 M M
	E	Blows O	n Sample	r				Classification Of Material	
Depth (ft)	0"-6"	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	8	12	17	38	15"		S-1	Medium brown sand, little silt and	
	30							gravel, some coal ash (fill).	
2-4	35	50	100/0		2"		S-2	Granite fragments.	
4-6	10	10	10	10	11"		S-3	Medium brown fine to medium sand, little silt, trace mica.	Petroleum odor
6-8	10	17	17	22	11"		S-4	S.A.A., some rock fragments.	
10-12	14	18	19	12	9"		S-5	S.A.A.	Petroleum odor
15-17	15	17	23	28		-	S-6	Rock fragments.	Petroleum odor
18-20	12	12	12	14	8"		S-7	gravel.	Petroleum odor E.O.B. 17' PVC nstalled.
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	Vic	Sec	·			_		Boriz	ng No.: B-19
لگل	2	J	Tes	t Bo	ring	g Lo	g	Shee	t 1 of 1
Proie	ct Na	me: N	YCED	C Hun	ts Po	int S	ite B	Proje	ct No.: 781-005
		CEDC						Date	: Start 3/29/00
Drille	r: Cra	ig Tes	st Borin	ıg					Finish 3/29/00
			H.S.A.					Total	Depth: 20'
		cation						Dept	h To Water: NA
		s: NA				_			Elevation: NA
			Townse	nd				Hole	Diameter: 2" Split
			ument		A				
			n Sample					Classification Of Material	•
₽			=,		2	뚩호	ايرها	f - fine and - 35-50%	
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	10	8	7	8	7"		S-1	Brick and silty fine sand.	
2-4	18	33	25	36	12"		S-2	Silty fine sand and schist.	
		_						D () ()	
4-6	15	24	15	16	2"		S-3	Brick fragments.	
	40	24	100/4		011	<u> </u>		Light brown silty sand.	
6-7.3	18	24	100/4		6"		S-4	Light brown sitty sand.	
					.	ļ. —			
10-12	5	4	2	3	6"		S-5	Light brown silty sand, some gravel.	
10-12		**-	-		-		3-3		
-					-				
15-17	16	30	26	29	0"		S-6	No recovery.	
18-20	11	19	18	22	11"		S-7	Light brown silty sand, some gravel.	
									E.O.B. 20' PVC
									installed.
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	VICE IN							Во	ring No.: B-20			
	LI B		Tes	t Bo	ring	y Lo	g	Sh	eet 1 of 1			
Proje	ct Na	me: N	YCED	C Hur	its Po	int S	ite B	Pro	ject No.: 781-005			
		CEDC				,,		Da	te: Start 3/27/00			
Drille	er: Cra	ig Tes	t Borin	ng					Finish 3/27/00			
		thod:						Tot	Total Depth: 20'			
Borir	ng Lo	cation	: NA				,	De	pth To Water: NA			
Coor	dinate	es: NA						Su	rf. Elevation: NA			
Logg	ed By	/: Ed T	ownse	end				Но	le Diameter: 2" Spli			
Moni	toring	Instr	ument	t(s): N	A							
	!	Blows Or	Sample	er				Classification Of Material	4,000			
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks			
0-2	2	5_	10	8	21"	_	S-1	Light brown silty sand, 2" coal ash.				
2-4	7	4	8	8	13"		S-2	6" coal ash, 7" fine silty sand.				
4-6	31	12	12	15	13"		S-3	Light brown silty sand, some gravel.				
6 <u>-8</u>	20	28	21	17	6"		S-4	Light brown silty sand and gravel, litt coal ash and trace brick.	le			
10-12	20	17	11	12	11"		S-5	Light brown silty sand, little gravel.				
15-17	15_	18	16	26	13"		S-6	Light brown silty sand, some gravel.				
18-20	16	32	31	13	7"		S-7	S.A.A.	E.O.B. 20' PVC installed.			
			-									
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£ 34.	V	- X.						Boring No.: B-21
	U.D.		Tes	t Bo	ring	j Lo	g	Sheet 1 of 1
Proje	ct Na	me: N	YCED	C Hun	ts Po	nt Si	te B	Project No.: 781-005
		CEDC	. 5-5					Date: Start 3/29/00
		ig Tes	t Borin	10	3			Finish 3/29/00
		thod:			_			Total Depth: 20'
		cation		·		-2	-	Depth To Water: NA
		s: NA				-		Surf. Elevation: NA
				n d		-		Hole Diameter: 2" Split
		r: Ed T			Λ			Tible Diameter: 2 Opin
IMONI				-				Classification Of Material
		Blows Or	Sample	<u> </u>	_	=	_	f - fine and - 35-50%
Depth (fl)	90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20%
o	0	φ	2	18	Re.	Inst Re	N 55	trace - 0-10%
0-2	1	2	3	2	11"		S-1	Dark brown sandy silt, little gravel, coal
								ash.
					1			Dork brown agady silt little brick and
2-4	3	10	26	14	11"		S-2	Dark brown sandy silt, little brick and coal ash.
-				2	 		\vdash	Codi dsii.
4.0		7	44	40	7"		S-3	Black organics, some sand and shells.
4-6	6	7	11	10	1	-	3-3	black organics, some said and sitelie.
	-	*					\vdash	Silty sand and shells.
6.0	7	4	4	4	10"		S-4	Only balla and online.
6-8	!	4	4		10		3-4	
				-	-			Light brown sandy silt, some clay.
10-12	3	3	5	12	14"		S-5	
10-12	Ų	-		. 12	17		0.0	
Н					 			S.A.Ā.
15-17	18	19	23	28	3"		S-6	
10					Ť			
			-			-		Schist rock fragment.
18-20	14	8	15	18	2"		S-7	
								E.O.B. 20' PVC
								installed.
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	V	1 4 A	Too	• Da	د مدایس		\		No.: B-22
		1 2						Sheet	
		me: N	YCED	C Hur	ts Po	int S	ite B_		t No.: 781-005
		CEDC				_			Start 4/5/00
		ig Tes							inish 4/5/00
		thod:							Depth: 20'
		cation				_		· · · · · · · · · · · · · · · · · · ·	To Water: NA
		s: NA							levation: NA
		: Ed T	Val. 10 100 1					Hole D	iameter: 2" Split
Moni	toring	Instr	ument	(s): N	A			·	
	1	Blows Or	Sample	r				Classification Of Material	
Depth (ft)	.9- 0	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	1	3	3	7	9"		S-1	Light brown sand, some silt.	
2-4	7	9	17	11	8"		S-2	Coal ash and rock fragments.	
4-6	9	9	8	7	17"		S-3	Coal ash, some grey fine sand and silt, little blue wood, brick fragments.	
6-8	4_	4	3	_2	0"		S-4	No recovery.	
10-12	1	2	2	1	1"		S-5	Black organics.	
15-17	6	5	7	13	7"		S-6	Coal ash, some mica, little rock fragments.	
18-20	12	14	18	35	11"		S-7	Light brown medium sand and mica.	E.O.B. 20' PVC installed.
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1 (4)	VIG		_					Boring No.: B-25
			Tes	t Bo	ring	g Lo	g	Sheet 1 of 1
Proje	ct Na	me: N	YCED	C Hun	ts Po	int Si	le B	Project No.: 781-005
		CEDC						Date: Start 4/6/00
Drille	er: Cra	ig Tes	t Borir	ng				Finish 4/6/00
			H.S.A					Total Depth: 20'
		ation						Depth To Water: NA
		s: NA		72				Surf. Elevation: NA
Logg	ed By	r: Ed T	ownse	end				Hole Diameter: 2" Split
Moni	toring	Instr	ument	(s): N	Α			
	į	Blows Or	n Sample	er				Classification Of Material
€		ī.	1 as	*	<u>ح</u>	<u>a</u> e	g ge	f - fine and - 35-50% some - 20-35%
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
0-1	3	100/5			6"		S-1	Coal ash and brown sandy silt.
	,							
2-4	5	1	2	3	8"		S-2	Coal ash.
4-6	3	2	2	2	3"		S-3	S.A.A.
					<u> </u>			
6-8	1	9	25	8	10"		S-4	Coal ash, little tar.
0-0			2.0	J	10			
	W.Q.H.	4	4	3	5"		S-5	Tar.
10-121	W.Q.H.	4	-4	3	1	-	3-3	1
								Tor rock frogment
15-17	4	4	3	2	3"		S-6	Tar, rock fragment.
						-		
18-20	W.	O.	Н.		14"		S-7	Grey silty sand.
10								E.O.B. 20' PVC
								installed.
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4 301	V	3	<u> </u>		_	20		Boring	No.: B-28
	Z		Tes	t Bo	ring	g Lo	g	Sheet	1 of 1
Proie	ct Na	me: N	YCED	C Hur	its Po	int Si	te B	Project	t No.: 781-005
		CEDC					VIIIV-02 198988		Start 3/31/00
		ig Tes	t Borir	na —		_		F	inish 3/31/00
		thod:					-	Total I	Depth: 20'
		cation							To Water: NA
		es: NA			_	-			levation: NA
		: Ed T		end					liameter: 2" Split
		Instr			A		_		
		Blows Or			Ť	Γ		Classification Of Material	**************************************
2				$\overline{}$	ح ا	<u>=</u>		f - fine and - 35-50%	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	2	5	3	3	7"		S-1	Dark brown sandy silt, some brick and	
			3000	30000				root fragments.	
2-4	4	12	23	23	10"		S-2	S.A.A., coal ash.	
4-6	15	25	30	22	8"	<u></u>	S-3	Light brown silty fine sand, little gravel.	
\sqcup					<u> </u>				
					100	_	0.4	S.A.A., trace brick fragments.	
6-8	16	20	19	21	19"	<u> </u>	S-4	S.A.A., trace blick tragments.	
				<u> </u>					
40.40	20	38	38	38	13"		S-5	S.A.A.	
10-12	28	30	30	30	13		3-5		
							\vdash		
15-17	8	9	12	16	12"		S-6	S.A.A.	
13-11					-				
		-					H		
18-20	12	22	17	19	5"		S-7	S.A.A.	
									E.O.B. 20' PVC
									installed.
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3 113	Vic	100			•			Boring No.: B-2	9
	1		Tes	t Bo	ring	g Lo	g	Sheet 1 of	1
			YCED				1997	Project No.: 781	-005
		CEDC						Date: Start 3/31/0	
Drille	r: Cra	ig Tes	st Borin	ıg	0			Finish 3/31	/00
		_	H.S.A					Total Depth: 20)1
		ation				- 17-01		Depth To Water:	NA
		s: NA					_	Surf. Elevation:	NA
1000	_		ownse	nd	-			Hole Diameter: 2	2" Split
			ument		A				
			n Sample					Classification Of Material	
Depth (ft)	06"	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	arks
0-2	2	5	15	20	16"		S-1	Brown/black medium to fine sand,	-
								some gravel, trace coal ash.	
					201 - 2 5 01 - 6				
2-4	26	20	28	20	18"		S-2	Brown medium to fine sand, trace mica and coal ash.	
4-6	12	17_	30	30	13"		S-3	Light brown medium to fine sand and silt, little gravel.	
6-7.4	13	16	100/5		16"		S-4	Fill and sand, little gravel.	
10-12	7	12	10	14_	16"		S-5	Grey silty sand, some gravel. Strong pe odor.	troleum
15-17	20	13	28	38	10"		S-6	S.A.A., some sandstone fragments. Petroleum	n odor.
	50 30000000								
18-20	20	23	22	68	15"		S-7	Grey sandy silt, some gravel. Slight odd	or.
_									
								E.O.B. 20	' PVC
								installed.	
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Ter	Vic	7	_			. 1		Boring No.: B-30
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Proje	ct Na	me: N	YCED	C Hun	ts Po	int Sit	e B	Project No.: 781-005
		CEDC						Date: Start 4/5/00
Drille	r: Cra	ig Tes	t Borir	ng				Finish 4/5/00
		thod:			STEE			Total Depth: 20'
		ation						Depth To Water: NA
		s: NA	_	76			-	Surf. Elevation: NA
		: Ed T		end				Hole Diameter: 2" Split
		Instr			Δ			
		Blows Or						Classification Of Material
<u> </u>	-	310473 01		ľ	>	<u>ء</u> ۾		f - fine and - 35-50%
Depth (ft)	.9,0	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% Remarks c - coarse little - 10-20% trace - 0-10%
0-2	4	6	11	11	18"		S-1	Grey fine to medium sandy silt, some
								coal ash, trace mica.
2-4	6	9	27	26	11"		S-2	Coal ash and grey fine to medium
								sandy silt, trace mica.
4-6	15	22	42	32	8"		S-3	Silty fine sand, some gravel.
				2500-00				Converting and name group! Williams I St. Links
6-8	14	16	18	17	14"		S-4	Grey silty sand, some gravel, little root Slight odor.
	-							fragments.
	2.101		02/02/04					Dark grou silty cand, some group!
10-12	16	29	40	25	7"_		S-5	Dark grey silty sand, some gravel, Strong odor.
								granite fragments.
					0.11		0.0	Grey fine to medium sandy silt, some Strong odor.
15-17	17	29	40	25	8"		S-6	gravel.
								graver.
					4.49			S.A.A. Strong odor.
18-20	10	28	35	34_	11"		S-7	S.A.A.
		<u> </u>			<u> </u>			
				<u> </u>	ļ		\vdash	
	-		0			-	\vdash	E.O.B. 20' PVC
	-						\vdash	installed.
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A CONTRACTOR	VIS		Tes	t Bo	rinc	ı Lo	na .	Bor She	ing No.: B-31
D				0	70	1000	200790		ect No.: 781-005
			YCED	Hun	IS PO	int Sii	e b		e: Start 3/30/00
	t: NY				3		-	Date	Finish 3/30/00
			t Borin					Total	i Depth: 20'
			H.S.A	·					th To Water: NA
		ation							f. Elevation: NA
			ownse						Diameter: 2" Split
			ument		Δ		<u> </u>		Diameter, 2 Opin
INIOIII			Sample					Classification Of Material	
_		JIOWS OI				₹ ~		f - fine and - 35-50%	
Depth (ft)	9-,0	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading		m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-1.6	14	52	25/1		2"		S-1	Dark brown silty sand, rock fragment.	
2-4	14	18	12	9	9"		S-2	Light brown silty sand, coal ash, little gravel.	
4-6	7	5	6	5	0"		S-3	No recovery.	
6-8	5	4	8	9	9"		S-4	Light brown silty sand, trace coal ash	
10-12	7	18	26	18	13"		S-5	2" light brown silty sand,11" grey silty sand.	Strong petroleum odor.
15-17	10	32	35	32	6"		S-6	2" grey silty sand, 4" light brown silty sand, little gravel.	Slight petroleum odor.
18-20	11	26	34	30	15"		S-7	Light grey silty sand, some gravel.	Slight petroleum odor. E.O.B. 14.5' PVC installed.

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4 4 4 4	ΜS		Tes	t Bo	rine	ı I.c	oa -	<u> </u>	No.: B-32
	4							Sheet	
			YCED	C Hun	ts Po	ınt Si	te B		No.: 781-005
		CEDC						37.33	tart 4/6/00
		ig Tes							nish 4/6/00
		thod:		·					epth: 20'
		cation							o Water: NA evation: NA
		s: NA							
		: Ed T			Α			Hole Di	ameter: 2" Split
Moni			_	t(s): N	4	_	_	0.000	
l _		Blows Or	Sample		_	<u> </u>	_	Classification Of Material f - fine and - 35-50%	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	7	12	20	22	13"	_	S-1	Light brown sand, some brick and rock fragments, little coal ash.	
2-3.5	12	9	9	100/1	8"		S-2	Light brown sand, little coal ash, trace brick.	
5-7	12	20	11	12	11"		S-3	Light brown sand, trace brick.	
7-9	12	12_	20	18	8"		S-4	S.A.A.	
10-12	10_	9	12	14	9"		S-5	S.A.A.	
15-17	7	9	14	6	11"		S-6	S.A.A.	
18-20	10	13	17	25	14"		S-7		E.O.B. 14.5' PVC installed.

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	VY							Boring No.: B-35
			Tes	t Bo	ring	j Lo	g	Sheet 1 of 1
roje	ct Na	me: N	YCED	C Hun	ts Po	int Sit	e B	Project No.: 781-005
	Annual La Maria	CEDC						Date: Start 4/6/00
Orille	r: Cra	ig Tes	t Borir	ıg				Finish 4/6/00
Orilli.	ng Me	thod:	H.S.A					Total Depth: 20'
		ation					200	Depth To Water: NA
P 000 000		s: NA		-		-9		Surf. Elevation: NA
			ownse					Hole Diameter: 2" Split
Vloni			ument		A			0.000
		Blows Or	Sample	:T				Classification Of Material f - fine and - 35-50%
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
0-2	3	3_	4	11	15"	_	S-1	Grey sandy silt and coal ash.
2-4	13	19	21	16	16"		S-2	Light brown silty sand, some coal ash.
-T								
4-6	4	29	38	51	9"		S-3	Light brown silty sand, little coal ash.
6-8	66	30	36	22	8"		S-4	S.A.A., rock fragments.
10-12	16	43	24	23	7"		S-5	Light brown sandy silt, some coal ash.
15-17	18	22	24	27	7"		S-6	Light brown sandy silt, some gravel.
18-20	16	19	23	26	11"		S-7	S.A.A. E.O.B. 14.5' PVC
								installed.
		_						
				<u> </u>			\vdash	
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N.	VE		Tes	+ P^	rine				oring No.: B-36
		0.00							heet 1 of 1
	ct Na		YCED	C Hur	its Po	int Sit	te B		roject No.: 781-005
	t: NYO							D	ate: Start 4/6/00
	er: Cra								Finish 4/6/00
	ng Me								otal Depth: 20'
	ng Loc								epth To Water: NA
Coor	dinate	s: NA	<u> </u>						urf. Elevation: NA
Logg	ed By	: Ed T	ownse	end				<u></u>	ole Diameter: 2" Spli
Moni	toring	instr	ument	(s): N	Α				
		llows Or	Sample	r				Classification Of Material	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35 c - coarse little - 10-20% trace - 0-10%	% Remarks
0-2	2	6	12	9	12"		S-1	Concrete fragments andbrown san-	dy
		NSS		1				silt.	
20.00									ľ
2-2.5	100/6				4"		S-2	Brown sandy silt.	
					.				*1
4-6	2	3	5	7	14"		S-3	S.A.A.	
					<u></u>				
					100			S.A.A.	
6-8	9	12	17	20	12"		S-4	S.A.A.	
					├				
	40	40	40	4.4	3"		C.E.	Brown silty sand, some gravel.	
10-12	12	16	19	14	3		S-5	Brown, Siny Sand, Some graves.	
- ALS-17	3			No.			-		
15-17	18	22	30	31	0"		S-6	No recovery.	
10-17	-10		- 30	ا ، ا	 	 		,	
18-20	11	8	13	20	10"		S-7	Rock fragment.	
10 20						-			E.O.B. 20' PVC
									installed.
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TT	VIG	100	_	. =				Boring No.: B-37
			Tes	t Bo	ring	j Lo	g	Sheet 1 of 1
roje	ct Na	me: N	YCED	C Hun	ts Po	int Sit	еВ	Project No.: 781-005
		CEDC						Date: Start 4/7/00
Drille	r: Cra	ig Tes	t Borir	ng				Finish 4/7/00
Drilli	ng Me	thod:	H.S.A					Total Depth: 20'
Borir	ng Loc	ation	NA.					Depth To Water: NA
Coor	dinate	s: NA				,		Surf. Elevation: NA
Logg	ed By	: Ed T	ownse	end				Hole Diameter: 2" Split
Moni	toring	Instru	ument	(s): N	A .			
		Blows Or	Sample	r				Classification Of Material
Depth (ft)	e	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
0-2	3	11	12	7	12"		S-1	Light brown sandy silt, some coal ash and brick fragments.
2-4	6	5	6	4	15"		S-2	S.A.A.
4-6	2	3	1	2	7"		S-3	Coal ash, some brick.
6-8	3	3_	3	3	20"		S-4	Brown silty sand, little coal ash, trace shells.
10-12	5	8	6	6	15"		S-5	Light brown silty sand, some gravel.
15-17	5	12	18	21	4"		S-6	Light brown silt and gravel.
18-20	23	14	12	16	3"		S-7	Light brown silty sand and rock fragments. E.O.B. 17' PVC installed.

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78.63	385	(S)D=11-						<u> </u>
	ME	10	Tes	4 B.	rine		.~	Boring No.: B-38
		- 150 1.4.			337		-	Sheet 1 of 1
		_	YCED	C Hun	ts Po	int Sil	te B	Project No.: 781-005
	t: NY	Date: Start 4/7/00						
	r: Cra	Finish 4/7/00						
	ng Me	Total Depth: 20'						
	ıg Loc	Depth To Water: NA						
	dinate	Surf. Elevation: NA						
	ed By	Hole Diameter: 2" Split						
Monit		_	ument		<u> </u>	1		
		Blows Or	n Sample			=		Classification Of Material f - fine and - 35-50%
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% Remarks c - coarse trace - 0-10%
0-2	3	7	5	6	10"		S-1	Coal ash,roots and silty sand.
					_			
2-4	6	8	6	3	12"		S-2	Coal ash, concrete fragment.
							15—15—	
4-6	3	3	5	5	11"		S-3	Coal ash and brown sandy silt.
4-0		ა .	3	5	11		3-3	Soul don and brown samey one.
			1	-				
7.75-8	5	5	5	6	13"		S-4	Grey silty brown sand, little
1								decomposed concrete.
10-12	5	7	7	13	13"		S-5	Light brown silty sand.
			[]					
	_							December of select and either and
15-16.1	10	18	100/1		6"		S-6	Decomposed schist and silty sand.
\vdash							\vdash	
	22	24	22	21	10"		S-7	Brown sandy silt, trace mica.
18-20	23	21_	23	21	10		3-1	E.O.B. 16' PVC
$\vdash \dashv$						-		installed.
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<u> </u>								Boring No.: B-39
			Tes	t Bo	ring	j Lo	g	Sheet 1 of 1
Proie		C (C)	YCED					Project No.: 781-005
	t: NY							Date: Start 4/7/00
	San Market S. 18		t Borin	ng			*	Finish 4/7/00
			H.S.A.				- 2	Total Depth: 20'
	ng Loc			<u> </u>			_	Depth To Water: NA
	dinate					<u> </u>		Surf. Elevation: NA
			ownse	nd -	-			Hole Diameter: 2" Split
			ument		Λ			protective op.
IAIO11			_					Classification Of Material
	t	slows Or	Sample			* _		f - fine and - 35-50%
Depth (ft)	.9-,0	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% Remarks c - coarse trace - 0-10%
0-2	2	7	12	9	12"		S-1	Coal ash, little brown sand.
-				:				
2-4	8	6	12	9	9"		S-2	Coal ash, some wood.
	·						3	
	in 10							
4-6	3	3	2	2	9"		S-3	Coal ash.
				_				
							_	_ , , ,,,
6-8	1	2	2	3	6"		S-4	Brown sandy silt, some coal ash, rock
								fragments.
10-12	W.	O.	H.		1"		S-5	Grey silty sand.
								Conversable sitt little wood
15-17	WOR	1_	1_	1	14"		S-6	Grey sandy silt, little wood.
ļ								
								Brown sand.
18-20	22	18	10	12	9"		S-7	E.O.B. 20' PVC
	- 200							installed.
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1	V.				_		270	Boring No.: B-41
			Tes	t Bo	ring	j Lo	g	Sheet 1 of 1
Proje	ct Na	me: N	YCED	C Hun	ts Po	int Sit	e B	Project No.: 781-005
		CEDC						Date: Start 3/24/00
			t Borir					Finish 3/24/00
			H.S.A				-	Total Depth: 20'
		ation		<u> </u>			_	Depth To Water: NA
		s: NA						Surf. Elevation: NA
312			ownse	nd				Hole Diameter: 2" Split
			ument		Λ			11010 011111101111
IMOUI								Classification Of Material
_		siows Or	Sample		_	ㅌ_	_	f - fine and - 35-50%
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% Remarks c - coarse trace - 0-10%
0-2	3	6	3	9	8"		S-1	Dark brown medium to fine sand, some
								silt and brick, little coal ash (fill).
	n- 856							Dark and the modium to fine and
2-4	9	9_	9	9	11"		S-2	Dark grey/brown medium to fine sand,
$\sqcup \sqcup$			_				igdash	some silt, little gravel and coal ash, trace mica (fill).
								Medium brown fine to medium sand,
4-6	12	18	29	28	18"		S-3	little silt, trace mica and gravel/rock
								fragments.
				~~	450		- 1	Top 2" brick fragments (fill), medium
6-8	14	26	30	27	16"		S-4	brown fine sand, some silt, trace mica.
								Drown line sand, some sitt, trace miset.
2000 00 000		-10	45	40	408		C.E.	Medium brown medium sand, little silt,
10-12	6	12_	15_	18	13"	 	S-5	trace mica and gravel/rock fragments.
		_	_					Hade filled and gravelinous flagmonts.
	40	40	07	00	18"		S-6	Medium brown fine sand and silt, trace
15-17	18	19_	27	23	10	-	3-0	mica and gravel/rock fragments.
					-	-	-	,
	40	00	24	24	13"	-	S-7	S.A.A., little gravel.
18-20	18	23	24	24	13		3-1	E.O.B. 20' PVC
					-			installed.
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T	VIG							Boring No	o.: B-42
		展	Tes	t Bo	ring	j Lo	g	Sheet 1	of 1
Proje	ct Na	me: N	YCED	C Hun	ts Po	int Sit	еВ	Project No	o.: 781-005
	A CARLON CASSAGE AND	CEDC	2000				·	Date: Star	t 3/24/00
Drille	r: Cra	ig Tes	t Borin	ıg				Finis	sh 3/24/00
			H.S.A.					Total Dep	th: 20'
		ation						Depth To	Water: NA
		s: NA		27.2%				Surf. Elev	ation: NA
Logg	ed By	r: Ed T	ownse	end				Hole Dian	neter: 2" Split
			ument		A			3.00	
		Blows Or	Sample	٢				Classification Of Material	
€	_		- m	ı.t	줐	ng eut	eq	f - fine and - 35-50% m - medium some - 20-35%	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20%	Remarks
å		မ်	4	₽	8	TS S	S S	trace - 0-10%	
0-2	2	2	5	9	13"		S-1	Dark brown fine to medium sand and	
								silt, some OM (wood), trace mica, little	
							10000	coal ash.	
2-4	12	23	32	21	15"		S-2	Medium brown fine to medium sand,	
	-	is si l l a				_		little silt, some coarse granite	
				00	00			fragments, trace mica. No recovery.	
4-6	20	19	22	29	0"	_	S-3	Mo recovery.	
					1				
6-8	15	27	31	34	10"		S-4	Medium to fine sand, little silt and	
0-0	13	21	31		10		37	gravel, little root fragments.	
		_	-					3 ,	
10-11.3	12	38	100/4		10"		S-5	Medium grey/brown fine sand and silt,	
10-11.5			100/1					some rock fragments and gravel, little	
							-	mica fragments.	
15-17	14	43	54	92	14"		S-6	Medium brown fine sand and silt, some	
j								gravel, little mica.	
18-20	29	42	37	33	14"		S-7	S.A.A.	
									O.B. 20' PVC
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100		Que Se			-			Boring No.: B-43					
	V F	1	Tes	t Bo	rine	ı Lo	a	Sheet 1 of 1					
D.	1111		I					Project No.: 781-005					
		me: N	YCED	C Hun	IŞ PO	int Si	e b	Date: Start 3/27/00					
								Finish 3/27/00					
	Difficit Graig 100t Doming												
	Drilling Method: H.S.A. Total												
	Boring Location: NA Depth												
	Coordinates: NA Surf. I												
	Logged By: Ed Townsend Hole i Monitoring Instrument(s): NA												
Moni			_		<u> </u>		— т	A					
1 }	l	Blows Or	n Sample	r				Classification Of Material f - fine and - 35-50%					
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%					
0-2	4	7	16	20	14"		S-1	Dark brown fine to medium sand and					
								silt.					
2-3.5	10	13	100/5		14'		S-2	S.A.A., little mica.					
\Box													
								Ded brown eller play little pand					
4-6	14	20	32	32	14"		S-3	Dark brown silty clay, little sand.					
					_								
					4.00	_	2.1	Brown sandy silt, little brick.					
6-8	24	26	38	24	16"	_	S-4	brown saridy siit, little brick.					
 						-							
202 0 20	-00			40	4411		0.5	S.A.A.					
10-12	39	29	30	13	11"	-	S-5	U.A.A.					
								j j					
	31	36	36	100/4	6"		S-6	S.A.A.					
15-16.8	31	30	30	100/4	0		3-0						
-													
18-18.75	70	100/3	1-		1"		S-7	Gravel and sandstone fragments.					
18-18.75	70	100/0						E.Q.B. 20' PVC					
								installed.					
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	Me	70.75 97.75	T	4 D.				Boring No.: B-44
	U.C		Tes	t Bo	ring	J LC)g	Sheet 1 of 1
Proje	ct Na	me: N	YCED	C Hun	ts Po	int Sit	e B	Project No.: 781-005
Clien	t: NY	CEDC						Date: Start 3/22/00
Drille	r: Cra	ig Tes	t Borir	ng				Finish 3/22/00
Drilli	ng Me	thod:	H.S.A	-1				Total Depth: 20'
Borir	ng Loc	ation	: NA					Depth To Water: NA
		s: NA		-			,	Surf. Elevation: NA
			ownse	end				Hole Diameter: 2" Split
			ument		A			
			Sample					Classification Of Material
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
0-2	2	10	20	36	13"		S-1	Top 6" Medium brown fine to medium
								sand and silt, 7" brick, mica and coarse
					postale			sand, trace coal ash.
2-2.5	100				0"		S-2	No recovery
					<u> </u>			
			0.5		0"			Medium brown fine to medium sand
4-6	_20	14_	65	17	9"		S-3	and silt, some rock and gravel, trace
					-			mica and brick (fill).
6-8	18	18	20	19	10"		\$-4	Fine to medium sand, little silt and
0-8	18	18	20	19	10		3-4	gravel, trace mica.
\vdash					122		\vdash	Side of the same
10-12	7	7	9	9	10"		S-5	S.A.A.
10-12	-		-	<u> </u>	,,,		-	
				_	<u> </u>			;
15-17	16	24	31	29	11"		Ş-6	S.A.A., last 2" silt and fine sand.
18-20	28	36	43	47	14"		S-7	Medium brown fine sand and silt.
			0.00					E.O.B. 20' PVC
								installed.
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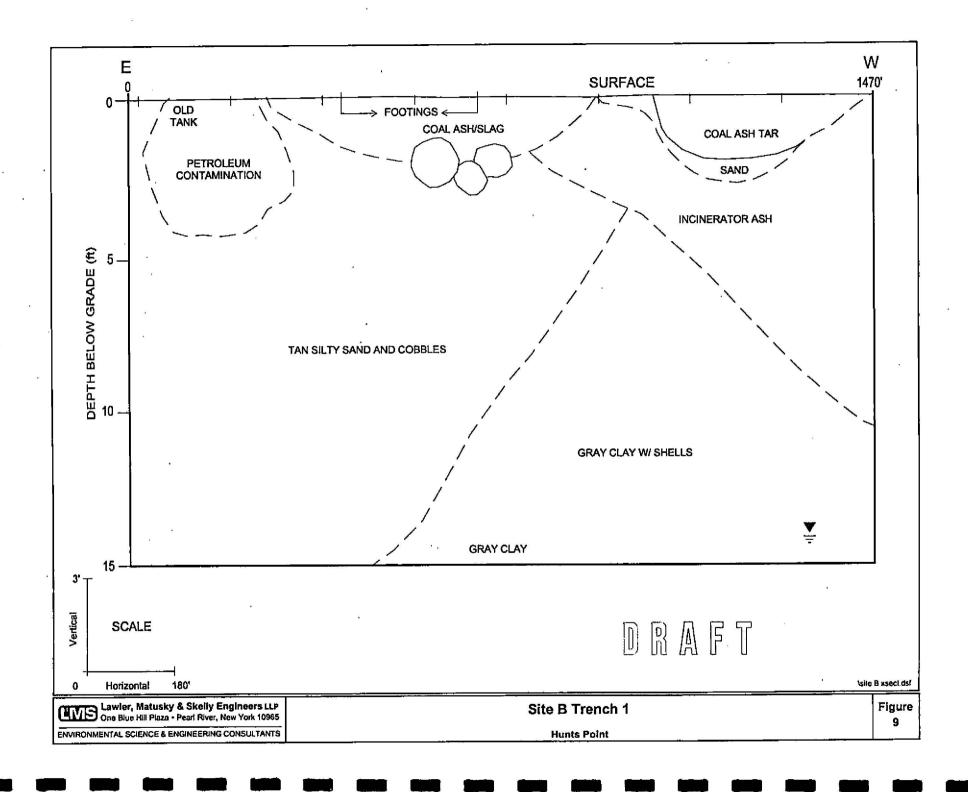
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	LE		Tes	t Bo	ring	g Lo	g	Sheet 1	of 1
Proje	ct Na	- Carlotte		C Hun				Project No	.: 781-005
		CEDC						Date: Start	
40-000-000		ig Tes	t Borir	าด		-		Finis	h 3/23/00
		thod:				_		Total Dept	h: 20'
		ation		•				Depth To V	
		s: NA						Surf. Eleva	
		Ed T		and			20		eter: 2" Split
				(s): N	Δ				
		Blows Or						Classification Of Material	
l _≂ l					>	E	ا ج	f - fine and - 35-50%	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0-2	5	6	16	58	18"		S-1	Medium brown fine to medium sand,	**
								little silt, trace coal ash/brick.	
2-4	43	20	14	23	7"		S-2	Grey/brown gravely sand, little silt (fill), trace OM.	
4-6	9	10	13	19	11"		S-3	Medium brown fine to medium sand, little silt, trace coal ash and mica (fill).	
6-7.8	22	28	30	100/1	12"		S-4	S.A.A.	
10-12	8	12	15	10	10"		S-5		p boring for day.
15-17	10	15	22	30	12"		S-6	S.A.A.	
18-20	21	41	50	54	15"		S-7		o.B. 20' PVC alled.

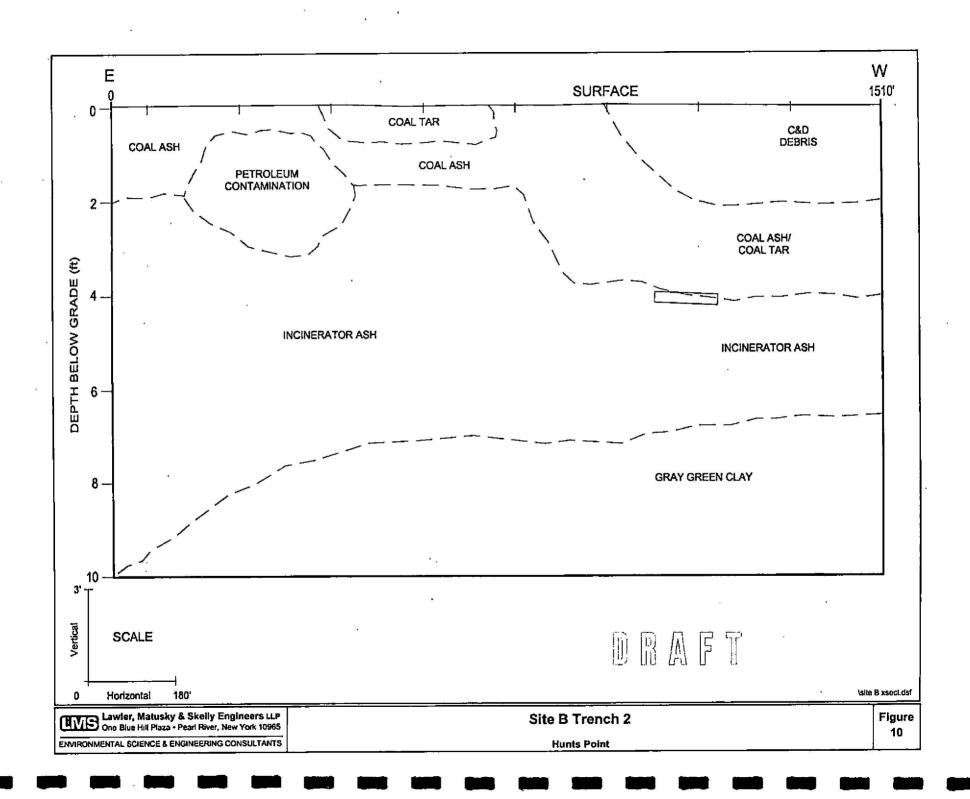
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Proje	ct Na	me: N	YCED	C Hun	ts Po	int Sit	te B	Project No.: 781-005
		CEDC						Date: Start 4/10/00
Drille	r: Cra	ig Tes	t Borin	ıg			ē	Finish 4/10/00
Drilli	ng Me	thod:	H.S.A.					Total Depth: 20'
Borin	ıg Loc	ation	: NA					Depth To Water: NA
Coor	dinate	s: NA						Surf. Elevation: NA
Logg	ed By	: Ed T	ownse	end				Hole Diameter: 2" Split
Moni	toring	Instru	ument	(s): N	Α	%		
		Blows On	Sample	r		100000		Classification Of Material
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
0-2	3	9	17	18	17"		S-1	Brown sandy silt and coal ash, little
				_				decomposed concrete.
	46	44	45	13	18"		S-2	Light brown sandy silt, trace coal ash,
2-4	16	11	13	13	10		3-2	1" band of blue/green soil.
					 			. 233 3. 5.65.9.35
4-6	11	9	7	7	16"		S-3	Light brown sand, some silt.
-			•					
6-8	7	6	9	9	14"		S-4	S.A.A.
								Brown and and gravel
10-12	8	15	15	14	10"		S-5	Brown sand and gravel.
15-17	16	16	18	16	12"		S-6	Brown silty sand, little rock fragments.
13-17	-10	_;•	. 10	- 10	12		-	
		-						
18-20	9	9	16	18	16"		S-7	Brown silty sand.
								E.O.B. 20' PVC
								installed.
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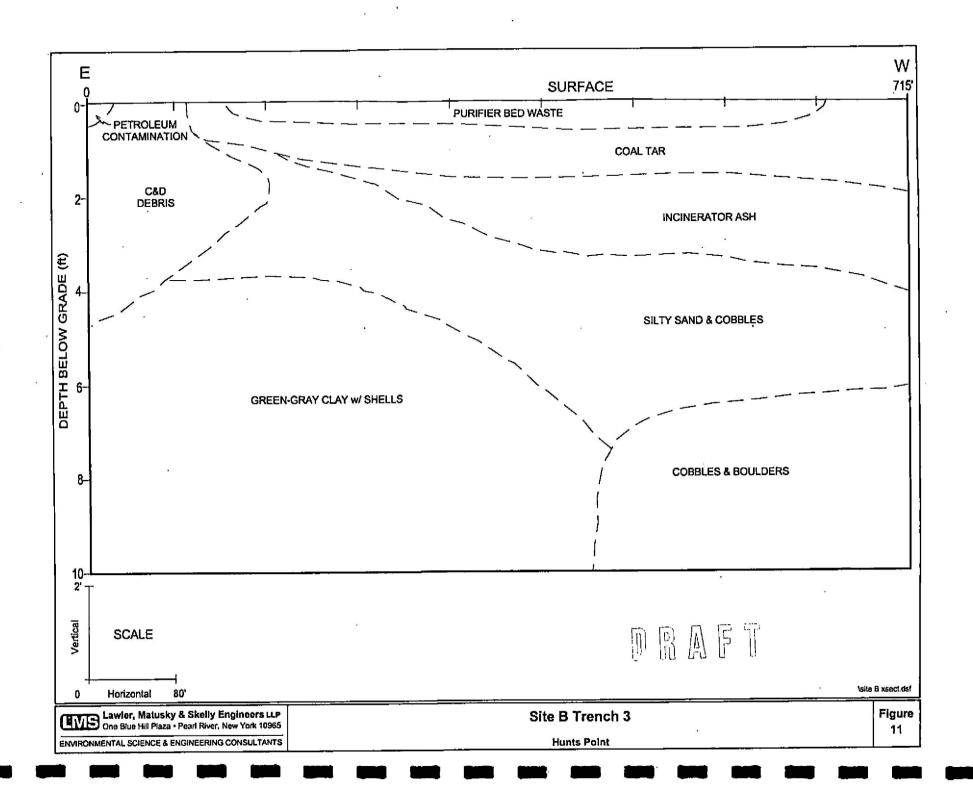
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	MS	Sec. 1	Tes	t Bo	ring	ı Lo	g		of 1				
			YCED					Project No.:	<u> </u>				
		CEDC		<u> </u>	IS FU	int Si	.e D	Date: Start 4/					
									4/12/00				
	Driffer, Orang Test Berling												
	5.111.1g												
	Boring Location: NA Depth												
	Coordinates: NA Surf. I												
	Logged By: Ed Townsend Hole D Monitoring Instrument(s): NA												
Moni													
		Blows Or	Sample	r		ا يا		Classification Of Material					
Depth (ft)	90	6"-12"	12"-18"	18"-24"	Recovery (in)	Instrument Reading	Sample Retained	some - 20-35%	Remarks				
0-1.5	5	8	100/1	_	13"		S-1	Light brown sandy silt, some quartz					
1								fragments.					
2-4	4	4	5	16	8"		S-2	Brown sandy silt, little gravel.	i				
		100											
4-6	8	9	8	8	14"		S-3	S.A.A.					
6-8	5	5	9	12	6"		S-4	Brown sand.					
10-12	4	5_	9	10_	13"		S-5	S.A.A.					
							$oxed{oxed}$						
								Brown silty sand.					
15-17	8	13	21	21	14"		S-6	brown siry sand.					
							<u> </u>						
					2 20		2 -	S.A.A.					
18-20	10	14	14	14	14"		S-7	100	3. 20' PVC				
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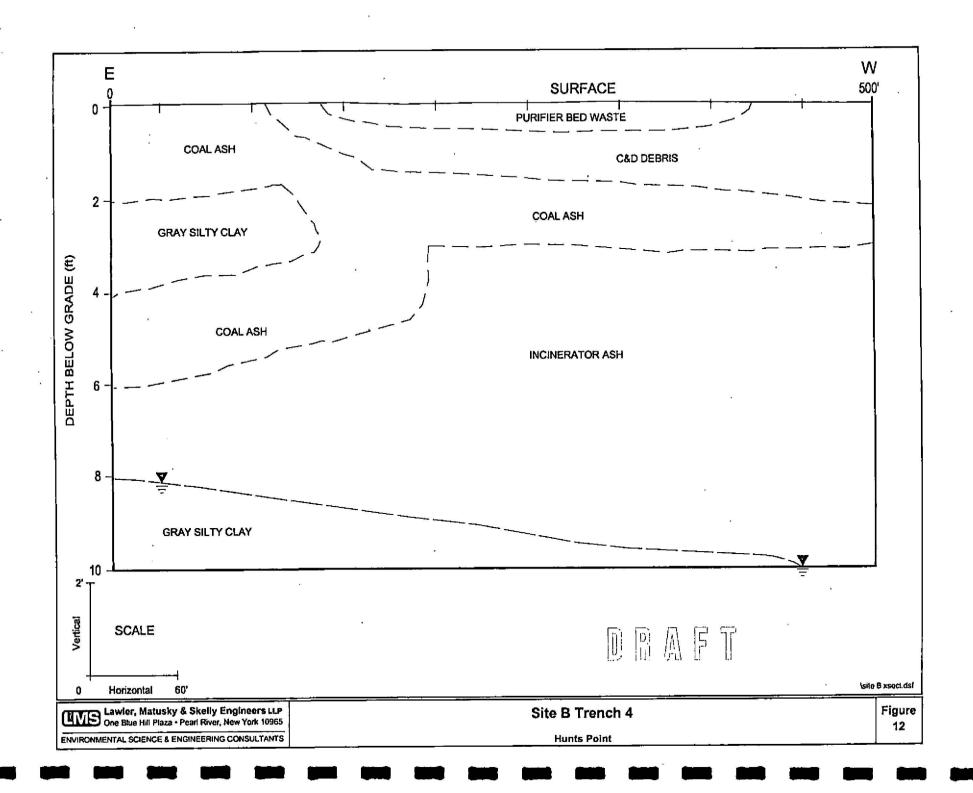


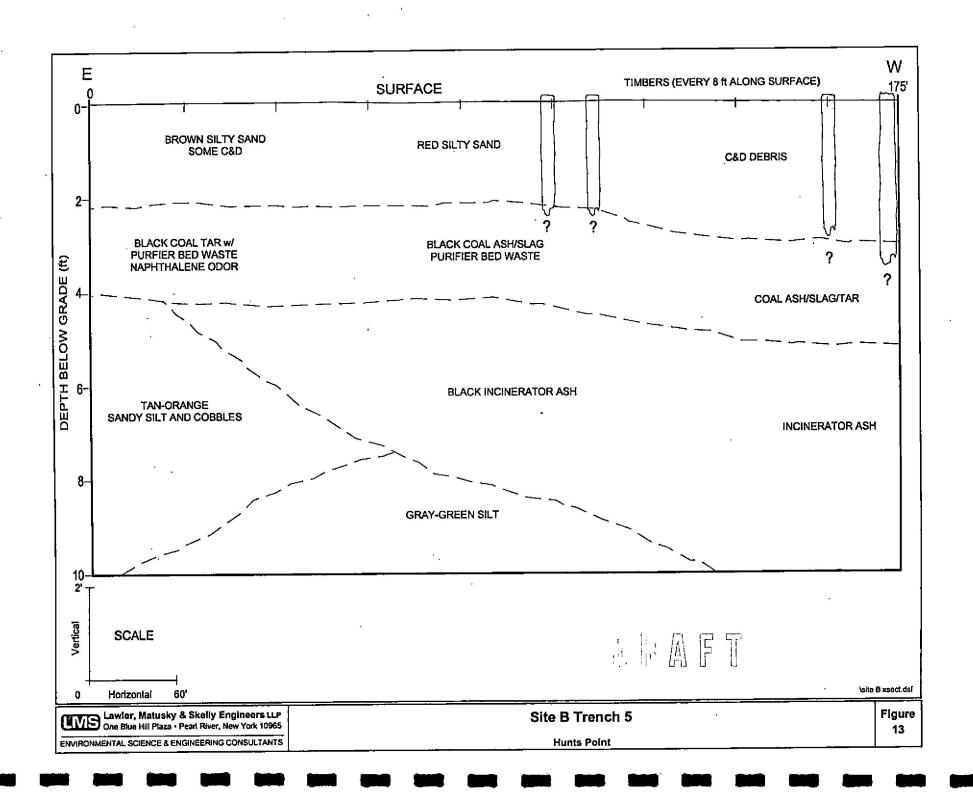
APPENDIX 2 TEST TRENCH PROFILES AND DESCRIPTIONS

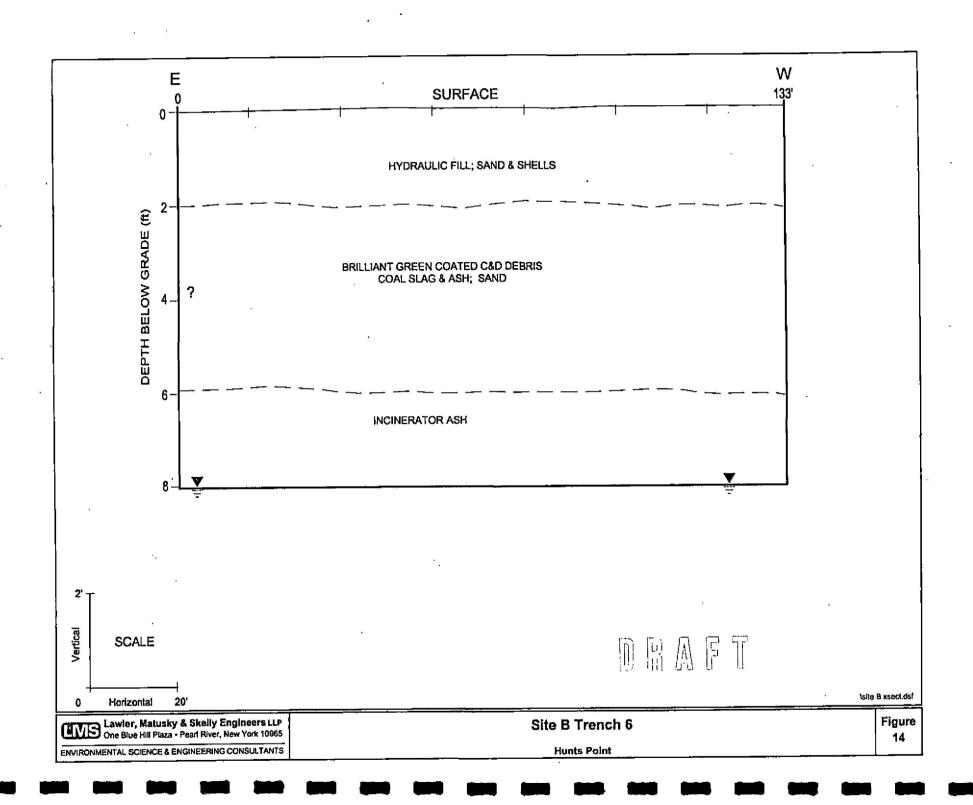


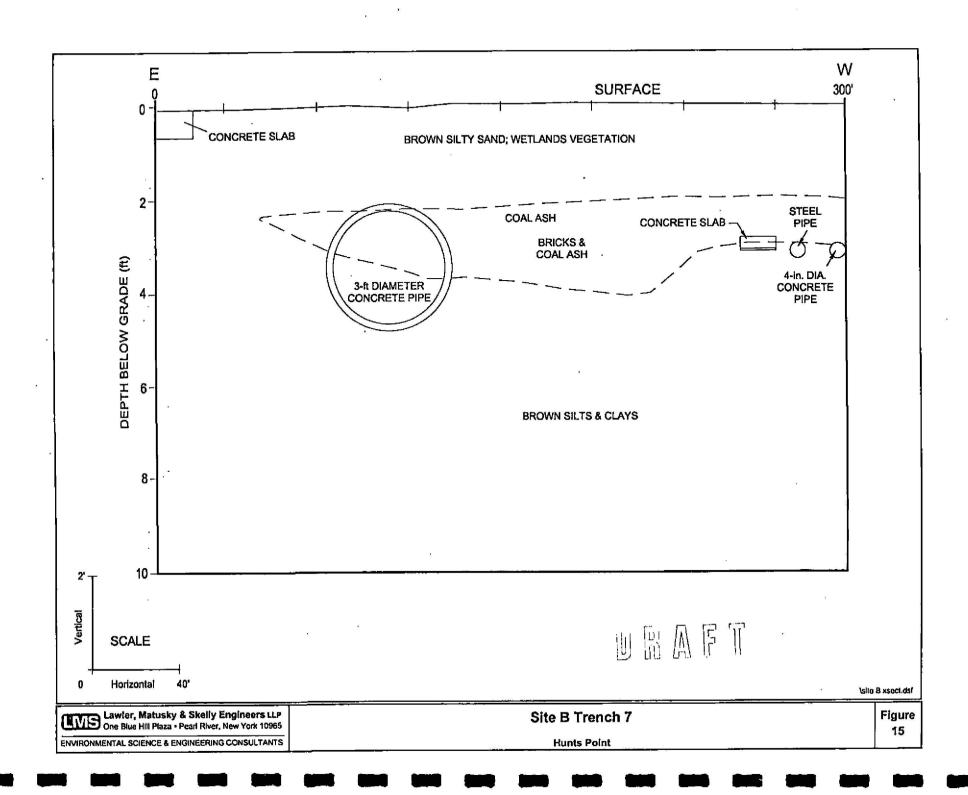


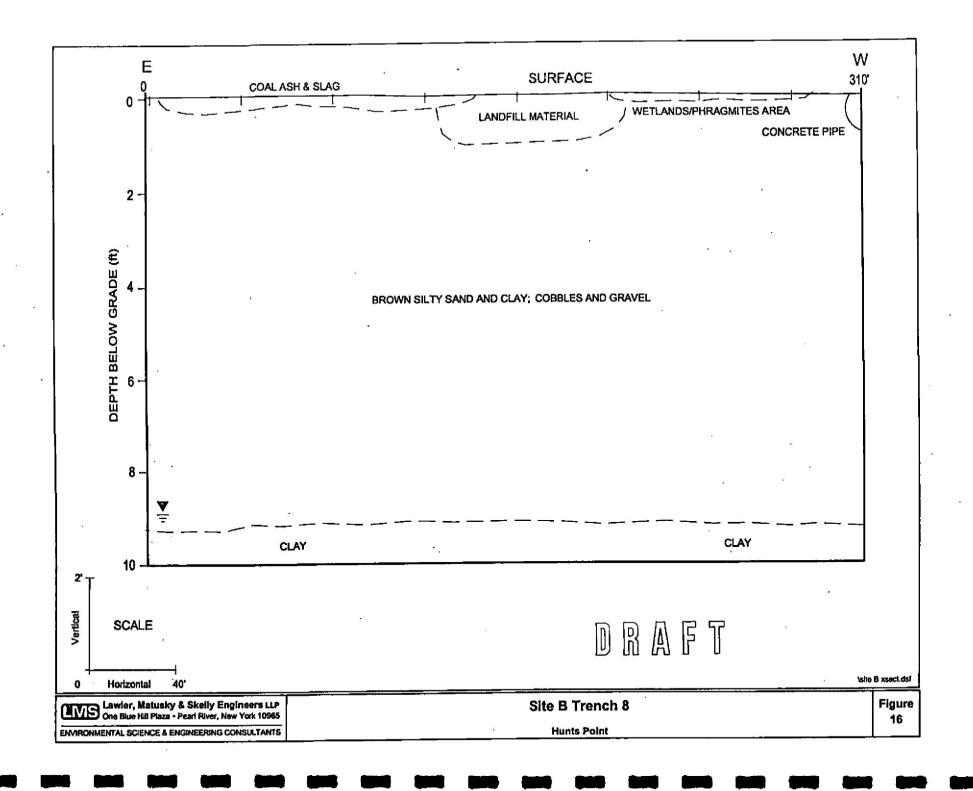


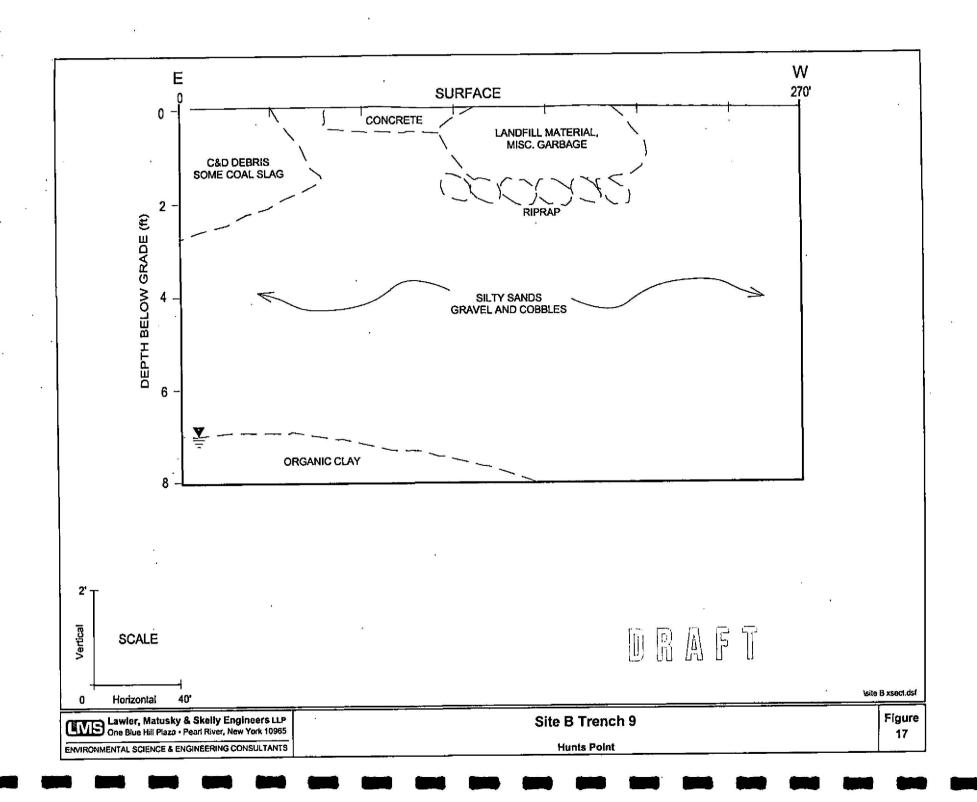


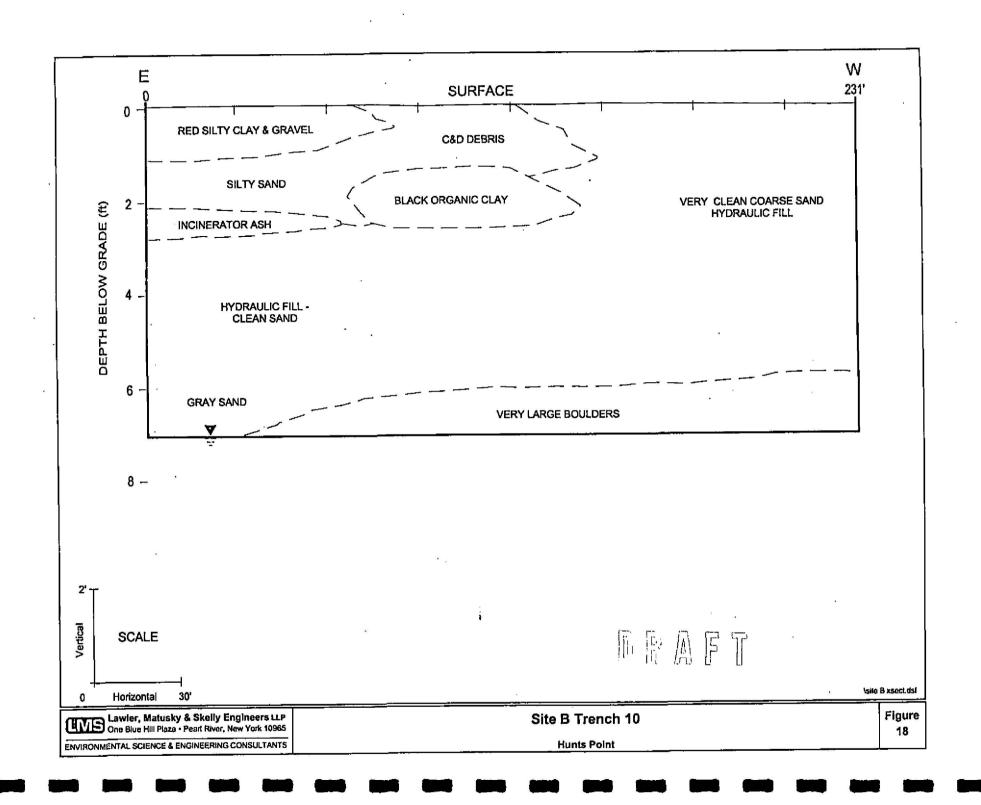


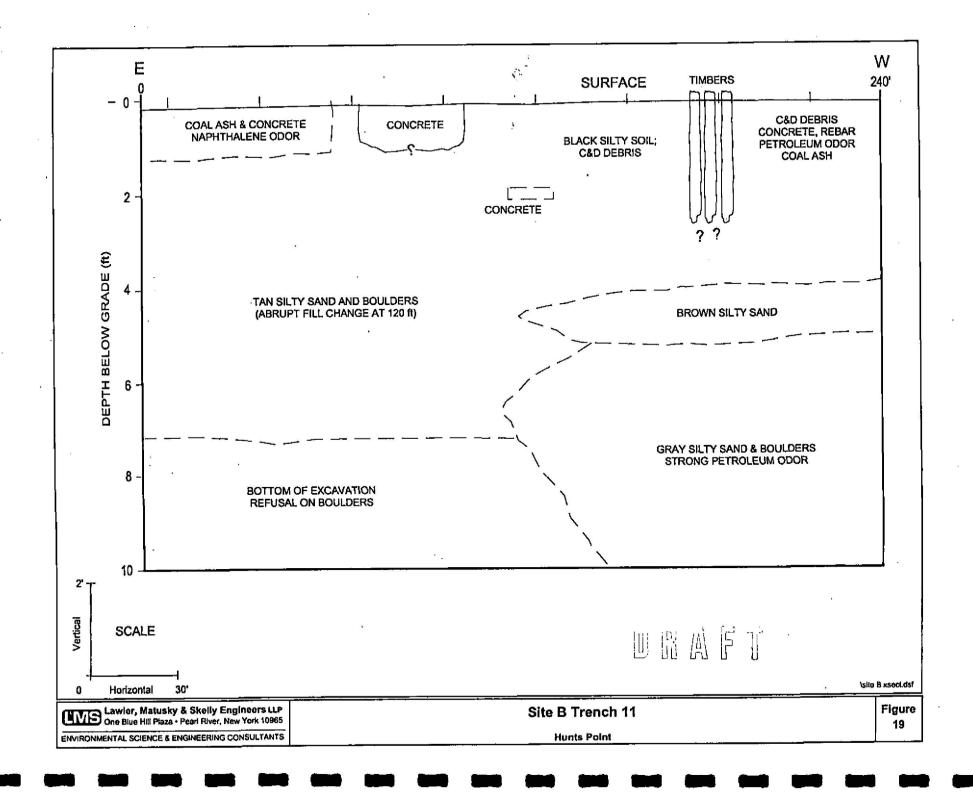












FAX NO. : 6464240B35

A brief description of each trench installed at Site B follows.

Trench 1

Trench 1 was installed at the northernmost end of the western side of the Site adjacent to the fence line (Figure 4). The trench was 1,470 ft in length and the average depth across the trench was approximately 7 ft. A cross section describing the materials and depths of the trench and soil sampling locations is illustrated in Figure 9.

Typically, the fill material was more prevalent in the western end of the trench. Materials in the eastern end of the trench consisted of natural, silty sand with large boulders. These boulders prevented the equipment from excavating any deeper than about 15 ft below grade. Pieces of what appeared to be an old tank were uncovered about 65 ft from the eastern end of the trench. The area surrounding the tank consisted of bricks and miscellaneous construction and demolition debris as well as tires and various automobile parts. Some oil-stained soil was discovered beneath the tank pieces and was sampled during the sampling event. An area of petroleum contaminated soil was encountered at 232 to 237 ft from the eastern end of the trench. The soil was grey-green in color and exhibited a strong petroleum odor; this material was placed on plastic next to the excavation and sampled during the sampling event. Several concrete footings were encountered at 397 ft, 420 ft, 443 ft, 466 ft, 516 ft, and 615 ft from the eastern end of the trench. Coal ash/slag with a noticeable naphthalene odor was encountered beginning at 255 ft and extended to about 900 ft from the eastern end of the trench. The coal ash/slag was present at the surface, or just below, and underlain by tan-orange silty sand and cobbles. incinerator ash was encountered just below the ground surface at 890 ft and extended to the end of the trench at 1,470 ft. The incinerator ash consisted primarily of grey-black papery ash and miscellaneous household items such as glass and porcelain fragments. The incinerator ash was typically underlain by grey organic clay layer with copious shells. Groundwater was encountered just above the clay layer within the incinerator ash. Coal ash/slag with a noticeable naphthalene odor was again encountered above the incinerator ash beginning at 1,015 ft and extending west to the end of the trench at 1470 ft.

Trench 2

Trench 2 was installed on the western side of the Site, approximately 100 ft south of Trench 1 (Figure 4). The trench was 1,510 ft in length and the average depth was approximately 7 ft. A cross section describing the subsurface materials and depths of the trench as well as the soil sampling locations is illustrated in Figure 10.

As with Trench 1, the fill material in Trench 2 was typically encountered in the western sections of the trench. Tan silty sand and cobbles were present along the trench to about 300 ft from the eastern end of the trench. At 140 ft to 211 ft national contaminated soil was encountered, similar to that in Trench 1. At 230 ft a

concrete and steel structure was encountered, presumably part of a utility trench. The area was filled with various concrete and C&D debris, as well as some coal tar. All petroleum contaminated soil was placed on plastic sheeting next to the trench. At 280 ft from the eastern end of the trench, blue-green stained soil is present at the ground surface; this is suspected purifier bed waste from the former facility operations. Coal tar is present below the surface, approximately 1 ft in thickness from 280 to 390 ft along trench. Bricks and C&D debris are present to 2 ft below the coal tar to 390 ft. Tan silty sand and cobbles are present from 390 ft to 435 ft. At 435ft from the eastern end of the trench, a concrete footing was uncovered as well as oil saturated soil. A concrete slab overlain by coal tar and miscellaneous C&D debris is present from 435 ft to 560 ft from the eastern end of the trench. Coke gravel is present at the ground surface from 486 ft to 560 ft from the eastern end of the trench. At 560 ft to 592 ft, the fill material changes to silty sand and cobbles. There is some blue-green colored coal ash/soil on the ground surface at 575 ft. At 592 ft to 694 ft from the eastern end of the trench, coal tar is encountered from the surface to about 1 ft below grade, and is underlain by silty sand and cobbles. More concrete footings/slabs, and C& D debris, underlain by silty sand and cobbles are encountered from 593 to 706 ft from the eastern end of the trench. Incinerator ash fill, containing miscellaneous garbage, glass, porcelain fragments, etc. is encountered from 737 ft to the end of the trench at 1510 ft. At 737 ft the incinerator ash is about 2 ft in thickness and is underlain by silty sand and grey silty clay with copious shells. The incinerator ash deposit thickens to the west until at about 815 ft the ash is 3 ft thick. Coal ash is present on the surface at 934 ft from the eastern end of the trench, thickens to the west, and is underlain by the incinerator ash and silty grey clay. At 960 ft, a large tar boil is present on the surface; its dimensions measure approximately 68 ft long by 62 ft wide and approximately 3 ft thick. The tar boil is underlain by incinerator ash and silty grey clay. At 1035 ft to 1052 ft, coal tar is present both at the surface and on top of the clay layer. At 1062 ft to 1079 ft, red granular coal slag is present on the surface to about 2 ft below grade, underlain by black coal ash and grey-green clay, the incinerator ash is markedly absent here. Coal ash is absent at 1091 ft to 1099 ft, fill in this section consists of incinerator ash underlain by grey-green clay. A large tar boil, approximately 3 ft thick is present from 1099 ft to 1124 ft and is underlain by incinerator ash and grey-green clay. At 1124 ft to 1153 ft, red granular coal slag is present to 4 ft below grade, underlain by coal tar. Coal tar is absent at 1153 ft and the fill material returns to coal slag underlain by incinerator ash and grey green clay to end of trench at 1510 ft.

Trench 3

Trench 3 was installed on the western side of the Site approximately 150 ft south of Trench 2 (Figure 4). The trench was 715 ft in length and the average depth was approximately 10 ft. A cross section describing the subsurface materials and depths of the trench as well as soil sampling locations is illustrated in Figure 11.

As with Trenches 1 and 2, the fill material was more prominent as the trench was excavated to the west. The average depth of the trench was about 7 ft below grade. Petroleum contaminated soil, similar to that encountered in Trenches 1 and 2, was

encountered from the beginning of the trench to 24 ft. Tan silty sand and cobbles are present to 49 ft. A concrete slab overlain with C&D debris, firebricks, and coal tar is present from 49 ft to 114 ft from the eastern end of the trench. At 114 ft, C&D debris is present on the ground surface and is underlain by silty sand and cobbles. Coal ash/tar is encountered just below the surface at 141 ft and is underlain by silty sand and cobbles. Incinerator ash is encountered just below the coal ash from 200 ft to 279 ft from the eastern end of the trench. Grey-green silty clay with copious shells is encountered below the fill material beginning at 250 ft from the eastern end of the trench. At 279 ft to 444 ft, there is a marked absence of coal ash and incinerator ash fill, here the materials consist of phragmites vegetation underlain by grey silt and grey-green silty clay with copious shells. At 373 ft, the silts and clay exhibit a strong naphthalene odor and a tar boil approximately 2 ft thick is encountered from 384 ft to 413 ft. At 444 ft to 570 ft, brilliant blue-green colored soil and wood chips are encountered just below the surface to about 4 ft below grade. This is believed to be waste from the purifier beds of the former coal gassification facility. At 444 ft to 570 ft, the fill material encountered consists of coal ash with blue green purifier waste underlain by grey green silty clay with copious shells. From 570 ft to the end of the trench at 715 ft, the fill material predominantly consists of C&D debris on the surface, underlain by coal ash, incinerator ash and grey-green silty clay with copious shells. Groundwater is present above the clay layer from 566 ft to 715 ft. Blue-green purifier waste was again encountered in the fill material at 621 ft and 651 ft.

Trench 4

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Trench 4 was installed on the western side of the Site approximately 100 ft south of Trench 3 (Figure 4). The trench was 500 ft in length and the average depth along the trench was approximately 10 ft. A cross section describing the subsurface materials and depths of the trench as well as soil sampling locations is illustrated in Figure 12.

As with Trenches 1 through 3, fill material was typically encountered as the trench was excavated to the west. Petroleum contaminated soil, similar to that encountered in Trenches 1 through 3, was encountered from the beginning of the trench to 25 ft. A concrete slab was present at about 2 ft below grade from the beginning of the trench to about 15 ft. C&D debris is present from the beginning of the trench to 50 ft from the eastern end of the trench, and is underlain by a concrete slab. At 50 ft the C&D debris is underlain by red granular coal slag, incinerator ash, and grey-green clay with copious shells. A tar boil approximately 2 ft thick is present from 55 ft to 68 ft. From 68 ft to 132 ft the fill material consists of C&D debris underlain by granular coal slag, incinerator ash, and grey green clay with copious shells. A tar boil is present from 132 ft to 138 ft approximately 2 ft in thickness. From 138 ft to 218 ft, fill material consists of coal ash, increasing in thickness to the west, underlain by incinerator ash and grey-green clay with copious shells. Blue-green purifier waste is present, in various thicknesses, to 3 ft below grade from 172 ft to 189 ft, and traces of the waste are present at 285 ft. A concrete slab is present, possibly an old building footprint, from 218 ft to 253 ft. Fill material beyond the slab consists of coal ash, underlain by incinerator ash and grey-green silty clay to 412 ft., where the grey-green clay pinches out. From 412 ft to 410 ft, the fill material consists of coal ash underlain FROM: URBITRAN/ROSENBLOOM

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by incinerator ash. From 440 ft to the end of the trench at 500 ft, the fill material consists of topsoil over incinerator ash. Concrete supports for the former propane storage tanks exist at 282 ft and 362 ft from the eastern end of the trench.

Trench 5

Trench 5 was installed on the eastern side of the Site, to the west of the NYCDEP double barrel sewer, approximately 170 ft north of Trench 6 (Figure 4). The trench was 175 ft in length and the average depth was approximately 10 ft. A cross section describing the subsurface materials and depths of the trench as well as soil sampling locations is illustrated in Figure 13.

From the beginning of the trench to 17 ft, the ground surface and associated vegetation is stained a bright blue green, similar to purifier waste. Where the soil is heavily stained there is a marked decrease in vegetation. All coal ash encountered in this trench exhibited a very strong naphthalene odor. The subsurface material in from the beginning of the trench to 65 ft consists of brown silty sand underlain by black coal ash with blue-green staining, which in turn is underlain by silty sand and cobbles. From 65 ft to the end of the trench at 175 ft, the fill material consists of red silty sand, underlain by black coal ash with bright blue-green staining, underlain by incinerator ash and grey-green silt. Wood pilings were present at 162 ft and 175 ft. The pilings seemed to have been coated with creosote at some point in time, and the soils surrounding the pilings are saturated with black oil with a pronounced creosote odor. All contaminated soil was placed on plastic to the side of the excavation.

Trench 6

Trench 6 was installed on the eastern side of the Site, to the west of the NYCDEP double barrel sewer, approximately 70 ft north of the bulkhead along the East River (Figure 4). Trench 6 was 133 ft in length and the average depth along the trench was approximately 8 ft. A cross section describing the subsurface materials and depths of the trench as well as soil sampling locations is illustrated in Figure 14.

The subsurface material in Trench 6 was consistent throughout the trench. The first 2 ft consist of clean hydraulic sand fill with copious shells from either the East or Bronx Rivers. From 2 ft to 6 ft below grade, the fill is silty sand, coal ash and bricks with bright blue-green staining and a very strong naphthalene odor. This material was placed on plastic to the side of the excavation. Incinerator ash with miscellaneous glass, wood and debris is present from 6 ft to 8 ft below grade. Groundwater was encountered in the incinerator ash at 8 ft below grade. The fill layers are visible along the shoreline of the East River immediately south of the trench, where the bulkhead has been destroyed.

Trench 7

Trench 7 was installed on the eastern side of the Site, to the east of the NYCDEP double barrel sewer, adjacent to the fence line on the northern border of the Site (Figure 4) Trench 7 was 300 ft in length and the average depth along the trench

was 10 ft. A cross section describing the subsurface materials and depths of the trench as well as the soil sampling locations is illustrated in Figure 15.

Trench 7 was installed in an area of wetland vegetation; therefore, the first foot of material along the entire length of the trench generally consisted of silty sand and phragmites roots. Coal ash and slag is present along the entire length of the trench just below the phragmites roots in thicknesses varying between 1ft and 2 ft. A number of concrete pipes and slabs of unknown origin were encountered at 2 ft, 10 ft, 200 ft, and 300 ft from the eastern end of the trench. Some large creosote-coated timbers were present in the coal ash just before the concrete pipe located at 200 ft; these may have served as some kind of shoring during installation of the pipe. No significant evidence of contamination was observed in this trench.

Trench 8

Trench 8 was installed on the eastern side of the Site, to the east of the NYCDEP double barrel sewer, approximately 200 ft south of Trench 7(Figure 4). Trench 8 was 310 ft in length and the average depth along the trench was approximately 10 ft. A cross section describing the subsurface materials and depths of the trench as well as the soil sampling locations is illustrated in Figure 16.

The subsurface material in this trench was fairly consistent along the length of the trench. Some coal slag at a depth of 0.5 ft to 1 ft was encountered in the first 10 ft of trench underlain by silty sand and cobbles and silty clay. From 10 ft to 100 ft from the eastern end of the trench, the subsurface materials consisted of silty sands and clay with large cobbles. At 100 ft to 120 ft from the eastern end of the trench, a mound of landfill debris about 5 ft in thickness consisting mostly of miscellaneous household garbage and debris was encountered. Below the landfill debris, just below the original ground surface, a 2-in layer of coal slag was encountered from 100 ft to 120 ft from the eastern end of the trench. From 120 ft to the end of the trench at 310 ft, the subsurface material consisted of tight silty sand underlain by a layer of large cobbles from 8 ft to 10 ft below grade. No significant contamination was encountered in this trench.

Trench 9

Trench 9 was installed on the eastern side of the Site, to the east of the NYCDEP double barrel sewer, approximately180 ft south of Trench 8 (Figure 4). Trench 9 was 270 ft in length and the average depth along the trench was 8 ft. A cross section describing the subsurface materials encountered and the depths of the trench as well as the soil sampling locations is illustrated in Figure 17.

Fill material was predominantly encountered in the eastern end of the trench and consisted of C&D debris, some coal ash and rip rap. There is an elevated area of the trench at about 100 ft to 120 ft that consists of some landfill type material, household debris underlain by riprap, silty sand, and cobbles. From 100 ft to 270 ft from the eastern end of the trench, material in the trench consists of brown, micaceous silty

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sand and gravel underlain by grey-black organic clay. No evidence of contamination was encountered in this trench.

Trench 10

Trench 10 was installed on the eastern side of the Site, to the east of the NYCDEP double barrel sewer, approximately 38 ft north of the bulkhead along the East River (Figure 4). The trench was 231 ft in length and the average depth along the trench was 7 ft. A cross section describing the subsurface materials and the depths of the trench as well as the soil sampling locations is illustrated in Figure 18.

There is various C&D debris and vehicle parts on the surface at the eastern most end of the trench. The trench was started about 200 ft from the property line to avoid the surface materials. The material encountered within the trench was consistent along the length of the trench and is predominantly clean, coarse grained, hydraulic sand fill from either the East or Bronx Rivers. The hydraulic fill is underlain by large rounded boulders and fine grey sand. No evidence of contamination was encountered in this trench.

Trench 11

Trench 11 was installed on the eastern side of the Site, to the west of the NYCDEP double barrel sewer, approximately 164 ft north of Trench 5 (Figure 4). The trench was 240 ft in length, and averaged about 10 ft in depth. A cross section illustrating the subsurface materials and depths of the trench as well as soil sampling locations is illustrated in Figure 19.

Trench 11 was installed just downgradient of the piling area in the center of Site B. From the beginning of the trench to 48 ft soil is silty sand and cobbles with a strong naphthalene odor. Concrete rubble is present from 15-31 ft, and 42 to 48 ft. At 62 ft coal ash is present at the surface to about 1 ft below grade and is underlain by greygreen stained soil, and silfy sand and cobbles. A concrete drainage pipe from the pilings area is present from 72 to 109 ft. Silty sand and cobbles are present from 72 to 119 ft, where there is an abrupt change to C&D debris consisting of bricks and Grey-green petroleum concrete with a strong naphthalene odor to 168 ft. contaminated silty sand encountered from 168 ft to end of trench at 240 ft; all contaminated material was placed on plastic on the side of the trench. Wood pilings are present from 179 to 195 ft, and at 240 ft. The pilings seemed to have been coated with creosote at some point in time, and the soils surrounding the pilings are saturated with black oil with a pronounced creosote odor.