	4	NLA	<u> 1/V</u>		Lo			oring			SE	310			Sheet	1	O	f 1
Project		4E0 Union Other of				$\Box$	Pro	ject No.			170	204000						_
Location		450 Union Street					Ele	vation an	d Da	tum		301202	<u>′</u>					
Drilling C	ompa	Brooklyn, NY					Dat	e Started			N/A			Date	Finished			
Drilling F		Eastern Environmen	tal				Cor	malation I	)ont	<u> </u>	2	/12/16		Dools	Donth		2/12/1	3
Drilling E	quipm	Geoprobe 7822 DT					Cor	mpletion I	Jept	n		16 ft		ROCK	Depth		N/A	A
Size and	Туре						Nur	mber of S	amp	les	Dist	urbed	6	Ur	ndisturbed	I N/A	Core	N/A
Casing E	iamet	er (in)		С	asing Depth (ft)		Wa	ter Level	(ft.)		First				ompletion		24 HR	
Casing F	lamme	N/A	Weight (lbs)	N/A	Drop (in) N/A	`	Dril	ling Fore	man		<u>  ¥</u>	-	8		<u>¥</u>	N/A	<u> </u>	N/A
Sampler		4' Stainless Steel 2"	I.D. Macrocore	14// (		ŀ	Iner	pecting E	nain		ddie	Gallo						
Sampler	Hamn		Weight (lbs)	N/A	Drop (in) N/A		·	pecting L	i igii i		dam	Goldb	erg					
SIAL	Elev.					ading	٦	Depth				mple Da	ta N-Va	luo		R	emark	s
MATERIAL SYMBOL	(ft)	Sa	ample Descript	tion		PID Reading	udd)	Scale	Number	Type	Recov (in)	Penetr. resist BL/6in	(Blow	s/ft)	(E Fluid	Orilling Flu	id, Depth	
AN GAME		(0-4") CONCRETE	` • '					_ 0 _							Sta	art at 10	020	
7 KXXXXX		R1a (4-8") Light br	own, fine SAND	, trace br	rick (dry)	0.0	- 1	- 1 -								mple 0 Il List	.5-2.5' a	t 1050
Report Popularies		R1b (8-10") Black, fine subangular gra		AND, trac	e brick,	0.0	.0	: :		MACROCORE	8				''	LIST		
:		R1c (10-16") Light sand (dry) [FILL]	grey, quartz GR	RAVEL, tr	ace brown	0.0	.0	_ 2 _	_	ACRO	24/48							
		R1d (16-24") Light		rown, me	edium-fine		-	- 3 <del>-</del>		M								
3/4/2016 b:01:35 PM		SAND, trace silt (d	ry) [FILL]															
								- 4 -										
		R2a (0-6") Light bro		ne SAND	, trace			- 5 <del>-</del>										
3		R2b (6-10") Light g SAND, trace grave	grey to white mo		dium-fine	0.0	.0			CORE	∞							
912120		R2c (10-12") Brown	n, SILT, little cla	y (moist)		0.0		- 6 -	7	MACROCORE	16/48						-8' at 11	00
		R2d (12-16") Light gravel and silt (wet		-fine SAI	ND, trace	0.0	.0	- 7 <del>-</del>		MA					Fui	I List		
						,												
								- 8 -										
GINILOGS								- - 9 -										
		R3a (0-6") Dark bro	own medium-fir	ne SAND	some silt					ORE	ω							
<u> </u>		(wet)	own, mediam m	10 07 11 11 11	, some siit	0.0		10 -	က	MACROC	26/48						1-12' at	1115
						0.0	- 1	- - 11 -		MAG						IP-1 Fu S/MSD		_021216 at
YIN I		R3b (6-26") Reddis (wet)	sh-brown, fine S.	AND, so	me silt	0.0		: '' <u>=</u>							113	39		
		R4a (0-20") Reddis	ch brown fino S	AND co	mo silt		ŀ	12 -										
0 5 2		(wet)	sii-biowii, iiile 3	AND, SU	ine siit			- 13 -										
		D.41 (40, 40!!) D. 1						- 10 -		ORE	ω							
		R4b (10-48") Dark plasticity, shells (m	grey, SIL1, som noist)	ne clay, lo	OW		ŀ	14 -	4	MACROCORE	48/48							
								15 -		MAC								
							ŀ	- 15 - -										
							ļ	16 -								d at 11 B at 16		
S S							ŀ	17								b at it	J	
NA								- 17 - - -										
MUDA							-	18 -										
00							ŀ	_ 10										
ILANGAN.COMIDATANYCODATAZIT70301202ENGINERING DATAIENVIRONMENTAL								- 19 - -										
]								_ 20 _										

Project						F	Project N	No.										_
ocation		450 Union Street					Elevatio	n and	Dat		17030	)1202						_
CallOII		Brooklyn, NY				ľ	Lievatio	ii aiiu	Dai		N/A							
rilling Co						[	Date Sta	arted					[	Date	Finished			
rilling Ed		Eastern Environmer	ntal				Complet	ion De	enth	<u> </u>	2/1	2/16	F	Rock	Depth	2/12/1	6	_
illing Lo		Geoprobe 7822 DT					oompict	ion b	Сри	•		16 ft	ľ	took	Берит	N/	Α	
ze and	Туре с	of Bit				١	Number	of Sa	mpl	es	Distur	bed		Un	ndisturbed	Core	N1/A	^
asing Di		N/A er (in)			Casing Depth (ft)	-	Water L	ovol (f	# \		First		3	Co	N/A empletion	24 HF	N/A R.	٦
asing Ha		N/A	Weight (lbs)		Drop (in) N/A		Drilling F	,			$\nabla$		7.5	-	N/A	Ī	N/A	4
ampler				N/A	N/A	$\Box$				E	ddie G	Sallo						
ampler H		4' Stainless Steel 2"	Veight (lbs)		Drop (in) N/A		Inspectir	ng En	gine									
	T	el N/A		N/A	. ` ` N/A	<b>D</b>		$\overline{}$		Ac		Soldbe ple Data						_
MATERIAL SYMBOL	Elev. (ft)	Sa	ample Descript	ion		PID Reading	Dep Sca	oth	Number	Туре	Recov. (in)	sist 6in	N-Val (Blows			emark		a.
SYS	(11)					PID	0		Nun	Ļ	Rec	BE	10 20 3	,	(Drilling Flu Fluid Loss, D	rilling Res	istance, e	eto
	-	(0-4") ASPHALT R1a (4-10") Brown	modium fine C	AND II	tla fina	1.4	F .	=							Start at 90	00		
		rounded gravel, tr			ue iirie	0.7	, - 1	4		ш					Sample 0	.5-2.5' a	at 930	
		R1b (10-18") Light	grey to white, m	edium-	fine SAND,	0.1	_	. =		COR	48				Full List			
		with fine quartz su	•		-	0.0	)  - 2	4		MACROCORE	28/48							
		R1c (18-28") Dark little fine subangul			fine SAND,		- 3	. =		Ž								
		0	,				E	3										
							- 4	+ -										
							- 5	=										
							F 3	=		ORE								
		R2a (0-4") Dark g	rev medium-fine	SAND	trace		- 6	=	7	MACROCORE	12/48							
		gravel (moist) [FIL		OAND,	liacc		=	=		MAC								
$\bowtie$		R2b (4-12") Reddi	sh-grey, medium	n-fine S/	AND, trace $$	0.3									Sample 7-	-8' at 94	45	
		gravel (moist) [FIL	.L.J		_	0.1	- 8	. 1							Full List			
								=										
							- 9	1		Щ								
							F 4	, ]	- 1	COR	48							
		R3a (0-16") Dark	grey to reddish-b	rown, fi	ne SAND,	0.0	Г	<b>,</b>	3	MACROC	26/48							
		little silt, some fine	e subangular bla	ck grave	el (wet)	0.0	⊢ .	1 =		Σ					Sample 1	1-12' at	1000	
		R3b (16-26") Red (wet)	dish-brown, fine	SAND, s	some silt	0.0	L	=							Full List			
		·/					12 	2 士										
		D4 (0.40%) T (			211.7	0.0	F	3 =										
		R4a (0-18") Tan to	b brown, fine SAI	ND, son	ne silt (wet)	0.0	Г			ORE	_							
						0.0	) - 14	4 🚽	4	MACROCOR	30/48							
						0.0	-	. =		MAC	``							
		R4b (18-30") Tan gravel, little silt (w		AND, litt	le fine		<u></u>	7								05		
	-	gravor, muc ont (w	<u> </u>			-	- 16	₃∄							End at 10			
							Ė	=							EOB at 16	o.		
							<u> </u>	7 🚽										
							18	3 =										
							į.	=										
							- 19	∍∃										
							Е	E										

Project						F	Project No.								
		450 Union Street								17030120	2				
ocation.		Brooklyn, NY					Elevation and	а ра		N/A					
rilling Co							Date Started			14/7 (		Date	Finished		
orilling Ed		Eastern Environmen	tal				Completion [	Onti	<u> </u>	2/16/16	i	Dock	Depth	2/16/16	
rilling E		Geoprobe 540 B					Jornpietion t	Jepu	1	16 ft		ROCK	Берип	N/A	
ize and	Туре с	of Bit					Number of S	amp	les	Disturbed		Un	disturbed	Core	
asing D		N/A er (in)		(	Casing Depth (ft)					First	4	Co	N/A empletion	24 HR.	N/A
		N/A	Weight (lbs)		NI/A		Nater Level  Orilling Forer	` ′		$\nabla$	7.4		N/A	$ar{ar{\Lambda}}$	N/A
asing H				N/A	Drop (in) N/A	<u></u>	Jilling i orei	IIaii	E	ddie Gallo					
		4' Stainless Steel 2"	I.D. Macrocore Weight (lbs)		Dron (in)		nspecting E	ngine							
ampler I	Hamme	er N/A	Weight (ibs)	N/A	Drop (in) N/A	, <u> </u>	1		A	dam Goldb Sample D					
MATERIAL SYMBOL	Elev.	9.	imple Descript	ion		PID Reading (ppm)	Depth	Jec	Φ	<del></del>	N-Va			emarks	<b>.</b>
SYN	(ft)	36	imple Descript	1011		PID R	Scale	Number	Type	Recov. (in) Penetr. resist	(Blow 10 20	,	(Drilling Fluid Fluid Loss, Dri	d, Depth of C lling Resistar	asing, nce, etc
4 7 4		(0-8") CONCRETE	(dry)			0.2	:						Start at 10	45	
		R1a (8-12") Brown	medium-fine S	AND so	nme	0.1	F								
$\bowtie$		coarse-fine rounde				0.1	F =		ORE	ω					
XX		R1b (12-30) Dark I	orown, medium-	fine SAN	ND, some	0.1		~	MACROCORE	30/48			Sample 2-	4' at 1130	)
$\ggg$		ash, brick, and pla	stic (wet) [FILL]			0.1			MAG				Full List Dup2_2-4'		
							3 -						Full List		
XXX							4 -								
		R2a (0-6") Dark br		edium-fi	ne SAND,		5 -		띴						
XXX		some ash (wet) [Fl	•			6.9 7.3	F -	7	MACROCORE	18/48					_
		R2b (6-8") 2" piece	e of WOOD			301			ACR	18			Sample 6-8 High PID	B' at 1145	5
		R2c (8-18") Dark b	rown to black m	nedium-	fine SAND 🔽				Σ				Full List		
		some fine gravel (v	wet) [FILL]	Todiaiii	o o,tb, <u>v</u>		Ė . =								
							8 -								
							9 -								
$\bowtie$						0.2	. E 3		ORE						
		R3a (0-11") Dark b	orown, medium-f	ine SAN	ID, some	0.1	L 10 -	က	MACROC	24/48					
		silt (wet) [FILL]	,		•	0.1			MAC						
$\bowtie$		R3b (11-24") Dark some brick and silt	to light grey, me	edium-fir	ne SAND,	0.1	F -								
		SOME DIEK AND SIN	i, iilie iiile ylave	, (∧∧⊆r) [	, , <u>,,</u>	0.1	L 12 _								
$\bowtie$		R4a (0-16") Dark g	rey, fine SAND.	some s	ilt (wet)	0.1									
		[FILL]	, , ,		,	0.1	- 13 -		븼				Sample 13	-15' at 12	200
		R4b (16-40") Redd	lish-brown, silty	SAND (	wet)	0.1	L 11 J	4	MACROCORE	48/48			Full List		
						0.1	F =		<b>AACR</b>	48					
	}	D4- /40 46" D ::	B-L-L- "	01.437.1		0.1	L 15 J		2						
M		R4c (40-48") Redd plasticity (moist)	iisn-brown, silty (	CLAY, lo	OW	0.1							End at 120	)5	
	Ī	/				1	16						EOB at 16	1	
							17								
							18 -								
							19 -								
						1	∟ ।∌ =		1	1 1					

L	4	Nb/	4/V		Lo	g o	of B	oring			SE	13			Sheet	1	of	1
Project		450.11 : 01 1					Pro	ect No.			470	00400	^					
Location	l	450 Union Street					Elev	ation an	d Da	tum		301202	2					
Drilling (	Compa	Brooklyn, NY					Dat	e Started	ı		N/A			Date	Finished			
Drilling E	auinm	Eastern Environmen	tal				Cor	npletion I	Dont	h	2	/16/16		Pock	Depth	2	2/16/16	
Dilling	quipiri	Geoprobe 540 B					COI	ripietion	Depti			6 ft		ROCK	. Берит		N/A	
Size and	Туре						Nur	nber of S	amp	les	Dist	urbed	1	Ur	ndisturbed I	N/A	Core	N/A
Casing [	Diamet			С	asing Depth (ft) N/A		Wa	ter Level	(ft.)		First		N/A		ompletion	N/A	24 HR.	N/A
Casing I	lamme		Weight (lbs)	N/A	Drop (in) N/A		Drill	ing Forei	man		_		13//3		<u>*</u>	W/A	<u> </u>	19/73
Sampler		4' Stainless Steel 2"	I.D. Macrocore				Inst	ecting E	naine		ddie	Gallo						
Sampler	Hamn	ner N/A	Weight (lbs)	N/A	Drop (in) N/A							Goldb			_			
AN MATERIAL SYMBOL	Elev. (ft)	Sa	ımple Descript	tion		PID Reading	(mdd)	Depth Scale	Number	Type		Penetr. resist aldw BL/6in	N-V (Blov	vs/ft)	(Dril		marks Depth of	Casing, ance, etc.)
NA CANCAN		(0-8") CONCRETE	(dry)			0.		0 -	z		III.	Е-ш	10 20	30 40		at 131		
I lank to do a		R1 (8-10") Black, n	nedium-fine SAI	ND, some	e coal	0.	.1	- 1 <u>-</u>										
Kepon: Log		ash, wood, slag, ar	nd brick (moist)	[FILL]		0.		=		MACROCORE	48							
:: XXXXXX						0.	.1	- 2 -		ACRO	20/48							
\$ <b>\\\</b>								- 3 -		Ň					Sam	ple 2-4	' at 134	5
3/4/2016 6:01:43 PM								= =							Full I	_ist		
		R2 (0-8") Black to	dark grey, medi	um-fine S	SAND,	0. 0.		- 4 -		ORE								
::KXXXX		some coal ash and	d brick (moist) [F	ILL]		0.	'	5 -	7	MACROCORE	8/24							
<u> </u>								6 -		MAC					Refu	sal at 6 at 1345	S'	
72120															EOB		,	
1202							Ē	7 -										
1/030							ŀ	8 -										
0.65							-	=										
N N							=	9 -										
A P							F	10 -										
Z							Ē											
≥   							þ	- 11 <del>-</del>										
I AIEN							ŀ	12 -										
9 P																		
H H H							Ė	13 -										
2015 2015 2015								- 14 <u>-</u>										
202/E							Ė	=										
0301							Ē	15 -										
AZYI								- 16 <del>-</del>										
AD S							ŀ	17										
AIN							E	- 17 <del>-</del>										
MUDA							ļ	18 -										
200							Ē	- 10 12 15 16 18										
NLANGAN.COMIDATANYCUDATAZU7030120ZENGINEERING DATAIENVIRONMENTALKGINTLOGSU70301202_021216.GFD							þ	-										
<b>⊭</b> L								_ 20 <del>_</del>	1		1							

	4	NL	<u> </u>		Lo		Boring			SB1	I3R			Sheet	1	of	1
Project		.=				F	Project No.			4-04							
Location		450 Union Street				E	Elevation an	d Da	itum		301202	!					
Drilling C	ompai	Brooklyn, NY				[	Date Started	i		N/A			Date	Finished			
		Eastern Environmen	tal							2/	/17/16				2	2/17/16	
Drilling E	quipm					ľ	Completion I	Dept	h		10 H		Rock	Depth		NI/A	
Size and	Туре	Geoprobe 7822 DT of Bit				١.	Number of C	۰	loo	Distu	16 ft urbed		Un	ndisturbed		N/A Core	
Casing D	iamet	N/A		C	asing Depth (ft)	- '	Number of S	amp	ies	First		3	Co	mpletion	N/A	24 HR.	N/A
		N/A		0.	N/A		Water Level	` ′		$\nabla$		10.5		_ `	N/A	<u>T</u>	N/A
Casing H	amme	erN/A	Weight (lbs)	N/A	Drop (in) N/A	[	Drilling Fore	man	_	ddia	Calla						
Sampler		4' Stainless Steel 2"				I	Inspecting E	ngin		uule	Gallo						
Sampler	Hamm	ner N/A	Weight (lbs)	N/A	Drop (in) N/A				Α		Goldbe			-			
MATERIAL SYMBOL	Elev. (ft)	Sa	ample Descript	ion		PID Reading	Depth Scale	Number	Type	$\overline{}$	Penetr. resist BL/6in	ta N-Va (Blow		(Dr	lling Fluid	marks , Depth of (	Casing,
S WA	(1.1)					PID,	0 -	N N	ŕ	Re	Pa a H	10 20 3		Fluid	Loss, Drilli	ng Resista	ince, etc.)
		(0-4") ASPHALT (c R1 (4-12") Brown,		o oilt (mo	iot) [EII I ]	0.0	F -							Star	t at 745	;	
		KT (4-12 ) BIOWII,	ille SAND, trace	e siit (iiio	iist) [FILL]	0.0	1 -		ш								
									MACROCORE	8							
:  >>>>							2 -	_	CRO	12/48							
							3 -		M								
		R2a (0-14") Dark b	prown to black. n	nedium-fi	ne SAND.		4 -										
		some coal ash, sla					<u> </u>										
:[XXXXX		[FILL] R2b (14-18") Coars	se GRAVEL (dry	y) [FILL]			5 -		뀚								
		DO (40 0411) D 4					6 -	7	MACROCORE	24/48				Com	nlo F 7	' at 000	
		R2c (18-24") Dark brick and ash (moi	brown, medium- ist) [FILL]	-fine SAN	ND, some	0.1	1 = =		<b>IACR</b>	24				Full		' at 800	
		,	,			0.1	1 - 7 -		2								
						0.8	- A										
		R3a (0-10") Dark b		ine SANI	D, some	0.1	8 -										
		•	` ',		CAND	0.0	9 -										
. K X X X X X		R3b (10-22") Redd trace silt and fine r				0.0	5		CORE	φ							
		R3c (22-30") Grey,	, fine SAND, sor	ne silt (w	et) [FILL]	0.0	E 10 =	က	MACROC	36/48						1' at 81	0
					<u>*</u>	0.0	L 11 L		MA					Full	LIST		
		R3d (30-36") Dark	grey, fine SAND	), some s	silt (wet)	0.0	'										
						0.0	12 -										
							13		끷								
						0.0	14 -	4	OCO	15/48							
		R4 (0-15") Light br (wet)	own, medium-fir	ne SAND	, some silt	0.0	F =	•	MACROCORE	15							
		(Hot)				0.0	F		Σ					Sam	nple 15-	16' at 8	30
							<u> </u>							Full			
							16								at 835		
							17 -							EOE	8 at 16'		
							ļ '' =										
							18 -										
							Ē =										
							<u> </u>										
<u> </u>																	

roject						Р	Project No.								
		450 Union Street						-1 D-		17030120	)2				
ocation		Brooklyn, NY					Elevation an	a Da		N/A					
rilling C	ompan					D	Date Started	I		14// (		Date	Finished		
rilling E	auinme	Eastern Environmer	ntal				Completion I	Dentl	<u> </u>	2/11/16	3	Rock	Depth	2/11/16	
rilling L	quipini	Geoprobe 7822 DT					ompletion i	Бори		16 f	t	rtoort	Борит	N/A	
ize and	Type o	of Bit N/A				N	Number of S	amp	les	Disturbed	3	Ur	ndisturbed N/A	Core	N/A
asing D	iamete	r (in)		C	Casing Depth (ft)	v	Vater Level	(ft.)		First		Co	mpletion	24 HR.	
asing H	amme	N/A	Weight (lbs)	N/A	Drop (in) N/A		Orilling Fore	` '		$\nabla$	9.4	-	N/A	Ī	N/A
ampler		4' Stainless Steel 2"	I D. Macrocoro	IN/A		l.				ddie Gallo	)				
ampler			Weight (lbs)	N/A	Drop (in) N/A	Ir	nspecting E	ngine		dam Gold	hera				
국고		14// (		14// (	107	guip				Sample D	Data		Р	emarks	
MATERIAL SYMBOL	Elev. (ft)	Sa	ample Descript	ion		PID Reading (ppm)	Depth Scale	Number	Type	Recov. (in) Penetr. resist	N-Va (Blow	alue /s/ft)	(Drilling Flu Fluid Loss, Di		Casing,
≥ " '\$ (\$ : P :		(0-6") CONCRETE	= (drv)			0.0		ž		<u> </u>	10 20	30 40			ice, etc
	-	R1a (6-18") Dark		nodium t	fine SAND	0.1							Start at 10	)45	
$\bowtie$		some brick, coal a	ash, glass and wo	od (dry)	) [FILL]	0.1	F =		RE				Sample 1- Full List	-3' at 1130	)
		R1b (18-24") Dark brick, coal ash, ar			some	0.5	F 2 −	-	MACROCORE	24/48			T dii Liot		
						0.5			MACF	5					
							3 -								
		DO (0.011) D. I.I.		0.4415			4 -								
		R2a (0-6") Dark be blue paint chips (c		ie SANL	), some		<b>F</b> =								
		R2b (6-24") Light	grey, fine SAND,	trace si	lt (dry)		5 -		W W						
		[FILL]				0.0	6 -	7	MACROCORE	24/48					
						0.0	F =		<b>IACR</b>	24					
						0.0	L 7 _		2						
						0.4	-								
		R3a (0-4") Light g	rey, fine SAND, t	race silt	(dry)		8 -								
		[FILL] R3b (4-26") Dark l	brown to black, m	nedium-	fine SAND. ▽	0.0	9 -		ш				Sample 9	-11' at 114	10
		some wood and c	oal ash, 2" of bla	ck staini	ing (moist)	0.1			COR	48			Full List		
		[FILL] R3c (26-32") Dark	grey to black, SI	ILT, little	clay	0.2	F -	က	MACROC	32/48					
		(moist)			•	0.0	14		Š						
						0.0	Ė 3								
		R4 (0-14) Brown,	medium-fine SAN	ND, som	e silt (wet)		12 -				1				
		, , ,		,	,		13 -						Sample 1:	3_1/l' at 11	150
									CORE	ထု			Full List	J-14 at 11	100
							14 -	4	MACROCOR	14/48					
							15		MA						
													End at 11	55	
**-[**	-						16 -				1		EOB at 16		
							17 -								
							‡ " =								
							18 -								
							10								
						1	_ 19 _	1		1 1					

L	4	/V <i>L</i>	1/V		Lo	g of E	Boring			SE	315			Sheet	1	of	1
Project		450 Union Chroat				Pro	oject No.			470	204202						
Location		450 Union Street				Ele	evation ar	nd Dat		170	301202						
Daillin a Ca		Brooklyn, NY					4- Ot4-			N/A			)-t- F	Talabad			
Drilling Co		y Eastern Environment	al			Da	te Starte	a		2	2/11/16	ľ	Jate F	inished	;	2/11/16	
Drilling Eq	uipme	ent	<del></del>			Co	mpletion	Depth	1			F	Rock [	Depth			
Size and		Geoprobe 7822 DT				-				Dist	16 ft turbed		Und	disturbed		N/A Core	
Casing Dia		N/A			asing Donth (ft)	Nu	mber of S	Sampl	es			3			N/A	24 HR.	N/A
		N/A			asing Depth (ft) N/A		ater Leve	` '		Firs	7	11.1	Z	mpletion	N/A	<u>₹</u>	N/A
Casing Ha	amme	N/A	Weight (lbs)	N/A	Drop (in) N/A	Dri	lling Fore	eman	E,	ddia	: Gallo						
Sampler		4' Stainless Steel 2" I	.D. Macrocore Weight (lbs)		Dron (in)	Ins	pecting E	Engine		uuic	Gallo						
Sampler F	lamm	er N/A	vveignit (ibs)	N/A	Drop (in) N/A	ь		1	A		Goldbe						
	Elev.	Sa	mple Description	nn		Reading (ppm)	Depth	per			<del> </del>	N-Val		(0	Re Fluid Prilling Pluid	marks	
SYP	(ft)		mpie Descriptie	<b>711</b>		PID F	Scale — 0 –	Number	Тy	Rec (in	Penetr. resist BL/6in	(Blows	,	Fluid	Loss, Dril	ling Resist	ance, etc.)
		(0-6") ASPHALT				0.7 1.5								Sta	rt at 140	00	
		R1a (6-36") Dark gr wood, coal ash and			, some	2.9	1 -	1	щ								
		•		-		3.7	_ 2 -	_[	MACROCORE	48/48							
		R1b (36-48") Brown ash, wood, brick an			ome coal	4.5 9.2		<u> </u>	1ACR(	48					mple 1-3 I List	3' at 142	20
		, ,	( )/!	•		3.1	3 -		2								
						3.1											
		R2a (0-6") Light gre quartz (dry) [FILL]	ey, coarse-fine SA	AND, so	ome		- 7										
		R2b (6-18") Tan to	brown, medium-f	ine SA	ND, some	0.2	5 -		Щ								
		wood, brick, and fo				0.3	6 -	2	MACROCORE	30/48							
		R2c (18-30") Black some wood and co			AND,	1.2 3.1		<u> </u>	MACR	30							
			, ,,	•		7.3	7 -		2						mple 7-8	3' at 144	10
						10.3	8 -							Full	l List		
		R3a (0-30") Dark gi SAND, some wood	rey to black, med and coal ash (m	lium-fin oist) [F	e stained ILL]												
		R3b (30-48") Light	grey, medium-fin	e SANI	O, trace		9 -		ORE								
		gravel and silt (moi	st) [FILL]			0.3	10 -	ျ	OCO	48/48							
					_	0.7 2.1			MACROC	48							
					$\bar{\Delta}$	3.4	- 11 -										
		D40 (0.00ll) Links	rou occurs for C		traca	4.7 3.5	- - 12 -	1									
		R4a (0-20") Light g gravel (wet) [FILL]	rey, coarse-tine S	SAND, 1	uace	1.1				Ī							
	ı	R4b (20-40") Reddi	ish-brown, fine S	AND. s	ome silt	0.1	- 13 -	1	出								
		(wet)	,	,		0.1 0.0 0.0	14	4	3000	40/48				Sar	mple 14	-16' at 1	500
						0.0			MACROCORE	4					I List	io at l	300
						0.0	_ 15 -			Ī						_	
	-						_ _ 16 -	1							d at 150	5	
														EO	B at 16'		
							<u> </u>										
							18 -	]									
							<u> </u>										
							<u> </u>	=									
							20 –	7									

	4	NLJ/	<u> 1/V</u>		Lo		f Bor				SB	16			Sheet	1	of	1
Project							Projec	t No.										
Location		450 Union Street					Elevat	ion and	d Da	tum		301202	2					
Drilling C	Compa	Brooklyn, NY				ł	Date S	Started			N/A			Date I	Finished			
Drilling E	·	Eastern Environmen	tal				Comp	letion [	Dont		2/	/11/16		Dook	Depth	2	/11/16	
		Geoprobe 7822 DT					Comp	ietion t	Jepu			16 ft		NOCK	Берит		N/A	
Size and	Туре	of Bit N/A					Numb	er of S	amp	les	Dist	urbed	3	Un	idisturbed	I/A	Core	N/A
Casing D	Diamet	er (in) N/A		Ca	asing Depth (ft) N/A		Water	Level	(ft.)		First		10.1		mpletion	I/A	24 HR.	N/A
Casing H	lamme	e <sup>r</sup> N/A	Weight (lbs)	N/A	Drop (in) N/A	١.	Drilling	Forer	nan	_		0-11-			_		_	
Sampler		4' Stainless Steel 2"			D ('.)		Inspec	ting E	ngine		aaie	Gallo						
Sampler	Hamn	ner N/A	Weight (lbs)	N/A	Drop (in) N/A					Α		Goldb mple Da			1			
MATERIAL	Elev. (ft)	Sa	ample Descript	tion		PID Reading	(mdd) D	epth	Number	Type		Penetr. resist BL/6in	N-Va (Blow	/s/ft)	(Drilli Fluid Lo	ng Fluid,	narks Depth of Ong Resista	Casing, nce, etc.)
§ (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		R1a (0-12") Light b		fine SANI	O, some	0.0	Ŧ	0 -							Start	at 124	5	
		R1b (12-24") Dark some coal ash, wo	grey to black, m ood, and glass (r	nedium-fir noist) [FI	ne SAND, LL]	0.	1 🗐	2 -	<del>-</del>	MACROCORE	36/48				0	.   - 4 0	-+ 400	
		R1c (24-36") Tan t coal ash and plasti			ND, trace	0.0	0 =	3 -		MACR	36				Full L		at 1300	J
		R2a (0-8") Tan to to coal ash and foam		fine SAN	D, trace		-	4										
:  >>>>>		R2b (8-18") Light g coal ash (dry) [FILI		ie SAND,	trace		F	5		CORE	8							
						0.2 0.2 0.2	2	7	2	MACROCORE	18/48							
		R3a (0-8") Light gr ash (dry) [FILL] R3b (8-20") Dark g SAND, trace wood	grey to black, me	edium-fine	e stained	0.: 0.: 1.!	3 =	9	က	OCORE	26/48				Samp Full L		1' at 13°	15
		R3c (20-26") Light	grey, fine SANE	O (wet)		0.5	7   1	11 -		MACROC	2							
		R4a (0-18") Light g	grey, medium-fin	ne SAND	(wet)	0.	1 =	12 -										
		R4b (18-48") Redd (wet)	lish-brown, fine S	SAND, so	ome silt	0.° 0.°	1 =	13 -	4	MACROCORE	48/48						15' at 13	330
						0.	1 =	15		MA					Full L			
						0.	-	16								at 1335 at 16'		
							E	17										
							E	18 -										
							E	19										
<u> </u>							<u> </u>	<sub>20</sub> _										

	4	Nb/	1/V		Lo		f Bor				SB	17			Sheet	1	of	1
Project		450 Union Chrook				F	Projec	t No.			4700	204202						
Location		450 Union Street				E	Elevat	ion an	d Da	tum		301202	<u>'</u>					
Drilling C	ompai	Brooklyn, NY				-	Date S	Started			N/A			Date I	Finished			
Drilling E	auinm	Eastern Environment	tal				Compl	letion [	Dont		2/	11/16		Dook	Depth	2	/11/16	
Drilling E	quipiri	Geoprobe 7822 DT					Compi	ellon l	Jepu	l		16 ft		ROCK	Берип		N/A	
Size and	Туре					ı	Numb	er of S	amp	les	Distu	ırbed	3	Un	disturbed	N/A	Core	N/A
Casing D	iamet			Ca	asing Depth (ft) N/A	١	Water	Level	(ft.)		First		11.1	Co	mpletion		24 HR.	N/A
Casing H	amme		Weight (lbs)	N/A	Drop (in) N/A	1	Drilling	g Forer	man		I <del>-≚</del> -		11.1	-	<u>L</u> 1	W/A	<u> </u>	IN/A
Sampler		4' Stainless Steel 2"				I.	Inspec	cting E	ngine		ddie	Gallo						
Sampler	Hamm	ner N/A	Weight (lbs)	N/A	Drop (in) N/A	.			_			Goldbe			_			
MATERIAL SYMBOL	Elev. (ft)	Sa	mple Descripti	ion		PID Reading	(judd) D	epth Scale	Number	Туре	T T	Penetr. resist BL/6in aldu	N-Va (Blow	/s/ft)	(Drill Fluid L	ing Fluid,	narks Depth of 0 ng Resista	Casing, nce, etc.)
NAGAN S S S S S S S S S S S S S S S S S S S		(0-6") CONCRETE					F	0 -	_				10 20	30 40	Start	at 915		
94.2010 00.1.33 FM Nepott LOB		R1a (6-12") Dark b (dry) [FILL] R1b (12-26") Light (dry) [FILL] R1c (26-36") Light [FILL]	tan to brown, mo	edium-fir	ne SAND	0.0 0.0 0.0 0.0 0.0		1 - 2 - 3 - 4 -	~	MACROCORE	36/48				Sam Full L		·2.5' at 9	945
		R2a (0-13") Light b subangular gravel ( R2b (13-24") Light subangular large g	(dry) [FILL] grey, medium-fi	ne SANE		0.0 0.0 0.0		5 - 6 - 7 - 8 -	2	MACROCORE	24/48							
		R3a (0-6") Light gresubangular gravel (	(dry) [FILL]		<u> </u>	0.0		9		MACROCORE	12/48				Sam Full L		5-12.5' a	at 950
		R4a (0-14") Dark g R4b (14-46") Redd SAND, trace silt (w	ish-brown to whi			0.0 0.0 0.0 0.0 0.0		13 -	4	MACROCORE	46/48					ole 13-	14' at 10	000
MENNOAN COMIDATANI TODATAATI OO TOO TOO TOO TOO TOO TOO TOO TOO TO						0.0		16 — 17 — 18 —								at 1005 at 16'		

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Project							F Boring Project No.			SB	_							
,		450 Union Street								170	301202	2						
Location							Elevation ar	nd Da	atum									
		Brooklyn, NY								N/A			1_					
Drilling Co	ompan		_				Date Started	d					Da	te Fi	nished			
Drilling Ed	auinm/	Eastern Environmen	tal				Completion	Dent	h	2	/15/16		Po	ck D	enth		2/15/16	
אוווווים בע	quipitit	Geoprobe 7822 DT				[	Completion	υ <del>c</del> hι	u I		30 ft		100	OK DI	υριιι		N/A	
Size and	Туре					+	Nh mah	<b>-</b>	.1	Dist	urbed		Н	Undi	sturbed		Core	
		N/A					Number of S	Samp	oles			2				N/A		N/A
Casing Di	iamete	er (in) N/A		Ca	asing Depth (ft) N/A		Water Leve	l (ft.)		First		9.9		Com	pletion	N/A	24 HR.	N/A
Casing H	amme		Weight (lbs)	NI/A	Drop (in) N/A		Drilling Fore	man		1 <del>-</del>	•	0.0		_ <del>_</del>		14/73	1	14/74
Sampler				N/A	N/A				Е	ddie	Gallo							
		5' Stainless Steel 2"	I.D. Macrocore Weight (lbs)		Dron (in)	_	Field Engine	eer										
Sampler I	Hamm	er N/A	vveignit (ibs)	N/A	Drop (in) N/A				Α		Goldb							
SIAL OL	Elev.					PID Reading	E Depth	<u></u>	T		mple Da		/alue	$\dashv$		Re	emarks	
MATERIAL SYMBOL	(ft)	Sa	imple Descripti	ion		) Reg	Scale	Number	Type	ecov (in)	Penetr. resist BL/6in	(Blo	ws/ft	)	(D		d, Depth of Iling Resista	Casing,
≥ "		(0.0%) ACDUALT				l II	<u> </u>	ž	-	œ	<u> </u>	10 20	30 4	40				ance, et
	-	(0-3") ASPHALT R1a (3-35") Brown	. fine SAND little	e coal as	h. brick	0.0	‡ * :	1							Sta	rt at 81	5	
$\times\!\!\times\!\!\times$		and silt (dry) [FILL		- Jour 43	, 2.701	0.0	L 1 _	†										
$\times\!\!\times\!\!\times$						0.0		}										
		R1b (35-37") Grey	fine subangular	· CDA\/E	l (dn/)	0.0			ORE									
$\times\!\!\times\!\!\times$		[FILL]	, mie subaligulai	CIVAVE	∟ (ui y)	0.0	F .	-	300	43/60								
$\times\!\!\times\!\!\times$		R1c (37-43") Black	medium-fine S	AND so	me coal	0.0	_ 2 _	1	MACROCORE	4								
		ash and brick (dry)		7 (1 <b>1</b> D, 30)	ine oour	0.0	- ·		_									
							- 4 -	1										
							‡ :	†										
		DO (0.40II) O					<del>-</del> 5 -											
		R2a (0-12") Grey,	medium-fine SAI	ND (dry)	[FILL]		Ė											
		R2b (12-24") Redo	lish to white mot	tled, med	lium-fine		- 6 -	1										
		SAND, some slag,	coal ash, and b	lack woo	d (moist)		E :	-	щ									
>>>>		[FILL]					- 7 -		MACROCORE	93								
							E .	7	CRO	24/60								
>>>>						0.0	8 -		MA									
						0.0	F - '											
$\times\!\!\times\!\!\times$						0.0	1 [	}										
$\bowtie$					$\overline{\Delta}$		2 🛓 📑	1_										
							10 -	_										
XXX							11 -	1										
XXX		R3a (0-8") Dark gr ash and wood (we	ey, medium-fine	SAND, s	ome coal		ŧ'':	=										
$\bowtie$		asii aliu woou (we	י, ני יבב]			0.0	12 – 12 –	+	낊									
XXX						0.0	F :	က	SOCC	28/60								
	-	R3b (8-18") Reddi	sh-brown fine SI	LT. fine	small	0.0	12		MACROCORE	28								
		subangular gravel	(wet)			0.0	' [ :	-	Σ									
		R3c (18-28") Dark (wet)	grey, fine SILT,	trace coa	arse sand	0.0	14	1										
		(wei)				0.0	F .	1										
						0.0	15	1										
							F :	1										
		R4a (0-4") Reddisl	n-arev fine sand	v SII T /v	vet)		_ 16 -	1										
		Nta (U-4 ) Reudisi	i-grey, line Sand	y JILI (V	vet)		<u> </u>	+										
							17	1	ORE	0								
		R4b (4-28") Dark g	rev SILT (wet)			0.0	, E	4	MACROCORE	28/60								
		1170 (7-20 ) Dalk (	ncy, OILI (WEL)			0.0	10	1	1ACF	Ñ								
						0.0	' [ :	1	2									
						٦.٠		+			1							
						0.0	ր <u> </u> 19 -	1										



Log of Boring **SB18** Sheet 2 of 2 Project Project No. 450 Union Street 170301202 Location Elevation and Datum N/A Brooklyn, NY PID Reading (ppm) Sample Data Remarks Depth Scale Elev N-Value (Blows/ft) Recov. (in) Penetr. resist BL/6in Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) 10 20 30 40 20 21 R5 (0-18") Dark grey, SILT, some coal tar product, NAPL globules and wood (wet) 22 23 9.3 14.6 24 Naphthalene-like odor -22.7 Report: Log - LANGAN possibly treated wood 25 R6a (0-25") Dark grey, fine sandy SILT, some coal 28.1 26 tar product (wet) 36 27 Sample 27-29' at 1145 83 38/60 Full List 39 DUP 2 at 27-29' 28 R6b (25-38") Light grey, silty CLAY, some coal tar product (moist) 40 Full List 37.3 Naphthalene-like odor 29 41.1 39.2 30 ILANGAN.COMIDATAINYCIDATA2/170301202/ENGINEERING DATAIENVIRONMENTAL/GINTLOGS/170301202\_021216.GPJ... EOB at 30' 31 32 33 34 35 36 37 38 39 40 42 43

LANGAN

Project						Р	roject	No.											
		450 Union Street									1703	301202	2						
Location						E	levatio	on and	d Dat										
Deillin C		Brooklyn, NY					ot- O	ort- '			N/A			Г.	+c =	الماجاء			
Drilling C			atal			D	ate St	arted			0	17/10		Da	te F	inished		0/47/40	
Drilling Ed		Eastern Environme	ntal			-lc	omple	tion D	)epth	1	2/	17/16		Ro	ck [	Depth		2/17/16	
9 =		Geoprobe 7822 DT						5.1 0	-			40 ft						N/A	
Size and	Туре о	f Bit				l <sub>N</sub>	lumber	r of Sa	amnl	es	Distu	ırbed		1	Und	disturbed		Core	
Casing D		N/A r (in)		C	asing Depth (ft)	-					First		2		Con	npletion	N/A	24 HR.	N/A
		N/A			NI/A		/ater L	_evel (	(ft.)		Z Z		9.9		V V	- '	N/A	<u>T</u>	N/A
Casing H	ammer	N/A	Weight (lbs)	N/A	Drop (in) N/A	D	rilling l	Foren	nan			_							
Sampler		5' Stainless Steel 2'	' I.D. Macrocore			-	ield Er	nginor	or.	E	ddie	Gallo							
Sampler I			Weight (lbs)	N/A	Drop (in) N/A		iciu Eľ	igiriee	<b>7</b> 1	Δ	dam	Goldb	era						
٠ ـ ـ		IN/A	1	13/73	IN/F	bu.						nple Da							
MATERIAL SYMBOL	Elev.	S	ample Descript	ion		PID Reading (ppm)	De	pth	per	Туре	٥٥ (ح	etr. ist 6in	N-\	/alue	$\lceil \rceil$	(F		emarks id. Depth of	Casing
SY.	(ft)	G	, y = 300pt	-		PIDI9	30	.	Number	Ty	Rec	Penetr. resist BL/6in	10 20		' I	Fluid	d Loss, Di	id, Depth of filling Resista	ance, etc
<>>>		(0-3") ASPHALT		AND			‡ (	」 								Sta	rt at 10	000	
XXX		R1a (3-23") Brow gravel and silt [FI	n, medium-tine S LL1	AND, little	e tine	0.0	Ė,	1 =											
XXX		R1b (23-30") Gre		L, brick [	FILL]	0.0	Ė '	. 月											
XXX		D10 (20 40!!) D =!	chrough to blast	modium '	fino	0.0	- 2	2 -		ORE									
		R1c (30-40") Dark SAND, some bric				0.0	Ē	=	_	30C	40/60								
XXX		,		- 1	•	0.0	- 3	3 🚽		MACROCORE	4								
XXX						0.0	Ė	4		_									
							F 4	4 🚽											
XXX							Ė	_ =											
XXX		R2a (0-9") Dark b	rown, medium-fir	ne SAND,	little silt,		- 5	5 寸											
XXX		wood, and brick (	moist) [FILL]				Ė,	, =											
XXX		R2b (9-11") Dark	grey, coarse to fi	ne GRAV	'EL (dry)		- 6	, <u> </u>											
XXX		[FILL]		04::-			F 7	7 🗐		JRE	_								
XXX		R2c (11-24") Ligh (moist) [FILL]	τ grey, medium-fi	ne SAND	, little silt	0.0	Ė ,	=	2	SOCC	28/60								
		R2d (24-28") Darl	k brown to black	medium-	fine	0.0	- 8	3 🚽		MACROCORE	2								
$\times\!\!\times\!\!\times$		SAND, some coa				0.0	Ė	4		_									
XXX						0.0	- 6	9 ∃											
XXX					$\bar{\Sigma}$	0.0	Ē.	<u>_</u> =											
XXX							1	0 🖠											
							_ 1	Į,											
XXX							<b>†</b> '	' =											
XXX		D0= (0.40ll) D = 1	hannan marantina S	CANI	)	0.0	- 1	2		ORE									
		R3a (0-16") Dark brick and ash (we	brown, medium-f t) [FILL]	ine SANL	, some ר	0.0	Ė	=	3	30C	42/60								
		R3b (16-30") Blac	·	ilt. mediu		0.0	- 1	3 🚽		MACROCORE	4								
		plasticity (moist)	, 02 , 11400 3	,		0.0	Ė	Ⅎ		_									
		D26 (20 40!!\ D=-	grov CIII -	o olov III	lo fino	0.0	F 1	4 =											
		R3c (30-42") Dark sand	cyrey, SILT, trac	e ciay, iltt	ie iiile	0.0	Ē.	_ =											
						1	1	5 🖠											
						0.0	_ 1	الله ع											
		R4a (0-12") Dark medium sand (we	grey, SAND, som	ne silt, littl	le	0.0	ļ '	J											
		medium sand (We	;( <i>)</i> [FILL]			0.0	- 1	7 🗐		JRE	_								
		D46 (40 40!!\ D!	diah braum	ly OII T +		0.0	ļ '	. =	4	MACROCORE	54/60								
		R4b (12-43") Red medium sand, sc	uisn-brown, sand hist fragments (w	ıy Sı∟ı, tr et)	ace	0.0	- 1	8 =		1ACF	5								
		, <b>~</b>	J 3 (	,		0.0	F	Ę		2									
		<b></b>				0.0	- 1	9 🚽											
	- 1	R4c (43-53") Grey																	



Log of Boring **SB19** Sheet 2 of 2 Project Project No. 450 Union Street 170301202 Location Elevation and Datum N/A Brooklyn, NY PID Reading (ppm) Sample Data Remarks Elev N-Value (Blows/ft) Depth Recov. (in) Penetr. resist BL/6in Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale 10 20 30 40 20 21 Soft silts, rods pushed right No Recovery through 22 09/0 23 24 -OGS\170301202\_021216.GPJ ... 8/24/2016 11:55:35 AM ... Report: Log - LANGAN 25 2.3 R6a (0-17") Dark grey, silty CLAY (wet) 26 2.7 13.4 27 Sample 27-29' at 1300 88.3 R6b (17-44") Ligh grey, sandy SILT, product (wet) 58/60 Full List 380.7 28 220 Strong naphthalene-like odor Sheen observed 30.7 R6c (44-58") Dark grey, silty CLAY (wet) 29 61 20.1 30 Casing set at 30' R7a (0-23") Dark grey, SILT, little sand (wet) 0.4 31 4.2 1.4 32 Odor, NAPL, sheen R7b (23-36") Dark to light grey, SILT (wet) 8.0 1.3 33 Sample 33-34' at 1315 4.7 R7c (36-48") Light grey, SILT, trace clay and NAPL Full List (wet) 40.3 34 110 R7d (48-56") Dark grey, CLAY, some silt, medium plasticity (moist) 16 \\LANGAN.COM\DATA\NYC\DATA2\170301202\ENGINEERING DATA\ENVIRONMENTAL 10.2 35 R7e (56-60") Grey, fine SAND, some silt (wet) 36 MACROCORE 37 End at 1330 38 R8a (0-13") Grey, medium-fine SAND, trace silt (wet) NAPL, sheen, naphthalene-like odor 39 R8b (13-19") Grey, fine SAND, with NAPL (wet) 0.4 0.4 EOB at 40' 42 43



RGB-1 Log of Boring Sheet of 3 ENGINEERING & ENVIRONMENTAL SERVICES Project Project No. 170301202 450 Union Street Elevation and Datum Location Approx. 12.5 (NAVD) Brooklyn, N.Y. Drilling Agency Date Started Date Finished ADT 7/19/16 7/19/16 **Drilling Equipment** Completion Depth Rock Depth Truck Mounted CME 45 Rig 52 ft Size and Type of Bit Disturbed Undisturbed Core Number of Samples 3 7/8" Tricone Roller Bit 14 0 Casing Diameter (in) Casing Depth (ft) 24 HR. First Completion Water Level (ft.)  $\mathbf{V}$ 6 Weight (lbs) Drop (in) Drilling Foreman Casing Hammer Automatic 140 Dave Sampler 2" O.D. Split Spoon Inspecting Engineer Report: Log - LANGAN ... Template TEMPLATE-KT Sampler Hammer Weight (lbs) Drop (in) Automatic 140 30 Frank A. Cimmino Sample Data Building Code MATERIAL SYMBOL Remarks Elev Depth Recov. (in)
Penetr. resist BL/6in (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale +12.5 10 20 30 40 0 12 1 19 SS S-1 16 **Drill through Concrete** Brown m-f SAND, some Brick, trace Silt, (moist) 19 2 S-1 @ 0.5 to 2.5 [FILL] 14 18 3 S-2 @ 2.5' to 4.5' S-2 18 7 Drill to 5' 23 Brown-Black Wash COM/DATA/NY/DATA2/170301202/ENGINEERING DATA/GEOTECHNICAL/GINTLOGS/5635005.GPJ ... 9/2/2016 12:52:44 PM ... Brown - Black c-f SAND, trace Silt, trace Brick, Smooth Drilling 12 (moist) [FILL] 5 Class 7 S-3 SS 7 20 S-3 @ 5' to 7' Brown m-f SAND, trace c-Sand, trace Silt, trace 4 Brick, (wet) [FILL] 2 2 17 SS S-4 @ 7' to 9' Drill to 9' No Recovery 5 4 Brown Wash 9 5 Slight Rig Chatter 6 S-5 SS 10 0 S-5 @ 9'-11' Brown - Black mif SAND, some Silt, some Brick, 10 Install Casing to 10' trace Wood, (wet) [FILL] 14 Drill to 15' +1.5 Brown Wash Smooth Drilling 12 13 14 15 WOH Class 16 S-6 @ 15'-17' Black CLAY, some Brown f-Sand, (wet) [CL] Drill to 20' 1 Black Wash 17 Smooth Drilling 18 19

20



RGB-1 Log of Boring Sheet of 2 3 ENGINEERING & ENVIRONMENTAL SERVICES Project Project No. 450 Union Street 170301202 Location Elevation and Datum Brooklyn, N.Y. Approx. 12.5 (NAVD) Sample Data Building Code Remarks Elev. (ft) N-Value (Blows/ft) Depth Penetr. resist BL/6in Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Scale 10 20 30 40 20 S-7 SS 21 က S-7 @ 20' to 22' No Recovery Drill to 22' 1 Black Wash 22 Smooth Drilling Class 7 24 23 U-1 @ 22' to 24' Black Sandy CLAY, (wet) [OH] 24 WOH WOH SS 25 20 S-8 @ 24' to 26' Drill to 26' Black Organic CLAY, some Wood Fibers, (wet) [OH] WOH WOH Black Wash 22' to 25' -13.5 26 Report: Log - LANGAN Brown Wash 25' to 26' 2 Smooth Drilling 1 24 27 S-9 @ 26' to 28' Grey f-SAND, trace Silt, Product Odor and slight 5 Install Casing to 26' Staining, PID = 0.4 ppm, (wet) [SP] Drill to 30' 28 Brown Wash Smooth Drilling . 9/2/2016 12:52:45 PM .. 29 Class 30 1 3 24 0 31 S-10 @ 30' to 32' Brown m-f SAND, trace Silt, Product Odor and slight Staining, PID = 1.6 ppm, (wet) [SP] Drill to 35' 9 Brown Wash /LANGAN.COM/DATA/NY/DATA2/170301202/ENGINEERING DATA/GEOTECHNICAL/GINTLOGS/5635005.GPJ .. 32 Smooth Drilling 33 -21.0 34 35 SS Class 7 36 Grey m-f SAND, trace Silt, Product Odor and slight S-11 @ 35' to 37' Drill to 40' Staining, PID = 0.7 ppm, (wet) [SP] 9 Grey Wash 37 Smooth Drilling 38 -26.0 39 2 3 Class 9 S-12 @ 40' to 42' Grey m-f SAND, some Silt, Product Odor and heavy 6 Drill to 45' Staining, PID = 20.5 ppm, (wet) [SP] 9 Grey Wash 42 Smooth Drilling 43 -31.0 Class



RGB-1 Sheet Log of Boring 3 of 3 **ENGINEERING & ENVIRONMENTAL SERVICES** Project No. Project 450 Union Street 170301202 Location Elevation and Datum Brooklyn, N.Y. Approx. 12.5 (NAVD) Sample Data Building Code Remarks Elev. (ft) Depth Scale N-Value (Blows/ft) Recov. (in) Penetr. resist BL/6in Sample Description (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) 10 20 30 40 45 S-13 8 24 46 S-13 @ 45' to 47' Brown m-f SAND, trace Silt, Product Odor and slight 9 Drill to 50' Staining, PID = 10 ppm, (wet) [SP] Class 8 Brown Wash **Smooth Drilling** NLANGAN. COMIDATAINYIDATA2/170301202/ENGINEERING DATA/GEOTECHNICAL/GINTLOGS/6635005.GPJ ... 9/2/2016 12:52:46 PM ... Report: Log - LANGAN ... Template TEMPLATE-KT. GDT 48 -36.0 49 50 Class 12 24 S-14 @ 50' to 52' Brown SILT, trace f-Sand, Product Odor and slight 15 Staining, PID = 5.0 ppm, (wet) [ML] 18 -39.5 52 End of Boring @ 52' 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69



RGB-2 Log of Boring Sheet of 3 Project Project No. 450 Union Street 170301202 Location Elevation and Datum Approx. 12.5 (NAVD) Brooklyn, N.Y. Date Started Drilling Agency Date Finished ADT 7/19/16 7/11/16 **Drilling Equipment** Completion Depth Rock Depth Truck Mounted CME 45 Rig 60 ft Size and Type of Bit Disturbed Undisturbed Core Number of Samples 3 7/8" Tricone Roller Bit 17 0 0 Casing Depth (ft) 24 HR. Casing Diameter (in) First Completion Water Level (ft.)  $\mathbf{V}$ 26' 6 Weight (lbs) Drop (in) Drilling Foreman Casing Hammer 30 Automatic 140 Dave Sampler 2" O.D. Split Spoon Inspecting Engineer Report: Log - LANGAN ... Template TEMPLATE-KT Sampler Hammer Weight (lbs) Drop (in) Automatic 140 30 Frank A. Cimmino Sample Data Building Code MATERIAL SYMBOL Remarks Elev Depth (in) Penetr. resist BL/6in (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Sample Description (ft) Scale +12.5 10 20 30 40 8 SS S-1 16 Drill through Concrete Brown c-f SAND, trace Silt, (moist) [FILL] 11 2 S-1 @ 0.5 to 2.5 8 Drill to 3' Brown Wash 3 Smooth Drilling S-2 @ 3' to 5' S-2 SS 22 7 .COM\DATA\NY\DATA2\170301202\ENGINEERING DATA\GEOTECHNICAL\GINTLOGS\5635005.GPJ ... 9/2/2016 12:52:51 PM ... Brown - Red c-f SAND, trace Silt, (moist) [FILL] 16 17 5 8 Class S-3 17 SS 20 S-3 @ 5' to 7' Brown c-f SAND, some Silt, (wet) [FILL] 20-Install Casing to 7' 28 Drill to 7' Brown Wash Slight Rig Chatter SS 8 S-4 @ 7' to 9' No Recovery 3 Install Casing to 9' 3 Drill to 9' 9 5 Brown Wash Slight Rig Chatter 3 S-5 0 S-5 @ 9'-11' No Recovery 2 Install Casing to 15' 2 Drill to 15' Brown Wash Smooth Drilling +0.5 12 13 14 Class 2 16 S-6 @ 15'-17' Brown c-f SAND, trace Silt, (wet) [SP] 2 Drill to 20' 1 Brown Wash 17 Smooth Drilling -5.5 18 Class 19

20



RGB-2 Log of Boring Sheet 2 of 3 ENGINEERING & ENVIRONMENTAL SERVICES Project Project No. 450 Union Street 170301202 Elevation and Datum Location Brooklyn, N.Y. Approx. 12.5 (NAVD) Sample Data Building Code Remarks N-Value (Blows/ft) Elev. Depth Penetr. resist BL/6in Number Sample Description Recov. (in) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) (ft) Scale 10 20 30 40 20 WOH WOH S-7 SS က 21 S-7 @ 20' to 22' Black Organic CLAY, some f-Sand, (wet) [CL] WOH 1 22 Class S-8 2 24 23 S-8 @ 22' to 24' Black Organic CLAY, some f-Sand, some shells and Drill to 24' plant fibers, (wet) [OH] 3 Black Wash 24 WOH Smooth Drilling Top: Black Organic CLAY, some f-Sand, some shells -12.5 SS 25 20 S-9 @ 24' to 26' Install Casing to 26' and plant fibers, (wet) [OH] 3 Bottom: Black f-Sandy CLAY, Product Odor and 4 Drill to 26' slight Staining, PID = 1.0ppm, (wet) [CL] 26 Black Wash Smooth Drilling S-10 7 24 27 12 S-10 @ 26' to 28' Grey f-Sandy CLAY, Product Odor and slight 5 Install Casing to 30' Staining, PID = 2ppm, (wet) [CL] 6 Drill to 30' 28 Grey Wash Smooth Drilling 29 Class 4b 30 7 9 24 31 S-11 @ 30' to 32' Grey f-Sandy CLAY, Product Odor and slight 11 Install Casing to 35' Staining, PID = 1.0 ppm, (wet) [CL] 13 Drill to 35' 32 Grey Wash Smooth Drilling COMIDATAINYIDATA21170301202\ENGINEERING DATA\GEOTECHNICAL\GINTLOGS\5635005 33 34 35 SS 10 Class 7 36 Grey f-SAND, some Silt, Product Odor and slight S-12 @ 35' to 37' 10 Install Casing to 40' Staining, PID = 0.3 ppm, (wet) [SM] 11 Drill to 40' 37 Grey Wash Smooth Drilling -25.5 38 39 40 Class 1 S-13 @ 40' to 42' Brown CLAY, some f-Sand, Product Odor and slight Install Casing to 45' Staining, PID = 1.5 ppm, (wet) [CL] 3 Drill to 45' 42 Grey Wash Smooth Drilling 43 Class



9/2/2016

RGB-2 Log of Boring Sheet of 3 3 **ENGINEERING & ENVIRONMENTAL SERVICES** Project No. Project 450 Union Street 170301202 Location Elevation and Datum Brooklyn, N.Y. Approx. 12.5 (NAVD) Sample Data Building Code Remarks Elev. (ft) Depth N-Value (Blows/ft) Penetr. resist BL/6in Sample Description Recov. (in) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) Scale 10 20 30 40 45 WOH S-14 6 24 46 S-14 @ 45' to 47' Install Casing to 50' Drill to 50' Brown f-Sandy CLAY, Product Odor and slight Staining, PID = 10 ppm, (wet) [CL] 8 Brown Wash Smooth Drilling 48 49 50 3 Class 24 S-15 @ 50' to 52' Brown f-Sandy CLAY, Product Odor and slight 8 Staining, PID = 5.3 ppm, (wet) [CL] 9 52 11 12 53 S-16 @ 52' to 54' Drill to 58' Brown f-Sandy CLAY, Product Odor and slight Staining, PID = 4.3 ppm, (wet) [CL] 15 16 Brown Wash 54 Smooth Drilling Install Casing to 58' 55 -43.5 56 57 VILANGAN.COMIDATAVINYIDATA2/170301202/ENGINEERING DATA/GEOTECHNICAL/GINTLOGS/5635005.GPJ Class 3b 58 9 16 59 S-17 @ 58' to 60' Brown c-f SAND, some Silt, (wet) [SP] 7 14 -47.5 60 End of Boring @ 60' 61 62 63 64 65 66 67 68 69

Project		/VĽ	<b>4</b> /	4/ <b>V</b>		Lo		Boring roject No.	_		SB2E	1			Sheet	1	of	1
roject		450 Union St	reet					oject NO.			17030°	1202						
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ımıy E	.quipm	ent Geoprobe 78	22 DT					ompletion	⊳ept	.11		8 ft	K	ook I	pehili		N/A	
Size and	Type						N	umber of	Samp	oles	Disturbe	ed	4	Un	disturbed N	/A	Core	N/A
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ampler	Hamm	or	N/A	Weight (lbs)	N/A	Drop (in) N/A		-20011191			dam G							
RIAL	Elev.		_				PID Reading (ppm)	Depth	ē			le Data	N-Valu	e	-		emarks	
MATERIAL SYMBOL	(ft)		S	ample Descrip	tion		PID Re (ppr	Scale	Number	Type	Recov. (in) Penetr.	BL/6i	(Blows/	ft)	(Drillin Fluid Lo	ng Fluid ss, Dri	d, Depth of lling Resist	Casing, ance, etc.
***		(0-4") ASP						<del> </del> 0 -	+-				20 30	70	Start a	at 14	15	
$\ggg$				edium-fine SANI green-blue fragn			0.1	- 1 -	=						Samn	le 0.	5-2' at 1	420
$\ggg$		R1b CONC	RETE	(dry) [FILL]			0.1	-	=	CORE	48						l Lead	
$\ggg$		R1c Reddis	sh-brov	vn, medium-fine	SAND (	moist)	0.1	_ 2 -	]	MACROCORE	24/48						4' at 124 I Lead	15
XX		[i icc]						- 3 -	=	Ž								
$\ggg$								-	=									
								<b>- 4</b> -										
$\Longrightarrow$		R2a (0-20"	) Dark	grey, medium-fir	ne SANE	D, some	0.1	5 -	=	ш							6' at 142	27
XX		coal ash, tr	ace sil	t (dry) [FILL]			0.1	6 -	2	MACROCORE	36/48						l Lead	
$\Longrightarrow$		R2b (20-24 [FILL]	") Whi	te to light tan, fin	e SAND	(moist)	0.1		``	MACR	36						8' at 143 I Lead	30
$\ggg$		R2c (24-36		grey to black, fi	ne SAN	D, some $\frac{}{}$	0.1	7 -		2								
		silt (wet) [F	ILL]				0.1	8 -	1						End a	t 143	5	
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Σ̈́ω		(0-4") AS	ΡΗΔΙ Τ				]E	<u> </u> 0 -	Z Z	-	X   Y	1	0 20 3	0 40				stance, et	iC.
		R1a (4-10	0") Dark	brown, medium	-fine SAN	ID, little	0.1	<u> </u>	-						Start	at 14	130		
				ash (dry) [FILL] NCRETE (dry) [f	FILL]		0.1	1 -	7	JRE							.5-2' at 1 al Lead	1435	
		•	,	it grey, medium-	-	D (dry)	0.1	_ 2 -	-	MACROCORE	33/48						-4' at 14	40	
		[FILL]	, Ligit	<sub>3</sub> .0 <sub>1</sub> ,ouiuili-	0, 114	- (wij)	0.1	<u> </u>	1	MAC	(n)						al Lead		
		R1d (25-3 (dry) [FIL		ldish-brown, fine	SAND, I	ittle silt		3 -	=										
		(dry) [r iL	<u>-</u> ]					4 -	_			_							
									=										
		R2a (0-1	2") Light	grey, fine GRA\	/EL [FILL	-]	0.1	5 -	=	R							-6' at 14 al Lead	45	
$\ggg$		D2h (12 )	10"\ Darl	k grey, medium-	fina SAN	D. somo	0.1	6 -	~	MACROCORE	40/48						-8' at 14	50	
$\ggg$		coal ash,	trace br	rick (moist) [FILL	.]	D, some	0.1	_	=	MACI	4				MS/N	ISD :	at 1450 al Lead		
							0.1	F 7 -	=										
<b>XXX</b>							0.1	8 -	<del>]</del>						End a		55		
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rilling E		ent Geoprobe 78	322 DT					ompletion	Dept	n	8	3 ft	R	OCK L	Depth		N/A	
ize and							Nı	umber of S	Samp	les	Disturbed		4	Und	listurbed	l/A	Core	N/A
Casing D	Diamete	er (in)			(	Casing Depth (ft)	w	ater Leve	l (ft.)		First				npletion		24 HR.	
Casing F	lamme	N/A r <sub>NI/A</sub>		Weight (lbs)	N/A	Drop (in) N/A		rilling Fore			Ι <u>Σ</u>	N	/A	Y	_ N	I/A	$ar{ar{ar{\Lambda}}}$	N/A
ampler			Steel 2"	I.D. Macrocore	IN/A		ļ.,	specting E	- - - -		ddie Gal	lo						
Sampler		or	N/A	Weight (lbs)	N/A	Drop (in) N/A		apecing b	-ngin		dam Go	ldber	g					
ఠ	Elev.						ading (r	Depth	بز		Sample	Data				Re	marks	
MATERIAL SYMBOL	(ft)		S	ample Descrip	tion		PID Reading (ppm)	Scale	Number	Type	Recov. (in) Penetr. resist	BL/6in	N-Value (Blows/f	t)	(Drillin Fluid Lo		d, Depth of	Casing, ance, etc.
<b>XXX</b>		(0-2") ASP	HALT				_	<u> </u>	_			10	20 30	40	Begin			
$\bowtie$		R1a (2-14' brick and g	) Dark	grey, medium-fir	ne SAND	), some	0.1	1 -							_		5-2' at 1	400
$\ggg$				dish-brown, fine	SAND, t	race silt	0.1	E		MACROCORE	84						l Lead	<del>1</del> 00
XX		[FILL]	•				0.1	2 -	-	CRO	20/48							
		R1c (22-30 [FILL]	)") Ligh	t grey, medium-f	ine SAN	D (dry)	0.1	3 -		MA					Samn	le 2-	4' at 140	15
							0.1										Lead	,0
$\ggg$								4 -										
		R2a (∩-12'	') Dark	grey, medium-fir	14 SAND	) (dry)		5 -							Samp	le 4-	6' at 141	0
		[FILL]	) Dank	grey, mediam m	10 07 11 12	(ury)		-	1	MACROCORE	48						l Lead	
		R2b (12-16	6") Whit	te, fine GRAVEL	(dry) [F	ILL]	0.1	6 -	7	ACRO	24/48						3' at 141 I Lead	5
		R2c (16-20	)") Dark	grey to black, n	nedium-f	ine SAND	0.1	7 -		Ň								
		(moist) [FI	LĹ]	<b>3</b> - <b>7</b> ,			0.1	8 -							End a	t 142	0	
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rilling E	quipme	nt					Completion [	Depth	1	. 3, .0		Rock	Depth		
ina cort	T :	Geoprobe 540 B				4			1.	3 ft			a diaturba d	N/A	
ize and		N/A				١	Number of S	ampl	les   l	Disturbed	1	Ui	ndisturbed N/A	Core	N/A
asing D				(	Casing Depth (ft)		Nater Level	(ft.)	ı	First	N1/A		ompletion	24 HR.	
asing H		N/A	Weight (lbs)	NI/A	Drop (in) N/A	\	Orilling Forer	nan		<u>¥</u>	N/A	-	N/A	<u>Ā</u>	N/A
ampler			15.14	N/A	IN/F					die Gallo					
ampler l		4' Stainless Steel 2"	I.D. Macrocore Weight (lbs)		Drop (in) N/A	lı	nspecting E	ngine							
	lamine	N/A	1109.0 (000)	N/A	- · · · · · N/A	5			Ad	am Goldb Sample Da					
MATERIAL SYMBOL	Elev.	95	mple Descript	ion		teadin	Depth	per	φ		N-Va	alue	R(	emarks	Casina
SYN	(ft)	36	יייואוב הבפטוואו	1011		PID Reading (ppm)	Scale	Number	Туре	(in) Penetr. resist BL/6in	(Blow 10 20		(Drilling Flu Fluid Loss, Dr	illing Resista	oasing, ince, etc
A 7 4		(0-8") CONCRETE				<u> </u>	<u> </u>				.5 20	70	Start at 90	10	
	-	R1 (8-12") Dark gr	ov modium fir -	CVVID	oomo britis	0.0	_ L _ J								
>>>>		(moist) [FILL]	ey, medium-ime	SAND,	Some blick	0.1	F ' =		ORE	_			Sample 0.	5 2' at 01	5
$\bowtie$							2 -	_	30C	12/48			TCLP/Tota		J
							E 3		MACROCORE						
XXXX							3 -						Refusal at	3'	
							F , =						End at 100	00	
							- 4 -						EOB at 3'		
							5 -								
							F 3								
							6								
							<u> </u>								
							7								
							8 =								
							₽°∃								
							- 9 -								
							F 3								
							<del>-</del> 10 <del>-</del>								
							F ,, =								
							- 11 -								
							- 11 - - 12 -								
							F = 1								
							13								
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							15								
							16								
							- 13 - - 14 - - 15 - - 16 - - 17 -								
							17								
							18 -								
							F 7								
							<del>-</del> 19 <del>-</del>								

L	4	NLJ/	4/V		Lo	g of	f Bor	ing			SB	2R			Sheet	1	of	1
Project							Projec	t No.										
Location		450 Union Street					Elevat	tion an	d Da	tum		301202	2					
Drilling C	ompai	Brooklyn, NY				-	Date S	Started	I		N/A			Date I	Finished			
]	отпра	Eastern Environmen	tal				20.0	J. (3. 100			2/	/12/16				2	2/12/16	
Drilling E	quipm					,	Compl	letion I	Depth	า				Rock	Depth			
Size and	Tyne	Geoprobe 7822 DT									Dieti	12 ft urbed		Un	disturbed		N/A Core	
	,,	N/A				_	Numb	er of S	ampl	les			5		l	N/A		N/A
Casing E	iamet	er (in) N/A		C	asing Depth (ft) N/A		Water	Level	(ft.)		First		N/A	Co	mpletion	N/A	24 HR.	N/A
Casing F	lamme		Weight (lbs)	N/A	Drop (in) N/A		Drilling	g Forei	man		_				<del></del>			
Sampler		4' Stainless Steel 2"	I.D. Macrocore			L	Insner	cting E	naine		ddie	Gallo						
Sampler	Hamm		Weight (lbs)	N/A	Drop (in) N/A	$\Box$	порес	July L	rigirie		dam	Goldb	era					
4-1						gui					Saı	mple Da				Do.	marks	
MATERIAL SYMBOL	Elev. (ft)	Sa	mple Descript	ion		PID Reading	Î D B S	epth Scale	Number	Type	in).	Penetr. resist BL/6in	N-Va (Blow		(Drii			Casing, ance, etc.)
S W W	, ,	(0. 411) A O DI I A I T				∃ ∃	_	0 —	ž	_	8	9 E E	10 20	30 40	Fluid L	oss, Drill	ing Resista	ance, etc.)
\$		(0-4") ASPHALT R1a (4-21") Light b	rown medium-f	fina SANI	D trace	0.1	1											
		brick (dry) [FILL]	nown, mediam-i	IIIE SANI	D, liace	0.1	E	1 -		ш					Sam	ple 0.5	-2' at 13	340
Xeport:						0.1	1 =	_		COR	48				TCLI	P/Total	Lead	
$: \bowtie \bowtie \bowtie$		R1b (21-36") Dark	brown, medium	-fine SAN	ND, trace	0.1	-	2 -	_	MACROCORE	36/48					ple 2-4 P/Total	' at 134	2
		brick (dry) [FILL]				0.1	1 📙	3 -		M					l local	7 i Otai	Leau	
							Ė	=										
3/4/2016 6:02:13 PM							-	4 -										
		R2a (0-11") Grey, (moist) [FILL]	medium-fine SA	ND, trace	e brick	0.1	1 -											
:		R2b (11-27") Dark				0.1	1 🗐	5 -		씶						ple 4-6 P/Total	' at 134	5
021216.GPJ		medium-fine SANI (moist) [FILL]	J, some wood, a	ind coal a	asn	0.1	E	6 -	7	MACROCORE	40/48				ICL	-/ TOlai	Leau	
		R2c (27-29") White	e, fine GRAVEL	(dry) [FIL	.L]	0.1	-	_		ACR	40							
		R2d (29-40") Light	arev medium-fi	ine SANΓ	) trace	0.1		7 -		2					Sam	ple 6-8	' at 135	0
CGINITOGENT 70301202		gravel (moist) [FILI			,	0.1	1	=								P/Total R_FILL		
							F	8 -							JODZI	I ILL	.(0-0)	
							E	9 -										
							Ė			ORE	_							
₫		R3a (0-10") Grey,	coarse-fine SAN	ID little s	silt (wet)	0.1	1 📙	10 -	က	MACROC	28/48							
III		1104 (0 10 ) 010),		.D,	me (woe)	0.1		=		MAC	N							
<u> </u>		R3b (10-28") Redd	lish-grey, fine SA	AND, little	e silt (wet)	0.1	1 🖹	11 -							End	at 135	5	
AEN						0.1		12 -										
A C							Ė								EOB	at 12'		
							E	13 -										
							Ė	=										
ENG ENG							F	14 -										
1202							E	15 -										
7030							Ė	-										
AZY							F	16 -										
Į.							Ė	Ξ										
N N							F	17 -										
DAL							Ė	18 —										
ON ON							Ė											
NLANGAN.COMIDATANYCODATAZ170301202/ENGINEERING DATAIENVIRONMENTAL							F	19 -										
TAN							Ė	=										
						_		20 <del>-</del>			$\perp$				1			

L	4	/VLI/	1/V		Lo	g of B	oring			SB	2S1			Sheet	1	of	1
Project		450 Haine Oterat				Pro	oject No.			470	004000						
Location		450 Union Street				Ele	vation ar	nd Dat		170	301202	<u> </u>					
Daillin a C		Brooklyn, NY				D-	te Starte			N/A			D-4- F				
Drilling C	ompar	ıy Eastern Environment	al			Da	te Starte	a		2	/12/16		Date F	inished	;	2/12/16	
Drilling E	quipme	ent	-			Co	mpletion	Depth	1				Rock I	Depth			
Size and	Type	Geoprobe 7822 DT				-				Dist	8 ft urbed		Une	disturbed	<u> </u>	N/A Core	
Casing D		N/A		C	asing Depth (ft)		mber of S		es	Firs		5		mpletion	N/A	24 HR.	N/A
		N/A		C	NI/A		ater Leve	` '				N/A	Z		N/A	<u>T</u>	N/A
Casing F	lamme	<sup>r</sup> N/A	Weight (lbs)	N/A	Drop (in) N/A	Dri	lling Fore	eman	F	ddia	Gallo						
Sampler		4' Stainless Steel 2" I	.D. Macrocore Weight (lbs)		Drop (in)	Ins	pecting E	Engine		uuic	Cano						
Sampler	Hamm	er N/A	VVeigrit (ibs)	N/A	Drop (in) N/A	5			A		Goldbe						
MATERIAL	Elev.	Sa	mple Description	1		Reading (ppm)	Depth	per				N-Va (Blow	alue	, ,		marks	Casing
MAT	(ft)		mpie Becompaien	•		PID P	Scale — 0 –	Number	ķ	Rec (in	Penetr. resist BL/6in	10 20	,	Fluid	d Loss, Dril	ling Resist	Casing, ance, etc.)
		(0-4") ASPHALT		CANI	2	0.5								Sta	ırt at 130	00	
		R1a (4-12") Light b	al ash (dry) [FILL]		D, Some	0.3	_ 1 -	1	щ						mple 0.5		305
		R1b (12-14") GLAS	( ), :	•		0.2	_ 2 -		COR	30/48					LP/Tota		_
		R1c (14-30") Dark brick, glass and coa		e SAN	ID, some	0.2		₫	MACROCORE	30				Sar TC	mple 2-4 LP/Tota	l' at 131 I Lead	0
		, 3	( ), [			0.1	_ 3 -	1	2								
							_ 1										
		R2a (0-20") Dark bi	rown, medium-fine	SANI	O, some	0.1	- <b>*</b>										
		brick and coal ash (R2b (20-26") White		(dry)	[FILL]	0.1	5 -	1	щ						mple 4-6		5
		, ,				0.1	_ _ 6 -	7	MACROCORE	46/48					P 4-6 at LP/Tota		
		R2c (26-46") Dark ( some coal ash, woo				0.1	_	₫``	IACR	46				Sar	mple 6-8	R' at 131	3
		,	, 3	•	,	0.1	7 -		2					TC	LP/Tota	Lead	·
						0.1	- - 8 -							End	d at 131	5	
							_							EO	B at 8'		
							9 -										
							_ 10 -										
							_ 11 -	]									
							11										
							- · <del>-</del>										
							_ 13 -										
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							_ 18 -										
							19 -										
							_ 20 _										

LANGAN

LAIVUAIV	Log	of Boring	SB2S2	Sheet 1 of 1
Project 450 Union Street		Project No.	170301202	
Location		Elevation and Datur		
Brooklyn, NY Drilling Company		Date Started	N/A	Date Finished
Eastern Environmental			2/12/16	2/12/16
Drilling Equipment  Geoprobe 7822 DT		Completion Depth	8 ft	Rock Depth N/A
Size and Type of Bit		Number of Samples	Disturbed	Undisturbed Core
N/A Casing Diameter (in) Casing D	epth (ft)	Water Level (ft.)	First 4	N/A N/A Completion 24 HR.
N/A  Casing Hammer N/A  Weight (lbs)  N/A  Drop	N/A (in)	Drilling Foreman	∑ 8	N/A Y N/A
Sampler  4' Stainless Steel 2" I.D. Macrocore	N/A		Eddie Gallo	
Sampler Hammer N/A Weight (lbs) N/A Drop	(in) N/A	Inspecting Engineer	r Adam Goldberg	
	14//		Sample Data	/alue Remarks
THE LEV. (ft) Sample Description	0	Depth Scale	Blog	ws/ft) (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
(0-4") ASPHALT			10 20	Start at 1315
R1a (4-8") Dark grey, medium-fine SAND, trace b	,,,,,,,	0.2		
(dry) [FILL] R1b (8-12") Light grey, medium-fine SAND, trace		).1  -		Sample 0.5-2' at 1320 TCLP/Total Lead
brick (dry) [FILL] R1c (12-14") Black, medium-fine SAND, trace brid		0.1	27/48	Sample 2-4' at 1325
(dry) [FILL] R1d (14-20") Brown, fine SAND, trace brick (dry)	(	0.1		TCLP/Total Lead
[FILL] R1e (20-27") Light grey, medium-fine SAND, trace	e			
brick (dry) [FILL]		4		Sample 4-6' at 1328
R2a (0-7") Dark grey to black, medium-fine SAND some coal ash (dry) [FILL]	),	5 =		TCLP/Total Lead
R2b (7-10") BRICK (moist) [FILL]				
R2c (10-17") Dark grey, SAND, some coal ash an	nd	6 - 0 80 - 6 - 6 80 - 6 80 - 7 80 - 8 80 - 80 -	17/48	Sample 6-8' at 1330 TCLP/Total Lead
brick (wet) [FILL]		0.1		TOLF/TO(a) Leau
		0.1		End at 1335
	<u></u>	8 =		EOB at 8'
		9 -		
		- 10 - -		
		11 =		
		F 40 =		
		12		
		13		
		E 3 1		
		- 14 -		
		15		
		16		
		17		
		18 -		
		F 1		
		<u> </u>		

L	_/	4	NG/	4/V		Lo	g o	of B	oring			SB2	:W1			Sheet	1	of	1
Pro	oject		450111 01 1					Pro	oject No.			4-04							
Loc	cation		450 Union Street					Ele	vation an	d Da	tum		301202	2					
Dri	lling C	ompai	Brooklyn, NY					Dat	te Started			N/A			Date	Finished			
Dri	lling E	auinm	Eastern Environment	tal				Col	mpletion I	Jonth		2/	12/16		Dook	Depth		2/12/16	
	Ū		Geoprobe 7822 DT						mpietion	Jepu			8 ft		ROCK	Берит		N/A	
Siz	e and	Туре	of Bit N/A					Nui	mber of S	amp	les	Distu	ırbed	4	Un	ndisturbed	N/A	Core	N/A
Ca	sing D	iamet	er (in) N/A		Ca	asing Depth (ft) N/A		Wa	ater Level	(ft.)		First		N/A		mpletion	N/A	24 HR.	N/A
Ca	sing H	amme		Weight (lbs)	N/A	Drop (in) N/A		Dril	lling Fore	man					- 1 -			-	
Sai	mpler		4' Stainless Steel 2"					Ins	pecting E	ngine		ddie	Gallo						
Sai	mpler	Hamm	ner N/A	Weight (lbs)	N/A	Drop (in) N/A				_	Α		Goldb			1			
NA ST	MATERIAL SYMBOL	Elev. (ft)	Sa	mple Descripti	ion		PID Reading	(mdd)	Depth Scale	Number	Туре		Penetr. resist aldu BL/6in aldu	N-Va (Blow	/s/ft)	(Drii Fluid L		emarks d, Depth of lling Resist	Casing, ance, etc.)
G-LANG			R1a (0-6") Brown, ı (dry) [FILL]	medium-fine SA	ND, som	e brick	0.		- 0 - 								at 12		
Report: Log - LANGAN			R1b (6-10") White,		_		0. 0.	·	- 1 - 	_	MACROCORE	18/48						5-2' at 12 I Lead	205
:KX			R1c (10-18") Black some wood, brick,	, medium-fine st and coal ash (dr	ained SA y) [FILL]	AND,	0.	.0	_ 2 _ - - - 3 _		MACRO	18/				Com	nlo O .	4! at 101	0
3/4/2016 6:02:19 PM			R2a (0-4") White, 0	GRAVEL (drv)					4 -									4' at 121 I Lead	U
:  ∑			R2b (4-11") Black,	medium-fine sta	ined SAI	ND, some			5 -		뿠							6' at 121	5
021216.GPJ			wood, brick, coal a [FILL] R2c (11-9") Dark b	rown, medium-fi		,	0.	ŀ	- 6 - - 6 -	2	MACROCORE	20/48				Sam	ple 6-8	l Lead 3' at 122 I Lead	0
			brick (moist) [FILL]				0.	.0	7 -		MA						at 122		
NLANGAN.COMIDATANYCIDATA2/170301202ENGINEERING DATA/ENVIRONMENTAL/GINTLOGS/170301202	<b>XXX</b>						0.	.0	8 -							EOB	at 12:	25	
-\GINTL(									9 -										
MENTA									10										
NVIRON									- 11 -										
DATA									12 -										
EERING									13 -										
NENGIN									14 -										
0301202									15										
41 A2/17									16										
NNYC'D.									17										
MDAT									18 -										
SAN.CO									19 -										
FANG									20 —										

roject							Ť		Boring oject No.				2W2			Sheet 1			
	4	150 Union S	treet						•			1703	301202	2					
ocation		One old All	,					Ele	evation an	d Da		NI/A							
rilling Cor		Brooklyn, N\	ſ					Da	te Started	l		N/A			Date	Finished			
		Eastern Env	ironmen	ıtal								2/	12/16				2/12	2/16	
rilling Equ								Со	mpletion I	Deptl	h		0.5		Rock	Depth			
ze and T	ype of	Geoprobe 78 Bit	322 D I								.	Distu	8 ft urbed		Ur	ndisturbed	Coi	N/A re	
asing Dia	1	N/A				Casing Depth (fl		Nu	mber of S	amp	les	Firet		4	0.5	N/A	24	HR.	N/A
_	1	N/A				N/	Δ	Wa	ater Level	(ft.)		First		7.6		mpletion N/A	<u></u>	_	N/A
asing Ha	mmer	N/A		Weight (lbs)	N/A	Drop (in) N/	Ά	Dri	Illing Fore	man	_		<b>.</b>						
ampler	4	1' Stainless	Steel 2"	I.D. Macrocore				Ins	pecting E	ngine		ddie	Gallo						
ampler H	amme	r	N/A	Weight (lbs)	N/A	Drop (in) N/	Ά						Goldbe						
ا د <u>چ</u>	lev.						ading	(mdd)	Depth	<u>_</u>			mple Da		luc	F	Rema	rks	
	(ft)		Sa	ample Descript	ion		D Rea	ndd)	Scale	Number	Type	(in)	Penetr. resist BL/6in	N-Va (Blow	s/ft)	(Drilling Fluid Loss, D	uid, Dep Orilling R	oth of Ca	sing, e. etc
2"		(0-4") ASP	PHAI T				₫		_ 0 _	Ž		œ.		10 20 3	30 40			Colotario	
	 	~ '		orown, medium-fi	ine SAN	ID, trace	0.	.1	= =							Start at 1	250		
		brick (dry)		e, GRAVEL, som	ne quart	z (dry)	0.	.1	<del>-</del> 1 -		띪					Sample 0			5
		[FILL]	<i>5 )</i>	c, Olvavee, son	ic quart	<i>L</i> (ury)		.1	2 -	_	000	20/48							
		R1c (16-20	D") Tan I	brown to light gre	y, medi	ium-fine	0.	.2	_ =		MACROCORE	20				Sample 2 TCLP/To	tal Le	ad	
		SAND, tra	ce brick	(dry) [FILL]					3 -		2								
									. :										
		R2 (0-18")	Liaht ar	ey, medium-fine	SAND.	trace			4 -										
		coarse sar	nd (dry)	[FILL]	,				5 -							Comple 5	: C! ot	1205	
											ORE	_				Sample 5			
									6 -	7	MACROCORE	18/48				Sample 6	6-8' at	1310	
											MAC					TCLP/To	tal Le	ad	
						7	0.		<b>⊢</b> 7 −							End at 13	315		
							0.	.1	8 -										
																EOB at 1	315		
									9 -										
									_ 10 _										
									11 -										
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