APPENDIX A1 Boring Logs and Well Installation Diagrams (2019-2020 Investigation)



Sample Description

Identification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. ASTM D 2488 visual-manual identification methods were used as a guide. Where laboratory testing confirmed visual-manual identifications, then ASTM D 2487 was used to classify the soils.



Date Started: 02/27/2020	Date Completed: 02	2/27/2020
Logged by: B. Dozier	Checked by: M. Go	odman
Location: Lat: 47.625208 Long: -122	.341945 (WGS 84)	

Location: Lat: 47.625208 Long: -122.341945 (WGS 84) Ground Surface Elevation: <u>55.02 feet (NAVD 88)</u>

Comments: Temporary well screen set at a depth of 32 and 37 feet.

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 GS Mini Sonic - DB320 / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter: NA

 Total Depth:
 40 feet
 Depth to Groundwater: 33 feet

		\square		Sample Da	ita						
45 1 1 50 1 1 Elevation (feet)	O Depth (feet)	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materi Descript		Water Level	Depth (feet)
-	-							Air knife to 5 feet			_
50	- 5 -	3		MBB1-5 No odor	0.2	NS		SILT (ML), (hard), moist, gray.			- - 5 -
-	-		60					SILTY SAND WITH GRAVEL (SM), moist, gray-brov		-	-
45	- 10 - -		=	MBB1-10 Solvent-like odor	9.3	NS					- 10 - -
40	- - 15		60	<u>MBB1-15</u> Strong solvent-like odor	562.9	NS					_ _ _ 15 _
35 1 1	- - 20 -		60	MBB1-20 Strong solvent-like	930.5	NS					- - - -20
	-			odor							-
- 30-	25 - - -			Strong solvent-like odor	40.8	NS					25
25	- 30 –			MBB1-30 No odor	<0.1	NS					-
-	-		60					becomes (dense), wet, gray		atd ¥	-
	35 - - -										- 35 - -
- Gi	enera							Bottom of Borehole	e at 40.0 feet.		-
2. 3. 4.	Mate USCS Grou	rial s S de ndwa	tratu signa ater	im lines are ations are ba evel, if indic	interpre ased on ated, is	etive a visua at tin	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct conta- nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	y laboratory testing (ASTM D 2487).	ntacts	i.
			_	COMSE of Haley & Aldric	Lo	oject catio oject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04		41- 1 of	

Date Started: 02/27/2020	Date Completed:	02/27/2020
Logged by: B. Dozier	Checked by: M.	Goodman
Location: Lat: 47.625165 Long: -122.3	341961 (WGS 84)	

Ground Surface Elevation: 55.45 feet (NAVD 88)

Comments: Temporary well screen set at a depth of 32 and 37 feet.

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 GS Mini Sonic - DB320 / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 NA

 Total Depth:
 40 feet

 Depth to Groundwater:
 33 feet

		1												
			—	Sample Da	ta I	1								
1 1 30 1 1 35 1 1 40 1 1 45 1 1 50 1 1 55 Elevation (feet)	⊖ Depth (feet)	Type	Length (inches)	Number Tests	PID (ppm)	Sheen	Graphic Log	Materia Descript			Water Level	Depth (feet)		
1 1 22	-							Air knife to 5 feet				-		
20	- 5 -	ß		MBB2-5 No odor	0.1	NS		SANDY SILT (ML), moist, gray-brown.				- 5 -		
- - -	-		- 60									_		
45	- 10 – -			MBB2-10 Petroleum-like odor, slight white stringy sheen	3.7			SILTY SAND WITH GRAVEL (SM), moist, gray-brow	n			- 10 -		
-	-		- 60					grades to gray-brown				_		
-4-	15 -			MBB2-15 Solvent-like odor	4.9	NS						— 15 -		
-	-		- 100 60	<u>MBB2-20</u>								-		
35	20	R R	=	Solvent-like odor	16.3	NS		becomes gray				- 20 - -		
30	- - 25 –		60 GO	MBB2-25 Strong solvent-like	16.1	NS						- - 		
-	-		- <u>II0</u> 60	odor								-		
	- 30 –	3		MBB2-30 No odor	0.8	NS		becomes more (dense)				- 30 -		
-	-		- 100 60								atd ¥	-		
- 20	35 -	2										35 		
-	-		60					SILTY SAND (SM), moist, gray.				- -		
Ge	enera			I		<u> </u>		Bottom of Borehole	at 40.0 feet.		1			
2. 3. 4.	Mate USC Grou	rial s S de ndwa	tratu signa ater	im lines are ations are ba level, if indic	interpre ased on ated, is	etive a visua at tir	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wil approximate.	laboratory testing (ASTM D 2487).	approximate conta	acts.			
				-	-	oject		Seattle DOT Mercer Parcels Site		A				
🖆	1.'			COMSER of Haley & Aldric	Lo	catio	n:	Seattle, Washington	Sonic Core Log MBB-2		1-: of 1			
			A division of Haley & AldrichContraction, VolumingtonProject No.: 19409-04MBB-2Sheet1 of 1											

Date Started	: 02/27/2020	Date Completed
Logged by:	B. Dozier	Checked by: M.
Location: La	at: 47.625142 I	Long: -122.341909 (WGS 84)

Ground Surface Elevation: <u>54.84 feet (NAVD 88)</u>

Comments: Temporary well screen set at a depth of 32 and 37 feet.

Checked by: M. Goodman

Date Completed: 02/27/2020

Contractor/Crew: Cascade Drilling, L.P. Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig

Hole Diameter: <u>10 inches</u> Total Depth: 40 feet

Casing Diameter: NA Depth to Groundwater: 33 feet

tzer					Sample Dat	ta							
LUCKLUGS.GPJ - mschwe	Elevation (feet)	⊖ Depth (feet)	Type Recovery	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materia Descript			Water Level	Depth (feet)
NGIN I VALLMEGABI	-	-							Air knife to 5 feet				-
RCER_MEGABLOCH	- 20	- 5 -	Š.		<u>MBB3-5</u> No odor	3.9	NS		SANDY SILT (ML), moist, gray-brown.				- - 5 -
PROJECI_FILES/ME	45 1	- - 10		60	MBB3-10 Strong solvent-like odor MBB3-12	929.3	NS		SILTY SAND (SM), moist, gray-brown.				- - 10 -
KYNMASTER_	-		60in.	60	Strong solvent-like odor	890.4	NS		SANDY SILT (ML), moist, gray.				-
JSPATIAL_LIBR/	- 4-	- 15 -	$\sum_{i=1}^{i}$		MBB3-15 Strong solvent-like odor	21.9	NS		SILTY SAND WITH GRAVEL (SM), dry to moist, gra	y-brown.			- 15 -
3EOMATICS/GEC	35	- - 20	60in.	60	MBB3-20 Strong	67.1	NG						- - 20
NKE/PDX_DATA(- - -	-	60in.	60	solvent-like odor	07.1	NO						-
LDRICH.COM/SH	30	- 25 — -			MBB3-25 Strong solvent-like odor	474.4	NS						- 25 -
10:33 - WHALEYA	-	-	60in.	60	MBB3-30								-
KY.GLB - 21/9/21	25	30 — - -	Oin.	60	Strong solvent-like odor	213.0	NS		becomes wet, gray			ATD	- 30 - -
	- 20-	- 35 —	₹ ₹		<u>MBB3-35</u> Solvent-like odor	8.1	NS						- - 35
SHARE/SEA_DA1	-		60in.	60	MBB3-40 No odor	2.3	NS						- -
COM		oor-'	Z			-	_			at 40.0 fact			
RICH.	1. F		to Fi	gure					criptions and symbols.				
YALDI	2.1	<i>∕</i> lateri	ial st	ratui	m lines are i	nterpre	tive a	and a	ctual changes may be gradual. Solid lines indicate distinct contac inual identification (ASTM D 2488), unless otherwise supported by	cts and dashed lines indicate gradual of (laboratory testing (ASTM D 2487)	r approximate conta	acts.	
WHALE	4. (Groun	ndwat	er le	evel, if indica	ated, is	at tir	ne of	drilling/excavation (ATD) or for date specified. Level may vary with	th time.			
	5. L	.ocati	on a	na g	round surfa	_			approximate.				
SH PK	+	<i>[]</i>	1	Ci			oject catic		Seattle DOT Mercer Parcels Site Seattle, Washington	Sonic Core Log	Figure A	1-4	1
IC PO					of Haley & Aldric	L .			: 19409-04	MBB-3	Sheet 1	of 1	
сI													

Date Started: 02/27/2020	Date Completed: 02/27/2020									
Logged by: B. Dozier	Checked by: M. Goodman									
Location: Lat: 47.625160 Long: -122.341879 (WGS 84)										
Ground Surface Elevation: 54.61 feet										
Comments: Temporary well screen set										

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 GS Mini Sonic - DB320 / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter:

Total Depth: <u>40 feet</u>

Izer					Sample Dat	ta							
-OCKLOGS.GPJ - mschweit	Elevation (feet)	Depth (feet)	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materia Descript	al ion		Water Level	, Depth (feet)
VALLMEGABLC	-	0 -							SILTY SAND WITH GRAVEL (SM), moist, brown, fro Air knife to 5 feet	om sluff.			0-
MEGABLOCK/GIN	20	- - 5	3		MBB4-5 No odor	1.5	NS		SANDY SILT WITH GRAVEL (ML), moist, brown.				- - 5
FILES\MERCER		-	60in	60					SILTY SAND WITH GRAVEL (SM), moist, gray-brow	/n.		-	-
ER_PROJECT_F	45	10 - -	2		MBB4-10 Solvent-like odor	177.4	NS						10
AL_LIBRARY\MAST	40	- - 15	S0in	60	<u>MBB4-15</u> Solvent-like odor	41.2	NS		POORLY GRADED SAND (SP), moist, gray.	 n.	/		- - 15
ATICS/GEOSPATI		-	60in.	60									-
DX_DATA\GEOM.	35	- 20 — -	S		MBB4-20 Strong solvent-like odor	425.1	NS						- 20 -
RICH.COM/SHARE/P	30	- - 25 —	Soin Boin	60	<u>MBB4-25</u> Strong solvent-like odor	21.5	NS		becomes gray				- - 25
10:33 - \\HALEYALC		-	Poin.	60	MBB4-30								-
RY.GLB - 21/9/21		30 — - -	60in.	60	Slight solvent-like odor	<0.1	NS		becomes more (dense)				- 30 - -
VGINTHC_LIBKA	20	- - 35 —	2 2 2						POORLY GRADED SAND WITH SILT (SP-SM), trac	e gravel, (dense), wet, gray.		¥	- - 35
HARE\SEA_DAT#		-	e0in	60									-
SIMIC	15		2						SILTY SAND WITH GRAVEL (SM), (dense), moist, g				
ALDRICH.(1. F 2. M	Mater	to Fi ial st	igure ratu	m lines are i	nterpre	tive a	and a	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contact	cts and dashed lines indicate gradual o	r approximate conta	acts.	
E - \\HALEY	4. (Grour	ndwa	ter l	evel, if indica	ated, is	at tir	ne of	nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	y laboratory testing (ASTM D 2487). th time.			
PROB				~			oject		Seattle DOT Mercer Parcels Site	Sonic Core Log	Figure A	1-	5
PUSH					of Haley & Aldric	L .	catio		Seattle, Washington : 19409-04	MBB-4		of '	
Ξ							Ject	110.	. 10700-0 7	-			

Date Started: 03/02/2020	Date Completed: 03/02/2020
Logged by: B. Dozier	Checked by: <u>M. Goodman</u>
Location: Lat: 47.625125 Long: -122.3	41321 (WGS 84)
Ground Surface Elevation: _50.53 feet	(NAVD 88)

Comments: Temporary well screen set at a depth of 32 and 37 feet.

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 GS Mini Sonic - DB320 / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter:

 Total Depth:
 40 feet
 Depth to Groundwater:
 25 feet

F				<u> </u>							_
⊡ ⊐		\vdash	Т	Sample Da	ita						
40 1 1 45 1 1 50 Elevation (feet)	o Depth (feet)	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materia Descripti		Water Level	Depth (feet)
1 201	-	-						Air knife to 5 feet			-
45 1	- 5 -	- 	<u>.</u>	MBB5-5 No odor	<0.1	NS		SILTY SAND WITH GRAVEL (SM), moist, gray-brow	n, brick fragments. [FILL]		- - t
40 1 1	- - 10 —		60	<u>MBB5-10</u> No odor, slight white stringy sheen	<0.1						- - - 10
-	-			<u>MBB5-15</u>				SANDY SILT WITH GRAVEL (ML), moist, dark brow SILTY SAND WITH GRAVEL (SM), moist, gray-brow			-
35	15 — - -		-iio 60	No odor	<0.1	NS		grades brown			- 15 - -
30	- 20 - -		ii oo	MBB5-20 No odor	<0.1	NS					- - 20 -
25 1 1	- - 25 - - -		-iiiot -iiiiot -iiiiot -iiiot -iiiot -iiiot -iiiot -iiiot -iiiot -iiiot -iiiot -iiiot	MBB5-25 No odor	<0.1	NS		SILTY SAND (SM), trace gravel, wet, brown.		ate _¥	-
- 20	- 30 — -		-iiio 60					SILTY SAND WITH GRAVEL (SM), moist, brown. becomes gray		_	- 30 -
- - - -	- 35 - - -							grades (denser)			-
1. 2. 3. 4.	Mater USCS Grour	to F rial s de: ndwa	igur tratu signa ater	im lines are ations are ba evel, if indic	interpre ased on ated, is	etive a visua at tin	and a al-ma ne of	Bottom of Borehole riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wit approximate.	ts and dashed lines indicate gradual or approximate con / laboratory testing (ASTM D 2487).	tacts	5.
-+	H/	_		COMSER of Haley & Aldric	Lo	oject catio oject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04		∖1- ∣of	

Date Started: 03/03/2020	Date Completed: 03/03/2020
Logged by: B. Dozier	Checked by: M. Goodman
Location: Lat: 47.625113 Long: -122.3	41268 (WGS 84)
Ground Surface Elevation: 50.33 feet	(NAVD 88)

Comments: Temporary well screen set at a depth of 25 and 30 feet.

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 GS Mini Sonic - DB320 / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter:
 NA

 Total Depth:
 40 feet
 Depth to Groundwater:
 25 feet

			Sample De	ta						1	
(t)			Sample Da								
D Elevation (feet)	Type	Kecovery Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Descriptio	n		Water Level	Depth (feet)
-0 <u>0</u> -	-						Air knife to 5 feet				-
- - <u>-</u>	- - - - - - - - - - - - - - - - -		<u>MBB6-5</u> No odor	<0.1	NS		SILTY SAND WITH GRAVEL (SM), moist, light brown.			_	- - 5 -
	- - - - - - - - - - - - - - - - 	UI0 1	MBB6-10 No odor	<0.1	NS						- - - 10 -
- - - హ్ల ^{15 -}		20IU.	MBB6-15 No odor	<0.1	NS		Concrete SILTY SAND WITH GRAVEL (SM), moist, light brown. grades to brown		/		- - - 15 -
- - - - $\stackrel{20}{\sim}$	- - - - - - - - - - - - - - - - - - -	48In. 09	MBB6-20 No odor	<0.1	NS						- - 20
- - - - - - - -		42ln. 42ln. 09	<u>MBB6-25</u> No odor	<0.1	NS		SILTY SAND (SM), trace gravel, wet, brown.			_ATD ⊉	- - 25 -
- - - - -		42ln. 09					SILTY SAND WITH GRAVEL (SM), moist, gray-brown			_	- 30 - -
35 - 	-~	100 60					SILTY SAND (SM), trace gravel, wet, gray.				- 35 - -
2. Mate 3. USC 4. Grou 5. Loca	er to l erial s CS de undw ation	igure stratu signa ater le and g	m lines are itions are ba evel, if indic	interpre ased on ated, is ice elev	etive a visua at tin	and a al-ma ne of s are :	Bottom of Borehole a riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contacts nual identification (ASTM D 2488), unless otherwise supported by la drilling/excavation (ATD) or for date specified. Level may vary with approximate. Seattle DOT Mercer Parcels Site Seattle, Washington	and dashed lines indicate gradual o aboratory testing (ASTM D 2487).		tacts	

Date Started: 02/25/2020	Date Completed: 02/25/2020
Logged by: B. Dozier	Checked by: M. Goodman
Leasting Late 47 625224 Lange 122	241122 (MCC 94)

Location: Lat: 47.625224 Long: -122.341123 (WGS 84) Ground Surface Elevation: 49.41 feet (NAVD 88)

Comments: Temporary well screen set at a depth of 27 and 32 feet.

Contractor/Crew: Cascade Drilling, L.P. Rig Model/Type: TSi 150CC / Track-mounted drill rig Hole Diameter: <u>10 inches</u> Casing Diameter: NA

Total Depth: 40 feet

Depth to Groundwater: 28 feet

				Sample Da	ta							
T Elevation (feet)	o Depth (feet)	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materi Descript			Water Level	Depth (feet)
	-	-						Air knife to 5 feet				- - -
1 1 45	- 5 –	S		<u>MBB7-5</u> No odor	<0.1	NS		SILTY SAND WITH GRAVEL (SM), moist, dark brow	<i>i</i> n.			- - 5 -
	- - 10 –	60in.	60	MBB7-10 No odor	<0.1	NS		becomes light brown				- - - 10
	-											_ _ _
	- 15 – -	120in.	120	MBB7-15 No odor	<0.1	NS						- 15
	- - 20 -			MBB7-20 No odor	<0.1	NS		trace iron oxide staining				- 20
	- - 25 – -	120in.	120	MBB7-25 No odor	<0.1	NS		POORLY GRADED SAND (SP), moist, brown.				- - 25 -
	-	<u>}</u>						SILTY SAND WITH GRAVEL (SM), moist to wet, gra	ay.		atd ⊻	-
20 20	- 30 – -											- 30 -
	- - 35 – -	120in.	120									- - 35 -
	-											-
1 2 3 4 ALLEYALDRICH	Mater USCS Grou	to Fi rial st des ndwa	gure ratui igna ter le	m lines are i tions are ba evel, if indica	interpre ased on ated, is	etive visu at tii	and a al-ma me of	Bottom of Borehole criptions and symbols. ctual changes may be gradual. Solid lines indicate distinct conta- nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	cts and dashed lines indicate gradual o y laboratory testing (ASTM D 2487).	r approximate cont	tacts.	
	_	Na	Ci	OWSER of Haley & Aldric	Pro Lo	oject catio	t: on:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log MBB-7		\1- of '	

Date Started:	02/26/2020	Date Completed:	02/26/2020
Logged by: B	Dozier	Checked by: M.	Goodman
Location: Lat:	47.625096 Long:	-122.341099 (WGS 84)	

Ground Surface Elevation: _49.66 feet (NAVD 88)

Comments: Temporary well screen set at a depth of 27 and 32 feet.

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 NA

 Total Depth:
 40 feet

 Depth to Groundwater:
 27 feet

I					Sample Da	ta							
		o Depth (teet)	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materia Descript			Water Level	Depth (feet)
		-							Air knife to 5 feet				- - -
	6 4	5	Soin.	60	MBB8-5 No odor	<0.1	SS		SILTY SAND WITH GRAVEL (SM), moist, gray.				- 5 -
	D * 1	- - 0 - -			MBB8-10 No odor	<0.1	NS		WELL-GRADED GRAVEL WITH SAND (GW), dry, v				_ _ 10 _
	8 7	- 5 - -	<u> </u>	120	MBB8-15 No odor	<0.1	NS						- - 15 -
	0 ⁰ 21				MBB8-20 No odor	<0.1	NS		becomes more (dense)				- - 20 -
	CN 2	- 5 - -	<u>120in.</u>	120	<u>MBB8-25</u> No odor	<0.1	NS					ATD ¥	- - 25 -
	P7 3∣	- - 0 -							becomes wet, grades to gray			-	- - 30
	<u>n</u> 3:	- - 5 -	<u> </u>	120									- - 35 -
	⊇ Gene								Bottom of Borehole	e at 40.0 feet.			- - _
 Refer to Figure A1-1 for explanation of descriptions and symbols. Material stratum lines are interpretive and actual changes may be grad. USCS designations are based on visual-manual identification (ASTM I 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) of 5. Location and ground surface elevations are approximate. 						interpre ised on ated, is ce elev	etive a visu at tir ation	and a al-ma ne of s are	ctual changes may be gradual. Solid lines indicate distinct contar nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	y laboratory testing (ASTM D 2487).	r approximate conta	acts.	
HC FUSH FK	Advision of Holey & Aldrich Project:					Lo	catic	n:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log MBB-8		1- 9 of 1	

Date Started:	02/26/2020	Date Completed:
Logged by: E	3. Dozier	Checked by: M.
Location: Lat	: 47.625082 Long: -	122.340910 (WGS 84)

Comments: Temporary well screen set at a depth of 27 and 32 feet.

Ground Surface Elevation: 47.55 feet (NAVD 88)

 02/26/2020
 Contractor/Crew:
 Cascade Drilling, L.P.

 Goodman
 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

Hole Diameter: <u>10 inches</u>
Total Depth: <u>40 feet</u>

Casing Diameter: <u>NA</u> Depth to Groundwater: <u>27 feet</u>

tzer					Sample Da	ta							
LUCKLUGS.GPJ - mschwei	Elevation (feet)	 Depth (feet) 	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materia Descript			Water Level	Depth (feet)
K\GINT\ALLMEGABI	45	-	-						Air knife to 5 feet				-
ERCER_MEGABLOC	- - -	- 5 -			<u>MBB9-5</u> Organic odor, slight organic sheen	<0.1			SILTY SAND WITH GRAVEL (SM), moist, brown.				- - 5 -
ER_PROJECT_FILES\M	-	- - 10 -			<u>MBB9-10</u> No odor	<0.1	NS		grades to higher silt content				- - - 10 -
PATIAL_LIBKAKY\MAS1	- 35	- - 15	120in.	120	MBB9-15 No odor	<0.1	NS						- - 15 -
EOMATICS/GEOS	- 30 -	-			MBB9-20	-0.4			grades to lower silt and higher sand content				_
	25	20 - - -			MBB9-20 Slight odor	<0.1	SS		SILTY SAND (SM), trace gravel, moist, gray-brown.				-20 - -
EYALDRICH.COM/S	-	- 25 — -	110in	120	MBB9-25 Slight solvent-like odor	<0.1	SS					ATD ⊈	- 25 -
:1/9/21 10:33 - WHAL	20	- 30 —							becomes wet, gray SILTY SAND WITH GRAVEL (SM), (dense), moist, g	 gray.			- - -30
HC_LIBKARY.GLB - 2	15	-											- - -
ARE\SEA_DATA\GINT	- 10	35 — - -	1201	120					[TILL-LIKE]				- 35 - - -
HSIMO			Ś										Ē
3E - WHALEYALDRICH.CC	3. USCS designations are based on visual-			etive a visua at tir	and a al-ma ne of	ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi	cts and dashed lines indicate gradual or / laboratory testing (ASTM D 2487).	approximate conta	acts.				
HC PUSH PROE	Adivision of Haley & Aldrich			Lo	oject catic oject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log MBB-9	Figure A1 Sheet 1	-1 of ′			

Date Started:	02/26/2020	Date Complete	ed: 02/26/2020
Logged by: B	Dozier	Checked by:	M. Goodman
Location: Lat:	47.625211 Long	g: -122.340876 (WGS 84	4)

Ground Surface Elevation: 49.66 feet (NAVD 88)

Comments: Temporary well screen set at a depth of 35 and 40 feet.

Contractor/Crew: Cascade Drilling, L.P. Rig Model/Type: TSi 150CC / Track-mounted drill rig Casing Diameter: NA Hole Diameter: <u>10 inches</u> Depth to Groundwater: 35 feet Total Depth: 40 feet

		_		_							=	_
				Sample Da	ata 		ł					
Elevation (feet)	 Depth (feet) 	Type	Lenath (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materia Descripti			Water Level	Depth (feet)
-	-							Air knife to 5 feet				-
42	- 5 —	-		<u>MBB10-5</u> Organic odor organic sheen	, <0.1			SILTY SAND WITH GRAVEL (SM), (medium dense).	moist, brown.		_	-
	-		-UI00 60					becomes dark brown				-
40	- 10 -			MBB10-10 No odor	<0.1	NS		becomes gray-brown				- 10 -
	-							becomes brown				-
. 35	15 — - -		12	MBB10-15 No odor	<0.1	NS		grades to gray-brown				- 1: - -
	- - 20 -			MBB10-20 No odor	<0.1	NS		grades to gray-brown				- 2
	- - 25 -		11071	MBB10-25 No odor	<0.1	NS		SILTY SAND (SM), moist, gray-brown. SILTY SAND WITH GRAVEL (SM), moist, gray. SILTY SAND (SM), moist, gray-brown. SILTY SAND WITH GRAVEL (SM), (medium dense).			_	- - -2
- - - -	- - 30 —							SILTY SAND (SM), wet, gray.			_	- - -3
15	-							SILTY SAND WITH GRAVEL (SM), moist, gray. [TILI				
- - -	35		12					grades to wet				- - -
1. F 2. M 3. U 4. 0	Matei USCS Groui	r to F rial s S de ndw	igui tratu sign ater	um lines are ations are ba level, if indic	interpre ased on ated, is	etive visu at tii	and a al-ma ne of	Bottom of Borehole riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wit approximate.	ts and dashed lines indicate gradual or laboratory testing (ASTM D 2487).	approximate coni	tacts	<u> </u>
+	H			COMSE of Haley & Aldri	Lo	oject catio oject	on:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log MBB-10		1- '	

Date Started: 03/04/2020	Date Completed: 03/04/2020
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.625138 Long: -122.3	40141 (WGS 84)
Ground Surface Elevation: 46.42 feet ((NAVD 88)
Comments: Temporary well screen set	at a depth of 30 and 35 feet.

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 NA

 Total Depth:
 35 feet

 Depth to Groundwater:
 Not Identified

zer	Sample Data				ta							
-UCKLOGS.GPJ - mschweit	Elevation (feet)	 Depth (feet) 	Type	Length (inches)		PID (ppm)	Sheen	Graphic Log	Mater Descri			Depth (feet)
I VALLMEGABL	45	-							Air knife to 5 feet			-
GABLOCK/GIN	-	- - 5 -						য়ম্য	SILTY SAND WITH GRAVEL (SM), dry to moist, gra	v-brown		- 5
S\MERCER_ME	40	-		60						,		-
ROJECT_FILES	-	- 10 -	S					000	POORLY GRADED GRAVEL WITH SAND (GP), mo	ist, brown to light gray.		
RYMASTER_P	35	-										
PATIAL_LIBRA	30	- 15 — -		120	MBB11-15 No odor	5.9	NS					- 15 -
MATICS/GEOS	-	-	Š									-
DX_DATA\GEO	25	20 -			MBB11-20 No odor	3.3	NS		becomes dry			-20
COM\SHARE\P	-	-	04in	84	MBB10-25							-
ALEYALDRICH.	20	25	3		No odor	2.9	NS		SILTY SAND WITH GRAVEL (SM), wet, gray.			25 _
9/21 10:33 - \\H	-	- - 30 —							3 inches of wood FAT CLAY WITH SAND (CH), wet, gray.		·	
XARY.GLB - 21/	- 15	-		96					POORLY GRADED SAND WITH SILT (SP-SM), wet			
	- - -	- 35 —	Ś						Bottom of Boreho	le at 35.0 feet.		
ARE\SEA_DATA	10	-										
OM/SH4	-	-										-
E - WHALEYALDRICH.CI	1. 2. 3. 4. (Mater USCS Grour	to F rial s de ndwa	igur tratu signa ater	im lines are i ations are ba level, if indic	nterpre sed on ated, is	etive a visu at tir	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	y laboratory testing (ASTM D 2487).	r approximate contact	S.
HC PUSH PROB	-+	Project: Seattle DOT Mercer Parcels Site Sonic Core Log Figure A1-12 Advision of Holey & Aldrich Project No.: 19409-04 Sheet 1 of 1										

Date Started: 03/04/2020	Date Completed: 03/04/2020
Logged by: A. Nakahara	Checked by: M. Goodman
Location: Lat: 47.625217 Long: -122.3	39979 (WGS 84)
Ground Surface Elevation: <u>33.69 feet</u>	

Comments: Temporary well screen set at a depth of 27 and 32 feet.

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter:

 Total Depth:
 35 feet
 Depth to Groundwater:

Izer	Sample Data					ta							
UCKLOGS.GPJ - mschwe	Elevation (feet)	⊃ Depth (feet)	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materia Descript			Water Level	Depth (feet)
	30	-	-						Air knife to 5 feet				-
ILES\MERCER_MEGABLO	25	5 — - -	48in	60					POORLY GRADED GRAVEL WITH SAND (GP), mc	ist, brown.			— 5 — —
	20	10 — - -		60					SILTY SAND (SM), moist, brown-gray.				— 10 - -
CS/GEOSPATIAL_LIBR		- 15 — - -			MBB12-15 No odor	2.6	NS		6 inches of wood FAT CLAY (CH), (hard), moist to wet, gray.			atd ⊈	- - 15 - -
ARE\PDX_DATA\GEON		- 20 - - -	120in	120	MBB12-20 No odor	2.0	NS		POORLY GRADED SAND (SP), moist to wet, gray.			-	- - 20 - -
3 - \\HALEYALDRICH.COM		- 25 — - -			MBB12-25 No odor	3.0	NS		FAT CLAY WITH SAND (CH), moist to wet, gray. POORLY GRADED SAND (SP), moist to wet, gray.			-	- 25 - -
BRARY.GLB - 21/9/21 10:3		- 30 — - -	120in	120									- 30 - -
	0	- 35 —	Ś										- 35
KE\SEA_DATA\GI	•	-	-						Bottom of Borehole	at 35.0 feet.			-
		-											_
1 HALEYALDRICH.C	1. F 2. M 3. L 4. C	Mater JSCS Grour	to F ial st des ndwa	igure ratu igna ter le	m lines are i itions are ba evel, if indica	interpre ised on ated, is	etive a visu at tir	and a al-ma me of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported b drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	y laboratory testing (ASTM D 2487).	approximate cont	acts.	
HC PUSH PRO	Advision of Holey & Aldrich Project: Location: Project N			catio	on:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log MBB-12	Figure A ' Sheet 1	1-1 of ′				

Date Started: 03/04/2020	Date Completed: 03/04/2020
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.625147 Long: -122.3	39952 (WGS 84)
Ground Surface Elevation: 35.98 feet	(NAVD 88)

Comments: Temporary well screen set at a depth of 30 and 35 feet.

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 NA

 Total Depth:
 35 feet

 Depth to Groundwater:
 16 feet

Zer					Sample Da	ta								
	 Elevation (feet) 	⊃ Depth (feet)	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materia Descript			Water Level	Depth (feet)	
	35	-	-						Air knife to 5 feet				-	
	30	- 5 -							POORLY GRADED GRAVEL WITH SAND (GP), mo	ist, brown.			- 5 -	
	25	- - 10 -	72in.	84									- - 10 	
		-	2					<u> </u>	POORLY GRADED SAND (SP), moist to wet, brown				-	
- AW		-	Ś						LEAN CLAY (CL), moist to wet, brown-gray.				-	
- BKA		-	S		MBB13 15								-	
	20	15	96in	96	MBB13-15 No odor	5.8	NS		SILTY SAND WITH GRAVEL (SM), wet, gray, wood			atd ⊈	— 15 -	
		-	ß										-	
		- 20 —	2		MBB13-20	23	NS						- 20	
	15	- 20	S		No odor	2.0			LEAN CLAY (CL), wet, brown, occasional organics.				- 20	
		-	Š						becomes gray, no organics				-	
H.COM/SH	:	- 25 —	Ś	120	MBB13-25	2.3	NS						- 	
	10	-	Ś						SILTY SAND (SM), wet, gray, fine sand.				-	
1 1 1		-	Š										-	
3 - 21/9/21	2 2	30 -	Ś						POORLY GRADED SAND (SP), wet, gray-brown, me	edium coarse sand.			— 30 -	
		-	S in	60									_	
		_	Įξ[]										_	
		35 —					L		Bottom of Borehole	e at 35.0 feet.			- 35	
	0	-]										_	
TARE/SE		-											_	
		-												
KICH.	1. F	Refer	to Fi	gure										
WHALEYALL	3. L 4. G	JSCS Grour	No oder 2.3 NS LEAN CLAY (CL), wet, brown, occasional organics. 20 becomes gray, no organics											
		_		-		-								
H HSU		<u>.</u>				Lo	catio	n:	Seattle, Washington	-				
ц ЧС Н		20 1 No odor 2.3 NS LEAN CLAY (CL), wet, brown, occasional organics. 20 25 5 120 MBB1325 2.3 NS Image: Since of the since of												



 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter:

 Total Depth:
 35 feet
 Depth to Groundwater:
 Not Identified

itzer					Sample Dat	ta						
OCKLOGS.GPJ - mschwe	Elevation (feet)	 Depth (feet) 	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Mater Descrip			Depth (feet)
MEGABI	-	_							Air knife to 5 feet			-
	45	_										
LOCK/G	_	_										-
MEGAB	-	5	3		MBB14-5 No odor	6.2	NS	00	POORLY GRADED GRAVEL WITH SAND (GP), mo	ist, brown-gray, brick fragments.	[FILL]	5
ERCER	40	_	60in.	60				20				-
-ILES/ME	-	-	Sa	00								
	-	10 —	2		MBB14-10 No odor	0.7	NS	000				- 10
ER_PRC	-	-	Ś									E
YMAST	35	_	Ş					$\frac{1}{2}$	becomes dry, light gray			-
LIBRAR	-	- 15 —	Š.	120	MBB14-15 No odor, slight organic	3.1		2000				- 15
PATIAL	-	-	S 13	120	slight organic sheen	5.1						- 13
SIGEOS	30	-	Ś					<u>°</u>				
OMATIC	-	-	Ś					000				-
ATA/GE	-	20 —	Š		MBB14-20 No odor	5.1	NS	200	POORLY GRADED GRAVEL (GP), moist to wet, bro			20
	25	_	Zin.									F
NSHARE	-	-	35	60				$\frac{1}{2}$				
CH.CON	-	25 —	ξ		MBB14-25 No odor	6.6	NS	00				-25
YALDR	-	-	3						becomes dry, light gray			-
- WHALE	20	_	Ş					10 N				F
21 10:33	-	-	Ś.					000				-
3 - 21/9/2	-	30 —	2 120	120					SILTY SAND WITH GRAVEL (SM), wet, gray-brown.			
ARY.GLE	15	-	Ś						POORLY GRADED SAND WITH SILT (SP-SM), wet	, gray-brown.		+
IC_LIBR.	-	_	Ś									F
A/GINI/F	-	35 —							Bottom of Boreho	le at 35.0 feet.		
=A_DAI	-0-	_										F
HARE/SE	-	-	-									-
COMISI	- Gei	neral	Note	s.								
ALDRICH	1. F	Refer	to Fi	gure					riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac	cts and dashed lines indicate gradual o	r approximate contac	s.
- WHALEYA	3. l 4. (JSCS Grour	3 des ndwa	igna ter le	tions are ba evel, if indica	ased on ated, is	visu at tii	al-ma ne of	nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	y laboratory testing (ASTM D 2487).		
H PROBE					OWSER	Pro	oject	:	Seattle DOT Mercer Parcels Site	Sonic Core Log	Figure A1-	15
HC PUSH					of Haley & Aldric	-	catio oject		Seattle, Washington 19409-04	MBB-14	Sheet 1 o	
- 1						_	-					

Date Started: 03/04/2020	Date Completed: 03/04/2020
Logged by: A. Nakahara	Checked by: <u>M. Goodman</u>
Location: Lat: 47.625056 Long: -122.3	39953 (WGS 84)
Ground Surface Elevation: 37.73 feet	(NAVD 88)
Comments: Temporary well screen set	at a depth of 30 and 35 feet.

Contractor/Crew: Cascade Drilling, L.P. Rig Model/Type: TSi 150CC / Track-mounted drill rig

Hole Diameter: 10 inches Casing Diameter: NA

Total Depth: <u>35 feet</u>

____ Depth to Groundwater: _____ 17 feet

		Τ		Sample Da	ta								
Elevation (feet)		Type	Kecovery Length (inches)		PID (ppm)	Sheen	Graphic Log	Materia Descript			Water Level	Depth (feet)	
35 1 1 1 1	- 0							Air knife to 5 feet				- 0- - -	
	5 -			MBB15-5 No odor	6.6	NS	0.00	POORLY GRADED GRAVEL WITH SAND (GP), dry	, light gray-brown.			- - 5 -	
	10 -		.uz/	MBB15-10 No odor	5.1	NS	000					_ _ 10	
	· · ·							SANDY LEAN CLAY WITH GRAVEL (CL), moist to v	wet, gray.			-	
	15 -		ur, 72	MBB15-15 No odor	8.4	NS					atd Ţ	15 	
	20 -		^{UI} Z 84	MBB15-20 No odor	6.7	NS						- 20	
10111111111111111111111111111111111111	- 25	- ~ '		MBB15-25 No odor	9.2	NS						_ _ 25	
												- - -	
5 1 1 1 1	30 -		-uno71 120					POORLY GRADED SAND (SP), moist to wet, gray.				- 30 - -	
	35 -											- - - 35	
								Bottom of Borehole	e at 35.0 feet.			_	
												-	
1 2 3 4	20 1												
	20 No odar 0.7 NB Image: Sill TY SAND (SM), (dense), moist to wet, gray. 20 25 Image: Sill TY SAND (SM), (dense), moist to wet, gray. 25 25 25 25 Image: Sill TY SAND (SM), (dense), moist to wet, gray. 25 26 Image: Sill TY SAND (SM), (dense), moist to wet, gray. 26 27 Image: Sill TY SAND (SM), (dense), moist to wet, gray. 26 28 Image: Sill TY SAND (SM), (dense), moist to wet, gray. 26 29 Image: Sill TY SAND (SM), (dense), moist to wet, gray. 30 29 Image: Sill TY SAND (SM), (dense), moist to wet, gray. 30 29 Image: Sill TY SAND (SM), (dense), moist to wet, gray. 30 30 Image: Sill TY SAND (SP), moist to wet, gray. 30 33 Image: Sill TY SAND (SP), moist to wet, gray. 30 34 Image: Sill TY SAND (SP), moist to wet, gray. 30 35 Image: Sill TY SAND (SP), moist to wet, gray. 30 36 Image: Sill TY SAND (SP), moist to wet, gray. 30 36 Image: Sill TY SAND (SP), moist to wet, gray. 30 36 Image: Sill TY SAND (SP), moist to wet, gray. 30												

	ate Sta					:0				eted: 09/02/2020	Drilling Contractor/Crew:		ch and A	lustin				
	ogged b ocation					7 Long: -'			-	r: <u>C. Kroskie</u>	Drilling Method: Hollow S Rig Model/Type: Mobile I		ill ria					
						n: <u>53.70</u>					Hammer Type: <u>Auto-ham</u>		iinig					
С	ommer	its: <u>T</u>	emp	oora	ry۱	well scree	n set at	a dep	oth of	30 and 40 feet.	Hammer Weight (pounds)): <u>140</u> Hamme	r Drop I	Height (inches)	: 30		
-											Measured Hammer Efficie							
–											Hole Diameter: <u>5.875 inc</u> Total Depth: 40.4 feet	<u>ches</u> Casing Depth to			Not lo	lentified	4	
		-		_	0	nula Data			1			Doparta		awator				_
- msc	-				Sar 	mple Data	1 		{									
Elevation (feet)	at)			1	(se				6		Material							jt)
LOG:	(fee	Count		>	Inche				CLO		Description							(fee
	Depth (feet)	S S	e	Recovery	igth (Number	PID	Sheen	Graphic Log		·			• •	PT N V	alua		Depth (feet)
	<u>0</u> -0	Blow	Type	Å.	Le	Tests	(ppm)) မ်	ö				1				10	
		4								Asphalt Concrete (23-incl	h thick)							
		-								brown.	.							
- CC		-								brown.						·		
EABL	· ·	-																·
2 - 2	5 -	7	Н			MBB16-5 Strong									<u> </u>	- 5		
- ERCE		45	М	:50	18 p	Strong etroleum-lił odor	_{ke} 604	NS								·		
ESW		1				Oddi							9				·	
	ว	1														·		
	t.	1														·		
х Ч	10 -	6	\square			MBB16-10 Strong etroleum-lik	! 	NS		st, gray-brown, silt	+					10		
ASTE		22 32	А	۳	"p	etroleum-lik odor	(e) 12/ 7								•••••	T 54		
NYN N		1													Γ			
															Γ			
	15 -					MBB16-15										- 15		
- SPA		24 50	Д	19	11 _p	Moderate etroleum-lik	_{ke} 116.5	5 NS		ockets								
- SGEC						odor									5	50/5" ·⊢		
ATIC		-																
8-90 8-00	3.	-														· _		
- ATA	20 -	16 50	Н	. <u>.</u>		MBB16-20 Moderate etroleum-lik	40.4	NS								20		
Ă		50	Α	-	''p	etroleum-lik odor	(e +0.+	NO		grades to moist, gray-bro							5	T 50/5"
AREV	-	1																·
SMO 20	2	1																·
O.H.C.		1																-
	25 -	12 50	\square	i01	10	MBB16-25 No odor	<0.1	NS		SILTY SAND TO SANDY								<u>+</u> 25
- EX										gravel, very dense/hard, i silt and sand.	noisi, gray to brown, a	iternating layers of					5	50/4" .∟
₩ -		1								•								
7 -10:34	3.	4																
1/9/21	30 -	36	\mathbb{H}	-						SILTY SAND WITH GRA			<u> </u>		 			- 30
		36 50	Å	Ę 1	11	MBB16-30				wet, pockets of silt.	VEL (SIVI), Very derise,	gray, moist to						50/5"
RY.G		-											 				ĭ	+
		-																· - -
	۰. ۱	1																·
	35 -	27 50		.≓ 1	11	MBB16-35	;			SILTY SAND TO SANDY							,	▲ 35
DATA			П							gravel, very dense/hard, i silt and sand.	moist, gray to brown, al	Iternating layers of					5	50/5"
- SEA		1																1
HARE 7-14	2]																Γ
													ŧ		l			
I I	Genera 1. Refe			A1	-11	for explan	ation of	desc	riptio	ns and symbols.								
ń,	2. Mate	rial sti	atu	n lir	nes	are interp	oretive a	and a	ctual	changes may be gradual. Solid li					approx	imate c	ontacts	÷.
ALE A	4. Grou	ndwat	er le	evel,	, if	indicated,	is at tin	ne of	drillin	dentification (ASTM D 2488), unl g/excavation (ATD) or for date sp			WI D 248	<i>.</i> ,				
	5. Loca	tion ar	nd g	roui	nd	surface el	evation	s are	appro	oximate.				-				
NGL	+		0				Project			ttle DOT Mercer Parcels Sit	te	Boring Lo	g	T	Figu	e	A1-1	17
ROH NGK				_			ocatio			ittle, Washington		MBB-1	-		Shee		1 of	
Ч Ч							-roject	100.1	194	109-04			-					



	+[]						Locatio Projec	on:	Sea	ttle, Washington		Boring Lo MBB-1	-		Figu Shee		A1- ′ 1 of	
	2. Mat 3. US0 4. Gro 5. Loc	erial s CS de undwa ation	strati esign ater and	um l atio leve grou	lines ns a el, if und	s are inte are based indicated surface e	rpretive l on visu l, is at ti	and a lal-ma me of lis are	ctual nual i drillin appro	ns and symbols. changes may be gradual. Solid li dentification (ASTM D 2488), unk g/excavation (ATD) or for date sp oximate.	ess otherwise supported by becified. Level may vary with	laboratory testing (AST n time.	M D 248					
	Gener				1 1	for over	nation	fdoor	rintic	ne and symbols								-
	3 35	-																
				<u>.</u>	<u> </u>				<u>+ . 1.[</u>]		of Borehole at 31.5 feet		1	1	I	1		95
	3 30	- - - - 45	75	18in.	18	MBB17-3 No odor	<u>i0</u> <0.7	I NS		POORLY GRADED SAN	D WITH SILT (SP-SM), to coarse sand. occas	trace gravel, very	·····					30
	25	 50 	3	t. Tir	11	MBB17-2 No odor	2 <u>5</u> <0.7	I NS		grades to trace subground possible native?	ded gravel, dry to moist	r, gray-brown,					5	25 50/5"
																	5	50/3"
	3 20	- - - 50	7 0 ×	9in.	9	MBB17-2 No odor	<u>:0</u> <0.7	I NS		SILTY SAND (SM), few a	ngular gravel, very den	se, moist, brown.						20
	15	18 50 	8	12in.	12	MBB17-1 No odor	<u>5</u> <0.7	I NS		POORLY GRADED GRA very dense, dry to moist,			 					15 50/6"
	=													 				
	² 10	4	‡ 🕅	9in.	18	MBB17-1 No odor	<u>0</u> <0.				, dry to moist, brown, lo	calized orange						10
	5 5	- 6 - 10 - 2'		12in.	18	MBB17-3 No odor	5. <0.7	I NS								▲ . 37		5
) _	-																
				Recovery	Leng	Numbe Tests	r PID (ppm		Grap	SILTY SAND (SM), trace subangular gravel, pocke	to few gravel, dense, d ts of silt.	ry, gray-brown,	1		PT N V		0	-0-
ABLOCKLOGS:GPJ - III Flavation (faat)	Depth (feet)	Count	COULL	very	ches)			u	Graphic Log		Material Description							Depth (feet)
					Sa	ample Dat	a				Hole Diameter: <u>5.875 inc</u> Total Depth: <u>31.5 feet</u>	nes Casing Depth to			Not lo	lentified	1	
	iround omme			Elev	atio	n: <u>54.8</u>	8 feet (N	IAVD	38)		Hammer Type: <u>Auto-ham</u> Hammer Weight (pounds): Measured Hammer Efficier	: <u>140</u> Hamme	•	Height (inches)	: <u>30</u>		
L	ate St ogged ocatio	by:	C. N	lcCa	abe			Check	ed by	eted: <u>09/01/2020</u> : <u>C. Kroskie</u> ; 84)	Drilling Contractor/Crew: Drilling Method: Hollow St Rig Model/Type: Mobile B	tem Auger		Austin				

			ted:									w: Holt Services, Inc. / Mite	ch and A	Austin				
			y: <u>C.</u>				4 Long:			-	C. Kroskie Drilling Method: Hollow 84) Big Medel/Type: Meh	<u>w Stem Auger</u> ile B-57 / Track-mounted dr	ill ria					
			-				<u>4 Long:</u> n: <u>51.3</u>				84) Rig Mode// Type: Mod Hammer Type: Auto-h		ming					
	comn										Hammer Weight (pour		er Drop I	Height (inches)	: 30		
-												iciency (%): <u>Not Available</u>						
- J											Hole Diameter: <u>5.875</u> Total Depth: 20.75 fee					lantifiar	4	
		_				_						Bepint		uwater		lentinet	4	
- IIISC	_					Sa	imple Dat			ł								
0.GPJ		÷				(se				5	Material							st)
) (fee	Count		2	(inches)				c Lo	Description							i (fee
ABLUCKLUGS.GPJ		Depth (feet)	Blow C	Type	¥	ngth	Numbe			Graphic Log				▲ S	PT N V	alue		Depth (feet)
		0-	B	ŕ	Å	Ľ	Tests	(ppm) <u></u>	Ū		,	1				0	0-
	2	_									Asphalt Concrete (2-inch thick) SILTY SAND WITH GRAVEL (SM), very dens							
)	_									coarse angular gravel.	so, ary, gray srown,						
		-																·
EGAE		-																·
<u>к</u> –		5-	46 46 50	\square	18in.	18	MBB18- Strong solvent-lik	5 , 1.3	SS									5
	2	-	50	А	₩	10	solvent-lik odor	ke 1.0										7 96
																		Ľ
		_																
DY I	1	0 -	42		÷		MBB18-1 Strong	- 1							ļ			- 10
	2	_	42 50	Д	11in.	11	solvent-lik odor	_{ke} <0.1	NS									<u></u> 50/5"
	1	-																+
HAN -		-																·
- F		_																
	1	5 -	18 38 50	M	1 7in.	17	MBB18-1 No odor	5 <0.1	NS		POORLY GRADED SAND WITH SILT (SP-S	M), trace gravel, very	1	1				1 5
	2		50	А	-						dense, dry to moist, gray-brown, subrounded	gravel.					8	
		_																
		_																
	2	20 -	48 50	\forall	. <u></u>		MBB18-2 No odor	20 <0 1	NS		grades to moist, pockets of silt							20
ά-ε	2	_	50		ā	-	No odor			[••[1]]	Bottom of Borehole at 20.8	feet.	1	1	1		5	50/3"
AKE/		-																-
		-																-
	2	25 —																-25
2																		_ 20
ALEYA	Ň	_																_
- 4-		_																-
- 102		-																-
71817	3	80 -																- 30
ģ-a	2	-																-
ARY.		-																
																		[
H H	3	s –																- 35
		_																-
å[` ≼	-	_																-
		-																-
HISHA		-																-
I I			Note															
											ns and symbols. changes may be gradual. Solid lines indicate distinct con	tacts and dashed lines indi	cate gra	idual or	approx	imate o	ontacts	s.
											dentification (ASTM D 2488), unless otherwise supported g/excavation (ATD) or for date specified. Level may vary		M D 248	37).				
<u> </u>	5. Lo	cati	on ar	nd g	rou	ind	surface e	elevation	is are	appro	pximate.							
				~				Projec	t:	Sea	ttle DOT Mercer Parcels Site	Boring Lo	a		Figu		A1-′	10
	71	14						Locatio	on:	Sea	ttle, Washington	MBB-1						
- E			A GIVI	aUN	oj H	undy i	& Aldrich	Projec	t No.:	194	409-04		0		Shee	71	1 of	1

ſ	Date											eted: 09/01/2020	Drilling Contractor/Crew:		ch and A	Austin				
	Logg	-					2 Long:				-	C. Kroskie	Drilling Method: <u>Hollow S</u> Rig Model/Type: Mobile B		ill ria					
							n: 51.6					04)	Hammer Type: Auto-ham		iii rig					
	Com												Hammer Weight (pounds)		r Drop I	Height (inches)	: 30		
													Measured Hammer Efficie							
zer													Hole Diameter: <u>5.875 inc</u> Total Depth: 20.8 feet	ches Casing Depth to				lentified	1	
chweit						\$2	ample Dat	2					· · · · · · · · · · · · · · · · · · ·		1					
- ms	t)							.a		-										
15.25	(fee	et)	Ŧ			les)					g		Material							et)
ХГ ХГС	Elevation (feet)	Depth (feet)	Count		٩٢	(inches)				_	lic Lo		Description							Depth (feet)
ABLO	Elev	Dept	Blow	Type	Recovery	ength	<u>Numbe</u> Tests	r PIE (ppr			Graphic Log					≜ s	PT N V	alue		Dept
Э Ш	-	0 -		-	ſ₩ 	-	16313	(ppi		0		SILTY SAND WITH GRA	VEL (SM) verv dense	dry to moist	1	10 2 	<u>0 3</u>	0 4	0	-0-
N I V	0	-										gray-brown, angular grav		, dry to molot,						-
.KGI	20	-								ŀ										ŀ
ABLO	-	-																		-
UEC:	-	5-	10					_												5
ΥCE ΥCE	-	Ŭ	13 50	X	10in.	10	MBB19- No odor	<u>-</u> <0.	1 N	S										
SWE	45	_																	с 	0/4"
Ï	-	-																		-
STEC	-	-																		-
ž 1 1		10 -	75		E	18	MBB19-1 Topsoil-lil	<u>0</u> ke <0.	1 N			SILTY SAND TO SAND			+					- 10
ASIE	40	-	5 13	μ	9	10	odor					(SM/ML), medium dense coarse angular gravel, fre	/very stiff, moist, gray to	o dark brown, silt		1	····· 8			-
ANY NV	-											hard drilling at 12.5 feet l								Ľ
ZIBK	-	_																		
A IIA		15 —	50		. <u></u>	5	MBB19-1 No odor	5 <0.	1 N	IS .		SILTY SAND WITH GRA								15
EOSP.	-	-			2		No odor					brown, subrounded grave	el.	, dry to moist,					5	T 0/5"
CS/G	35	-																		·
IMAI	_	-								ŀ										ŀ
A/GE	- ,																			
× DA	- '	20	28 50	X	Ö	10	MBB19-2	0				POORLY GRADED SAN gravel, very dense, mois	D WITH SILT (SP-SM)	, trace to few						20
KE/PU	30	_										of coarse sand.							5	0/4" -
NSHA	-	-										Bottom	of Borehole at 20.8 fee	et.						-
ECC	-	-																		-
DKIC	-	25 —																		-25
LΕΥΑ	25																			
- ₩P	-	_																		L
10:34	-	_																		F
2/6/12	:	30 —																		- 30
- F	20	-																		F
ARY.	-	-																		Ė
	-																			Ĺ
H/IN	- ;	35																		- 35
AI A/G	-	_																		F
ά Α		-																		-
PKE/S	-	-																		-
HS/W	-	-																		F
CH.CC			Note:		۰ ۸ ·	1 1	for ovolo	nation (of dos	coriu	ntior	is and symbols.								·
ALDRI	2. N	lateri	ial str	atu	m li	ines	s are inte	rpretive	and	act	ual c	hanges may be gradual. Solid l					approx	imate co	ontacts	
HALEY												dentification (ASTM D 2488), un g/excavation (ATD) or for date s			VI D 248	37).				
₹]	5. L	ocati	on ar	nd g	grou	und	surface e	elevatio	ns ar	e a	ppro	ximate.								
NGLC		H		0				Projec				ttle DOT Mercer Parcels Si	te	Boring Lo	g	T	Figu	e	A1-2	20
ROK							a Alderah	Locati Projec				ttle, Washington 09-04		MBB-1			Shee		1 of	-
Í										•••	. 5-1	• ·								

			ted: _ y: <u>C.</u>								eted: <u>09/02/2020</u> C. Kroskie	Drilling Contractor/Crew: Holt Drilling Method: Hollow Stem		ch and A	ustin				
						<u>95 Lon</u> on: <u>47</u>					84)	Rig Model/Type: <u>Mobile B-57</u> Hammer Type: <u>Auto-hammer</u>		ill rig					
	Com	ment	:s:									Hammer Weight (pounds): <u>14</u> Measured Hammer Efficiency		er Drop ⊦ 	leight (inches)	: <u>30</u>		
itzer												Hole Diameter: 5.875 inches Total Depth: 20.5 feet		Diamete o Groun			lentified	1	
- mschwe				1 1	S	ample D	Data		1										
GS.GPJ -	(feet) ו	eet)	Ŧ		inches)					og		Material							set)
LOCKLO	Elevation (feet)	Depth (feet)	w Count	Ð	Kecovery Length (inc	<u>Numl</u>	ber	PID	Sheen	Graphic Log		Description			• •				Depth (feet)
LMEGAB	— —	<u>а</u> 0 —	Blow	Type	Le Xe	Tes		(ppm)	Å	ō	SILTY SAND (SM) few o	ravel, medium dense, moi	st brown	1		PT N V 0 3	aiue 0 4	0	0-
GINIVAL	-										angular gravel, debris (fa	bric).	.,,						-
BLOCK	45	-																	-
	-	- 5	11			MBB2	20-5												- - 5
MERCE	-	-	11 12 10	Д	18	3 Sour- odc	like		SS							▲ 22			-
FILES	40	-																	_
ROJECI	-	- 10 —																	- 10
SIEKF	-	-	18 31 24	X;	18	3 MBB20 3 Sligi sour-like	ht	<0.1	SS		POORLY GRADED GRA very dense, dry, light gra	VEL WITH SILT AND SAN y, appears to be crushed g	ND (GP-GM), ravel.						55
CARY/MA	35															· · · · · · · · · · ·			-
AL_LIBH	_	-	-							Pod									-
OSPAII	-	15 — -	30 30 50	X,		MBB2	<u>0-15</u> dor	<0.1	NS		POORLY GRADED SAN very dense, moist, brown	D WITH SILT AND GRAVE	EL (SP-SM),						- 15
IICS/GE	-02	-																80	/10"
\GEOIMA	-	-																	_
X_DAIA	-	20 —	50	×;	<u>≓</u> l6	MBB2	<u>0-20</u> dor	<0.1	NS		SILTY SAND WITH GRA	VEL (SM), very dense, mo	 pist,/						20 2/6"
HARE/PD	25	_	-									of Borehole at 20.5 feet.	/						_
.COM/SF	-	-																	-
NLDRICH	-	25 —																	-25 -
(HALEY/	20	_																	_
10:34 - \	-																		_
21/9/21	_	30 —																	- 30
KY.GLB	-	-																	_
	-15																		_
GIN I/HC	-	35 —																	- 35
A_DATA	-	-																	_
ARE/SE/	-9-	_	-																_
COMISH	-	- neral	Notes	<u>.</u> .															-
LURICH.	1. F	Refer	to Fig	Jure							ns and symbols. changes may be gradual. Solid I	ines indicate distinct contacts ar	nd dashed lines indi	cate grad	dual or	approxi	mate co	ontacts	
WHALEY!	4. C	Groun	ndwat	er le	vel, i	if indicat	ted, is	s at tim	ne of	drilling	dentification (ASTM D 2488), unl g/excavation (ATD) or for date s			M D 248	87).				
- 100- 1				-		d surfac	1	vations oject:			ttle DOT Mercer Parcels Si	te	Dovinent			Figure		<u> </u>	
BORING		174				y & Aldrich	Lo	catio	n:	Sea	ttle, Washington 09-04		Boring Lo MBB-2			Figur Shee		A1-2	
Ĭ							1.1	5,000		104					1				

	ogge	ed by	ted: _ y: <u>C.</u> Lat:	Mc	Ca	be		-122	Cł	necke	d by:	eted: <u>09/02/2020</u> : <u>C. Kroskie</u> 84)	Drilling Contractor/Crew: <u>Holt</u> Drilling Method: <u>Hollow Stem</u> Rig Model/Type: Mobile B-57	Auger		Austin				
1		nd S	urfac				n: <u>47.6</u>						Hammer Type: <u>Auto-hammer</u> Hammer Weight (pounds): <u>1</u>	r		-leight (inches)	: 30		
-													Measured Hammer Efficiency Hole Diameter: <u>5.875 inches</u>	Casing	Diamete					
						Sa	mple Da	ta					Total Depth: 20.9 feet	Depth to	o Groun	dwater:	Not lo	lentified	1	<u> </u>
		 Depth (feet) 	Blow Count	Type	Recovery	Length (inches)	<u>Numbe</u> Tests		PID opm)	Sheen	Graphic Log		Material Description		1		PT N V 0 3		10	, Depth (feet)
	45	0										SILTY SAND (SM), trace	gravel, very dense, dry, bi	rown.						0
		- 5 -	25 50	X	10in.	10	MBB21- No odo	- <u>5</u> r	<0.1	NS									5	50/4"
	04	- - 0 -	26 32 45	X	18in.	18	MBB21- No odo	10 r	<0.1	NS		SILTY SAND WITH GRA	VEL (SM), very dense, dry	, gray-brown,	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	 10
	ς <u>ς</u> Γ	- - 5						15												77 15
	09	-	32 50	X	11in.	11	MBB21- No odo	r	<0.1	NS		grades to moist							5	▲ 50/5" .⊢
	2	20 -	14 50	X	11in.	11	MBB21-2 No odo	20 r	<0.1	NS		pockets of silt								20
	G Z	_										Bottom	of Borehole at 20.9 feet.						5	50/5"
	2	- 25 — -																		- 25 -
	07.3	- - -00																		- - -30
	15	-																		-
	10	15 — - -																		- 35 - - -
	1. Ro 2. M 3. U 4. G	efer ateri SCS roun	ial str desi idwat	gure atui gna er le	m li tior eve	nes ns a I, if	s are inte are based	erpret d on v d, is a	ive ar ⁄isual at tim	nd ac I-man e of c	tual o lual io drilling	ns and symbols. changes may be gradual. Solid l dentification (ASTM D 2488), un g/excavation (ATD) or for date s iximate.	less otherwise supported by labo	oratory testing (AST			approx	imate o	ontacts	<u> </u>
	+	17					SER & Aldrich	Loc	ject: atior ject l	ı:	Sea	ttle DOT Mercer Parcels Si ttle, Washington 109-04	te	Boring Lo			Figur Shee		A1-2 1 of	

	ite Star gged b				20					illing Contractor/Crew: <u>Holt S</u> illing Method: Hollow Stem A		ch and N	like				
Lo	cation:	Lat:	47.6	2505	51 Long: -12	22.3405	542 (\	WGS		g Model/Type: <u>Mobile B-58 / </u>	•	ill rig					_
			e Ele	vatio	on: <u>42.05</u> f	eet (NA	VD 8	88)		ammer Type: <u>Auto-hammer</u>							
Co	omment	s:								ammer Weight (pounds): <u>140</u>			leight (inches):	30		
-										easured Hammer Efficiency (% ble Diameter: 5.875 inches): <u>Not Available</u> Casing 		or· ΝΔ				
itzer										tal Depth: <u>36.5 feet</u>	Depth to				entified	1	_
even and a second				S	ample Data												_
SHAREIPDX_DATAGEOMATICS/GEOSPATIAL_LIBRARYMASTER_PROJECT_FILESMERCER_MEGABLOCKIONTALIMEGABLOCKLOGS GPJ-msch 20 35 40 56 57 30 36 26 30 35 57 50 50 50 50 50 50 50 50 50 50 50 50 50																	
S.GP	et)	t.		es)				ŋ		Material							et)
tion	ו (fe	Count	2	(inch				сГо	D	Description							(fee
ABLOCKLOGS.GPJ . Elevation (feet)	Depth (feet)	Blow (Type	Length (inches)	Number	PID	Sheen	Graphic Log					A S	PT N V	alue		Depth (feet)
IEGAL	0-	ă	, ₽ a	Le 2	Tests	(ppm)	ۍ ا	Ū				1		0 3		0	
ALLA	-								SILTY SAND WITH GRAVE to gray-brown.	L (SM), medium dense, n	noist, brown						.L -
40	_								to gray brown.								Ļ.
- OCK	_																.L
GABL	-																÷
- WE	5 —	14	\vdash		MBB-22-5 Strong							 					- 5
- RCE	-	21	Υ Į	18	organic-like odor	<0.1	NS										÷
35 35	-				(soil-like)									28	3		÷
Ë	-																÷
- UECT	-																-
- PRC	10 —	4	H														- 10
STER	-	7 6	Į į	18	MBB-22-10				ite receivery				. ≜				F
3- ^{MM}	-												13				F
- BRAR	-																F
	-																+
PATI/	15 —	22	J:i		MBB-22-15	<0.1	NS		SILTY SAND WITH GRAVE	L (SM), trace cobbles, de	nse, moist,	+			•		- 15
- BEOS	-	22 16 18	Щ	2 18	No odor	<0.1	113		brown.						≜ 34		F
1CS/G	-																F
- I	-																t
4/GE(-																Γ
DAT	20 —	5 8	N.=	18	MBB-22-20	<0.1	NS		POORLY GRADED SAND (▲			-20
	-	14	Д	-	No odor				gray-brown, fine to medium	sand, occasional silt pock	ets.			22			F
HARE/																	.[
SMO																	
CH.C	25 —																-25
ALDR		16 24 28	N ie	18	MBB-22-25 No odor	<0.1	NS		POORLY GRADED SAND V moist, gray-brown.	VITH GRAVEL (SP), very	dense,						L.
15 15	_	28	Ĥ						moist, gray-brown.								52
₩_	_																.L
10:34	_																Ļ.
/9/21	30 —	50			MBB-22-30 No odor	-01	NIS					 					30
B-21	-	50	Ϋ́	°	No odor	<0.1	NS		SILTY SAND (SM), trace gra	avel, very dense, moist, g	iay.					5	T 60/6"
d-137.GLI	_																÷
IBRAF	-																ŀ
니 오	-																÷
ENID-	35 —	13			MBB-22-35				SILTY SAND TO SANDY SI			<u> </u>					- 35
ATA(-	13 30 50	X iet	16	No odor	<0.1	NS		_gravel, very dense, wet, gray	/.	, trace					4	₽ 0/10"
5-D	_								Bottom of I	Borehole at 36.5 feet.						- Ol	10
ARE/S	-																F
_HSM	-																F
Q C	General	Note	s:														<u> </u>
1 2 2 2 2									is and symbols.	indicate distinct contacts and	daahad linaa indi	noto aro	dual ar	opprovi	moto o	ontooto	
Z ZALE									changes may be gradual. Solid lines dentification (ASTM D 2488), unless					approxi	mate co	ontacts	-
HAL									g/excavation (ATD) or for date speci	fied. Level may vary with time.							
HEBORING LOG-WHALEYALDRICH.COMSHAREISEA DATAIGINTHC_LIBRARY.GLB - 21/9/21 10:34 - WHALEYALDRICH.COMS	. Locati	un al	iu gro	Juno	l surface ele												
						roject:			ttle DOT Mercer Parcels Site		Boring Lo	g		Figur	e	A1-2	<u>23</u>
BOR					a Aldetak	ocation			ttle, Washington 09-04		MBB-2	2		Shee		1 of	
Ч						Jeci	110.:	194	03-04			-					

	ate Star gged b				20				eted: <u>09/21/2020</u> : C. Kroskie	Drilling Contractor/Crew: Ho Drilling Method: Hollow Sten		ch and N	like				
					39 Long:					Rig Model/Type: Mobile B-59 / Track-mounted drill rig							
			e Ele	vatio	on: <u>47.18</u>	8 feet (NA	AVD 8	38)		Hammer Type: <u>Auto-hamme</u>							
Co	omment	ts:								Hammer Weight (pounds):		•	Height (inches)	: 30		
-										Measured Hammer Efficiency Hole Diameter: 5.875 inches			⊃r·NΔ				
itzer										Total Depth: <u>35.83 feet</u>	Depth t				dentifie	d	
schwe				S	ample Dat	a											T
- l - ms								1									
ABLOCKLOGS.GPJ . Elevation (feet)	et)	<u>+</u>		es)				D		Material							et)
KLOG	Depth (feet)	Count		Length (inches)				Graphic Log		Description							Depth (feet)
BLOC	Jeptl	Blow (Type	ngth	Numbe		Sheen	aph					≜ s	PT N V	/alue		Deptl
L EGA	0-	B	μų	1	Tests	(ppm)	ŝ	Ū				1				10	
ALL	-	-							SILTY SAND WITH GRA	VEL (SM), medium dense	e, moist, brown.						
45	-	-															· -
, Tç	-	-															·
EGAB	-	-															·
2 2	5 —	3	H_{-}	<u>.</u>	MBB-23- Moderate												- 5
- ERCE	-	6	X i	18	Moderate ganic-like/n odor	nusky ^{<0.1}	SS						. ▲ 13				·
4-Esw	-	1											13				·
	-	1															· -
- SOLE	-	1															
н Ц	10 —	7 14 18	M	18	MBB-23-1 Moderate ganic-like/m	e e	NS		grades to dense with occ	asional pockets of silt, wo	ody debris, and						- 10
ASTE		18	А÷		odor	nusky			oxidized staining						32		Γ
ARY/M/ 35	_																Ŀ
LIBR	_	-															
TIAL	15 —	5	\square		MBB-23-1 Strong									ļ			- 15
LOSP/	-	5 11 17	Į.	18	organic-lik odor	ke <0.1	NS		SILTY SAND TO SANDY dense, moist, brown to ye	ellow-brown, occasional si	ilt pockets,						· -
30-CS/GE	-	1	Π		(seafood	?)			occasional iron oxide stai		•			2	8 		·
MATIC	-	-															·
\GE0	-	1													· · · · · ·		·-
DAT	20 —	4	Ĭ	10	MBB-23-2 Strong ganic/marin	20	NS		SANDY SILT (ML), very s	stiff, moist, gray-brown to	red-brown,						-20
XD4	-	8	Д	2 bfq	ganic/marin odor	ne-like ^{0.1}			frequent sand lenses.				16				·
HARE 25	_]															Ϊ
SMOS	_																
CH.C	25 —	10	Ц		MBB-23-2	25								 	 		-25
ALDF	-	10 13 14	Į.	18	Moderate marine-lik		NS		POORLY GRADED SAN medium dense, moist, gra	D WITH SILT AND GRAV av-brown to light brown. c	/EL (SP-SM), oarse gravel.						·
20-HALE	-		Π		odor					,	0			27	, ·····		·
- ₩-	-	-															·
- 10	-																·
21/9/:	30 —	46 50	μį	10	MBB-23-3 No odor	<u>30</u> <0.1	NS		SILTY SAND (SM), few c	oarse gravel, very dense,		+		+	 		▲ 30
GLB	-		$\prod_{i=1}^{n}$							-	-					5	50/4"
15	-]															Ē
	_																Ĺ
HLTN	35 —	10	Ц										 	 			- 35
TA/GI	-	16 2 50	₩Ę	18	MBB-23-3 No odor		NS	┝╢╢	POORLY GRADED SAN	D WITH SILT AND GRA∖ ckets of silt.	/EL (SP-SM), /	1		1		L	
1- 1-	-							<u>- 111</u>		of Borehole at 35.8 feet.	/						52 Г
RE\SE	-																╞
MSHA 1	-	-															+
E CO	General	Note	s:														
									ns and symbols. changes may be gradual. Solid li	nes indicate distinct contacts	and dashed lines indi	cate ora	dual or	approx	imate c	ontacts	
EYAL	. USCS	6 desi	gnati	ons	are based	d on visua	ıl-mai	nual i	dentification (ASTM D 2488), unl	ess otherwise supported by lat	ooratory testing (AST			-PP: 0A			-
4 5					f indicated I surface e				g/excavation (ATD) or for date sp eximate.	pecified. Level may vary with ti	me.						
	_		-			Project:			ttle DOT Mercer Parcels Sit				1	_			_
SRING	+[]/				FER	Locatio			ttle, Washington		Boring Lo	-		Figu		A1-2	
HC BC		A div	ision of	Haley	a Alderen	Project			-		MBB-2	3		Shee	et	1 of	1
-				_												-	-

Date Started: 09/09/2020 Date Completed: 09/09/2020 Drilling Contractor/Crew: Holt Services, Inc. / Mitch and Austin Logged by: C. McCabe Checked by: C. Kroskie Drilling Method: Hollow Stem Auger Location: Lat: 47.625039 Long: -122.341833 (WGS 84) Rig Model/Type: Mobile B-57 / Track-mounted drill rig Ground Surface Elevation: 54.10 feet (NAVD 88) Hammer Type: Auto-hammer Comments:																	
Elevation (feet)	Depth (feet)	Blow Count	Type Recovery	Length (inches) S	mple Data <u>Number</u> Tests		Sheen	Graphic Log		aterial scription				PT N V			Depth (feet)
	0 — - - 5 —	12 22 34	18in.		MBB24-5 No odor		NS	C C	Concrete (8-inch thick) SILTY SAND (SM), very dense oxidation.	, moist, brown, fine sand,	localized	<u> 1</u> 	0 2 	0 <u>3</u>	0 40) 	0- _ _ _ 5
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- - 10 -	34 30 50	Zir.		MBB24-10 No odor		NS		SILTY SAND WITH GRAVEL (gray-brown, coarse angular gra				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			56 - - 10 (11"
	- - 15 - -	5 18 38	18in.	18 1	MBB24-15 Moderate /drocarbon- odor	² like 346	NS		SANDY SILT (ML), hard, moist and seams of fine to medium s	, gray-brown, scattered po and.				· · · · · · · · · · · · · · · · · · ·			- - 15 - 56 -
30 1 1 1 1 35	20	12 34 50	Υ Έ	nilŝņ	MBB24-20 Faint y/hydrocarb odor	<u>)</u> bon-like ¹	NS		POORLY GRADED SAND WI moist, gray, occasional pocket	TH SILT (SP-SM), very der s of silt.	 nse,		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		84,	- - 20 /10" - -
25 1 10.34 - MIALETALDAUC	25 — - - - 30 —		2in.		<u>MBB24-25</u> No odor <u>MBB24-30</u>)	NS		SILTY SAND WITH GRAVEL (gray-brown.				· · · · · · · · · · · · · · · · · · ·			50	- 25)/4" - - - 30
	$30 - 34 = 50$ $30 - 50 = 12$ $30 - 50 = 12$ $MBB24-30$ $Musty odor$ $Musty odor$ $Musty odor$ $MS = POORLY GRADED SAND WITH SILT (SP-SM), very dense,$ moist to wet, gray, occasional pockets of silt. $50/6^{\circ}$ $35 - 36 = 50$ $MBB24-35$ 6.4 $NS = POORLY GRADED SAND WITH SILT (SP-SM), very dense,$ $30 - 30$ $MUSTy odor$ $MBB24-35$ 6.4 $NS = 0$ $MBB24-35$ $50/4^{\circ}$ $35 - 35$ $50/4^{\circ}$																
1 2 3	General . Refer . Mater . USCS	to Fig ial stra desig	ure A itum I natio	lines ns a	s are inter are based	pretive a on visua	ind ac II-mar	tual c nual io	s and symbols. hanges may be gradual. Solid lines in lentification (ASTM D 2488), unless off	nerwise supported by laboratory				approxi	mate co	ntacts.	-
5		ion an	d grou	und	surface e		s are a	appro Seat Seat	tle DOT Mercer Parcels Site tle, Washington	3. Level may vary with time.	Boring Log			Figur Shee		41-2 1 of 2	



C / Jeffrey
150CC / Track-mounted
ches Cas
Dep

Sample Data

ntractor/Crew	: AEC / Jeffrey		
Model/Type:	TSi 150CC / Track-mou	nted drill rig	
le Diameter:	10 inches	Casing Diameter:	NA

epth to Groundwater: Not Identified

Sample Data														
	 Depth (feet) 	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log		Material Description					
	- 0							ר <u>Concrete (4-inch thick)</u> Air knife to 5 feet						
ABLOCK/GINT/ALLME	-										-			
55	-										L			
- L	5 -		6	MBB-25-5 No odor, slight white	<0.1	ss	٥N	SILTY GRAVEL WITH SAND (GM), (dense), moist, gr	av-brown subrounded to rounde		- 5			
	-			sheen				occasional metal debris. [FILL]		a gravol,	-			
	-							occasional brick fragments			F			
2-23	-			MBB-25-10 No odor,				concrete rubble			-			
	10 -		12	slight white	<0.1	SS	ŝČ				- 10 -			
	-										-			
45	-							cobble at 13 feet						
	15 -		12	MBB-25-15 No odor	<0.1	NS		occasional pockets of silt 15 to 18 feet			- 15			
	-						20 0	4 inch long steel rebar in cuttings, scattered asphalt de	shrie [EII]		-			
	-													
40	-	- 		/BB-25-20(D)				CLAYEY GRAVEL WITH SAND (GC), trace cobbles, (medium dense), moist, red-brow	n to grav-brown.	$\frac{1}{2}$			
	20 -		12	No odor	<0.1	NS		coarse gravel, frequent pockets of gray clay, occasion \staining.	AYEY GRAVEL WITH SAND (GC), trace cobbles, (medium dense), moist, red-brown to gray-brown, arse gravel, frequent pockets of gray clay, occasional pockets of gray silt, frequent iron oxide					
E	-							SILTY GRAVEL WITH SAND (GM), (medium dense), rounded gravel. [FILL]	moist, light gray to gray-brown, fi	ne subangular to	-			
35	-						5¢	scattered brick fragments 22.5 to 25 feet			E			
-	25 -	\boxtimes	12	MBB-25-25 No odor	<0.1	NS					-25			
Ľ	-										-			
-	-						\mathbb{C}°	concrete debris (3-inch diameter) at 27 feet						
-8	-			MDD 05 00				SILTY SAND WITH GRAVEL (SM), (medium dense), POORLY GRADED GRAVEL WITH SAND (GP), (loos			-			
-	30 -	×	12	MBB-25-30 No odor	<0.1	NS		rounded gravel.		/	- 30			
-	-							POORLY GRADED SAND (SP), few gravel, (loose), w SILTY SAND (SM), few gravel, (medium dense), wet, y	 gray.	/í	-			
25	-							SANDY SILT (ML), trace gravel, (medium stiff), wet, gu POORLY GRADED SAND WITH SILT AND GRAVEL		 gray, subangular /	-			
-	35 -		12	MBB-25-35 No odor	<0.1	NS		∖to rounded gravel. \LEAN CLAY WITH SAND (CL), trace gravel, (medium)		/	-35			
	-			110 0401				CLAYEY SAND WITH GRAVEL (SC), (dense), wet, gr	 ay		-			
	-							LEAN CLAY WITH SAND (CL), trace gravel, (hard), m POORLY GRADED SAND WITH CLAY AND GRAVEL	(SP-SC), (medium dense), wet,					
20 1 20	-			MBB-25-40				gray-brown, fine to coarse subrounded to rounded grav	/el.		-			
	– 40 Genera	<u>⊢</u> I No	tes:	No odor	<0.1	NS	<u> I/</u>	Bottom of Borehol	e at 40.0 feet.		-40			
2	. Mate	rial :	strat	um lines are	e interp	retive	e and	scriptions and symbols. actual changes may be gradual. Solid lines indicate distinct contac	ts and dashed lines indicate gradual or	approximate contacts	s.			
4	. Grou	ndw	ater	level, if ind	icated,	is at	time	nanual identification (ASTM D 2488), unless otherwise supported by of drilling/excavation (ATD) or for date specified. Level may vary wit						
5	. Locat	tion	and	ground sur	_			e approximate.						
	+122			ROWSE	RL	roje ocat		Seattle DOT Mercer Parcels Site Seattle, Washington	Sonic Core Log	Figure A1-2				
2		A	atvisio	n of Haley & Ald	n on P	roje	ct No	b.: 19409-04	MBB-25	Sheet 1 of	1			

Date Started: 10/29/2020	Date Completed: 10/29/2020
Logged by: B. Lytle/J. Vanderwal	Checked by: C. Kroskie
Location: Lat: 47.624650 Long: -122.3	42079 (WGS 84)
Ground Surface Elevation: 58.79 feet ((NAVD 88)
Comments: Temporary well screen set	at a depth of 30 to 40 feet.

 Contractor/Crew:
 AEC / Jeffrey

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter: NA

Total Depth: 40 feet

÷			Sample Da	ata							
Elevation (feet)	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Materia Descripti			Water Level	Depth (feet)
-	-					<u></u>	∩ Concrete (4-inch thick) Air knife to 5.2 feet. Broken rebar, wood stake and det with sand to 5.2 feet	oris in hole at 2 feet, appears to b	/ e silty gravel	_	-
-អ្ន - 5- - -		3	MBB-26-5 No odor	<0.1	NS		POORLY GRADED GRAVEL (GP), (loose), moist, pin gravel.	k to gray to brown, subrounded to	o rounded		- 5 - 5 -
- <u>6</u> - 10 -	- -X	12	MBB-26-10 No odor	<0.1	NS		POORLY GRADED SAND WITH GRAVEL (SP), (1005				- 10
- - 4 - - - - - - -	- - - - -	12	MBB-26-15 No odor	<0.1	NS		red-brown, subrounded to rounded gravel.	(Gr-Givi), (ioose), moist, gray-br	UWI IO		- - - 15
- - - - - - -		12	MBB-26-20 No odor	<0.1	NS		SILTY SAND (SM), (loose), moist, gray-brown, fine sa SANDY SILT (ML), (medium stiff), moist, gray-brown,			_	- - 2(
- - 25 - -		12	MBB-26-25 No odor	<0.1	NS		POORLY GRADED SAND (SP), trace gravel, (loose),	moist, gray-brown, fine to mediu	m sand.		_ _ 2!
- - 30 - -		12	<u>ИВВ-26-30(D)</u> No odor	<0.1	NS		POORLY GRADED GRAVEL WITH SILT AND SAND gray-brown, subangular to subrounded gravel.	(GP-GM), (very dense), moist, lig	ght brown to	_	-
	- - -	12	MBB-26-35 No odor	<0.1	NS		SILTY SAND (SM), trace gravel, (dense), wet, gray, fir medium sand, frequent iron oxide staining. caving 30 to 40 feet	ne sand with occasional partings	to layers of	ATD ⊻	-
- - -ನ - 40 -	- - - -	6	MBB-26-40 No odor	<0.1	NS		SANDY SILT (ML), trace gravel, (very stiff), wet, gray. SILTY SAND (SM), few fine to coarse subrounded to r	rounded gravel, (dense), wet, gra	y.		- - -40
2. Mate 3. USC 4. Grou	er to erial CS d undv	Figu strat esigr vater	um lines are nations are b level, if indi	e interp based c icated,	retive on vis is at	e and sual-m time o	Bottom of Borehole scriptions and symbols. actual changes may be gradual. Solid lines indicate distinct contar nanual identification (ASTM D 2488), unless otherwise supported by of drilling/excavation (ATD) or for date specified. Level may vary wi e approximate.	cts and dashed lines indicate gradual or y laboratory testing (ASTM D 2487).	approximate con	tacts	
U H			ROM/SE In of Haley & Ald		Proje ocat Proje	ion:	Seattle DOT Mercer Parcels Site Seattle, Washington b.: 19409-04	Sonic Core Log MBB-26		1-2 ⊨of	

Date Started: 03/06/2019	_ Date Completed: <u>03/06/2019</u>	_ Contra
Logged by: <u>B. McDonald/B. Dozier</u>	_ Checked by: <u>C. Kroskie</u>	Rig Mo
Location: Lat: 47.625270 Long: -122.3	340358 (WGS 84)	Hole D
Ground Surface Elevation: 39.95 feet	(NAVD 88)	Total [
Comments:		

 Contractor/Crew:
 Holt Services, Inc. / Louie

 Rig Model/Type:
 GeoProbe® 5800 / Truck-mounted push-probe rig

 Hole Diameter:
 2 inches
 Casing Diameter: NA

 Total Depth:
 30 feet
 Depth to Groundwater: 23 feet

Sample Data Sample Data Bornal Bor												
st)				Jaid	+							
Elevation (feet)	Depth (feet)	[ype	Length (inches)	PID (ppm)	Graphic Log	Material Description			Water Level	Depth (feet)		
-	0 -			(((((((((((((((((((((((((((((((((((((((SILTY SAND WITH GRAVEL (SM), (medium dense), moist, gray-bro	own. [FILL]		ŕ	c		
-	-		12	0.1						-		
35	5 -		12	0.3		POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM), (me	dium dense), moist, gray-brown.	. [FILL]		- {		
-	-		12	0.2						_		
30-	- 10		12	0.3	00000					- 10 -		
-	-	-	12	0.3						_		
25	- 15 -		12	0.1	0000					- 15 -		
	-	D	12	0.1		SILTY SAND WITH GRAVEL (SM), (medium dense), wet, gray-brow	 n.			-		
20	- 20 - -		I 12 0.1 SILTY SAND WITH GRAVEL (SM), (medium dense), wet, gray-brown.									
-	-		12	0.1		SILTY SAND (SM), (medium dense), wet, gray.			atd ⊻	_		
15	- 25 -		12	0.2						- -2		
-	-		12	0.2		Becomes brown, interbedded fine silty sand, iron oxide staining.				-		
-9-	30 -					Bottom of Borehole at 30.0	feet.			-3		
-	-									-		
-	-									_		
-0	35 -	- 35										
General Notes:												
2. 3. 4.	Mate USC Grou	rial : S de ndw	strat esigr vater	um lin nations level,	es are s are b if indi	explanation of descriptions and symbols. e interpretive and actual changes may be gradual. Solid lines indicate distinct contact based on visual-manual identification (ASTM D 2488), unless otherwise supported by cated, is at time of drilling/excavation (ATD) or for date specified. Level may vary wit face elevations are approximate.	laboratory testing (ASTM D 2487).	r approximate cont	tacts			
_				-		Project: Seattle DOT Marcor Parcols Site	Push Probe Log	Figure A	1-2	20		
					ey & Aldr	Location: Seattle, Washington	MBGW-1		of			
-	-	-	_						_	_		

Date Started: 03/04/2019 Date Completed: 03/05/2019 Logged by: C. McCabe Checked by: C. Kroskie

 Logged by:
 C. McCabe
 Checked by:
 C. K

 Location:
 Lat: 47.625154
 Long: -122.340374 (WGS 84)

Ground Surface Elevation: _46.11 feet (NAVD 88)

Comments:

itzer

Drilling Contractor/Crew: <u>Holt Services, Inc.</u> Drilling Method: <u>Hollow Stem Auger</u>

Rig Model/Type: Track Rig 115

Hammer Type: <u>Auto-hammer</u>

Hammer Weight (pounds): <u>140</u> Hammer Drop Height (inches): <u>30</u>

Measured Hammer Efficiency (%): Not Available

Hole Diameter: <u>5.875 inches</u> Total Depth: <u>81 feet</u>

s Casing Diameter: <u>NA</u>
Depth to Groundwater: <u>30 feet</u>

	Sample Data															
Elevation (feet)	 Depth (feet) 	Blow Count	Type	Recovery	Length (inches)	<u>Number</u> Tests	PID (ppm)	Graphic Log	Material Description		Water Level		WC (% es Conte SPT N V 20 3	ent (%) alue	0	Depth (feet)
45	0								SILTY SAND WITH GRAVEL (SM), dense, moist, da gray, scattered organics. [FILL]	ark brown to						
	-	12 20 14	X	18in.	18	No odor, no sheen	<0.1							▲ 34		
40	5	7 7 5	X	12in.	18	No odor, no sheen	<0.1		Becomes medium dense.			A 12		• • • • • • • •		-
	-	0 2 30	X	15in.	18	No odor, no sheen	<0.1		Becomes dense.					▲ 32…		
35	10 -	27 50	X	12in.	12	Sewage odor, no sheen	<0.1		Becomes very dense, trace concrete fragments.					•••••	5	1 0/6"
	-	21 23 15	X	-ii 1	18	Sewage odor, no sheen	<0.1		Becomes dense, gray/light gray.					×	8	
30	15 — -	14 14 18	X	12in.	18	No odor, no sheen	<0.1		POORLY GRADED SAND WITH SILT AND GRAVE dense, moist, brown-gray, coarse sand to fine grave				•	▲ 32		1
	-	6 5 5	X	18in.	18	GS, WC, No odor, no sheen	<0.1		SILTY SAND WITH GRAVEL (SM), loose to mediun brown, occasional layer of sandy silt, occasional iror	n dense, moist, n oxide staining.		17 ••• ×				-
25	20	3 3 4	X	12in.	18 0	GS, WC, Drganic odor, no sheen	<0.1		SANDY SILT WITH GRAVEL (ML), medium stiff, mo charcoal/wood debris (peat).	 bist, gray,		▲ ● 7	22 . X			2
	-	3 4 5	X	18in.	18	No odor, no sheen	<0.1		SILTY SAND (SM), loose, wet, gray, occasional cha trace gravel.	rcoal, organics,		4	•			-
20	25 — -	6 2 1	X	18in.	18	GS, WC, No odor, no sheen	<0.1		SILTY SAND WITH GRAVEL (SM), very loose, wet, 6 inches: black charcoal/wood debris (peat).	gray, bottome		17- 17- 3				-2
	-	7 10 13	X	18in.	18	No odor, no sheen	<0.1		SILTY SAND (SM), medium dense, wet, gray, few g	ravel.			▲ 23			- - -
15	30 — _	1 8 11	X	18in.	18	GS, WC, No odor, no sheen	<0.1		POORLY GRADED SAND WITH SILT (SP-SM), me wet, gray.	dium dense,	_atd ¥	10	19			—3 .—
	-	-				0.100.1								• • • • • • • • •		- ,-
10	35 -	4 6 11	X	18in.	18	GS, WC, No odor, no sheen	<0.1		POORLY GRADED SAND (SP), medium dense, we brown, trace gravel.	t, gray to		6 XA	•			3
	-					Sileen						1	<u>,</u>			
1. 2. 3. 4.	Refer Mater USCS Grour	ial stra 3 desig ndwate	ure atur gnat er le	n lir ion vel	nes s a , if	are interproventions are interprovention of the second sec	etive ar n visual s at tim	nd ac I-man e of c	iptions and symbols. tual changes may be gradual. Solid lines indicate distinct contac ual identification (ASTM D 2488), unless otherwise supported by Irilling/excavation (ATD) or for date specified. Level may vary wit ipproximate.	laboratory testing (A			approxi	mate c	ontacts	i.
-+	-11/2	A divis					oject: catior	n:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04	Boring			Figur Shee		A1-2	

	Logg Loca Grou		/: <u>C.</u> Lat: urfac	Мс 47.	Cab 625	ре 154		C 22.3403	heck 374 (ad by: C. Kroskie Drilling Method: NGS 84) Rig Model/Type 8) Hammer Type: Hammer Weight	t (pounds): <u>140</u> ner Efficiency (%): <u>Not A</u> <u>5.875 inches</u>	Hamme vailable Casing	er Drop e Diamete o Grour	er: <u>NA</u>				
	Elevation (feet)	Depth (feet)	Blow Count	Type	ry	Length (inches)	<u>Number</u> Tests	PID (ppm)	Graphic Log	Material Description		Water Level		¥ Fine ▲ S	WC (% es Conte SPT N V 20 3	ent (%) ′alue	10	Depth (feet)
	- 2	40 -	4 8 13	X	18in.	18	GS, WC, No odor, no	<0.1		POORLY GRADED SAND WITH SILT (SP- wet, gray, occasional iron oxide staining, he	SM), medium dense, aving sands.		5 X .				·	40-
		-	6 21 23	X	18in. 1	18	sheen No odor, no sheen	<0.1		POORLY GRADED SAND WITH SILT (SP- to gray, heaving sands, trace gravel.	SM), dense, wet, brow	n –		· · · · · · · · · ·	21	· · · · · · · · · · · · · · · · · · ·	 •	
	0	45 — - -	12 19 31	X	18in 1	18	No odor, no sheen	<0.1		Becomes very dense.			 					45 50
		- - 50	6 18 27	X	18in. 1	18	GS, WC, No odor, no	<0.1		Becomes dense, brown, medium to coarse	sand, frequent iron			•••••				 50
		-	27		,		sheen			oxide staining.							45	
	-10	55 — - -	13 15 15	X	12in.	18	GS, WC, No odor, no sheen	<0.1		Becomes medium dense to dense, heaving	sands.		1	2 	 4 4	30		
	-15	- 60 - -	50	×	3.5in.	4	No odor, no sheen	<0.1		SILTY SAND WITH GRAVEL (SM), very de	nse, wet, brown.		·····	· · · · · · · · · · · · · · · · · · ·			···· 5(60 0/3.5"
		- - 65	50	X	in.	5	No odor, no	<0.1		SILTY GRAVEL WITH SAND (GM), very de	nse, wet, gray.		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		 65
	-20	-	-				sheen			SILTY SAND WITH GRAVEL (SM), very de	nse, wet, brown,						··· 5	i0/5"
1 21217 - Z 11217 - L	-25		50	×	4.5in.	5	GS, WC, No odor, no sheen	<0.1		frequent iron oxide staining.			1	1			•• 50	70 70/4.5"
	75 50 ⊠ ^{ti} _{us} 6 GS, WC, No odor, no sheen <0.1																	
	1. F 2. M 3. L 4. C	Vateri JSCS Groun	to Fig al str desig dwat	gure atur gna er le	n lir tion: evel,	nes s a , if	are interp are based o indicated, i	retive a n visua is at tirr	nd ao I-mai ne of	iptions and symbols. tual changes may be gradual. Solid lines indicate disti ual identification (ASTM D 2488), unless otherwise su drilling/excavation (ATD) or for date specified. Level ma approximate.	ported by laboratory testin	es indi g (AST	cate gra M D 248	dual or 37).	approx	imate o	ontacts	5.
		H/A		_	-	_		roject: ocatioi roject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04		ng Lo GW	-		Figur Shee		A1-2 2 of	



Date Started: 03/07/2019	Date Completed: 03/07/2019
Logged by: <u>B. McDonald/B. Dozier</u>	Checked by: <u>C. Kroskie</u>
Location: Lat: 47.625180 Long: -122.3	40944 (WGS 84)
Ground Surface Elevation: _47.77 feet	(NAVD 88)
Comments:	

 Contractor/Crew:
 Holt Services, Inc. / Louie

 Rig Model/Type:
 GeoProbe® 5800 / Truck-mounted push-probe rig

 Hole Diameter:
 2 inches
 Casing Diameter:
 NA

 Total Depth:
 28 feet
 Depth to Groundwater:
 25 feet

							_			
		Sar	nple	e Data						
40 1 1 45 1 Elevation (feet)	Depth (feet)		h (inches)		Graphic Log	Material Description			er Level	Depth (feet)
Ele		Type	Length	PID (ppm)	Grap				Water	Dep
-	0-					SILTY SAND WITH GRAVEL (SM), (medium dense), moist, brown.	[FILL]			
-	_									
45	-	Н	12	0.5						F
	-	Π	12	0.6		Scattered fabric debris.				╞,
-	5-									
-	-		10	0.2		Becomes wet, interbedded with gray, silty sand.				F
-4	-	Н	12	0.3		Decentee wer, merbedded with gray, only eand.				╞
_	- 10 -		12	0.5	° H	SILTY GRAVEL WITH SAND (GP-GM), (medium dense), moist, dar	k brown, numerous organics (sm	all roots).		- - 10
_	-				Pall	[FILL]				
-	-		12	0.2	РЦ	SILTY SAND WITH GRAVEL (SM), (medium dense), moist, gray-br			-	F
35	-		12	0.2						-
_	- 15		12	0.3		SILTY SAND (SM), (medium dense), moist, gray-brown, trace grave	 I.		1	- 15
-	-									-
30	-	П	12	0.4		Becomes dense, fine to medium sand.				-
- -	-									È
-	20 -		12	0.3		SILTY SAND WITH GRAVEL (SM), (dense), moist, brown.				-20
-	-	-								L
25	-		12	0.3						F
-	-									
-	25 —		12 0.4 SILTY SAND (SM), (dense), moist, gray-brown.		atd ⊻	-25				
-	-	DORLY GRADED SAND (SP), (dense), wet, gray-brown.				-	F			
20						╞				
-	-					Refusal at 28.0 feet.				
-	30 -									-30
_	-									F
-15	-	1								Ľ
-	-									F
-	35 —	-								- 35
_	-									E
-6	-]								Ľ
_	-	-								F
- General Notes:										
2.	1. Refer to Figure A1-1 for explanation of descriptions and symbols. 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.									
4.	 USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time. 									
5. Location and ground surface elevations are approximate.										
Bit Project: Seattle DOT Mercer Parcels Site Push Probe Log Figure Project No.: Bit Project: Seattle DOT Mercer Parcels Site Push Probe Log Figure Project No.: F					Figure A	1-3	30			
Adivision of Haley & Aldrich Project No.: 19409-04 MBGW-3 Sheet 1						of	1			

Date Started: 03/06/2019	Date Completed: <u>03/06/2019</u>	Contractor/Crew: Holt S	
Logged by: <u>B. McDonald/B. Dozier</u>	Checked by: <u>C. Kroskie</u>	Rig Model/Type: GeoPre	
Location: Lat: 47.625180 Long: -122.3	40728 (WGS 84)	Hole Diameter: 2 inches	
Ground Surface Elevation: _47.30 feet	Total Depth: 25 feet		
Comments:			

Izel	Sample Data															
T Flevation (feet)		⊖ Depth (feet) ∣		(inches)	PID (ppm)	Graphic Log	Material Description POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM), (me	dium dense), moist, gray-brown	[FILL]	Depth (feet)						
	2			12	0.1					-						
		- 5 -		12	0.3	$\sum_{i=1}^{i}$	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), (me [FILL]	dium dense), moist, gray-brown,	brick debris.	 5 -						
	2	- - 0 -		12 12	1.3 0.4		Becomes wet.			- - - - 10						
	8			12	0.2		Scattered fine organics, brick and wood fragments, becomes dark gr			-						
	1	- 5		12	0.2		POORLY GRADED GRAVEL WITH SAND (GP), (medium dense), n	noist, gray-brown. [FILL]		- 15						
	8			12	0.1		SILTY SAND WITH GRAVEL (SM), (medium dense), moist, gray-bro	 own. [FILL]		-+						
	2	20		12	0.1 0.2		Becomes dense, trace gravel.			- 20 -						
	9	-		12	0.2					-						
	2	25		12	0.2		SILTY SAND (SM), (dense), moist, gray-brown. Refusal at 25.0 feet			25						
	0	-								_						
	3	80 — -								- 30 -						
	2									-						
	3	95 — _								35 -						
	2	-								-						
	General Notes: 1. Refer to Figure A1-1 for explanation of descriptions and symbols. 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts. 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time. 5. Location and ground surface elevations are approximate.															
	A division of Haley & Ald						Push Probe Log MBGW-4		-31 of 1							
Lo Lo Gr		y: <u>C.</u> Lat: urface	Kros 47.62	kie 2516	19 64 Long: -12 on: <u>49.87 f</u>	C 22.3412	heck 284 (ed by: <u>C. Kroskie</u> Drilling Meth WGS 84) Rig Model/T 88) Hammer Ty Hammer W Measured H Hole Diame	lammer Efficiency (%): <u>Not A</u> ter: <u>5.875 inches</u>	inted d Hamm vailabl Casing	Irill rig er Drop e J Diamet	Height (er: <u>NA</u>				
------------------	----------------------------------	---------------------------------------	-----------------------------------	----------------------	--	--------------------------------	---------------------------	---	---	--------------------------------------	---------------------------------------	---------------------------	---------------------------------------	---------	----------------------	---------------------------
								Total Depth	76.5 feet	Depth	to Grour	dwater:	<u>28 fee</u>	:t		
Elevation (feet)	 Depth (feet) 	Blow Count		Length (inches)	pple Data <u>Number</u> Tests	PID (ppm)	Graphic Log	Material Description		Mater Level	Watci Level		PT N V:		10	, Depth (feet)
	0-							Asphalt.							[-0-
	-	27 50	X f	11	Slight sheen	0.2		POORLY GRADED SAND WITH SILT A very dense, moist, light brown. [FILL]	.ND GRAVEL (SP-SM),							 60/5"
	5	50	2in Sin	5	Slight sheen	0.1									5	5 0/5"
	-	31 50	X É	11	Slight sheen	0.1										60/5"
40	10 -	33 50	X ië	9	Slight sheen	0.1									5	10
	-	32 44 47	High High	18	Slight sheen	<0.1		Abusive drilling. SILTY SAND WITH GRAVEL (SM), very	dense, moist, light brown	 I.			· · · · · · · · · · · · · · · · · · ·			91
	15 — -	15 23 47	High Light	18	No sheen	0.1		SILTY SAND (SM), very dense, moist, li	ght brown, layer of gravel.						4 4	- 15 70
	-	15 50	X	11	No sheen	<0.1		SILTY SAND (SM), trace gravel, very de	nse, moist, light brown.							
	- 20 -	42 50	X ie		No sheen	<0.1		Layer of black tar-like substance.							5	20
	-	00													5	i0/3"
	-	50	ij Bi	6	No sheen	<0.1		SANDY SILT (ML), trace gravel, hard, m layers of sand.	oist, light brown, frequent							
	25 — -	26 50	X i	12	No sheen	<0.1		SANDY SILT (ML), hard, moist, light bro sand, iron oxide staining.	wn, frequent layers of						5	+ 25 .∟ :0/6" :+
	-	44 50	9.5in	10	No sheen	<0.1		SILTY SAND (SM), very dense, wet, bro	wn, layer of oxidized sanc	— —АТ I.	Z)/3.5"
7.GLB - 21/9/2	30 — -	45 50	X ;;	9	No sheen	<0.1		SILTY SAND (SM), trace gravel, very de poorly graded sand.	nse, wet, brown, layer of							
	-															
	35 -	50	Zi:	5	No sheen	0.2		SILTY SAND (SM), few gravel, very den	se, moist to wet, gray.						5	35
	-															-
1 2 3 4	. Mater . USCS . Grour	to Fig ial stra desig idwate	ure A atum Inatio er lev	line ons el, i	es are interpr are based of f indicated, i	etive a n visua s at tim	ind ao II-mai ne of	riptions and symbols. stual changes may be gradual. Solid lines indicate rual identification (ASTM D 2488), unless otherwise drilling/excavation (ATD) or for date specified. Leve approximate.	supported by laboratory testin				approxi	mate co	ontacts	<u>.</u>
	H H /					roject: ocatio roject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04		ing Lo GW	-		Figur Shee		A1-3 1 of∶	

	ed by tion: nd Su	/: <u>C.</u> <u>Lat:</u> urface	Kros 47.6 e Ele	skie 2510 vatio	64 Long: -1 on: <u>49.87</u>	Ch 22.3412 feet (NA	iecke 84 (\ VD 8		v Stem Auger le B-58 / Truck-mounte nammer ds): <u>140</u> Har iciency (%): <u>Not Avai</u> inches Cas	ed dri mmei lable sing [II rig ⁻ Drop I — Diamete	Height (er: <u>NA</u>	(inches) : <u>28 fe</u>			
	5 Depth (feet)	Blow Count	Type	iches)	nple Data	PID (ppm)	Graphic Log	Material Description		Water Level	1		SPT N V 20 3	/alue 30 4	40	Denth (feet)
- 4 - -	10 — - - -	29 50	Ц ц	9	No sheen	<0.1		SANDY SILT (ML), hard, wet, gray.							···· 5	50/3'
	15 — - -	8 22 50	di7	17	No sheen	0.6		SILT (ML), hard, wet, gray, frequent seams to laye graded sand, slow to rapid dilatancy.	ers of poorly							2/11
- 05 - 5 -	- 50 - -	50	X i	5	No sheen	0.2		SILTY SAND (SM), very dense, wet, gray.		_					1 4	 50/5
	- - 55 - -	50	X ug	5	No sheen	<0.1		SANDY SILT (ML), trace gravel, very dense, wet, sand.	gray, coarse	_						50/5
- - - -	- - 50 - -	50	X i	4	No sheen	<0.1		SANDY SILT (ML), hard, moist, gray, coarse sand	<u>i</u>	_						
- - <u>-1-</u> -	- - 35 - - -	50	v A	3	No sheen	<0.1		SILTY SAND WITH GRAVEL (SM), very dense, n	 noist, gray.					· · · · · · · · · · · · · · · · · · ·		
- 7	- - 70 - - -	50	A Sin	6	No sheen	<0.1		SANDY SILT WITH GRAVEL (ML), hard, moist, g coarse sand.	ray, layer of					· · · · · · · · · · · · · · · · · · ·		 D/5.
25	- 75 -	24 37 50	15in	15	No sheen	<0.1		SANDY SILT (ML), hard, moist, gray, frequent lay sand. Bottom of Borehole at 76.5 feet.								
1. R 2. M 3. U 4. G	efer f lateri SCS roun	al str desig dwate	jure <i>i</i> atum gnati er lev	i line ons /el, i	es are interp are based o f indicated,	retive ar on visual is at tim	nd ac -man e of c	iptions and symbols. tual changes may be gradual. Solid lines indicate distinct con ual identification (ASTM D 2488), unless otherwise supported Irilling/excavation (ATD) or for date specified. Level may vary	tacts and dashed lines by laboratory testing (/				approx	imate c	xontacts	- - ».
_		- T				Project: ocatior	1:	approximate. Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04	Boring MBG				Figu Shee		A1-3	

			ted:						Completed: 03/14/2019	Drilling Contractor/Crew: Holt Services, Inc).						
			y: <u>M.</u>						ed by: <u>C. Kroskie</u>	Drilling Method: Hollow Stem Auger							
						<u>39 Long: - 250 52 50 52 50 52 50 50 50 50 50 50 50 50 50 50 50 50 50 </u>				Rig Model/Type: <u>CME-75 / Truck-mounted</u>	drill riq	3					
		ind S iment		; ⊏le\	atic	on: <u>52.50</u>	ieet (NA	1008	00)	Hammer Type: <u>Auto-hammer</u> Hammer Weight (pounds): 140 F	lamme	r Drop	Height	(inches)	· 30		
	001		J							Measured Hammer Efficiency (%): Not Av			- Gigi It	(. <u>50</u>		
												 Diamet	er: <u>NA</u>				
מודמו											Depth to	o Grour	ndwater	: <u>22 fe</u>	et		
NI ISCI M				5	Sam	ple Data											
- 2	et)							1									
5	ן (fe	et)	Ħ		hes)			бo		Material	<u>e</u>						et)
Č.	atior	h (f∈	Coul	2	(incl			lic L	C	Description	, Lev						h (fe
	Elevation (feet)	Depth (feet)	Blow Count	Type Recoverv	Length (inches)	Number	PID	Graphic Log			Water		▲ 8	SPT N V	alue		Depth (feet)
1911	_	0	B	μĸ	Ľ	Tests	(ppm)	U U		(CM) lagge to medium dance, maint		· · · ·				0	0
ALL A	-	_							brown to light brown. [FILL]	_ (SM), loose to medium dense, moist	,						·
	_	_															
5	50	_	19 6	ji N	18	No odor, no	< 0.1										
I I I	-	_	1	Щã	10	sheen						7					·
	-	5 -	7						December very dense brown					ļ			- 5
	-	_	50	∐≨	14	No odor, no sheen	o <0.1		Becomes very dense, brown								▲
	-	_															/8" ⁺†
	45	_	14 22 31	, ≣	18	No odor, no	< 0.1										
	-	_	31	Щ≞		sheen			SILT WITH SAND (ML), hard	moiet light brown [5]							5 3
Ž	-	10 -	50	X ië	0	No odor, no	> <0.1	ЦĻ		, moist, light brown. [FILL] _ (SM), very dense, moist, brown.			+	ļ	 		10
	-	-	50		ď	sheen			J SILTT SAIND WITH GRAVEL	- (Sivi), very dense, moist, drown.							/2"
DEINI	0	-															÷
	40	-	21 38 44	j.	15	No odor, no	< 0.1		SILTY SAND (SM), very den	se, moist, brown, trace gravel.							
	-	-	44	Η÷		sheen										e	1 32/9"
	-	15 —	50	X ië	ß	No odor, no	< 0.1					 	 	<u> </u>			15
	_	-	50	⊣∞		sheen							.				T /2"
5000	2	-															÷
	35	-	26 50	∑ ē	10	No odor, no sheen	< 0.1										▲
	_	-				SHEEH										5	50/4"
	_	20 -	50	<u> </u>	0	No odor, no	< 0.1		SILTY SAND WITH GRAVE	_ (SM), very dense, moist, brown.			+				20
	_	-	55			sheen					АТГ						/3"
	- -8	-											••••••••				·
	ო	-	50	چ	8	No odor, no sheen	< 0.1			se, wet, brown, occasional layer of silt	.]		••••••••				
5	_	-							[TILL-LIKE]							•••••	/2"
	_	25 —	44 50	, iej	9	No odor, no	< 0.1							<u> </u>			25
	_	-	50	٣	ן ֿ	sheen										···· 5	T 50/3"
	- 22	-	10	Ц.					1			·····					÷
- 00	~	-	18 50	÷ اغ	7	No odor, no sheen	> <0.1		Trace gravel.								
	_	-														5	50/1"
71917	_	30 —	26 50	ي:	6	No odor, no	< 0.1						•	<u> </u>			30
	_	-			_	sheen			Bottom of I	Borehole at 30.5 feet.						2	26/6"
Ş	- <u>5</u> -	-															F
	-	-															F
	_	-															F
	_	35 —															- 35
ΎΥ	_	-															F
5	15	-															F
	_	-															F
	_	-															F
2	Ge	neral	Notes	:													1
									riptions and symbols.	ince indicate distinct contacts and dashed the		nate er-	duala	opprov	imoto -	ontact	
	3. l	JSCS	desig	gnatic	ons a	are based	on visua	I-mai	nual identification (ASTM D 2488), un	lines indicate distinct contacts and dashed line less otherwise supported by laboratory testing				approx	imate c	untacts	ó.
	4. (Groun	idwate	er lev	el, if	f indicated,	is at tim	ne of	drilling/excavation (ATD) or for date s	pecified. Level may vary with time.							
5	5. L	.ocati	on an	d gro	ound	surtace el	evations	are	approximate.	-							
וב				70/		1 7 7 7	Project:		Seattle DOT Mercer Parcels Si	te Bori	ng Lo	g _	I	Figu	e .	A1-:	33
					_	a Aldetak	ocatio		Seattle, Washington	MB	-	-		Shee		1 of	
2			ri ulivit	וןטיוייי	nardy	F	Project	No.:	19409-04		344.	-0		Silet	~	1 01	•

Log Loc Gro Con	und S	y: <u>M</u> Lat: Surfac	. Sh 47. e El	aljia 624 eva	an 999 tion	6 Long: -1: n: _53.76 f	22.3416 eet (NA	necke 67 (' VD 8		nounted dri Ham Not Availa Cas	nme able ing l	r Drop I	er: <u>NA</u>				
[] ゆ き や や テ の 15 1 1 20 1 1 25 1 1 30 1 1 35 1 1 40 1 1 45 1 1 50 1 1 Elevation (feet)	Depth (feet)	Blow Count	Type		Length (inches)	<u>Number</u> Tests	PID (ppm)	Graphic Log	Material Description		Water Level		¥ Fine ▲ S	SPT N V	tent (%) /alue) 40	Danth (feet)
-	0								SILTY SAND WITH GRAVEL (SM), dense, moist, brown. [FI	LL]					Ī		
50	-	4 17 17	X	12in.	18	No odor, no sheen	<0.1										·
-	5 — _	5 6 7	X	8in.	18	No odor, no sheen	<0.1		Becomes loose.				▲ 13			<u> </u>	 · ·
45	-	17 24 20	X	15in.	18	No odor, no sheen	<0.1		Becomes dense, brown to gray-brown, frequent brick fragme	nts.					•	▲ 44	· · · ·
	10 -	11 12 16	X	1	18	No odor, no sheen	<0.1		Becomes medium dense, brown.			 				 	'
40	-	50	×	3in.	3	No odor, no sheen	<0.1		Becomes very dense, gray-brown.					2			
• •	- 15 — -	50	X	6in.	6	No odor, no sheen	<0.1								·····		50/6
35	-	41 50	X	15in.	12	No odor, no sheen	<0.1		SILTY SAND (SM), very dense, moist, light brown.								 • •
	20 —	50	X	7in.	7	No odor, no sheen	<0.1									 	/1"
30	_	24 50	X	12in.	12	No odor, no sheen	<0.1		SILTY SAND WITH GRAVEL (SM), very dense, moist, light to brown, large cobble fragments.	 prown							··⊢ ·▲ 50/6
.,	- 25 — -	14 34 50	X	18in.	18	GS, WC, No odor, no	<0.1		SILTY SAND (SM), very dense, wet, brown.								+2
25	-	50	X	5in.	5	sheen No odor, no sheen	<0.1		SANDY SILT (ML), hard, moist, gray, trace gravel.					·····			84 50/5
	30 — _	50	X	6in.	6	No odor, no sheen	<0.1		SILTY SAND WITH GRAVEL (SM), very dense, moist, gray.		-						50/6
20	-										ATC ¥						· +- ·
	35 -	50	×	4in.	4	No odor, no sheen	<0.1										50/4
15	-													·····			· ·
1. 2. 3. 4.	Mater USCS Grour	to Fig ial str desi ndwat	gure atur gna er le	n lir tion evel	nes s a , if	s are interpl are based o indicated, i	retive a n visua s at tirr	nd ao I-mai ie of	iptions and symbols. tual changes may be gradual. Solid lines indicate distinct contacts and das nual identification (ASTM D 2488), unless otherwise supported by laboratory frilling/excavation (ATD) or for date specified. Level may vary with time. approximate.					approx	imate c	contact	s.
1	17/2						roject: ocatioi roject	า:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04	Boring				Figu Shee		A1- 1 of	

			ted:						Completed: 03/06/2019	Drilling Contractor/Crew: Holt Services, In	D.						
			y: <u>M.</u> Lat [.]		-	1 96 Long:-			ed by: <u>C. Kroskie</u> WGS 84)	Drilling Method: <u>Hollow Stem Auger</u> Rig Model/Type: CME-85 / Truck-mounted	l drill ri	a					
						on: <u>53.76</u>				Hammer Type: <u>Auto-hammer</u>		3					
		ment								Hammer Weight (pounds): <u>140</u>			Height	(inches)	: 30		
I										Measured Hammer Efficiency (%): Not A Hole Diameter: 5.875 inches		<u>.</u> Diamete	er: NA				
eitzer											-			: <u>33 fee</u>	et		
nscnw				;	Sam	ple Data											
- <u>1</u>	set)																
0.000	Elevation (feet)	Depth (feet)	Count		(inches)			Log	r i i i i i i i i i i i i i i i i i i i	Material Description	eve			WC (%)		Depth (feet)
CK	evati	epth (° ×	Type		Number	PID	Graphic Log		Description	Water Leve			es Conte	• • •		epth (
EGAB		ے 40 –	Blow				(ppm	Gra			Na			SPT N V 20 3	/alue 30 4	0	
MLLM	-		50	۲ X	5	No odor, n sheen	o <0.1		POORLY GRADED SAND V gray, fine to coarse gravel.	VITH SILT (SP-SM), very dense, wet,						··· 5	↑ ⁺ 0 50/5"
NI9	-	_															+
ž CČ	-	-															+
IEGAE	9	-															+
Z Y	_	45 -	28 50	Xi	12	GS, WC, N odor, no	^{lo} <0.1							•			4_45 ¥
MER	-					sheen			SILT WITH SAND (ML), har	d, wet, gray, frequent sand seams.						5	50/6"
Ц Ц	-	_															
קב	ŝ	_							SANDY SILT (ML), hard, we	t, gray, frequent sand seams.							+
2 Y	-	50 -	30 50	X :=	11	No odor, n	0 <0.1										50
	-	-	50	Δ÷	-	sheen										Ę	.T. 50/5"
Μ/ M	-	-															+
LIBRA	0								SILTY SAND (SM), very der	ise, wet, gray.							
	-	55 —	50	× .ª	3	No odor, n	○ <0.1							 	ļ		55
	-	_		ſ	, l	sheen										Ę	T 50/3"
	-	-															+
IMAIL	- .v	-								L (SM), very dense, wet, gray.							+
A/GE									[TILL-LIKE]								
- NAI	-	60 -	50	Χi	5	No odor, n sheen	o <0.1									p	60 50/5"
	-	_															+
MSHA!	-	-															+
Б Э Г	-10	-															+
	_	65 —	47 50	Į	10	No odor, n	o <0.1										65
ΥEYA	-					Sileen										5	50/4" .⊢
′H∥ - 0	-	_													.		+
2.01	-15	-							SILT WITH SAND (ML), har	น, พยเ, yray, coarse sano.					.	 7'	.⊢ ∣ 1
7/6/1.7	-	70 –	50	X i	5	0001,110	^{lo} <0.1						•	+			70
in l	_	-				sheen										···· 5	50/5"
KARY.	-																
Ę	-20	_													ļ		+
	-	75 –	50	× ÷	<u> </u> 3	No odor, n	o <u><0.1</u>	Ш	SANDY SILT WITH GRAVE	L (ML), hard, wet grav				<u> </u>	<u> </u>		75
NA I AV	-	-				sheen				Borehole at 75.3 feet.	_					5	50/3"
NEA.	-	-															
HARE	-25																
SIMO	-		Net														
			Notes to Fig		41- 1	1 for explar	ation of	desc	riptions and symbols.								
1 ALUF										lines indicate distinct contacts and dashed lin nless otherwise supported by laboratory testin				approxi	imate c	ontacts	s.
WHALE	4. C	Groun	idwate	er lev	vel, i	f indicated	, is at tir	ne of	drilling/excavation (ATD) or for date s approximate.			1	,-				
;L 2 1	0. L	Jucati	ui an	u yr	Juni								<u> </u>				
ט אוג	1	17		R		· · · · · · ·	Project ∟ocatio		Seattle DOT Mercer Parcels S Seattle, Washington	БОГ	ng Lo	-		Figur	e	A1-:	
С Я С Я С Я С Я			A divi:	ion of	Haley	. O. Alaberta			: 19409-04	MB	GW	-7		Shee	et	2 of	2
					-							-			_		

<u></u>	3 12 14 5 8 9 8 18 22 4 9	18in. 18in. 18in.	18 18	No odor, no sheen No odor, no sheen No odor, no	<0.1<0.1		POORLY GRADED SAND (S interbedded with silt layers. [F SILTY SAND WITH GRAVEL layers of poorly graded sand. POORLY GRADED SAND W wet, brown, frequent layers of	TLL] . (SM), dense, moist, b [FILL] TTH SILT (SP-SM), me	rown, frequent	- - - -	· · · · · · · · · · · · · · · · · · ·	A . 17	··· 26 [.]	· · · · · · · · · · · · · · · · · · ·	40	- 5
	11 7 7 8 5 5 8	18in. 18in.	18	GS, WC, No odor, no sheen	² <0.1		SILTY SAND (SM), medium o	dense, wet, brown.				15 ² 	20 27 X	· · · · · · · · · · · · · · · · · · ·		- - - 15 - - - - - - -
- 20 	28 50 44 50	11in.	11	GS, WC, No odor, no sheen No odor, no sheen	-0.1		SILTY SAND WITH GRAVEL Becomes moist, gray, occasi Becomes wet, frequent layers	onal poorly graded san	d seam.			••••••		K		20 0/5" - - 25 0/5" -
- 30 - - 35 - 	30 31 50 28 50	8in. 16in.	8	GS, WC, No odor, no sheen No odor, no sheen	-0.1		POORLY GRADED SAND W gray.					••••••	· · · · · · · · · · · · · · · · · · ·			
2. Mater 3. USCS 4. Grour	to Figurial stra designdwate	ure A tum I natio r leve d grou	ine: ns a el, if und	s are interp are based of indicated, surface ele	oretive a on visua is at tim evations Project: ocation	nd ad ne of are a n:	iptions and symbols. tual changes may be gradual. Solid li nual identification (ASTM D 2488), unl drilling/excavation (ATD) or for date sp approximate. Seattle DOT Mercer Parcels Sit Seattle, Washington 19409-04	ess otherwise supported by becified. Level may vary wit	laboratory testing (A	Log	1 D 248		approxi Figur Shee	re j	ontacts A1-3 1 of 1	35

	Date Star								Contractor/Crew: Holt Services,	Inc. / F	Rayo	on Darli	ng				
	Logged b				79 Long: -1			, 0	lethod: <u>Hollow Stem Auger</u> el/Type: Mobile B-58 / Truck-m	ounted	dri	ll ria					—
					on: <u>47.08</u>				Type: <u>Auto-hammer</u>	Janieu	an						
	Commen	is:							Weight (pounds): 140	-		Drop H	leight (i	nches)	: <u>30</u>		_
									d Hammer Efficiency (%): <u>Not</u>								
Jac									meter: <u>5.875 inches</u> pth: 76.5 feet	_	•	Diamete Groun	dwater:	11 fee	ət		—
				Sam	nple Data												_
= - C	et)						1										
5.05	Elevation (feet) Depth (feet)	t		hes)			bo	Materia	ıl		e		,	WC_(%)		set)
C P C	Elevation (fe Depth (feet)	Count	2	(incl			Jic L	Descripti	on		r Lev		🗙 Fine	● s Conte	ent (%)		Depth (feet)
ABLO	Dep	Blow	Type	Length (inches)	Number Tests	PID (ppm)	Graphic Log				Water Leve		▲ S	PT N V	alue		Dep
D H M L	- 40 -	50			No odor, no			POORLY GRADED SAND WITH SIL	Γ (SP-SM), very dense, we	t,	^	1	0 2	0 3	0 4	0	-40-
N N				1	sheen			dark gray.								5	0/6"
	2																-
ABLO								Rough drilling.									
	- - 45	50			No odor no	<0.1											-45
		50	Ē	5 4	No odor, no sheen	\		No recovery.								-	0/4"
SUVIE	-0 -																-
																	-
														•••••			+
х ч	- 50 -	38 40	Į,	15	GS, WC, No odor, no	< 0.1	्म	POORLY GRADED SAND WITH SIL	Γ (SP-SM), dense, wet, gra	 ∎y, ,-				•		82	- 50
HO I E		50	Цŧ	-	odor, no sheen	-0.1		coarse sand									₽ 0/9"
								SANDY SILT (ML), hard, moist, olive.									
								POORLY GRADED SAND WITH SIL	Г (SP-SM), very dense, we	t,							
IN	- - 55 —	15						gray.									- 55
4400		45 50	Į į	5 9	No odor, no sheen	<0.1										5	0/3"
10/01								Gravelly drilling.									+
MAIN							_111	POORLY GRADED SAND (SP), dens	e wet grav fining upward	s							-
								trace gravel.	o,, g,,	•,							-
A P	- 60 -	28 50	Χŧ	11	GS, WC, No odor, no	<0.1		Smooth drilling.				3 X		•			60
Yn y	 ა		Π	-	sheen			WELL-GRADED SAND WITH SILT A	ND GRAVEL (SW-SM), ve	ery –						5	0/5"
UARE.								dense, wet, gray.									
								Gravelly drilling.									
	- 65 —	50	X ig		No odor, no	<0.1						ļ					-65
Y ALUF		00		5	sheen											5	0/6"
ЦАГЦ																	-
1 - 00								Gravelly drilling.									$\left \right $
				_													+
18/1 7 -	- 70	50	A Sin	6	No odor, no sheen	<0.1											70
9 9 9]														·· 50)/5.5" _
LAR!	25							.									Ļ
Ľ																	⊢
	- 75 -	19	H.					WELL-GRADED SAND WITH SILT (S gray, occasional layer of sand, few gra					-15				- 75
MIAN		19 43 50	Ĭ	17	GS, WC, No odor, no sheen	° <0.1	•										- 3/11"
Ĕ			_	_			_	Bottom of Borehole	at 76.5 feet.	_	-	_				93	
-AKE																	
																	_
	General 1 Refer			A1-1	l for explana	ation of	descr	iptions and symbols.									
	2. Mater	ial sti	atum	line	s are interp	retive a	nd ac	tual changes may be gradual. Solid lines indica						approxi	imate co	ontacts	
LALE	4. Grour	ndwat	er lev	/el, i	f indicated,	is at tin	ne of o	ual identification (ASTM D 2488), unless otherv rilling/excavation (ATD) or for date specified. L		ung (A	511	/I U 240	<i></i>).				
	5. Locat	ion ai	nd gro	ounc	d surface ele	evations		approximate.					i				
פר		1			1	roject:		Seattle DOT Mercer Parcels Site	B	oring l	Log	J		Figur	e	A1-3	35
Ч Д Д					. O. Alabetak	ocatio roiect		Seattle, Washington 19409-04	M	BGV	N -	8		Shee	et	2 of 2	2
ć L					I '	-,000											

ſ	Date Star							ompleted: <u>03/13/2019</u>	Drilling Contractor/Crew: Holt							
I	Logged b				1			ed by: <u>C. Kroskie</u>	Drilling Method: Hollow Stem							
I	Location: Ground S								Rig Model/Type: <u>CME-75 / Ti</u> Hammer Type: Auto-hammer		1					
I	Comment		_10 Vu	uon.				0)	Hammer Weight (pounds): 14		r Drop I	Height (inches)	: 30		
I									Measured Hammer Efficiency	(%): Not Available	_					
_									Hole Diameter: 5.875 inches							
AULZE									Total Depth: <u>31.5 feet</u>	Depth to	o Groun	dwater:	Not lo	dentified	ł	
Iscill			Sa	mple	Data											
-	set)															
000	n (fé feet)	Ţ		ches			-og		Material							feet)
	Elevation (feet) Depth (feet)	Count	ery				hic L		Description							Depth (feet)
	Dep	Blow	Recovery		<u>lumber</u> Tests	PID (ppm)	Graphic Log						PT N V			Dep
	- 0					(PP)		SILTY SAND WITH GRAVE	(SM), medium dense, mo	ist. brown.	1	0 2	20 3	0 4	0	-0-
	· _							coarse gravel. [FILL]	_ (,,,,,, ,, ,	,,						-
D.	- 22															F
3	· -	5 9 15		18 No	odor, no	<0.1										-
10					sheen								24			-
	5-	8	.i		odor, no	<0.1		SILTY SAND (SM), medium	dense, moist, brown, trace	gravel. [FILL]						- 5
	- 20	15 17	1±1,		sheen									32		F
	ທ –	20						Becomes very dense, few gr	aval							F
5		20 30 30	(<u>+</u> 1		odor, no sheen	<0.1		Decomes very dense, iew gr	avei.							
	- 10		1													60
		5			odor, no	<0.1		Becomes loose, trace gravel								
	- 42	8 /	1		sheen							15				L
	· _	3														L
		6	1 1 1 1 1		odor, no sheen	<0.1		Becomes wet.			7					L
ľ	15 —	5									ļ					- 15
	· -	546	(j=1	18 No	odor, no sheen	<0.1					4					-
	- 40	Ĭ	1		Shoon			Poppman maint				10				F
	· -	266		18 No	odor, no	< 0.1		Becomes moist. SILTY SAND WITH GRAVE	(SM) loose moist grav-t		1					-
5	· -	6 /			sheen			[FILL]	_ (, , , g ,			12 · · ·				F
	20 -	7				<0.1		SILTY SAND (SM), very den	se. moist. brown. [FILL]							20
Ś		32 50	121		o odor, no sheen	<pre>></pre>			,,						8	⊢ 2/9"
	- 32	24														F
	· _	24 50	8.5		o odor, no sheen	<0.1)/2.5"
	· _														50	
	25 —	44 50	i,	7 No	odor, no sheen	<0.1										-25
	- - <u>30</u>	1			0110011			Few gravel.							5	0/1"
		21														
2		21 47 48	121		odor, no sheen	<0.1		POORLY GRADED SAND V	VITH SILT (SP-SM), dense	, moist, brown.					a	5/9"
212	30												 		ļ	-30
		32 44 36	(<u> </u> ≣ 1	18 No	odor, no	<0.1		Becomes wet.								
5	- 22	36 1	<u> </u>		sheen		1 11	Bottom o	f Borehole at 31.5 feet.		1		<u>t</u>	1	<u> </u>	80
	· _															F
	· _	-														F
	35 -	-														- 35
	-	-														-
S S	- 20	-														F
		-														-
	· _	1														╞
5	General	Notes:														
								iptions and symbols. tual changes may be gradual. Solid	lines indicate distinct contacto o	nd dashed lines indi	nate ara	dual or	annroy	imate e	ontacto	
	3. USCS	6 design	ation	s are	based o	on visua	l-mar	nual identification (ASTM D 2488), un	less otherwise supported by labo	oratory testing (AST			αρρισχ	mate 0	omaolS	•
								drilling/excavation (ATD) or for date s approximate.	pecified. Level may vary with tim	ne.						
; L ? F	0. 200di	.on and	gi Sul					•••	. <u> </u>							
PAI		ki C	10	12		Project: .ocatio		Seattle DOT Mercer Parcels Si	ite	Boring Log	g		Figu	e	A1-3	36
		A divisio			Lifetada			Seattle, Washington 19409-04		MBGW	.9		Shee	et	1 of	1
ÉL						1001			I							

Ground \$	by: <u>M</u> : <u>Lat:</u> Surfac	Shalj 47.62 e Elev	ian 472 atic	20 Long: -1 on: _55.25 t	C 22.3410 feet (NA	hecke 638 (\ \\D 8		Drilling Contractor/Crew: Holt Drilling Method: Hollow Stem / Rig Model/Type: CME-75 / Trn Hammer Type: Auto-hammer Hammer Weight (pounds): 14 Measured Hammer Efficiency (Hole Diameter: 5.875 inches Total Depth: 30.9 feet	Auger uck-mounted dri 0 Ham (%): <u>Not Availa</u> Casi	nmer able ing [⁻ Drop I Diamete	Height (er: <u>NA</u> dwater:				
Elevation (feet) Depth (feet)	Blow Count	Type Recovery Co	ches)	ple Data <u>Number</u> Tests	PID (ppm)	Graphic Log	C	Material Description		Water Level	1		PT N V 0 3		40	Depth (feet)
ς 0-	- 5 7 11 9 15 17	10in. 4in.	18	No odor, no sheen No odor, no			POORLY GRADED GRAVEI medium dense, moist, brown	. [FILL]				······				
ი 10 - 10 -	17 5 14 27 3 20 29	11in. 15in. 10	18	sheen No odor, no sheen No odor, no sheen	<0.1		brick fragments. [FILL] Becomes dense.					· · · · · · · · · · · · · · · · · · ·		32	41	 10
0 15 - 15 -	38 50 13 20 21 11	п. 12in.	18	No odor, no sheen No odor, no sheen	<0.1		Becomes dense to very dens Occasional layer of sandy sil	t.		-					5 •	* 50/6" 15
ი 20 - 	11 17 27 25 40 50 24 29 5	18in. 15in. 18in.	15	No odor, no sheen No odor, no sheen No odor, no sheen	<0.1		SILTY SAND (SM), very den		occasional						44 · · · · · · · · · · · · · · · · · ·	20 •20 • • ·
25 - 25 -	1 50 17 30 50 39	0in. 16in. 8in.	16	No odor, no sheen No odor, no sheen	<0.1		SILTY SAND (SM), dense to			ATD ⊻						25 50/2"
0 35 -	39 50	Mē	10	No odor, no sheen		<u>F1(1)</u>	Bottom of f	Borehole at 30.9 feet.						1	5	■ 50/4" - - - - 35 - - -
2. Mate 3. USC 4. Grou 5. Loca	r to Fig rial str S desi ndwat tion ar	jure A atum gnatic er leve id gro	line: ns a el, if und	s are interp are based o f indicated, I surface ele	retive a on visua is at tim	ind ac il-mar ne of c s are a	iptions and symbols. tual changes may be gradual. Solid l nual identification (ASTM D 2488), un drilling/excavation (ATD) or for date s approximate. Seattle DOT Mercer Parcels Si	less otherwise supported by labo pecified. Level may vary with tim	ratory testing (A e.	STN	1 D 248				contacts	
					ocatio	n:	Seattle, Washington 19409-04		Boring MBGV				Figur Shee		A1-3 1 of	

ſ	Date S Loggeo					19			Completed: <u>03/12/2019</u> ed by: C. Kroskie	Drilling Contractor/Crew: Holt Services, Inc Drilling Method: Hollow Stem Auger							
	Locatio	on: <u>L</u>	.at: 4	7.62	468		122.341	850	(WGS 84)	Rig Model/Type: CME-75 / Truck-mounted	drill riç	9					
I	Ground			Elev	atic	on: <u>57.55</u>	feet (N	AVD	88)	Hammer Type: <u>Auto-hammer</u> Hammer Weight (pounds): 140 H	amme	r Drop I	-leiaht (inches)	· 30		
										Measured Hammer Efficiency (%): <u>Not Av</u>	ailable	_					
Jac											-	Diamete o Groun			feet		
Iscume				S	am	ple Data											
L - 715	eet)																
- C G O -	ion (fé	ובפו	Count		(inches)			Log		Material Description	evel						(feet)
	Elevation (feet) Denth (feet)			rype Recovery	Length (i	Number	PID	Graphic Log		Decemption	Water Level		≜ S	PT N V	alue		Depth (feet)
MEGA	— С		Ē	_ ₽ %	Le	Tests	(ppm)	οŪ		EL (SM), dense, moist, gray-brown.	Š	1				40 	-0-
	-	-								L (OW), dense, moist, gray-blown.							· -
222	55		9	7													Ľ
GABL	-	-	9 20 17	12in.	18	No sheen	<0.1								▲ ···· 37	ļ 	
H N N	- 5	;	22	7 =					Brick and fabric fragments.								- 5
MERC	-		22 22 24	18i 18i	18	Slight shee	n <0.1									≜ . 46	; -
	50		13	7. <u>-</u>													Ē
	-	-	13 11 4	12in.	18	Slight shee	n <0.1		· · ·				▲ 15 ⁻				. -
р Ч Ч	- 10 -		7	12in.	10		" <0.1										- 10
IASIE	-]:	19 20 /	12	18	Slight shee	n \0.1								3	39	Ľ
	45	-	10 23 30	15in.	18		" <0.1										
	-	-	3ŏ /	15	10	Slight shee	n										53
PAILF	- 15	5-	16 18 24	15in.	18		_ <0.1										- 15
NGEO	-]:	24	1=		Slight shee	n									42	
MALIC	40	-	13 25 30	(18 18	18	No sheen	<0.1		SILTY SAND (SM), very der	nse, moist, gray-brown.							
			30 /	1-		No sheen											55
	- 20	,	12 24 31	₹ i i i i i i	18	No sheen	<0.1		·. ·							,	<u>+</u> 20
	-	-		1		NO SILCCI											55
WISHA!	35	-	12 33 50	ig	18	No sheen	<0.1									,	.
D D L D	-	.]_													83
ALURI	25	י_י	50 2	4 H	4	No sheen	<0.1									···· 5	25 50/4"
HALEY		-							· ·								÷
- /2	30	- 1	34 50	15.5in.	16	No sheen	<0.1		SILT (ML), hard, moist, gray	with mottling.							*
9/71	- 30										_					/	9.5"
1.7-9	-	´_	30 50 /	11.5in.	12	Slight shee	n <0.1		SILTY SAND (SM), very der	nse, moist, gray, occasional gravel.							♪/5.5"
19.12	25	-															#5.5 +
	- -	-															÷
	- 35	;															-35
5 A A	-	-							· · · · · · · · · · · · · · · · · · ·								-
	50.	-															÷
	- Gene	rol N	otoo														
	1. Re	fer to	Figu						criptions and symbols.								
LEYALI	3. US	CS d	lesigr	natio	ns a	are based	on visua	al-ma	nual identification (ASTM D 2488), ur	lines indicate distinct contacts and dashed line nless otherwise supported by laboratory testing				appiox	inale o	Uniacis	•-
- WIN									drilling/excavation (ATD) or for date approximate.	specified. Level may vary with time.							
				DA		1 2 2 2 1	Project		Seattle DOT Mercer Parcels S	Site Borir	ig Lo	g		Figu	re	A1-3	38
BUR						a Alderah	_ocatio Proiect		Seattle, Washington : 19409-04	MBG	-	-		Shee		1 of	
É						'	10,000										

	Logo Loca Grou	ged by ation:	urface	Dozi 47.6 e Ele	ier 2468 vatio	81 Long: - on: <u>57.5</u> 8	C -122.341 5 feet (N/	Checke <u>850 (\</u> AVD 8		Drilling Contractor/Crew: <u>1</u> Drilling Method: <u>Hollow St</u> Rig Model/Type: <u>CME-75</u> Hammer Type: <u>Auto-ham</u> Hammer Weight (pounds):	tem Auger / Truck-mounted dri mer) r Drop He	eight (i	inches)	: <u>30</u>		
zer										Measured Hammer Efficient Hole Diameter: <u>5.875 inct</u> Total Depth: <u>50 feet</u>	nes Cas	ing	 Diameter: o Groundv		45.5 f	eet		
S.GPJ - mschweitz	(feet)	et)	It			nple Data		b		Material	Dep			valer.	40.01			et)
AEGABLOCKLOC	l Elevation (feet)	는 Depth (feet)	Blow Count	Type	Length (inches)	Number Tests	r PID (ppm)	Graphic Log		Description		Water Level	10	▲ S 2	PT N V 0 3		0	Depth (feet)
MEGABLOCK\GINT\ALLN	1 15 1	-							SILTY SAND (SM), very der (continued)	ise, moist, gray, occasio	nal gravel.	ATE					· · · · · · · · · · · · · · · · · · ·	-
DJECT_FILES/MERCER_	- 10	45 — - -										₽TC						- 45 - - -
RARY/MASTER_PRC		50			_	1			Bottom of	Borehole at 50.0 feet.		<u> </u>	<u>ı I</u>				<u> </u>	- 50 - -
CS\GEOSPATIAL_LIBI	- - - - -	- 55 — -																- 55 - -
ARE\PDX_DATA\GEOMATI) 	- 60 — -																- - - 60 -
HALEYALDRICH.COM/SH/	- - -	- 65 — -																- - -65 -
r.glb - 21/9/21 10:37 - \\F		- 70 — -																_ _ 70 _
DATA/GINT/HC_LIBRAR)	-15	- 75 — -																- - -75
DOM/SHARE/SEA_C		-																_
G - WHALEYALDRICH.C	1. 2. 3. 4. (Refer Mater USCS Grour	ial stra 6 desig ndwate	ure <i>i</i> atum gnati er lev	ı line ons /el, i	es are inter are based f indicated	rpretive a l on visua l, is at tin	and ac al-man ne of c	iptions and symbols. tual changes may be gradual. Solid iual identification (ASTM D 2488), ur drilling/excavation (ATD) or for date s approximate.	nless otherwise supported by	laboratory testing (A				approxi	mate o	ontacts	
HC BORING LC	+	H					Project Locatio Project	n:	Seattle DOT Mercer Parcels S Seattle, Washington 19409-04	ite	Boring MBGV				Figur Shee		A1-3 2 of 2	

Log		y: <u>M</u> .	Shal	jian	19 72 Long: -12	Cł	necke	ompleted: <u>03/15/2019</u> ed by: <u>C. Kroskie</u>	Drilling Contractor/Crew: Holt Services, Drilling Method: Hollow Stem Auger						
Gro		Surface			on: <u>54.00 f</u>				Rig Model/Type: <u>CME-75 / Truck-mour</u> Hammer Type: <u>Auto-hammer</u> Hammer Weight (pounds): <u>140</u> Measured Hammer Efficiency (%): No	_ Hamme	er Drop	Height	(inches)	: <u>30</u>	
									Hole Diameter: 5.875 inches Total Depth: 30.9 feet	_ Casing				et	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Depth (feet)	Blow Count	Type Recovery Co	ches)	ple Data <u>Number</u> Tests	PID (ppm)	Graphic Log		Material Description	Water Level			SPT N V 20 3		40
	0							SILTY SAND WITH GRAVE	EL (SM), loose, moist, brown. [FILL]						
50	-	16 2 5	, iej	18	No odor, no sheen	<0.1									
-	5	5 8 20	jë,	18	No odor, no sheen	<0.1		Becomes medium dense.					▲	8	
45	-	17 31 13	,i ⁴	18	No odor, no sheen	<0.1		Becomes dense.							▲ 44·-
-	10 -	32 50	15in.	15	No odor, no sheen	<0.1		Becomes very dense.							·····
-	-	32 50	Щ. Ц	13	No odor, no sheen	<0.1									·····
-40	- 15 — -	40 50	12i .i	12	No odor, no sheen	<0.1		SILTY SAND (SM), very de	nse, moist, gray-brown, trace gravel.						
-	-	36 50	lãi X	13	No odor, no	<0.1									50/6
35	- 20 —	34 50	X ia	12	sheen No odor, no	<0.1		SILTY SAND WITH GRAVE	EL (SM), very dense, moist, brown.						····· /7"
-	-				sheen No odor, no			SILTY SAND (SM), very de	nse, moist, gray-brown to brown,						50/6
30	- 25 —	26 50	Π		sheen No odor, no	<0.1		occasional layer of silt.	nse. moist to wet, brown.						50/6
-	-	24	Bin.		sneen	<0.1		· · · · · · · · · · · · · · · · · · ·	,	TA ¥	 P				26/6
25	- 30 —				sheen			Becomes wet.		Ť					50/2
-	-	27 50	∐ē	10	No odor, no sheen	<0.1		Bottom of	f Borehole at 30.9 feet.		1		1	<u> </u>	50/4
20															
-	35 - -														-
15	-	-													-
G 1. 2. 3. 4. 5.	Mater USCS Grour	to Fig ial stra designdwate	jure A atum gnatic er leve	line ons a el, if	s are interp are based o f indicated, i	retive a n visua s at tim	nd ao I-mai e of	nual identification (ASTM D 2488), u	d lines indicate distinct contacts and dashed inless otherwise supported by laboratory tes specified. Level may vary with time.	l lines indi sting (AST	cate gra M D 24	idual or 37).	approx	imate c	ontacts.
02 12 12 12 12 12 12 12 12 12 12 12 12 12		A divi				roject: ocatior roject	ı:	Seattle DOT Mercer Parcels S Seattle, Washington 19409-04		oring La 3GW-	-		Figu Shee		A1-39

Date Starte	d: 03/14/2019	_ Date Completed:	03/14/2019
Logged by:	C. Kroskie/M. Shaljian	_ Checked by: C. I	Kroskie

Location: Lat: 47.625181 Long: -122.341894 (WGS 84)

Ground Surface Elevation: _54.47 feet (NAVD 88) Comments: _____ Drilling Contractor/Crew: <u>Holt Services, Inc.</u> Drilling Method: <u>Hollow Stem Auger</u>

Rig Model/Type: CME-75 / Truck-mounted drill rig

Hammer Type: <u>Auto-hammer</u>

Hammer Weight (pounds): <u>140</u> Hammer Drop Height (inches): <u>30</u>

Measured Hammer Efficiency (%): Not Available

Hole Diameter: <u>5.875 inches</u> Total Depth: <u>31.5 feet</u>

Casing Diameter: <u>NA</u>
Depth to Groundwater: <u>25 feet</u>

				Sam	nple Data										
t)			ΠÌ												
Elevation (feet)	Depth (feet)	Blow Count	Type Recoverv	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description		Water Level	10	SPT N	Value 30	40	Depth (feet)
-	0 —			+				SILTY SAND WITH GRAVEL (SM), very dense, moist, br	rown to				30	40	<u> </u>
-	-							gray, occasional layer of poorly graded gravel. [FILL]							Ē
-	_	13 28 34	Å igt	1.0		1.0									
20	_	34	∆¢	5 18	Sheen	1.0									6 2
-	5 —	13 23 28	E		Slight sheen	<0.1		SILT (ML), hard, moist, olive to gray to gray-brown, iron o	 xide						+
-		28	Д÷		Slight sheen	-0.1		staining. [FILL]						•••	<u>5</u> 1
-	_	4		18	Petroleum	2.0									
45	-	33 50	Δ÷		odor, slight sheen	2.0		SILTY SAND (SM), dense, moist, gray-brown. [FILL]							T 83
ম -	10 —	6	, igt	1.0	Strong odor,	236		······[·····							+10
-		35 38	Д÷		heavy sheen	200									T 73
-	_	17	X ig	18	Strong petroleum	6.0		Occasional layer of poorly graded gravel.							
- 40	_	27 5	Д÷		odor, moderate sheen	0.0		Occasional layer of poorty graded gravel.					32		
-	15 —	34 50	X į	10		<0.1		SILTY SAND WITH GRAVEL (SM), very dense, moist, gr	ay-brown.				-		<u></u> +1:
-					odor, no										50/4" .L
-	_	33 50	Ž į	10) Slight	2.0									
35	_				petroleum odor, no										50/4"
-	20 —	50	X ;	7	sheen Slight	1.0									↓ 20
-					petroleum odor, no										¦1" .∟
-	_	27 50	X i	14	sheen	8.0		SILTY SAND (SM), very dense, moist, gray-brown.							
-02	_	50	\square		Strong petroleum odor,			SILTY SAND (SM), Very dense, moist, gray-blown.		ATD					/8"
-	25 —	28 38 50	List List	15	and a share the	3.0		SILTY SAND WITH GRAVEL very dense, wet, gray, occa	asional	ATD ⊻			-		<u>+</u> 2! ▲
-		50	\square^{-}	-	Slight			iron oxide staining.							.⊢ 38/9" .⊢
-	_	24 43 50	Į.	16	odor,	<0.1									
25	-	50	Π	-	sheen									9	3/10"
-	30 —	50	, E	18	Slight petroleum odor, no										+ 30
-			M÷	-	sheen			Bottom of Borehole at 31.5 feet.							
-	-														F
20	_														-
-	35 —														-3
-	_														
-	_														F
15	-														╞
1. 2. 3. 4. (Mater USCS Grour	to Fig ial str designdwat	jure / atum gnatio er lev	line ons vel, i	es are interpr are based o	etive a n visua s at tim	nd ac I-man e of c	ptions and symbols. cual changes may be gradual. Solid lines indicate distinct contacts and ual identification (ASTM D 2488), unless otherwise supported by labora rilling/excavation (ATD) or for date specified. Level may vary with time pproximate.	atory testing (A			or appro	ximate	contacts	5.
					P	roject:		Seattle DOT Mercer Parcels Site	Boring	Lor	1	Figu	Jre	A1-	40
	<u> </u>			_		ocatior	ו:	Seattle, Washington	MBGV	-		She		A 1-4	
					P	roject	NO.:	19409-04		•-					-

Date Started: 03/06/2019	_ Date Completed: <u>03/06/2019</u>	Contractor/Crew: Holt Services,
Logged by: <u>B. McDonald/B. Dozier</u>	_ Checked by: <u>C. Kroskie</u>	Rig Model/Type: <u>GeoProbe® 58</u>
Location: Lat: 47.624992 Long: -122.	340116 (WGS 84)	Hole Diameter: <u>2 inches</u>
Ground Surface Elevation: 46.09 feet	(NAVD 88)	Total Depth: <u>30 feet</u>
Comments:		



tzer			San	nple	Data						
OCKLOGS.GPJ - mschwei	Elevation (feet)	Depth (feet)	Type	Length (inches)	PID (ppm)	Graphic Log	Material Description				Depth (feet)
BABLO	- ທ	0					SILTY SAND WITH GRAVEL (SM), (medium dense), moist, gray-bro	wn. [FILL]			0_
TME	4	_									_
		_	Ц	12	0.4						_
OK/G		_									-
ABLO		5 —	Ц	12	0.6					_	- 5
MEG MEG	40	_								-	-
RCER-		_								-	-
S/MEI		-	Ц	12	0.5					-	-
Щ		-			0.0					-	-
		10 —	Ц	12	0.9					-	- 10
- BRO	35	-								-	-
STER		-								-	-
AM/Y		_		12	0.7					-	-
BRAF		-		18	0.4					-	-
- N		15 —					POORLY GRADED GRAVEL WITH SAND (GP), (medium dense), m	noist, gray-brown. [FILL]		+	- 15
SPAT	30	_				<u>B</u>				-	-
- GEO		-			0.3	0				F	-
ATICS		_	H	0			SILTY SAND (SM), (medium dense), moist, gray-brown.			+	-
- EOM		-		24	0.3						-
ATA/G		20 —									-20
2 - 1 X	25	_									-
RE/PI											_
1 NSHA		_		12	0.6						_
-CO		25 —					Scattered fine organic layers, few gravel.				-25
DRIC	20										-
EYAL		_								-	-
- NHAL		_								-	-
0:37 -		_		24	0.4		Becomes dark brown, fine organic material and shell fragments.			-	-
- 21/9/21	:	30 —	Ц				Bottom of Borehole at 30.	Ω feet			-30
	15	-								-	-
SY.GLB		-								-	-
LIBRAR		-								-	-
Ч Ч		-								-	-
- GINT		35 —								-	- 35
DATA	10	-								ŀ	-
SEA		_								-	-
HARE											_
IS/WO											-
ICH.C		neral Refer			re A1-'	1 for e	explanation of descriptions and symbols.				
ALDR	2. N	/later	ial s	trat	um line	es are	interpretive and actual changes may be gradual. Solid lines indicate distinct contact		approximate c	contacts.	
1ALEY							ased on visual-manual identification (ASTM D 2488), unless otherwise supported by cated, is at time of drilling/excavation (ATD) or for date specified. Level may vary wit				
⊧ ⊔							ace elevations are approximate.				
PROB							Project: Seattle DOT Mercer Parcels Site	Push Probe Log	Figure	A1-4	1
HSU	Ë 1	GĽ.	_	_	ROM		Location: Seattle, Washington	-			
ЧЧ			Ad	ivisio	n of Hale	y a Aldri	Project No.: 19409-04	MBGW-14	Sheet	1 of 1	

Date Started: 03/08/2019 Date Completed: 03/11/2019 Logged by: C. McCabe/B. McDonald Checked by: C. Kroskie

Location: Lat: 47.624865 Long: -122.340056 (WGS 84)

Ground Surface Elevation: _40.87 feet (NAVD 88)

Comments:

Drilling Contractor/Crew: <u>Holt Services, Inc.</u> Drilling Method: <u>Hollow Stem Auger</u>

Rig Model/Type: Mobile B-57 / Track-mounted drill rig

Hammer Type: <u>Auto-hammer</u>

Hammer Weight (pounds): <u>140</u> Hammer Drop Height (inches): <u>30</u>

Measured Hammer Efficiency (%): Not Available

Hole Diameter: <u>5.875 inches</u> Total Depth: <u>81 feet</u> Casing Diameter: <u>NA</u>
Depth to Groundwater: <u>18.7 feet</u>

				Sai	mp	ole Data										
Elevation (feet)	Depth (feet)	Blow Count	Type	Kecovery		<u>Number</u> Tests	PID (ppm)	Graphic Log	Material Description		Water Level		5PT N Va 20 3(0	, Depth (feet)
-40	0 —								SILTY SAND (SM), trace gravel, medium dense, mo light brown lenses. [FILL]	ist, brown with						0-
-	-	5 6 7	X	uiz 1	8 T	Topsoil odor, slight sheen	0.1					▲ 13				-
35	5 - -	3 4 4	X,	Б	8	No odor, no sheen	<0.1		SILTY SAND WITH GRAVEL (SM), loose, moist, bro	own. [FILL]		A 8				- 5 - -
	-	2 2 3	X,		8 1	No odor, no sheen	0.1		SILTY SAND (SM), loose, moist, brown, fine sand. [I	FILL]		▲ 5				-
.06	10 - -	3 3 4	X,		8	No odor, no sheen	<0.1		SILTY SAND (SM), trace gravel, loose, moist, gray-t sand. [FILL]	 prown, fine		7				- 10 -
	-	2 3 4	X.		8	No odor, no sheen	0.1		SILTY SAND WITH GRAVEL (SM), loose, moist, gra sand. [FILL]	ay-brown, fine		▲ ··· 7				
25	15 — -	5 2 0	X,		8 1	No odor, no sheen	<0.1		SILT WITH SAND (ML), soft, moist, brown-gray. [FIL	 _L]		2				— 15 - -
	-	1 1 2	X,	u I I I I	8 ⁸	Blight organic odor, no sheen	0.1		SILT WITH SAND (ML), soft, moist, brown to dark be numerous fine organics.	rown,	atd ¥	▲ 3····				-
20	20	2 1 1	X.		8 C 8	Drganic odor, slight organic sheen	0.1		SILT WITH SAND (ML), soft, wet, dark brown, nume fragments.	erous shell		2				-20 -
-	-	5 7 8	X	ur 1	8 1	No odor, no sheen	<0.1		SANDY LEAN CLAY (CL), trace gravel, stiff, moist, g	gray-blue.		▲ 15 [.]				-
15	25 — -	4 7 9	X	u <u>8</u> 1	8	No odor, no sheen	0.1		SANDY SILT (ML), very stiff, moist, gray, frequent in staining.	on oxide						-25 - -
	-	8 10 14	X;		8	No odor, no sheen	0.1		SANDY SILT (ML), very stiff, moist, brown, occasion staining.	al iron oxide			▲ 24…			+
10	30 — 	6 10 14	X,		8	No odor, no sheen	0.1		POORLY GRADED SAND WITH SILT (SP-SM), me wet, gray, fine sand.	dium dense,			.▲ 24			- 30 - -
	-	7 13 16	A	<u>ц</u> 1	8 1	No odor, no sheen	<0.1						2	9 · · · ·		-
	35 - -	7 9 13	A	<u>1</u>	8	No odor, no sheen	<0.1		POORLY GRADED SAND WITH SILT (SP-SM), me wet, gray-brown, fine to medium sand.	dium dense,			▲ 22			- 35 - -
-	-	2 7 9	X	1 1	8 1	No odor, no sheen	<0.1					▲ 				-
1. 2. 3. 4.	Mater USCS Grour	to Fig ial str designdwate	jure atun gnat er le	n lin ions vel,	ies s ai if i	are interpr re based of indicated, i	etive ai n visual s at tim	nd ac -man e of c	ptions and symbols. tual changes may be gradual. Solid lines indicate distinct contac ual identification (ASTM D 2488), unless otherwise supported by irilling/excavation (ATD) or for date specified. Level may vary with pproximate.	laboratory testing (A			approxi	mate o	ontacts	
+							oject: catior oject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04	Boring MBGV	-		Figur Shee		A1-4 1 of∶	

Date Started: 03/08/2019 Date Completed: 03/11/2019 Logged by: C. McCabe/B. McDonald Checked by: C. Kroskie

Location: Lat: 47.624865 Long: -122.340056 (WGS 84)

Ground Surface Elevation: 40.87 feet (NAVD 88)

Comments:

Drilling Contractor/Crew: <u>Holt Services, Inc.</u> Drilling Method: <u>Hollow Stem Auger</u>

Rig Model/Type: Mobile B-57 / Track-mounted drill rig

Hammer Type: Auto-hammer

Hammer Weight (pounds): <u>140</u> Hammer Drop Height (inches): <u>30</u>

Measured Hammer Efficiency (%): Not Available

 Hole Diameter:
 5.875 inches

 Total Depth:
 81 feet

_____ Casing Diameter: <u>NA</u>_____ Depth to Groundwater: <u>18.7 feet</u>

				Sam	ple Data											=
£	ŀ						-									
	Depth (feet)	Blow Count	Type	Length (inches)	<u>Numbe</u> Tests			Material Description		Water Level	1		PT N V 0 3		∩	Depth (feet)
- 4 -0	10 -	10 15 23	X iã	-	No odor,	no <0.′		POORLY GRADED SAND WITH SILT (SP-SM), tra	ce gravel,						Ĺ	·40·
-		23	Д÷		sheen			dense, wet, gray-brown, fine to medium sand.						3	8	
	-															
4	15	13 21 35	<u>ء</u> ۷		No odor,			POORLY GRADED SAND WITH SILT (SP-SM), vei	ry dense, wet,							45
Ŷ	-	35	۲ ۲	2 18	sheen	no <0.1		brown.	-						56	
	_															
- 5 	50 — —	5 5 9	15 In	18	No odor, sheen	no		SANDY SILT (ML), stiff, wet, gray-brown, frequent la medium sand.	ayers of fine to			▲ 14			 	50
	-															
	_]							Rapid bit penetration fro ~53 feet.								
-15 c	55 — -	16 26 30	X ia	18	No odor, sheen	no	0	POORLY GRADED GRAVEL WITH SAND (GP), ve gray-brown.	ery dense, wet,	1						55
	_	30	Π		sneen		Po	Gravelly drill action with gaps.							56	
	-						0									
	-						Poc									~
-20 g	50 -	26 34 40	Į.	18	No odor,	no 0.2	0	POORLY GRADED GRAVEL WITH SILT AND SAN	ID (GP-GM),	1						60
	_	40	Η		sheen		Pa	~2 feet heave.							74	
	-						0	Very gravelly drill action.								
	-						Pa									
9 -25	55 —	78	ä N	6	No odor, sheen	no 1.2		SILTY SAND WITH GRAVEL (SM), very dense, we decomposed granitic gravel. [TILL-LIKE]	t, brown,	1						65 ~"
T	_							decomposed granuc gravel. [TILL-LIKE]							··· 78/6 ····-	5
	-															
	-															
7 06-	′0 –	14 20 37	۲ بۇ	18	No odor,	no 0.9		POORLY GRADED SAND WITH SILT (SP-SM), ve	ry dense, wet,							70
φ		37	Дŧ		sheen	0.0		gray, fine to medium sand.							57	
	_							Smooth drill action.								
	-															
	′5 —	15 65	Xiã	11	No odor,	no 0.6		POORLY GRADED SAND (SP), very dense, wet, gi	ray, fine to	$\left \right $						75
-35	-	65	A÷		sheen			medium sand. Drill action indicates slightly gravelly from ~76 feet.							65/5	5"
								Dhi action indicates slightly gravely nom 70 feet.								
Gene	orel	Nota						-								
1. Re 2. Ma 3. US 4. Gr	efer t lateria SCS roun	to Fig al stra desig dwate	ure <i>i</i> atum gnati er lev	line ons vel, i	es are inte are based f indicate	rpretive d on visu d, is at ti	and a al-ma me of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wit approximate.	/ laboratory testing (A				approxi	mate o	ontacts.	
			~			Projec	t:	Seattle DOT Mercer Parcels Site	Boring				Figure	· · ·	A1-42	=
	14				Adrich	Locatio	on:	Seattle, Washington	MBGV	-			Figur Shee		A'1-42 2 of 3	•
		A GIVR		i TLINI)	a Autificit	Projec	t No.	19409-04		v - I	5		Silee	i.	2013	



Date Started: 03/08/2019 Date Completed: 03/14/2019 Logged by: M. Shaljian/C. Kroskie Checked by: C. Kroskie/Z. Yell

Location: Lat: 47.624787 Long: -122.341347 (WGS 84) Ground Surface Elevation: 52.14 feet (NAVD 88)

Comments:

Drilling Contractor/Crew: Holt Services, Inc. Drilling Method: Hollow Stem Auger

Rig Model/Type: CME-85 / Truck-mounted drill rig

Hammer Type: <u>Auto-hammer</u>

Hammer Weight (pounds): 140

Hammer Drop Height (inches): 30 Measured Hammer Efficiency (%): Not Available

Hole Diameter: 5.875 inches

Total Depth:	75.5 feet

Casing Diameter: NA Depth to Groundwater: <u>33 feet</u>

		;	Sam	ple Data		-									Τ
Depth (feet)	Blow Count	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Graphic Log	Material Description		Water Level	10	¥ Fine ▲ SI	PT N V	ent (%) alue	10	
0 	6 36 47	Z in	7	No odor, no sheen	<0.1	00000	ר 3 inches of asphalt pavement. POORLY GRADED GRAVEL WITH SILT AND SANI dense to very dense, moist, brown-gray/olive. [FILL]	Ō (GP-GM), [—] ┘ ́							 36/
5	9 14 14	X ie	18	No odor, no sheen	<0.1	9	SILTY SAND WITH GRAVEL (SM), medium dense, i gray-brown, some iron oxide particles. [FILL]	 moist,				🔺	3		+
-	6 14 48	Å j	18	No odor, no sheen	<0.1		Becomes very dense, light brown, brick fragments.								6
10 -	29 50	Xé	10	No odor, no sheen	<0.1		Becomes gray-brown.						•••••		50/
-	50	÷ چ	6	No odor, no sheen	<0.1		SILTY SAND (SM), very dense, moist, gray-brown.	·			· · · · · · · ·		•••••		-
15 — -	29 24 50	di <u>7</u>	18	No odor, no sheen	<0.1		SILTY SAND WITH GRAVEL (SM), very dense, mois	st, gray-brown.							7
-	14 28 50	Į.	16	GS, WC, No odor, no sheen	<0.1		Becomes gray-brown, frequent layers of interbedded	silty sand.			••••	· · · · · · · · · · · · · · · · · · ·		7:	۰۲
20 -	42 50	X é	10	No odor, no sheen	<0.1										
-	44 50	X į	12	GS, WC, No odor, no sheen	<0.1		SILTY SAND (SM), very dense, moist, gray-brown, tr	ace gravel.		••••	•••••	26 X	•••••		
25 — -	33 50	X É	12	No odor, no sheen	<0.1		3-inch layer of SILT WITH SAND (ML), moist, gray.								50
-	50	X ië	6	No odor, no sheen	<0.1		SILTY SAND (SM), very dense, moist, gray-brown to gravel.	gray, few		· · · · · · · · · · · · · · · · · · ·	·····	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		÷
30 — -	35 50	X įĘ	12	GS, WC, No odor, no sheen	<0.1		Becomes gray-brown. 3-inch layer of SILT WITH SAND (ML), very dense, n	noist, gray.	3/14/2019		•		_35 X		50
-							SILTY SAND WITH GRAVEL (SM), very dense, wet,	brown.	Å 3/1		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	•••••		·
35 -	50	÷ چ	6	No odor, no sheen	<0.1									··· 6	50
-											•••••	· · · · · · · · · · · · · · · · · · ·	•••••		·
. Mater . USCS . Grour	to Fig rial str designdwat	jure / atum gnatio er lev	line ons el, i	s are interpr are based or f indicated, is	etive a n visua s at tim	nd ao I-mar ie of (iptions and symbols. tual changes may be gradual. Solid lines indicate distinct contact ual identification (ASTM D 2488), unless otherwise supported by frilling/excavation (ATD) or for date specified. Level may vary with approximate.	aboratory testing (A				approxi	mate c	ontacts	<u> </u>
+ [] /					oject: catior	า:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04	Boring MBGV	-	-		Figur Shee		A1- 1 of	

Date Started: 03/08/2019 Date Completed: 03/14/2019 Logged by: M. Shaljian/C. Kroskie Checked by: C. Kroskie/Z. Yell Location: Lat: 47.624787 Long: -122.341347 (WGS 84)

Ground Surface Elevation: 52.14 feet (NAVD 88)

Comments:

Drilling Contractor/Crew: Holt Services, Inc. Drilling Method: Hollow Stem Auger

Rig Model/Type: CME-85 / Truck-mounted drill rig

Hammer Type: <u>Auto-hammer</u>

Hammer Weight (pounds): 140

Measured Hammer Efficiency (%): Not Available

Hole Diameter: 5.875 inches

Casing Diameter: NA Depth to Groundwater: 33 feet

Hammer Drop Height (inches): 30

<u>,</u>			;	Sam	ple Data										
Elevation (leet)	Depth (feet)	Blow Count	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Graphic Log	Material Description		Water Level	¥ Fine ▲ S	WC (%) es Conte SPT N Va 20 30	nt (%) alue	0	
	40	50	ж Х	3	No odor, no sheen	<0.1		SILTY SAND WITH GRAVEL (SM), very dense, we (continued)	t, brown.						† 50/:
2	-														+
	_														-
	45 -	50	¥ ₩	4	No odor, no sheen	<0.1		Seams of poorly graded sand.		-					50
	-														÷
	_														:-
	50 -	11 50	X .=	9	GS, WC, No odor, no	<0.1				+		3	3 X		
	_	50			sheen									···· 5	50
	_							SANDY SILT WITH GRAVEL (ML), hard, wet, gray,	occasional						+
	- 55 -	50		<u>.</u>				layer of poorly graded sand.							
	-	50	× ‡	4	No odor, no sheen	<0.1							•••••	··· 5	1 50
	_														
	_							POORLY GRADED SAND WITH SILT (SP-SM), ve gray, frequent layers of silty sand.	ry dense, wet,						+
	60 -	50	₹;	3	No odor, no sheen	<0.1				-					1
	-												•••••		Ĥ
	-							SILTY SAND WITH GRAVEL (SM), very dense, we	t, gray.	.			•••••		+
	65 —	50	×:	5	No odor, no	<0.1				-					-
	_				sheen								·····	···· 5	5Ò ↓
	-							SILTY SAND (SM), very dense, wet, gray, occasion	al layer of						-
	70 -	50			No odor, no	-0.1		poorly graded sand, few gravel.	-	-					
	-	50	ά	5 5	sheen	-0.1								··· 5	T 50
	-												•••••		·
	-							SILTY SAND WITH GRAVEL (SM), very dense, we sand, trace cobble.	t, gray, coarse						+
	75 -	50	چ 🗖	5	No odor, no sheen	<0.1		Bottom of Borehole at 75.5 feet.				1		5	1 50
	-														$\left \right $
	-														F
1. F 2. N 3. U 4. C	Refer Aateri JSCS Groun	ial stra designdwate	jure / atum gnatie er lev	i line ons /el, i	es are interpr are based o f indicated, i	retive a n visua s at tim	nd ac I-man e of c	iptions and symbols. tual changes may be gradual. Solid lines indicate distinct contac ual identification (ASTM D 2488), unless otherwise supported by Irilling/excavation (ATD) or for date specified. Level may vary wit ipproximate.	y laboratory testing (AS	dica STM	te gradual or D 2487).	approxir	nate c	ontacts	⊥ s.
1-					· · · · · · ·	roject:		Seattle DOT Mercer Parcels Site	Boring L	og		Figure		A1-4	- 4
	a siji				. B. Alderek	ocatior		Seattle, Washington 19409-04	MBGW	-	6	Sheet		2 of	

Date Started: 03/05/2019	_ Date Completed: _03/05/2019	Contr
Logged by: <u>B. McDonald/B. Dozier</u>	Checked by: <u>C. Kroskie</u>	Rig M
Location: Lat: 47.625044 Long: -122.3	340404 (WGS 84)	Hole
Ground Surface Elevation: 45.28 feet	(NAVD 88)	Total
Comments:		

 Contractor/Crew:
 Holt Services, Inc. / Louie

 Rig Model/Type:
 GeoProbe® 5800 / Truck-mounted push-probe rig

 Hole Diameter:
 2 inches
 Casing Diameter:

 NA
 Total Depth:
 30 feet
 Depth to Groundwater:
 29 feet

			_					
-	Samp	le Data	a					
Elevation (feet) Depth (feet)	Type	PID (ppm		Material Description			Water Level	Depth (feet)
+0 <u>2</u> 	12	2 0.7		SILTY SAND WITH GRAVEL (SM), (medium dense), moist, gray-bro	wn, scattered wood and fabric d	ebris. [FILL]		(- -
	12	0.7		Becomes dark brown, glass debris.				- :
	24	4 0.3		Glass in sluff. POORLY GRADED GRAVEL WITH SAND (GP), (medium dense), m	noist, gray-brown. [FILL]			- - 1 -
 	18	3 0.3		SILTY SAND WITH GRAVEL (SM), (medium dense), moist, gray-bro	wn, layer of dark fine organic ma	aterial. [FILL]		- - 1 -
2 220		2 0.2 2 0.2 2 0.2 2 0.2		SILTY SAND (SM), (medium dense), moist, dark brown. Becomes gray-brown, trace gravel, occasional iron oxide staining. POORLY GRADED SAND (SP), (medium dense), moist, gray-brown	, trace gravel.			- 2
- - 25 - 	24	2 0.2		POORLY GRADED SAND WITH SILT (SP-SM), (medium dense), m	oist, gray-brown.			- 2
	12	2 0.2		POORLY GRADED SAND (SP), (medium dense), wet, gray-brown, t Bottom of Borehole at 30.0			ATD ¥	- 3
 								- - 3
2. Materia 3. USCS 4. Ground	to Fig al stra desig dwate	ure A1 atum li gnatior er level	nes are Is are b , if indic	explanation of descriptions and symbols. interpretive and actual changes may be gradual. Solid lines indicate distinct contac ased on visual-manual identification (ASTM D 2488), unless otherwise supported by cated, is at time of drilling/excavation (ATD) or for date specified. Level may vary wit ace elevations are approximate.	laboratory testing (ASTM D 2487).	approximate cont	acts.	
			ley & Aldri		Push Probe Log MBPP-1		1-4 ∣ of 1	

Date Started: 03/05/2019	Date Completed: <u>03/05/2019</u>	Co
Logged by: <u>B. McDonald</u>	Checked by: <u>C. Kroskie</u>	Rig
Location: Lat: 47.624880 Long: -122.3	340290 (WGS 84)	Ho
Ground Surface Elevation: 44.46 feet	(NAVD 88)	Tot
Comments:		

 Contractor/Crew:
 Holt Services, Inc. / Louie

 Rig Model/Type:
 GeoProbe® 5800 / Truck-mounted push-probe rig

 Hole Diameter:
 2 inches

 Casing Diameter:
 NA

 Total Depth:
 30 feet

(Sai	mple	Data	+					
	o Depth (feet)	Type	Length (inches)	PID (ppm)	Graphic Log	Material Description			Water Level	Depth (feet)
F	-0								-	0
	-		18	0.3	0000	POORLY GRADED GRAVEL WITH SAND (GP), (medium dense), n				-
	5-		12	0.3		POORLY GRADED SAND WITH GRAVEL (SP), (medium dense), rr	noist, brown-gray. [FILL]			- - 5 -
	-		15	0.2						_
	10 -		12	0.2		SILTY SAND WITH GRAVEL (SM), (medium dense), moist, gray-bro	own.			— 10 _
30 1 1	-		12	0.2		Occasional iron oxide staining.				-
	15 -		12	0.2		Becomes very silty, fewer gravel.				— 15 -
	-		9	0.2		SILTY SAND (SM), (medium dense), gray-brown, trace gravel, scatte	ered fine organic layers.			-
	20 -		12	0.1						—20 -
	-		13	0.2		POORLY GRADED SAND (SP), (medium dense), moist, brown-gray	, occasional silt with fine organic	partings.		- - -
	25 - - -		12	0.1					ATD ⊻	25 -
-15	- 30	Π	12	0.1						-
	-	-				Bottom of Borehole at 30.0	feet.			- - -
	35 - - -	-								35
2	-									-
G 1. 2. 3. 4. 5.	Mate USCS Grou	r to l rial s S de ndw	Figu strat sigr ater	um lin ation: level,	ies are s are b if indio	explanation of descriptions and symbols. interpretive and actual changes may be gradual. Solid lines indicate distinct contact assed on visual-manual identification (ASTM D 2488), unless otherwise supported by cated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with ace elevations are approximate.	/ laboratory testing (ASTM D 2487).	approximate cont	acts.	
	11/				ey & Aldri		Push Probe Log MBPP-2		1-4	
í L										

Date Started: 03/06/2019	Date Completed: 03/06/2019					
Logged by: <u>B. McDonald/B. Dozier</u>	_ Checked by: <u>C. Kroskie</u>					
Location: Lat: 47.624926 Long: -122.3	40622 (WGS 84)					
Ground Surface Elevation: 45.89 feet	(NAVD 88)					
Comments:						

 Contractor/Crew:
 Holt Services, Inc. / Louie

 Rig Model/Type:
 GeoProbe® 5800 / Truck-mounted push-probe rig

 Hole Diameter:
 2 inches
 Casing Diameter:
 NA

 Total Depth:
 30 feet
 Depth to Groundwater:
 26 feet

		San	nple	Data						
et)				Dulu	1					
Elevation (feet)	feet)		(inches)		Log	Material Description			evel	feet)
evatio	Depth (feet)	e	Length (ir	PID	Graphic Log	Description			Water Level	Depth (feet)
	صّ 0 —	Typ	Len	(ppm)	5 5		1		× N	
45 45	-				μČ	SILTY GRAVEL WITH SAND (GM), (loose), moist, gray-brown. [FILI	_]			F
	-	Π	18	0.2	0					-
	_		10	0.2	b					Ľ
- L	5 —	Ц	12	0.1	00					- 5
-4- ₩	-				Pall					-
	_	Π	12	0.9		SILTY SAND (SM), (dense), moist, brown, trace gravel. [FILL]			-1	L
	_			0.7		POORLY GRADED SAND WITH SILT (SP-SM), (medium dense), m			-	_
	10 —		12	0.7		TOORET ORADED OARD WITT OLT (OF -OM), (mediain dense), in				- 10
35 35	-									Ľ
	_					SILTY GRAVEL WITH SAND (GM), (dense), moist, gray-brown. [FIL				L
- HEKAK	-	Π	12	0.1	60		.–]			-
30 T	15				0					- 15
	_			0.4						L
	-	Н	12	0.1						-
	- 20		12	0.2						- 20
25					60	POORLY GRADED GRAVEL WITH SAND (GP), (medium dense), n	noist, gray-brown.			- 20
	-	Π	12	0.3	0	POORLY GRADED SAND WITH GRAVEL (SP), (medium dense), n	noist, gray-brown.		-1	-
	_									L
CH.C	25 —	Ц	12	0.1					ATC	-25
20	-	Π				Becomes wet.			atd ⊻	╞
I HALE	_	Ц	24	0.2						Ľ
	-		12	0.3		SILTY SAND WITH GRAVEL (SM), (medium dense), moist, gray-bro			-	-
15 15	30 —		12	0.0		Bottom of Borehole at 30.0				- 30
Ч.ССГВ-	_									_
-	-									-
10 15 10 15 219/21 10	- 35 —	1								- 35
10 10	-									
	-									-
HAKE	_]								Ē
	eneral	Not	es:							
1.	Refer	to F	igu			explanation of descriptions and symbols. Interpretive and actual changes may be gradual. Solid lines indicate distinct contac	cts and dashed lines indicate gradual or	r approximate con	tacts	
3. 4/11	USCS	S de	sign	ations	s are b	ased on visual-manual identification (ASTM D 2488), unless otherwise supported by cated, is at time of drilling/excavation (ATD) or for date specified. Level may vary wi	/ laboratory testing (ASTM D 2487).			
<u>ц</u>						ace elevations are approximate.				
	174	11	0	ROI	123	Project: Seattle DOT Mercer Parcels Site Location: Seattle, Washington	Push Probe Log	Figure A	1-4	16
		HARTOROWSERPush Probe LogFigureA1-46Advision of Holey & AddrichProject No.: 19409-04MBPP-3Sheet1 of 1								

Date Started: 03/07/2019 Date Completed: 03/07/2019	Contractor/Crew: Holt Services, Inc. / Louie
Logged by: <u>B. McDonald/B. Dozier</u> Checked by: <u>C. Kroskie</u>	Rig Model/Type: GeoProbe® 5800 / Truck-mounted push-probe rig
Location: Lat: 47.624991 Long: -122.340944 (WGS 84)	Hole Diameter: 2 inches Casing Diameter: NA
Ground Surface Elevation: 48.34 feet (NAVD 88)	Total Depth: 18 feet Depth to Groundwater: Not Identified
Comments:	



Date Started: 03/07/2019	Date Completed: 03/07/2019
Logged by: B. McDonald/B. Dozier	Checked by: <u>C. Kroskie</u>
Location: Lat: 47.625274 Long: -122.3	40849 (WGS 84)
Ground Surface Elevation: 45.92 feet	(NAVD 88)
Comments:	· · ·

 Contractor/Crew:
 Holt Services, Inc. / Louie

 Rig Model/Type:
 GeoProbe® 5800 / Truck-mounted push-probe rig

 Hole Diameter:
 2 inches
 Casing Diameter: NA

 Total Depth:
 28 feet
 Depth to Groundwater: 25 feet

	S	Samp	ole D	ata						—
Elevation (feet)	Depth (feet)	I ype		bu) C	GIAPIIIC LOG	Material Description			Water Level	Depth (feet)
- 45 -	- - -	1	2 ().1		Crushed rock base course. SILTY SAND WITH GRAVEL (SM), (medium dense), moist, brown.	FILL]			- - -
- - (5	1	2 ().1		POORLY GRADED SAND WITH GRAVEL (SP), (medium dense), m				- •
20 - 25 - 30 - 35 - 40 - 45 Elevation (feet) 37 - 40 - 45 Elevation (feet) 37 - 40 - 45 - 50 - 45 - 50 - 45 - 50 - 45 - 50 - 45 - 50 - 45 - 50 - 45 - 50 - 50	- - - 0	2	4 ().1		SILTY SAND WITH GRAVEL (SM), (dense), moist, brown to gray-br	own. [FILL]			- - - -
36		1	2 ().1		SILTY SAND WITH GRAVEL (SM), (dense), moist, gray-brown. [TIL	L-LIKE]			_
. 1:	5-	1	2 ().1		SILTY SAND (SM), (dense), moist, gray-brown.				- 1: -
).1		Trace gravel.				-
20 52	0 - -	1).1		Few gravel.				-2 - -
25	5	1	2 ().2	· ľ. 1	Becomes (very dense). POORLY GRADED SAND (SP), (dense), wet, gray-brown.			¥	- - -2
50		1	2 1	1.0	·	SILTY SAND (SM), (very dense), moist, gray-brown, trace gravel.				-
- 3(- <u>4</u> - - - - - - - - - - - - - - - - - - -	- - - 5 - - - - - - - - - - - - - - - -	o Fig	gure			Refusal at 28.0 feet.				
2. Ma 3. US 4. Gr	ateria SCS rounc	al str desi dwat	atun gnat er le	n lines ions ar vel, if i	are ir e bas ndica	nerpretive and actual changes may be gradual. Solid lines indicate distinct contact sed on visual-manual identification (ASTM D 2488), unless otherwise supported by tted, is at time of drilling/excavation (ATD) or for date specified. Level may vary wit be elevations are approximate.	laboratory testing (ASTM D 2487).	r approximate co	ontacts	
Ŧ				ON 2 f Haley &		Project: Seattle DOT Mercer Parcels Site Location: Seattle, Washington Project No.: 19409-04	Push Probe Log MBPP-5	Figure Sheet	A1-4 1 of	

Date Started: 03/08/2019	Date Completed: <u>03/08/2019</u>	Co
gged by: B. McDonald/B. Dozier Checked by: C. Kroskie R cation: Lat: 47.624946 Long: -122.341341 (WGS 84) H ound Surface Elevation: 52.26 feet (NAVD 88) T		
Location: Lat: 47.624946 Long: -122.3	41341 (WGS 84)	Hol
Ground Surface Elevation: <u>52.26 feet</u>	(NAVD 88)	Tot
Comments:		

 Contractor/Crew:
 Holt Services, Inc. / Louie

 Rig Model/Type:
 GeoProbe® 5800 / Truck-mounted push-probe rig

 Hole Diameter:
 2 inches
 Casing Diameter: NA

 Total Depth:
 30 feet
 Depth to Groundwater: Not Identified

		_			_					
	9	Samp 	le Da	ata						
Elevation (feet)	Depth (feet)	Type		m) C	Japric Log	Material Description				Depth (feet)
F	0-		1 (PP	- 0`	굿	POORLY GRADED GRAVEL WITH SAND (GP), (medium dense), n	noist, light gray. [FILL]			-0-
20 1	Ī	1:	2 <0	0.1 0	000				-	
	5 -	1:	2 <0	0.1		SILTY SAND WITH GRAVEL (SM), (medium dense), moist, gray-bro	 own. [FILL]		+	5
45		1:	2 <0).1		Brick fragments.			F	
- _ 1	10 - -	1:	2 <0			SILTY GRAVEL WITH SAND (GM), (dense), moist, gray-brown. [FIL	L]		+	10
40		1	2 <0).1		SILTY SAND (SM), (dense), moist, gray-brown, occasional layers of		[FILL]	+	
;1 1	15 — -	1:	2 <0			SILTY GRAVEL WITH SAND (GM), (dense), moist, gray-brown. [FIL	 L]			15
35		1	2 <0).1) 0		Metal debris.				
	20	1:	2 <0).1		SILTY SAND WITH GRAVEL (SM), (very dense), moist, gray-brown				20
-06 - 2	 25		2 <0 2 <0			SILTY SAND (SM), (very dense), moist, gray, trace gravel.			+	25
25			2 0			Becomes very dense.			-	
3	30	1:	2 0	4		Bottom of Borehole at 30	() feet			30
15 1 1 20 1	- - - 35 -									35
1 1 15	-								-	
1. R 2. M 3. U 4. G	lateria SCS irouno	to Fiç al str desig dwate	jure <i>i</i> atum gnati er lev	lines ons ar vel, if i	are i e ba ndica	xplanation of descriptions and symbols. Interpretive and actual changes may be gradual. Solid lines indicate distinct contact used on visual-manual identification (ASTM D 2488), unless otherwise supported by ated, is at time of drilling/excavation (ATD) or for date specified. Level may vary wi ce elevations are approximate.	y laboratory testing (ASTM D 2487).	r approximate	contacts.	
	5. Location and ground surface elevations are approximate. Image: Constraint of Haley & Aldrich Advision of Haley & Aldrich Project: Seattle DOT Mercer Parcels Site Location: Seattle, Washington Project No.: 19409-04)	

Date Started: 03/08/2019	Date Completed: 03/08/2019
Logged by: <u>B. McDonald/B. Dozier</u>	Checked by: <u>C. Kroskie</u>
Location: Lat: 47.625276 Long: -122.3	41425 (WGS 84)
Ground Surface Elevation: _49.77 feet	(NAVD 88)
Comments:	

 Contractor/Crew:
 Holt Services, Inc. / Louie

 Rig Model/Type:
 GeoProbe® 5800 / Truck-mounted push-probe rig

 Hole Diameter:
 2 inches
 Casing Diameter: NA

 Total Depth:
 23 feet
 Depth to Groundwater: Not Identified

Zer			San	nple	e Data					
JUKEOGS.GPJ - mschwei	Elevation (feet)	Depth (feet)		(inches)	PID (ppm)	c Log	Material Description			Depth (feet)
GABLC	-	- 0					SILTY GRAVEL WITH SAND (GM), (medium dense), moist, gray-bro	own. [FILL]		0-
		-		12	0.1					
	45	5 — -		12	0.1		SILTY SAND (SM), (medium dense), moist, red-brown, trace gravel.	[FILL]		— 5 -
MERCE		-		12	0.1		SANDY SILT (ML), (medium stiff), moist, brown. [FILL]			
	40	- 10		12	0.2					- 10 -
ASIE		-	Π	12	0.2		SILTY SAND WITH GRAVEL (SM), (medium dense), moist, gray-bro			+
AHY IN		_								
	35	15 — _		12	0.2					— 15 -
מפבר		_		12	0.2					
	30	- 20 -		12	0.1		Becomes dense.			- 20
		_					SILTY SAND (SM), (dense), wet, gray-brown, trace gravel.			
		-	Ц.	12	0.1		Refusal at 23.0 feet			
	25	-	-							-
H H C H C H		25 —	1							-25 -
ALEYAL		-	-							-
/H/ - 8		-	-							-
:01 LZ/	20	- 30 —								
2 - 7 2 - 9		-	-							_
AKY.GL		-								-
		_								
	15	35 —	-							- 35
		-	-							-
		_								_
VSHAR	0	-	-							-
DD-HD	Ge	neral				4 f				
	2. 3. 4.	Mater JSCS Grour	ial s 6 de ndwa	strat sigr ater	um line nations level,	es are are ba if indic	kplanation of descriptions and symbols. interpretive and actual changes may be gradual. Solid lines indicate distinct contact used on visual-manual identification (ASTM D 2488), unless otherwise supported by ated, is at time of drilling/excavation (ATD) or for date specified. Level may vary wit ce elevations are approximate.	laboratory testing (ASTM D 2487).	approximate cor	ntacts.
						12=1	Project: Seattle DOT Mercer Parcels Site	Push Probe Log	Figure 🖌	1-50
IC PUSE						iy & Aldric		MBPP-7		1 of 1

Date Started: 03/08/2019	Date Completed: <u>03/08/2019</u>
Logged by: <u>B. McDonald/B. Dozier</u>	Checked by: <u>C. Kroskie</u>
Location: Lat: 47.624894 Long: -122.3	41928 (WGS 84)
Ground Surface Elevation: _57.52 feet	(NAVD 88)
Comments:	

 Contractor/Crew:
 Holt Services, Inc. / Louie

 Rig Model/Type:
 GeoProbe® 5800 / Truck-mounted push-probe rig

 Hole Diameter:
 2 inches
 Casing Diameter:
 NA

 Total Depth:
 30 feet
 Depth to Groundwater:
 11 feet

Izer	Sample Data									
38 - WALEYALDRICH COMISHARLPDX_DATAGEOMATICSGEOSPATIAL_LIBRARYMMSTER_PROJECT_FILESMERCER_MEGABLOCKORINTALLIMEGABLOCKLOSS.GPJ - machineter 30 1 35 1 40 40 45 1 50 1 55 1 Elevation (feet)	⊃ Depth (feet)	Type	Length (inches)	PID (ppm)	Graphic Log	Material Description			Water Level	Depth (feet)
	-0					SILTY GRAVEL WITH SAND (GM), (medium dense), moist, gray-bro	own. [FILL]			0- - -
	-		12	<0.1						-
R_MEGABLO	5 — -		12	<0.1						- 5
50	-		12	<0.1	-0	SILTY SAND (SM), (medium dense), moist, gray-brown, trace grave	. [FILL]			-
	- 10 -		12	<0.1					너 3/8/2019	- 10
45	-		12	<0.1		POORLY GRADED GRAVEL WITH SAND (GP), (medium dense), n [FILL]	noist, brown-gray, occasional brid	k fragments.	-	
AL_LIBRARY	- 15 —		12	<0.1	000					- 15
40	_				000					F
	- 20 -		12	<0.1	0	SILTY SAND WITH GRAVEL (SM), (dense), moist, gray-brown. [TIL	 L-LIKE]			- 20
35 1 1	-		12	<0.1						-
	-		12	0.3		Becomes gray.				-
T I	25 —									-25 -
	-		12	<0.1						
21/9/21 1	30 —		12	<0.1		Bottom of Borehole at 30.0	feet.			-30
25	-									
	- 35 -	-								- 35
20 1 1	-	-								-
	-									_
1. 2. 3. 4. 5. 5.	Mater USCS Grour	to F ial s de ndwa	igu trat sign ater	um lin ations level,	ies are s are b if indi	explanation of descriptions and symbols. e interpretive and actual changes may be gradual. Solid lines indicate distinct contact based on visual-manual identification (ASTM D 2488), unless otherwise supported by cated, is at time of drilling/excavation (ATD) or for date specified. Level may vary wit face elevations are approximate.	/ laboratory testing (ASTM D 2487).	approximate conta	acts	
	H						Push Probe Log MBPP-8		1-5 of	
5 T	Adivision of Haley & Aldrich Project No.: 19409-04 MBPP-8 Sheet 1 of 1									

Date Started: 03/04/2019	Date Completed: 03/04/2019
Logged by: K. Huddleston	Checked by: C. Kroskie
Location: Lat: 47.625066 Long: -122.3	339974 (WGS 84)
Ground Surface Elevation: 38.07 feet	(NAVD 88)
Comments: Well Tag ID: BLI197	x x x

 Contractor/Crew:
 Holt Services, Inc.

 Rig Model/Type:
 TSi 150 / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter:
 OD: 2 inches

Total Depth: 90 feet

_ Depth to Groundwater: 22 feet

zег		Sar	mple	Da	ata						
JCKLUGS.GPJ - mschwei	Elevation (feet)	Depth (feet)	Type	Length (inches)	Graphic Log	Material Description			Water Level	Well Construction	, Depth (feet)
LMEGABLU		0		30		SILTY SAND WITH GRAVEL (SM), (medium dense), moist, brown, scatte	red organics (grasses and roots)	. [FILL]			0- -
	35	-		30		SILTY SAND WITH GRAVEL (SM), (dense), moist, dark brown. [FILL]					-
		5		30		POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), (very dens	e), moist, gray-brown. [FILL]				- 5 - -
	30	-		30		SILTY SAND WITH GRAVEL (SM), (very dense), moist, gray-brown, brick	fragments. [FILL]				-
		- 10 - -		30		SILTY SAND WITH GRAVEL (SM), (very dense), moist, gray-brown. [FILL]				- 10 - -
LIBKAKY\MAS	25	-		30		POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), (dense), n	noist, gray-brown. [FILL]				-
		15 — - -		30		CLAYEY SAND WITH GRAVEL (SC), (medium dense), moist, gray.					- 15 - -
SEOMATICSIG	20	- - 20 -		30		LEAN CLAY (CL), (stiff), moist, gray, scattered wood debris.					- - - 20
		- 20		12 12		SANDY LEAN CLAY (CL), (stiff), moist, gray, wood debris (organics). ORGANIC SOIL WITH SAND (OH), (loose), moist, black, pockets of gray	-		atd ¥		- 20 - -
1.COM/SHARE	15	- - 25 -		36		,, g	,				- - 25
				24		EAN CLAY (CL), trace gravels and trace sand, (medium dense), wet, gray.					
9/21 11:33 - //-	10	- - 30 –		54		CLAYEY SAND (SC), (medium dense), wet, gray, fine sand.					- - 30
AKY.GLB - 21/		-				POORLY GRADED SAND WITH SILT (SP-SM), (medium dense), wet, gra	y, fine sand.		-		-
	2	- 35 —		36		POORLY GRADED SAND (SP), (dense), wet, gray, medium sand.					- 35
E\SEA_DAIA\(-		60							- -
H.COM/SHAR	- Gei	neral	Not	es:		Becomes brown.					-
	2. M 3. L 4. C	Mater JSCS Grour	rial s S des ndwa	trat sigr ater	tum li natior · leve	1-1 for explanation of descriptions and symbols. nes are interpretive and actual changes may be gradual. Solid lines indicate distinct contact as are based on visual-manual identification (ASTM D 2488), unless otherwise supported by I, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with and surface elevations are approximate.	laboratory testing (ASTM D 2487).	r approximate	e cor	ntacts.	
HC PUSH PROB	1	H		_	RO on of He	Project: Seattle DOT Mercer Parcels Site Location: Seattle, Washington Project No.: 19409-04	Sonic Core Log HMW-1D	Figure Sheet		1-5 1 of 3	

Date Started: 03/04/2019	Date Completed: 03/04/2019
Logged by: K. Huddleston	Checked by: C. Kroskie
Location: Lat: 47.625066 Long: -122.3	39974 (WGS 84)
Ground Surface Elevation: 38.07 feet	(NAVD 88)
Comments: Well Tag ID: BLI197	

 Contractor/Crew:
 Holt Services, Inc.

 Rig Model/Type:
 TSi 150 / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter:
 OD: 2 inches

Total Depth: 90 feet

_____ Depth to Groundwater: 22 feet

La L		San	hple	Data						
JUNEUGO.GPJ - MSGNWEI	Elevation (feet)	b Depth (feet)		Length (inches) Graphic Log	Material Description			Water Level	Well Construction	Depth (feet)
GABL	-	40	Π		POORLY GRADED SAND (SP), (medium dense), wet, brown. [ADVANCE	OUTWASH]			10	<u>-</u> 40-
		_							10	_
⇒ NI9	γ	_		60						_
		-							10	-
EGAB		45 —	H		POORLY GRADED SAND WITH SILT (SP-SM), (dense), wet, gray-brown.				10	-45
≥ ⊻		_							10	
	10	_		60					10	_
Ц Т		_							10	_
		50 —	Ц		POORLY GRADED SAND WITH SILT (SP-SM), (dense), wet, gray-brown.				10	- 50
Ϋ́		-								
MASIE	-15	_	Π						10	_
КАКҮ	Ϋ́.	_		36					10	_
		55 —	Н				/		10	-55
		_		36	CLAYEY SAND WITH GRAVEL (SC), trace cobbles, (dense), moist, brown	l.				-
- בי גיפיבי	0	-							10	_
	-20	_							10	
		60 —								-60
		-								-
		-							10	-
/SHAK	-25	-		24	SANDY SILT WITH GRAVEL (ML), trace cobbles, (hard), moist, gray.				10	_
		- 65 —	Н		CLAYEY SAND WITH GRAVEL (SC), (very dense), moist, gray.				10	- 65
		-	Н		CLAYEY GRAVEL WITH SAND (GC), (very dense), wet, gray.					_ 00
HLEYA		_		42					10	-
- M	-30	-							10	-
2:LL LZ		-							10	- 70
16/1.7 -		70 —		24	POORLY GRADED SAND WITH SILT (SP-SM), (very dense), wet, gray.				10	—70 -
4.GLB		_	Ц						10	_
IBKAR	-35	-		18	POORLY GRADED SAND WITH SILT (SP-SM), (dense), moist, olive, freq	uent iron oxide staining.				-
J F			H		POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), (dense), w	et, gray, frequent pockets of silty	/ sand.		10	-
A/GIN		75 —							10	75
		_		72						_
	40	_								-
M/SHA		-							: : : :	-
D) H)		neral						<u> </u>	<u>-1-1</u> -1	\neg
ALUKI	2.1	/later	ial s	tratum li	1-1 for explanation of descriptions and symbols. ines are interpretive and actual changes may be gradual. Solid lines indicate distinct contac	ts and dashed lines indicate gradual o	- approximate	e con	tacts.	
HALEY					ns are based on visual-manual identification (ASTM D 2488), unless otherwise supported by I, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary wit					
Ĩ					ind surface elevations are approximate.					
H PRC	+		1:1	CRO	Project: Seattle DOT Mercer Parcels Site	Sonic Core Log	Figure	Α	1-5	2
20 FUS	_		_		dev & Aldrich Project No.: 19409-04	HMW-1D	Sheet	2	2 of 3	3

Date Started: 03/04/2019	Date Completed: 03/04/2019
Logged by: K. Huddleston	Checked by: <u>C. Kroskie</u>
Location: Lat: 47.625066 Long: -122.3	39974 (WGS 84)
Ground Surface Elevation: 38.07 feet	(NAVD 88)
Comments: Well Tag ID: BLI197	

 Contractor/Crew:
 Holt Services, Inc.

 Rig Model/Type:
 TSi 150 / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

 Total Depth:
 90 feet

 Depth to Groundwater:
 22 feet

		Sar	nple	e Da	ata				T
CUCKLUGS.GPJ - mschweitz Elevation (feet)		Depth (feet)		Length (inches)		Material Description	Mater Level	Well Construction	⊖ Bepth (feet)
				60		POORLY GRADED SAND WITH SILT (SP-SM), (soft), wet, gray.			
				60		POORLY GRADED SAND WITH SILT (SP-SM), few gravel, (dense), wet, gray.			- 85
	9	0		L		Bottom of Borehole at 90.0 feet.	I		90 -
		_							-
	9	5-							-95
-60 -60		_							-
A/GEOMAI	10	- 0 -							- -100
		_							-
	10	-							-105
	10	-							-
-70 - 70		_							-
1 12/6/1.7 - 97	11	0-							-110 -
		-							-
	11	5-							-115
HE/SEA_DAT -80		-							-
		-	Net	toc'					<u> </u>
	l. Re 2. Ma 8. US 4. Gr	ateri SCS roun	to F ial s de idwa	⁻igu strat sigr ater	ure A ^r tum li natior r leve	1-1 for explanation of descriptions and symbols. lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approxi ns are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). el, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time. und surface elevations are approximate.	mate c	ontacts	š.
	+1	<u>; / .</u>				Project: Seattle DOT Mercer Parcels Site Sonic Core Log Figure Location: Seattle, Washington HMW-1D Shee		A1-	

Date Started: 03/12/2019 Date Completed: 03/13/2019	Drilling Contractor/Crew: Holt Services, Inc.
Logged by: N. Jones/B. McDonald Checked by: C. Kroskie	Drilling Method: Hollow Stem Auger
Location: Lat: 47.625097 Long: -122.339991 (WGS 84)	Rig Model/Type: CME-75 / Truck-mounted drill rig
Ground Surface Elevation: 38.29 feet (NAVD 88)	Hammer Type: Auto-hammer
Comments: Well Tag ID: BLR917	Hammer Weight (pounds): <u>140</u> Hammer Drop Height (inches): <u>30</u>
	Measured Hammer Efficiency (%): <u>Not Available</u>

sitzer

Hole Diameter: <u>5.875 inches</u>

Tiolo Diamote		0.01	
Total Depth:	65	5.5 fee	et

Casing Diameter: <u>OD: 2 inches</u> Depth to Groundwater: <u>14.5 feet</u>

					unia Data		_			_						
				sam	nple Data						uc					
Elevation (feet)	⊃ Depth (feet) I	Blow Count	Type Recoverv	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description		Water Level	Well Construction	10	WC (% ● Fines Conte ▲ SPT N V 20 3	ent (%) ′alue	10	Depth (feet)
	- 0							POORLY GRADED SAND WITH SILT AND GRAVE (SP-SM), dense, moist, gray-brown. [FILL]	EL							0-
35	-	10 19 20		18	No odor, no sheen	0.1						· · · · · · · · · · · · · · · · · · ·		·····	9·····	
-	5	4 4 5	, ig	18	No odor, no sheen	<0.1		Becomes loose.				9				- 5
- 30-	_	14 18 24		18	No odor, no sheen	0.1		Becomes dense.							▲ 42	-
-	10	20 26 29	X e	18	No odor, no sheen	<0.1		Becomes very dense.								- 10 5
	-	17 19 23	14 I	18	No odor, no sheen	<0.1		Becomes dense.		atd ⊈		 			▲	-
	15 — - -	5 7 4		18	GS, WC, No odor, no sheen	<0.1		Becomes medium dense, wet, gray-brown.	iot grov			8		· · · · · · · · · · · · · · · · · · ·	 	- 15 - -
	- 20 -	222	18in.		GS, WC, No odor, no sheen	<0.1		SANDY LEAN CLAY WITH GRAVEL (CL), SOIL, MO	isi, gray.				•	· · · · · · · · · · · · · · · · · · ·	50 Х	- 20
15 15	- - 25 -	1 3 9	18in		No odor, no sheen	<0.1		LEAN CLAY (CL), soft, moist, dark brown to black, f organics, occasional layer of charcoal, wood debris.	 ine	-		▲ 	2		·····-	- - 25 -
- 10-	- - 30 -	4 11 13 4 11 16			No odor, no sheen No odor, no sheen	0.1		SANDY SILT (ML), medium stiff, moist, gray, scatte charcoal. SILTY SAND (SM), medium dense, wet, gray. POORLY GRADED SAND WITH SILT (SP-SM), me dense, wet, gray.	'			· · · · · · · · · · · · · · · · · · ·	24			- - 30
2	-	16	∐		sheen											
-	35	7 11 14		18	GS, WC			SILTY SAND (SM), medium dense, wet, gray.					17 X0 A 25		 	- 35 - -
	_							POORLY GRADED SAND WITH SILT (SP-SM), de gray, heave.	nse, wet,							
Ge 1. 2. 3. 4. 5.	Mater USCS Groun	to Fig ial stra designdwate	ure A atum gnatio er lev	line ons el, i	es are interpr are based o	etive ar n visual s at time	nd ac -man e of c	ptions and symbols. ual changes may be gradual. Solid lines indicate distinct contact ual identification (ASTM D 2488), unless otherwise supported by rilling/excavation (ATD) or for date specified. Level may vary wit pproximate.	/ laboratory tes					imate c	ontacts.	
	H A					roject: ocation roject N	: :	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04			g Loq /-11	-	Figur Shee		A1-5	



HC BORING L	-+-	<u>11/</u> 4				YSER y&Aldrich	Projec Locati Projec	on:	Seattle DOT Mercer Parcels S Seattle, Washington :: 19409-04	ite			ig Lo N-1	-		Figu Shee		A1-{ 1 of	
OG - \\HALEYALDRICH	1. F 2. M 3. U 4. C	Refer Materi JSCS Groun	to Fig ial stra desig idwate	iure atun gnat er le	n line ions vel,	es are inte are based if indicated	rpretive d on visu d, is at ti	and a ial-ma me o	criptions and symbols. actual changes may be gradual. Solid anual identification (ASTM D 2488), ur f drilling/excavation (ATD) or for date s e approximate.	nless otherwise supported by I	laboratory test					· approx	imate c	ontacts	i_
I.COM\SHARE\SEA	- - - Ger	– – neral	Notes	5															-
DATA/GINT/HC_LIB	- - - 0	- 35 — -																	- 35 -
RARY.C	-	_							Bottom of Bo	prehole at 31.5 feet.						2			F
GLB - 21	-12	-	5 12 16	X	18	No odor, sheen	no <0.1	1									8		$\frac{1}{1}$
1/9/21 11:34 - 1	- - -	- - 30	2 8 14	X	18	No odor, i sheen	no <0.1	1	SILTY SAND (SM), medium fine sand.	dense, wet, green-gray t	to gray,			**************************************		22			
WHALEYALDRI	- 6	-	3 4 6 2	X.		No odor, i sheen	no <0.′		LEAN CLAY (CL), medium s						10				
ICH.COM/SHA	-	- - 25	1 3 4	X,	18	Organic oc organic sheen	^{dor,} <0.	1	SILT (ML), medium stiff, moi wood debris. [PEAT]		coarse			7	,				 25
RE\PDX_DATA	-15	20	2 1 3	X	18	No odor slight she	r, en <0.7	1	SILTY SAND (SM), medium wood debris.					4			· · · · · · · · · · · · · · · · · · ·		20
A/GEOMATICS/	-	-	2 2 1	X	<u>18</u>	No odor, sheen	no <0.1		Becomes soft, moist.					3					-
(GEOSPATIAL	-20-	15 —	2 3 3	X	- 18 -	No odor, i sheen	no <0.1	1	SANDY LEAN CLAY (CL), n	nedium stiff, moist, blue-	gray.			A . 6					15
LIBRARY\MA	- - -	-	3 1 2	X	1171 18	sheen Organic oo no shee	dor, <0.1	1	1-inch lens of dark gray silt a SILTY SAND (SM), very loos organics.			ATC		·····'					-
STER_PROJE	25		8 4 3	8	⊑ 18	Slight dies odor, moderati	sel <0.1		POORLY GRADED GRAVE (GP-GM), loose, moist, brow		D D						31		
CT_FILES/ME	_	-	6 13 18	X,		No odor, i sheen	no <0.1										29		·
RCER_MEGA	- - -8	- 5-	4 7 11 18		- 	sheen	; <0. <i>*</i>	1000	POORLY GRADED GRAVE dense, moist, brown to gray.	L WITH SAND (GP), me [FILL]	 dium								- - 5
BLOCK/GINT/A	35	-	4	X	UD 18	Soil odo		1	(SP-SM), loose, moist, brow	n, scattered fine organics	s. [FILL]						· · · · · · · · · · · · · · · · · · ·		- - -
LMEGABLOCK	-	 Depth (feet) 	Blow Co	Type	Lenath (inches)	Numbe Tests			POORLY GRADED SAND V	·	L	Water Level	Nell			SPT N \ 20 3		0	Depth (feet)
.0GS.GPJ - msc	Elevation (feet)	feet)	Count		ches)	nple Data			n N	laterial scription		evel	Construction						feet)
hweitzer										Total Depth: <u>31.5 feet</u>		-	-	to Grour					
						D: BLI532				Hammer Weight (pounds): Measured Hammer Efficier Hole Diameter: 5.875 inch	ncy (%): <u>Not</u>	Ava	ailable	er Drop <u>e</u> Diamet	0		,		
	Loca	ation:	Lat:	47.6	6251		-122.33	9937	(WGS 84)	Rig Model/Type: <u>CME-75</u> Hammer Type: Auto-hamr	/ Truck-moun	ted	drill ri	ig					_
ſ			ted: _ y: C.						Completed: <u>03/06/2019</u> ked by: C. Kroskie	Drilling Contractor/Crew: <u>H</u> Drilling Method: Hollow St		Inc.							
-																			

Date Started: 03/05/2019	Date Completed: <u>03/06/2019</u>	(
Logged by: K. Huddleston	Checked by: <u>C. Kroskie</u>	F
Location: Lat: 47.625104 Long: -122.3	40832 (WGS 84)	H
Ground Surface Elevation: _47.34 feet	(NAVD 88)	٦
Comments: Well Tag ID: BLI198		

 Contractor/Crew:
 Holt Services, Inc.

 Rig Model/Type:
 TSi 150 / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

Total Depth: 90 feet

_ Depth to Groundwater: 25 feet

			Sample Dat	a						_	
Elevation (feet)	Depth (feet)	Type	Number Tests	PID (ppm)	Graphic Log	Material Description			Water Level	Well Construction	Depth (feet)
40 1 45 1 Elevation (feet)	SILTY SAND WITH GRAVEL (SM), (medium dense), moist, brown, occasional organics (root fragment). [FILL]							oot			-0-
40	5		60 No odor, no sheen	<0.1		SILTY SAND WITH GRAVEL (SM), (dense), moist, gray-b	rown, brick debris. [FILL]		_		5
35 1 1	- 10 - - -		60 No odor, no sheen	<0.1		SILTY SAND WITH GRAVEL (SM), (dense), moist, gray-b	rown. [FILL]				10
	- 15 — - -		60 No odor, no sheen	<0.1							15
25 1 1	- 20		48 No odor, no sheen	<0.1		SILTY SAND (SM), few gravel, (dense), moist, gray-brown					20
-	- 25 — -	-	24 No odor, no sheen	<0.1		POORLY GRADED SAND WITH SILT (SP-SM), (dense),			ATD ⊻		25
	- - 30 -		48 No odor, no sheen	<0.1		SANDY SILT WITH GRAVEL (ML), (hard), moist, gray.					30
15			60 No odor, no sheen	<0.1		SANDT SIET WITH GRAVEL (ML), (Hard), Hoist, gray.					26
- - - -	35		24 No odor, no sheen	1.3		POORLY GRADED GRAVEL WITH SILT AND SAND (GP	-GM), (dense), wet, gray.		_		35
1. F 2. F 3. U 4. 0	Materi USCS Groun	to F ial s de idwa	Figure A1-1 for stratum lines an signations are ater level, if ind	e interp based o licated,	oretive on vis is at t	of descriptions and symbols. and actual changes may be gradual. Solid lines indicate distinct contact ual-manual identification (ASTM D 2488), unless otherwise supported by ime of drilling/excavation (ATD) or for date specified. Level may vary with ns are approximate.	laboratory testing (ASTM D 2487).	approximate	e cor	ntacts.	
-+	1 1/4		T CROWS Ivision of Haley & Al		Projec ocati Projec		Sonic Core Log HMW-2D	Figure Sheet		1-55 1 of 3	;

Date Started: 03/05/2019	Date Completed: 03/06/2019						
Logged by: <u>K. Huddleston</u>	Checked by: <u>C. Kroskie</u>						
Location: Lat: 47.625104 Long: -122.340832 (WGS 84)							
Ground Surface Elevation: _47.34 feet (NAVD 88)							
Comments: Well Tag ID: BLI198							

 Contractor/Crew:
 Holt Services, Inc.

 Rig Model/Type:
 TSi 150 / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

Total Depth: 90 feet

____ Depth to Groundwater: 25 feet

Sample Data												
Elevation (feet)	Depth (feet)	Type	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description			Water Level	Well Construction	Depth (feet)
1 - 2	40 —		60 1	No odor, no sheen	2.3		SANDY SILT (ML), (very stiff), moist, gray.					- 40· - - -
-	45 — _						SANDY SILT WITH GRAVEL (ML), (very stiff), moist, gray.					-45 -
-0	-		24	No odor, no sheen	<0.1							-
_	- 50	Π	12	No odor, no sheen	<0.1		SANDY SILT WITH GRAVEL (ML), (very dense), moist, gr	ay.				- 50
-	-						SANDY SILT (ML), (very dense), moist, gray, frequent layers of silt, trace gravel.					
 -												
_	55 —	Η	18	No odor, no	<0.1		POORLY GRADED SAND WITH SILT (SP-SM), (dense), wet, gray.					- 55
-10	_	H		sheen			SANDY SILT (ML), (very dense), moist, gray, frequent layers of silty to poorly graded sand.					
-	-		42 1	No odor, no sheen	<0.1							
-	60 -	Π				<u>, , , , , , , , , , , , , , , , , , , </u>	POORLY GRADED SAND (SP), few gravel, (dense), wet, gray.					
-15	_		60 1	No odor, no sheen	<0.1							
-20	- 65 — - -		60 1	No odor, no sheen	<0.1		POORLY GRADED SAND WITH SILT AND GRAVEL (SP layer of silt.	-SM), (dense), wet, gray, occasio	 onal			- 65 - -
CLAYEY SAND WITH GRAVEL (SC), (very dense), wet, gray.												
-No 6 No odor, no <0.1												
70 1 24 No odor, no sheen <0.1												
 General Notes: 1. Refer to Figure A1-1 for explanation of descriptions and symbols. 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts. 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time. 5. Location and ground surface elevations are approximate. 												
Project: Seattle DOT Mercer Parcels Site Location: Seattle, Washington												
	Adivision of Haley & AldrichCountersCountersHMW-2DSheet2 of 3											

Date Started: 03/05/2019 Date Completed: 03/06/2019	Contractor/Crew: Holt Services, Ir	IC.		
Logged by: K. Huddleston Checked by: C. Kroskie	Rig Model/Type: TSi 150 / Track-mounted drill rig			
Location: Lat: 47.625104 Long: -122.340832 (WGS 84)	Hole Diameter: <u>10 inches</u>	Casing Diameter: <u>OD: 2 inches</u>		
Ground Surface Elevation: 47.34 feet (NAVD 88)	Total Depth: 90 feet	Depth to Groundwater: 25 feet		
Comments: Well Tag ID: BLI198				


100 1	-	t, brown, ∶																				HSILT		
CCCasional layer of iron oxide staining. 0 CCasional layer of iron oxide staining. 0 CCasional layer of iron oxide staining. 0 CCasional layer of iron oxide staining.	ər of s		, brown	brown,	brown,	brown	t, browi	vet, brov	et, brov	et, brov	et, bro	wet, bro	et, bro	et, brov	∍t, brov	∍t, bro	∍t, brov	iet, bro	wet, bro	vet, bro	vet, bro	wet, bro	wet, br	, wet, b
$5 + 2$ 50 $ \chi _{\overline{6}}$ 12 No sheen $ < 0.1 $																								
		very den), very de	very de	 very de	 very de	, very d	<u>М</u>), very	1), very	1), very	1), very	M), ver	l) verv), very), very), very), very	/I), very						
$\begin{array}{c c} 35 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ $													i), voiy						SM), ver	M), ven	M), veņ	SM), ver		SM), ve

	Logo Loca Grou	ged by ation: und S	Surfac	Kros 47.6 e Ele	skie 2506 vatio	8 Long: n: <u>45.5</u>	-122.34 5 feet (I	Chec 10828	kec (W		Drilling Contractor/Crew: <u>1</u> Drilling Method: <u>Hollow St</u> Rig Model/Type: <u>Mobile B</u> Hammer Type: <u>Auto-ham</u>	em Auger -58 / Truck-m mer	noun	ted dri	l rig					
eitzer	Com		ts: <u>N</u>	/ell Ta	ag IC): BLR92	2				Hammer Weight (pounds): Measured Hammer Efficien Hole Diameter: <u>5.875 inch</u> Total Depth: <u>46 feet</u>	ncy (%): <u>No</u>	t Ava _ Ca	ailable asing [Drop He Diameter Ground	: <u>OD:</u>	2 inche	es		
EGABLOCKLOGS.GPJ - mschw	Elevation (feet)	ð Depth (feet)	Blow Count	Type Recoverv	ches)	ple Data <u>Numbe</u> Tests	r PII (ppr				aterial scription		Water Level	Well Construction	10		PT N V 0 3		10	는 Depth (feet)
MEGABLOCK/GINT/ALLME	- 2 - -	40 — - - 45 —	16 43 50		18	No shee	n <0.	1		POORLY GRADED SAND W \dense, wet, gray. SILT (ML), hard, wet, gray.										
ECT_FILESWERCER	- 0 - -	4J - -	50		12	<u>No shee</u>	n <0.	1		SILTY SAND WITH GRAVEL Bottom of Bor	(SM), very dense, wet, ehole at 46.0 feet.	gray.								43 [6" - -
BRARY\MASTER_PROJI	- - י -	50 - - -	-																-	— 50
OMATICS/GEOSPATIAL_LI	1- 	- 55 — - -	-																-	- 55 - -
DM\SHARE\PDX_DATA\GE		- 60 - - -	-																-	- - 60 - -
1:35 - \\HALEYALDRICH.CO	20	- 65 - -	-																-	- - -
LIBRARY.GLB - 21/9/21 1																			-	- - 70 - -
SHARE\SEA_DATA\GINT\HC		- 75 — - - -	-																-	- - 75 - -
3 - \\HALEYALDRICH.COM	1. F 2. M 3. l 4. (Refer Mater USCS Grour	rial str 6 desig ndwate	jure / atum gnatio er lev	lines ons a vel, if	s are inte are basec indicatec	rpretive d on vis d, is at t	e and ual-m time c	acti anu of dr	otions and symbols. ual changes may be gradual. Solid li ial identification (ASTM D 2488), unl illing/excavation (ATD) or for date sp oproximate.	ess otherwise supported by	laboratory tes					approxi	mate c	ontacts.	
HC BORING LOC	1	H	A divi				Projec Locati Projec	ion:	S	Seattle DOT Mercer Parcels Sit Seattle, Washington 19409-04	te			ig Log V-21			Figur Shee		A1-5 2 of 2	

	Date Logge									ompleted: <u>03/12/2019</u>	Drilling Contractor/Crew:		es, Inc.	/ Ray	on Darli	ng				
		-	-				-122.34			ed by: <u>C. Kroskie</u> WGS 84)	Drilling Method: <u>Hollow St</u> Rig Model/Type: <u>Mobile B</u>		-moun	ted dr	ll rig					
						on: <u>47.4</u>		NA	VD 8	38)	Hammer Type: <u>Auto-ham</u>									
	Comr	nents	s: <u>W</u>	ell T	ag I	D: BLR92	23				Hammer Weight (pounds): Measured Hammer Efficier				r Drop H	leight (inches)	: <u>30</u>		—
											Hole Diameter: <u>5.875 inch</u>				 Diamete	er: <u>OD</u>	: 2 inch	es		
veitzer											Total Depth: <u>66.5 feet</u>		D	epth to	Groun	dwater:	23 fee	et		
mschv					San	nple Data								_						
- GPJ -	eet)													lotior						
LOGS	Elevation (feet)	Depth (feet)	Count		Length (inches)				Graphic Log		aterial cription		evel	Construction						Depth (feet)
LOCK	evati	epth	Ŭ ≷	Type	gth (i	Numbe	er Pl	Ы	aphic		, on paion		Water Leve			• •				epth
EGAB	□ -		Blow 6	T YP	Le -	Tests			Ö				Š	Well	1		PT N V	aiue 10 <u>4</u>	0	
ALL V		°								Base course over quarry spa										
(/GINT	45	-						ļ		SILTY SAND WITH GRAVEL gray-brown, brick and fabric f		moist,								· - -
Ľ OCK	4	-	15 18 10	Ĭ	18	Slight she	-0×	.1												· - -
AEGAE		-	10	Нī		Olight She		[2	8 8		·
ЧЧ ЧЧ		5 -	10 50	Xi	12	Slight she		.1		Becomes very dense.					}					▲ 5
MERO						- Sign one													5	50/6"
FILES	40	_	10 45 50	Niz 7			-0			SILTY GRAVEL WITH SAND	(GM), very dense, moi	st, light								Ļ
LECT		_	45 50	ДĘ		Slight she	een <0	. 1		brown to gray, wood and brick	k debris. [FILL]		Ĺ						·	1 95
PRO	1	10 -	31	V.=		Slight she	<0	1		SILTY SAND WITH GRAVEL	· · · · · · · · · · · · · · · · · · ·									10
VSTER		-	50	A۴	2 2	Slight she	en 50			brown to gray. [FILL]	(e), tery cenee, men	, <u>.</u>			1				5	. <u>⊤</u> 50/6"
RY/M/	35	-	17												1					Ť
LIBRA			50	Дŧ	12	Slight she	een <0	.1											E	6 0/6"
	. 1	15 —	50				-0													15
OSPA		_	50	چ ک	6	Slight she	en <0	.1		SILTY SAND (SM), very dens sand.	se, moist, light brown, co	oarse							···· 5	50/6"
CS/GE	30	-						-												÷
MATIC	e Second	-	33 50	X:	12	No shee	en <0	.1		Occasional layer of poorly gra	aded sand.				1					A
4\GE0		-						ļ							1				5	50/6"
DAT	2	20 -	33 50	Į	12	No shee	en <0	.1												<u>+</u> 20
E/PDX										Occasional seam of poorly gr	aded sand.								5	50/6"
SHAR	25	_	45 50	X .:	12	Slight she	<0>	.1	11	POORLY GRADED SAND (S	P), very dense, moist, I	 ight	ATC ¥							
COM		-	50	Π		Olight She		[brown, occasional layer of sil	ty sand.								5	50/6"
DRICH	2	25 -	50	X ;	6	Slight she	een <0	.1	ΠĒ	SILTY SAND (SM), very dens	se, wet, light brown, occ	asional			1					25
EYALI		-								layer of poorly graded sand.									···· 5	50/6"
- NHAL	20																			Ľ
11:35 -								ļ												Ţ.
/9/21	3	30 -	50	X .5			<0	1												30
LB - 21		-	50			Slight she	en 50			Few gravel.									···· 5	T 50/6"
RY.G	15	-						ļ												·
LIBR/		-													1					÷
UHH H																				25
A\GIN		35 -	44 50	Žį	12	No shee	en <0	.1		Occasional layer of poorly gra	aded sand, occasional s	eam of								<u>+</u> 35
A_DA1	0	_								Sit.									5	50/6" · -
RE\SE	÷	-						ļ												·
MSHAI		-													1					·
H.CO			Notes					ł	<u>. 1 - 1</u>	1				<u>VA V</u>	1		I	1		
LDRIC										riptions and symbols. ctual changes may be gradual. Solid li	ines indicate distinct contact	s and dashe	ed line	s indio	ate gra	dual or	approx	imate c	ontacts	s.
ALEYA	3. U	SCS	desig	gnati	ons	are base	d on vis	sual	-mar	nual identification (ASTM D 2488), unl drilling/excavation (ATD) or for date sp	ess otherwise supported by	laboratory to	esting	(ASTI	M D 248	7).				
/H/ - 5										approximate.										
Ĭ							Proje	ct:		Seattle DOT Mercer Parcels Si	te		Borin			Ī	Figu	e.	A1-	57
BORIN		1'A				VSER y&Aldrich	Locat			Seattle, Washington			IMV	-	-		Shee		1 of	
Я			- write			y on a share that I	Proje	ct N	NO.:	19409-04		1		-2	<u> </u>		5.00		1 01	

	Date Logg						19			completed: <u>03/12/2019</u> ed by: <u>C. Kroskie</u>	Drilling Contractor/Crew: <u>H</u> Drilling Method: <u>Hollow Ste</u>		, Inc.	/ Ray	/on Darli	ng				
	Locat	tion:	Lat:	47.	62	508	85 Long: -	122.3408	869 (WGS 84)	Rig Model/Type: Mobile B		noun	ted dr	ill rig					
							on: <u>47.41</u>): BLR923				Hammer Type: <u>Auto-hamr</u> Hammer Weight (pounds):		_ Ha	amme	er Drop H	leight ((inches)	: 30		
											Measured Hammer Efficier Hole Diameter: 5.875 inch				<u>.</u> Diamete	r. ∩⊓	· 2 inch	00		
itzer											Total Depth: <u>66.5 feet</u>	65	_	-	o Groun					
Ischwe					Sa	amp	ple Data													T
GPJ - n	feet)					s)								Construction						
XLOGS	tion (i (feet	Count		2	(inche			c Log		laterial scription		Level	onstri						i (feet
ABLOCI	Elevation (feet)	Depth (feet)	Blow C	Type	Recovery	Length (inches)	<u>Number</u> Tests	PID (ppm)	Graphic Log				Water Level	Well C			SPT N V			Depth (feet)
TMEG	- 4	40 —	ш 40 50		11in. R		No sheen	-0.4	$\frac{10}{10}$	SANDY SILT (ML), hard, we	t, gray, frequent layers of	f silty	>		1	0 2	20 3	80 <u>4</u>	0	40-
			50	Π	-		NO SHEEN			sand.									5	.∟ 50/6"
- OCK	2 2	_																		
EGABL		-																		. -
CER_N	4	45 —	50	X	5in.	12	No sheen	<0.1		POORLY GRADED SAND V	VITH SILT (SP-SM), very	dense,	-						 	45
SWERC				Π						wet, gray, occasional layer o	f silty sand.									
	0	_																		
		_																		·
R PRC	ł	50 -	50		in.	12	No sheen	<0.1	H	SANDY SILT (ML), hard, we			-							50
ASTE				ĥ	-		NO SILCEIT								1	· · · · · · · · · · ·				/6"
MRY/N	- ⁵	_																		
		_																		·
PATIA	ł	55 —	33 50		10in.	12	No sheen	<0.1		Occasional layer of poorly gr	aded sand.									55
GEOS			50	Ĥ	÷		No sneen									• • • • • • • • •			5	50/6"
ATICS	-10																			Ē
GEOM		_																		·
DATA	. 6	60 —	40 50		Ŀ	12		<0.1		POORLY GRADED SAND (SP), very dense, wet, gra	iy, few	-							60
X04		-	50	Ĥ	6		No sheen			gravel.	,. , ,								5	
SHARE	-15													E						
COM		_								Heave.										
	(65 —	9 26 41	X	8in.	18				POORLY GRADED SAND V	VITH GRAVEL (SP), very	/ dense,	-							65
ALEYA	0		41	<u>I</u> N	-				1.10	wet, gray, occasional layer o Bottom of Bo	f silty sand. rehole at 66.5 feet.			<u> </u>	1		1	1	<u> </u>	67
35 - WH	-20	_																		\vdash
21 11		-																		-
- 21/9/		70 -																		-70
Y.GLB	2																			Ļ
IBRAR	-25	-																		+
J E		-																		+
A/GIN		75 -																		-75
	0																			F
HE/SE	-30	-																		-
M/SHA		-																		+
DD:H:			Note:			4 4	for ovelor	ation of	daaa	vintions and symptote										
ALDRIC	2. N	lateri	ial str	atu	m li	ines	s are inter	pretive a	nd ad	riptions and symbols. ctual changes may be gradual. Solid	lines indicate distinct contacts	s and dashed	l line	s indi	cate gra	dual or	approx	imate c	ontacts	S.
HALEY	4. G	Groun	ndwat	er le	eve	el, if	indicated,	is at tim	ne of	nual identification (ASTM D 2488), un drilling/excavation (ATD) or for date s			sting	(AST	M D 248	().				
ارَ ۲פ	5. L	ocati	on ar	nd g	Irol	und				approximate.	ita I									
SKING		12	177	Ci	0	22		Project: _ocatio		Seattle DOT Mercer Parcels S Seattle, Washington	ITE			g Lo	-		Figu		A1-{	
HCB			A divi	ision (of H	aley	& Aldrich F	Project		19409-04		H	٧V	V-2	IB		Shee	et	2 of	2

Log Log Gro	gged b cation: ound S	oy: <u>C.</u> : <u>Lat: 4</u> Surface	D3/13/2019 Date Completed: 03/13/2019 Kroskie Checked by: C. Kroskie 47.625125 Long: -122.340886 (WGS 84) Elevation: 47.39 feet (NAVD 88) ell Tag ID: BLR924 Elevation: 47.39 feet (NAVD 88) Elevation:	Drilling Method: <u>Hollow S</u> Rig Model/Type: <u>Mobile I</u> Hammer Type: <u>Auto-han</u> Hammer Weight (pounds) Measured Hammer Efficie	B-58 / Truck-mounted drill rig nmer): <u>140</u> Hammer Drop Height ency (%): <u>Not Available</u>)	
				Hole Diameter: <u>5.875 inc</u> Total Depth: <u>30 feet</u>	<u>ches</u> Casing Diameter: <u>OI</u> Depth to Groundwate			
45 T Elevation (feet)	O Depth (feet)	Graphic Log	1 foot of base course over quarry spalls.	Material Description			Water Level Well Construction	Depth (feet)
	- - - 5 -		SILTY SAND WITH GRAVEL (SM), moist, light brown	n, brick debris. [FILL]				xhuhuhuh 5
35 1 1 1 1 1 40	- - - 10 - -		Becomes gray-brown, gravelly drilling. Wood debris. SILTY SAND (SM), moist, gray-brown, few gravel.					10
30 1 1 1 1 1 1 30	- - 15 - - -		SILTY SAND WITH GRAVEL (SM), moist, gray-brown SANDY SILT (ML), moist, gray-brown.	n, gravelly drilling.				- 15
	- 20 - - -		SILTY SAND WITH GRAVEL (SM), moist, gray-brown	n, smooth drilling.				- - 20 - -
15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 - - - - 30		SILTY SAND (SM), wet, gray, few gravel.					- 25
	- - - 35 - - - -	- - - - - -		f Borehole at 30.0 feet.				- - - - - 35 - - - -
1. 2. 3. 4.	Refer Mater USCS Grou	r to Fig rial stra S desig ndwate	ure A1-1 for explanation of descriptions and symbols. atum lines are interpretive and actual changes may be gradual. So gnations are based on visual-manual identification (ASTM D 2488), er level, if indicated, is at time of drilling/excavation (ATD) or for dat d ground surface elevations are approximate.	unless otherwise supported by te specified. Level may vary wit	/ laboratory testing (ASTM D 2487).	r approximate	e contact:	3.
			Project: Seattle DOT Mercer Parcels Location: Seattle, Washington Project No.: 19409-04	Site	Boring Log HMW-2S	Figure Sheet	A1- 1 of	

Date Started: 03/06/2019	Date Completed: 03/06/2019
Logged by: K. Huddleston	Checked by: C. Kroskie
Location: Lat: 47.625133 Long: -122.3	41998 (WGS 84)
Ground Surface Elevation: 56.56 feet	(NAVD 88)
Comments: Well Tag ID: BI 1199	

Contractor/Crew: Holt Services, Inc. Rig Model/Type: TSi 150 / Track-mounted drill rig

Hole Diameter: 10 inches Casing Diameter: OD: 2 inches Total Depth: 90 feet

___ Depth to Groundwater: 44 feet

	_										_
.	\vdash		ample Data	a 						ы	
Elevation (feet)	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Graphic Log	Material Description			Water Level	Well Construction	
- 0-	_					SILTY SAND WITH GRAVEL (SM), (medium dense), mois	st, brown. [FILL]				_
55	-	60				Brick					_
	-					SANDY SILT WITH GRAVEL (ML), (stiff), moist, brown.					_
5 -						SILT (ML), (very stiff), moist, brown.					_
20	-	60									_
	-					Occasional iron oxidation.					-
- 10 42	-	30				SILTY SAND (SM), few gravel, (very dense), moist, gray-b	rown.				_
		24	Petroleum odor, slight sheen	<0.1		SILT WITH GRAVEL (ML), (hard), moist, gray-brown.					-
15 -	μ	12	Petroleum odor, slight			SILTY SAND WITH GRAVEL (SM), (very dense), moist, g	 ray-brown.				_
40		18	sheen Petroleum odor, slight sheen								_
00	-	30	Petroleum odor, slight	<0.1							_
20 - ទួ	-		sheen			SILTY SAND (SM), few gravel, (very dense), moist, gray-b seams.	rown, occasional poorly graded s	sand			
	_	60									_
25 -	H										_
30	-	42				SILTY SAND WITH GRAVEL (SM), (very dense), moist to	wet, gray, occasional sand layer				-
	-	18				SILTY SAND (SM), (very dense), wet, gray-brown, few gra	vel.				-
30 -		18									_
25	-	24				SILTY SAND (SM), few gravel, (very dense), wet, gray-bro	wn.				_
35 -	-										_
20						SILTY SAND (SM), few gravel, (very dense), wet, gray, fre	quent poorly graded sand layers				_
		48									-
2. Mate 3. USC 4. Grou	er to erial CS de undv	Figu strat esign /ater	um lines ar ations are level, if ind	e interp based c licated,	retive on vis is at t	of descriptions and symbols. and actual changes may be gradual. Solid lines indicate distinct contact ual-manual identification (ASTM D 2488), unless otherwise supported by ime of drilling/excavation (ATD) or for date specified. Level may vary wi ns are approximate.	/ laboratory testing (ASTM D 2487).	r approximat	e con	tacts.	
_			-	Р	rojeo		Sonia Caro Lag	Figure	٨	4 6	=
			n of Haley & Ald		ocati	ion: Seattle, Washington	Sonic Core Log HMW-3D	Figure Sheet		1-5 ∣of 3	
				P	rojeo	ct No.: 19409-04		0			-

Date Started: 03/06/2019	Date Completed: 03/06/2019												
Logged by: K. Huddleston	Checked by: C. Kroskie												
Location: Lat: 47.625133 Long: -122.341998 (WGS 84)													
Ground Surface Elevation: 56.56 feet	(NAVD 88)												
Comments: Well Tag ID: BI 1199													

 Contractor/Crew:
 Holt Services, Inc.

 Rig Model/Type:
 TSi 150 / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

Total Depth: 90 feet

____ Depth to Groundwater: ______ 44 feet

			s	ample Data	3						
Elevation (feet)	Depth (feet)	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Graphic Log	Material Description			Water Level	Well Construction
-	40 —	İ					SILTY SAND (SM), few gravel, (very dense), wet, gray, fre (continued)	quent poorly graded sand layers			Ī
C L	_						Few cobbles present.				
	-		24				POORLY GRADED SAND WITH SILT (SP-SM), (very der seams.	ise), wet, gray, occasional silty sa	 and	atd ⊻	
_	45	П	12				SILT WITH SAND (ML), (hard), wet, gray. SILTY SAND WITH GRAVEL (SM), (very dense), wet, ligh				
2	- - 50 —		48				SILLY SAND WITH GRAVEL (SM), (Very dense), wet, lign coarse gravel.	it brown, occasional seam of san	a with		
C	-						SILT WITH SAND (ML), (hard), moist, gray, coarse sand a	nd few coarse gravel.			
	_		36								
	55 —	Ц									
5	-		10				SILTY SAND WITH GRAVEL (SM), (very dense), moist, g	 ray, heave.			
	_		48				Becomes light brown.				
?	60 - - -		48				SILTY SAND WITH GRAVEL (SM), (very dense), moist, g	ray.			
	- 65 —	H	12								
2	_										
	_										
	- 70 —										
2	-										
•	-		24				LEAN CLAY WITH SAND (CL), (hard), moist, gray.				
07	75 — -										
2	-										
	_						POORLY GRADED SAND WITH SILT (SP-SM), (very der	ise), moist, gray.			
1. 2. 3. 4. (Mater USCS Grour	to l rial s de ndw	Figu strat sigr ater	um lines an nations are l level, if ind	e interp based o icated,	oretive on vis is at t	of descriptions and symbols. and actual changes may be gradual. Solid lines indicate distinct contactual-manual identification (ASTM D 2488), unless otherwise supported by ime of drilling/excavation (ATD) or for date specified. Level may vary with ns are approximate.	/ laboratory testing (ASTM D 2487).	⁻ approximate	e cont	acts.
1		vz	TC	ROWSE	- ·)	Proje		Sonic Core Log	Figure	Α	1-59
		_		n of Haley & Ald	Interfer	ocat Proje	on: Seattle, Washington xt No.: 19409-04	HMW-3D	Sheet	2	of 3





La La G	round	oy: <u>C</u> : <u>Lat:</u> Surfac	Kros 47.62 e Elev	kie 2515 /atic	19 50 Long: -1 51. <u>55.02</u> 5: BLR925	Cł 22.3419	neck 30 (ed by: <u>C. Kroskie</u> Drilling Met WGS 84) Rig Model/ 38) Hammer T Hammer W Measured	tractor/Crew: <u>Holt Services</u> hod: <u>Hollow Stem Auger</u> Type: <u>Mobile B-58 / Truck-r</u> /pe: <u>Auto-hammer</u> eight (pounds): <u>140</u> Hammer Efficiency (%): <u>No</u> eter: 5.875 inches	moun H ot Ava	<u>ted di</u> amme ailable	rill rig er Drop H	leight (
eitzer									: 45.5 feet	_	-	o Groun					
HARE/PDX_DATA/GEOMATICS/GEOSPATIA_LIBRARY/MASTER_PROJECT_FILES/MERCER_MEGABLOCK/IGNT/ALL/MEGABLOCK/IOGS/GPJ - med/ 1 3 1 4 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Depth (feet)	Blow Count	Type Recoverv 20	ches)	ple Data <u>Number</u> Tests	PID (ppm)	Graphic Log			Water Level	Well Construction	11		PT N V 0 3		10	Depth (feet)
EGABLOCK/GINT/ALLM		9 13 10	, ig	18	Petroleum odor, slight sheen	3.0		Asphalt. SILTY SAND WITH GRAVEL (SM), me brown. [FILL]		-			· · · · · · · · · · · · · · · · · · ·	23			
SMERCER M	5-	8 21 28		18	No sheen	<0.1		SILT (ML), hard, moist, light brown to gr iron oxide staining. [FILL]	ay, frequent seams of	-							- 5 ▲ 49
		19 50	X ie	12	No sheen	0.1		Occasional seam of poorly graded sand									50/6"
MASTER_PRO	2 10 -	27 50	X€		No sheen	3.0		SILTY SAND WITH GRAVEL (SM), ver gray-brown.	/ dense, moist,	_						5	+ 10 50/5"
ATIAL_LIBRAR	2 15 -	50 40	eiñ X		No sheen	<0.1		Becomes gray.									♠ 50/6" ↓ 15
GEOMATICS/GEOSPA		50	X.	11	No sheen	10		Become gray to gray-brown.								5	▲ 50/5"
RE/PDX_DATA/0	20 -	40 50	Z io	12	Petroleum odor, slight sheen	9.8		Becomes gray.									20 50/6"
	25 -	39 50	∑ Ę		Odor, no sheen	11.8		SANDY SILT (ML), hard, moist, gray, fe poorly graded sand seam.									► 50/6"
11:36 - \\\ALEYALDRI 1 1 1 3 3	. 20	39 50	X ie	12	Odor, no sheen	1.8		SILTY SAND (SM), very dense, wet, gra	ay, few gravel.							5	50/6"
DATAIGNTHC_LIBRARY.GLB - 2/19/21 11:36 - \\HALEYALDRICH.COMS	30 -	23 30 50	<u> </u>	18	No sheen	0.1		POORLY GRADED SAND (SP), dense, staining. SILTY SAND (SM), very dense, wet, gra	1	 / [_]						· · · · · · · ·	
	35 -	50	2in Sin	6	No sheen	<0.1		SILTY SAND WITH GRAVEL (SM), ver occasional layer of silt.	y dense, wet, gray,	_		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
	2. Mate 3. USC 4. Grou	r to Fig rial str S desi indwat	gure A atum gnatio er lev	line ons a el, if	s are interp are based o f indicated, I surface ele	retive a on visual is at tim evations	nd a -ma e of	riptions and symbols. ctual changes may be gradual. Solid lines indicate nual identification (ASTM D 2488), unless otherwis drilling/excavation (ATD) or for date specified. Lev approximate.	e supported by laboratory te					approx	imate c	ontacts	; <u>+</u> 3.
HC BORING	+[]					Project: ocatior Project		Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04			ng Lo V-3	-		Figur Shee		A1-(1 of	

ſ	Dat	e Star	ted:	03/1	5/201	19	D	ate C	ompleted: <u>03/15/2019</u>	Drilling Contractor/Crew: Holt Serv	ices, Inc.	/ Ray	on Darling				
		ged b							ed by: <u>C. Kroskie</u>	Drilling Method: Hollow Stem Auge	er						
						60 Long: -				Rig Model/Type: Mobile B-58 / Tru	ck-moun	ted dri	ill rig				
						n: <u>55.02</u>		AVD 8	38)	Hammer Type: <u>Auto-hammer</u>							
	Cor	nment	ts: <u>N</u>	/ell T	ag II	D: BLR925	5			Hammer Weight (pounds): <u>140</u>			r Drop Heigh	t (inches	s): <u>30</u>		
										Measured Hammer Efficiency (%): Hole Diameter: 5.875 inches			 Diameter: C	D: 2 incl	hoe		
zer										Total Depth: 45.5 feet		-	o Groundwate				
shweit					_							1	1				
ERCER_MEGABLOCK/GINT/ALLMEGABLOCKLOGS.GPJ - msch	_			$\frac{1}{1}$	Sam	ple Data						Ę					
GPJ	Elevation (feet)				() ()							lotic					
-OGS) uo	(feel	nut		che			Log		aterial scription	evel	nstri					feet
OCKI	vati	Depth (feet)	ပို	Merv.	t (j			hic	Des	scription	er	ð					Depth (feet)
GABL	Шe		Blow Count	Type	Length (inches)	<u>Number</u> Tests	r PID (ppm)	Graphic Log			Water Level	Well Construction		SPT N		40	
ΤME	-	40 —	50			No sheer	<0.1		SILTY SAND WITH GRAVEL	(SM), very dense, wet, gray,			10	20	30 4	40	40
I AL	-	-	1		ΊΙ	NO Sheer	1		occasional layer of silt. (conti	nùed)				•••		5	50/6"
K/GI	-	-	1									:∃:		•••			÷
BLOC	-	-	1											•••			÷
IEGAI	-	-	1									:₿.		•••	+		÷
R ≥	10	45 —	50	ني 🛛	6	No sheer	<0.1										45
ERC	-	-	1			•			Bottom of Bor	ehole at 45.5 feet.						5	50/6"
ESW	-	-	1														F
Ē	-	-	1														F
LIBRARY\MASTER_PROJECT	-	-	1														F
Å PR	2	50 —	1														- 50
STEF	-	-	1														F
MMA	-	-	1														F
BRAR	-	-	1														F
	-	-	1														F
PATI/	0	55 —	1														- 55
EOSI	-	-	1														-
CS/G	-	-	1														-
MATI	-	-	1														F
NGEO	-	-	1														F
\PDX_DATA\GEOMATICS	ပု	60 —	1														-60
X	-	-	1														F
\RE\F	-	-	-														-
NSH	-	-	1														-
É.	-	-	1														-
- \\HALEYALDRICH.CON	-9	65 —	1														-65
YAL	-	-															F
HALE	-	-	1														F
36 - \\	-	-	1														-
17	-	-	1														-
21/9/2	-15	70 —	1														-70
ġ	-	-	1														-
A/GINT/HC_LIBRARY.GLB	-	-	1														+
.IBRA	-	-	1														F
님	-	-	-														F
LU10	-20	75 —	-														-75
DATA	-	-	1														-
Ц Ц	-	-	1														-
RE/S	-	-	1														-
\\SHA	-	-	-														-
CON	Ge	eneral	Notes	s:													
RICH	1.	Refer	to Fig	gure /					riptions and symbols.								
ALEYALDRICH									ctual changes may be gradual. Solid I nual identification (ASTM D 2488), unl					or approx	ximate o	contacts	5.
HALE	4.	Grour	ndwat	er lev	el, if	indicated	l, is at tim	ne of (drilling/excavation (ATD) or for date s		, .soung						
<u>ا</u> و	5.	Locat	ion ar	nd gro	bund	surface e	elevations	are a	approximate.				<u></u>				
IG LC							Project:		Seattle DOT Mercer Parcels Si	te	Borin	alo	 	Figu	ire	A1-6	<u>-</u>
30RIN		12				a alara	Locatio		Seattle, Washington		HMV			She		2 of	
НСЕ			A GIVI	arufi 0[панну	& Aldrich	Project	No.:	19409-04			v-JI	~	Sne	el	∠ 0ſ	4

	Logg Loca	jed by ition:		Sh 47.0	aljia 624	an 81:	19 2 Long: - n: <u>58.70</u>	122.34	Ch 198	ecke 36 (V	d by: <u>C. Kroskie</u> Drilli VGS 84) Rig I	ng Contractor/Crew: <u>Holt Services</u> ng Method: <u>Hollow Stem Auger</u> Model/Type: <u>CME-85 / Truck-mou</u> mer Type: <u>Auto-hammer</u>	nted	drill							
	Com	ment	s: <u>W</u>	ell ⁻	Гад	ID): BLI162				Mea	mer Weight (pounds): <u>140</u> sured Hammer Efficiency (%): <u>No</u>	ot Av	ailab	le	_	Height (
/eitzer												Diameter: <u>5.875 inches</u> Depth: <u>81.5 feet</u>	_		-		er: <u>OD</u> dwater:				_
.0GS.GPJ - mschw	Elevation (feet)	feet)	Count			İ	ole Data			Log	Materi Descript		evel	Construction				WC (%)		feet)
EGABLOCKI	Elevati	Depth (feet)	Blow Co	Type	Recovery	Length (inches)	<u>Number</u> Tests	: PII (ppr		Graphic Log	Descript		Water Level				▲ S	es Conte PT N V 0 3	alue	.0	Depth (feet)
K\GINI\ALLM		-									3 inches of asphalt pavement. SILTY SAND WITH GRAVEL (SM gray-brown, wood, brick, and conc						· · · · · · · · · · · · · · · · · · ·				-
MEGABLOC	22	- - 5-	6 26 30	X	12in 12in	18	No odor, n sheen	io <0.	1							· · · · · · · · ·	•••••		· · · · · · · · · · · · · · · · · · ·		56
ESWERCER		-	12 25 25	X	12in.	18	Slight odo no sheen	r, <0.	1		Becomes dense to very dense.						· · · · · · · · · · · ·		•••••		50
	20	- -	17 18 19	X	14in.	18	Slight odo no sheen	r, <0.	1		Becomes dense, wood/brick/conci	ete debris.					•••••		···· 37		_ _ 10
MASTER		10 — - -	6 6 50	X	12in.	18	No odor, n sheen	io <0.	1		Beomes very dense, brick debris.						· · · · · · · · · · · · · · · · · · ·		 		- 10 56
	45	-	14 22 34	X	12in.	18	No odor, n sheen	io <0.	1								•••••				56
S\GEUSPAI		15 — - -	12 14 14	X	.i. 1	18	No odor, n sheen	io <0.	1		Becomes medium dense, brown to brick.	light brown, wood fiber and				·····		A 28	3		— 15 - -
	40	-	6 18 19	Η	-	18	No odor, n sheen	0 <0.	1		Becomes dense, gray-brown, woo	d and brick debris.					·····		▲ ··· 37	1	_
		20 — - _	50	×	4in.	4										·····					20 2/4" _
H.COM/SHAP	35	-	35 22 11	X	12in.	18	GS, WC, N odor, no sheen	¹⁰ <0.	1			• •	_				•••••	27 X	▲ 33		_
		25 — - -	13 24 34	X	17in 1	18	No odor, n sheen	io <0.	1		SILTY SAND WITH GRAVEL (SM occasional seam fo sandy silt.		19			·····	· · · · · · · · · · · · · · · · · · ·				- 25 58
21 11:36 - MH	8	-	22 35 50	X	10in.	18	GS, WC, N odor, no sheen	¹⁰ <0.	1		SILT WITH SAND (ML), very dens sand, trace gravel. SILTY SAND (SM), very dense, m		 ∕ 3/19/2019				····•			83 	85
8/1.2 - 2.1/9		30 — - -	50	×	6in.	6	No odor, n sheen	io <0.	1							·····			· · · · · · · · · · · · · · · · · · ·	··· 50	- 30 5/6" -
	25	-																			-
		35 — - -	39 50	X	9in.	9	GS, WC, N odor, no sheen	¹⁰ <0.	1		Frequent seams of fine to medium	sand.				•	· · · · · · · · ·	X			- 35 0/3" -
M/SHAKE/SE	50	-											_								- -
5 - WHALEYALDRICH.CC	1. F 2. N 3. U 4. C	Refer Aater JSCS Grour	ial stra designdwate	ure atur gnat er le	n lir tion: vel,	nes s a , if	s are inter are based indicated	pretive on vis , is at t	an ual- ime	d ac man e of c	ptions and symbols. tual changes may be gradual. Solid lines ir ual identification (ASTM D 2488), unless ot irilling/excavation (ATD) or for date specifie pproximate.	herwise supported by laboratory te						approxi	mate c	ontacts.	
	-+-	H4	A divi			_		Projec Locati Projec	on	:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04		Borir MV	-	-			Figur Shee		A1-6 1 of 3	

	Date Sta Logged								completed: <u>03/07/2019</u> ed by: <u>C. Kroskie</u>	Drilling Contractor/Crew: <u>H</u> Drilling Method: <u>Hollow Ste</u>		, Inc.							
						2 Long: -1	22.3419	986 (\	WGS 84)	Rig Model/Type: <u>CME-85</u> /		nted	drill riç	1					
						n: <u>58.70 f</u>): BLI162	eet (NA	ND 8	38)	Hammer Type: <u>Auto-hamn</u> Hammer Weight (pounds):		н	amme	r Drop H	leiaht (inches)	· 30		
	Commo	<u></u>		T Cl	9 12	DEITOE				Measured Hammer Efficien					loight (inence)	. <u> </u>		
										Hole Diameter: 5.875 inche	es	_	-	Diamete					
weitze										Total Depth: 81.5 feet		_ D	epth to	Groun	dwater:	48.51	feet		
- mscn			_	S	am	ple Data	1	-											
	Elevation (feet) Depth (feet)				s)								Construction						
COGS	ion (1 (feet	Count			(inches)			Log		1aterial scription		evel	nstru			WC (%)		(feet
LOCK	Elevation (fe Depth (feet)	Ŭ	φ	∜	gth (i	Number	PID	Graphic Log				Water Leve	Ŭ U U U			es Conte	• • •		Depth (feet)
EGAB	回 凶 - 40·	Blow	Type			Tests	(ppm)	Ö				Na	Well	1		PT N V 0 3		10	
MLLM	40	50	×	5in.	5	No odor, no sheen	<0.1		SILTY SAND (SM), very der of sandy silt, few gravel. (col	ise, moist, gray, occasion	al layers		88	1				F	↑ ⁺⁰ 50/5"
		_]					+
		-							SILTY SAND WITH GRAVE					<u> </u>					. _
EGABI	15	-								L (Sivi), very dense, wel,	gray.								÷
ž– Y	45	- 50 50	×	Qi	5	No odor, no	<0.1						88	}				<u> </u>	45
ERC		-				sheen							88	1				••• 5	50/5"
LESW														1					· -
	0	1							SILTY SAND (SM), very der	ise, wet, gray, frequent sa	and	_ATC ⊻		1					Ť
HOJE	50]				00 M/0 M			seams.									7()50
<u>н</u> Т	50	41 50	X	8in	10	GS, WC, No odor, no sheen	<0.1								•				Ŧ
MASI		_				Sheen												5 5	50/4" .⊢
- ₩		-							•										+
	2 2	-																	÷
	55	35 50			12	No odor, no	<0.1		- -										55
in Col		50	\vdash	÷	12	sheen	-0.1											5	.⊤ 50/6"
lcs/c		1																	+
	0	1																	T I
IA/GE	60]																	60
AU-X	00	50	×	2ī.	5	No odor, no sheen	<0.1											F	50/5"
€\PD		-							• • •					!					+
AHA		-																	· - -
200 1.00	Ϋ́	-																	÷
LKIC	65	50		0in.	1				Likely cobble or gravel in sa	mpler.								<u> </u>	65
EYAL																		5	50/1"
THA I		1																	1
1:36-	-10]							Trace gravel.										Γ
1.1.7/6	70-																		70
17-8		50	ř	ē	6	No odor, no sheen	<0.1											5	50/6"
-15 -		-							4 • •					 					+
BKA	с С	-							POORLY GRADED SAND V		dense	-		·····					+
- HC	-15	-							wet, gray, medium to coarse	sand.	30,100,								+
	75	19 24 42		E	10	GS, WC, No odor, no	<0.1								-17-			-	- 75
		42	μ	₩	10	odor, no sheen	-0.1												66
]																	Ľ
HAKE	-20																		
	Genera													ł					
L L	1. Refe	r to Fi	gur						riptions and symbols.										
YALU									ctual changes may be gradual. Solid nual identification (ASTM D 2488), ur							approx	imate c	ontacts	3.
MHALE	4. Grou	Indwat	er I	eve	l, if	indicated, i	is at tim	e of	drilling/excavation (ATD) or for date s						,				
ا د. ۲	0. LOCA	uon a	iu (JUU	u IC				approximate.										
RING	H,	ATU	0	20			roject: ocatioi		Seattle DOT Mercer Parcels S Seattle, Washington	Ite			ig Lo	-		Figu	e	A1-(61
HC BC						a Alderah			19409-04		HI	٧V	V-4I	Α		Shee	et	2 of	3



Date Started: 02/28/2020	Date Completed: 02/28/2020
Logged by: B. Dozier	Checked by: M. Goodman
Location: Lat: 47.624959 Long: -122.3	42099 (WGS 84)
Ground Surface Elevation: 58.44 feet	(NAVD 88)
Comments: Well Tag ID: BLZ188	

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 GS Mini Sonic - DB320 / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

 Total Depth:
 70 feet

 Depth to Groundwater:
 34.6 feet

			Sam	ple Da	ita							Τ
Elevation (feet)	Type	Recovery		<u>mber</u> ests	PID (ppm)	Sheen	Graphic Log	Material Description	1		Water Level	, Depth (feet)
- 0-								SILTY SAND (SM), moist, brown.				₩0
	-		HMM	<u>/5IB-5</u> odor	0.1	NS		Air knife to 5 feet				5
	- 3 - 3 - 3	60in.										
- 10 - - 10 - 	- <u>S</u> -S		HMW No	<u>51B-10</u> odor	<0.1	NS		SANDY SILT (ML), moist, gray-brown. SILTY SAND WITH GRAVEL (SM), moist, gray-brow	 n.			-10
		60in.		<u>5IB-15</u> odor	<0.1	NS						- 15
- 4	-3 -3 -3	60in.		5IB-20				SANDY SILT (ML), moist, gray-brown.				
20- 		60in.	No	odor	<0.1	NS		SILTY SAND (SM), moist, gray-brown.				-20
30		60in. 9	No	<u>5IB-25</u> odor	<0.1	NS		grades to gray				- 25
	- <u>}</u> -}		Solve	<u>5IB-30</u> ent-like dor	11.2	NS		SILTY SAND WITH GRAVEL (SM), moist, gray.				- - 30
	- - - - - - - - - - - - - - - - - - -	60in.	HMW SI	5IB-35 ight	15	SS		POORLY GRADED SAND WITH GRAVEL (SP), moi	st, gray		atD ₽	
	-5	60in.	0	eum-like dor				becomes wet grades denser				
General 1. Refer 2. Mater 3. USCS 4. Grou	r to rial S de ndv	Figu strat sigr ater	um line nations level, i	es are are ba if indic	interpre ased on ated, is	etive a visu at tir	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wit approximate.	laboratory testing (ASTM D 2487).	- approximate	contac	ts.
E H			ROM in of Hale		Lo	oject catic oject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log HMW-51B	Figure Sheet	A1 - 1 o	

Date Started: 02/28/2020	Date Completed: 02/28/2020
Logged by: <u>B. Dozier</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624959 Long: -122.3	42099 (WGS 84)
Ground Surface Elevation: <u>58.44 feet (</u>	(NAVD 88)
Comments: Well Tag ID: BLZ188	

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 GS Mini Sonic - DB320 / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 0D: 2 inches

 Total Depth:
 70 feet

 Depth to Groundwater:
 34.6 feet

				Sample Da	ita								
Elevation (feet)	b Depth (feet)	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description			Water Level	Well Construction	Depth (feet)
15 1 1	 45		60					SILTY SAND WITH GRAVEL (SM), wet, gray. becomes denser, moist					- 45
10 1 1	- - - 50 -		60										- 50
-10 1 1 - 5 7 7 1 0 1 1 1 5 7 7 1 7 0 1 5 1 5 1 7 1 1 5 1 1 Elevation (feet)	- - - 55 -		60					becomes wet					_ _ _ 55
- -0 -	- - 60 -		60					becomes wet to moist					- -
- - יי - -	- - 65 — -		60										- - 65
- -	- - 70		60					Bottom of Borehole at	70.0 feet.				- - - 70
	- - 75 -	-											- - - 75 -
1. 2.	Mater	⁻ to F rial s	igur tratu	m lines are	interpre	etive a	and a	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by	ts and dashed lines indicate gradual or a	approximate	e cor	tacts	- - -
	Grour Locat	ndwa tion a	ater I and g	evel, if indic	ated, is ice elev Pro	at tir ation oject catio	ne of s are : n:	drilling/excavation (ACD) or for date specified. Level may vary with approximate. Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04		Figure Sheet		2 of 2	

Date Started: 03/02/2020	Date Completed: 03/02/2020
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624790 Long: -122.3	42094 (WGS 84)
Ground Surface Elevation: _58.58 feet ((NAVD 88)

Contractor/Crew: <u>Cascade Drilling, L.P.</u> Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>

Hole Diameter: <u>10 inches</u> Total Depth: <u>90 feet</u> Casing Diameter: <u>OD: 2 inches</u> Depth to Groundwater: <u>46.89 feet</u>

		L	_		Sample Da	ta							_	
Elevation (feet)	O Depth (feet)	Type	Recovery	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Descriptior	1		Water Level	Well Construction	Denth (feet)
55	- U - -	-							Air knife to 5 feet					- -
- 2	- 5 -		60in.	60	HMW6D-5 No odor, organic sheen	0.1			SILTY SAND WITH GRAVEL (SM), dry to moist, gra plastic debris. [FILL]	y-brown, wood debris, brick fragr	ments,			-
20	- - 10 -		9		HMW6D-10 No odor	0.1	NS							- - 1
45	- - 15		120in.	120	HMW6D-15 Slight solvent-like odor	0.6	NS							- - 1
40	- - 20 —													-
35	- - - 25 -		66in.	120	HMW6D-25 No odor	<0.1	NS							-
30	- - 30 –				HMW6D-30 No odor	<0.1	NS	<u> </u>	SILTY GRAVEL WITH SAND (GM), moist to wet, gra					;
25	- - - 35 –		60in.	60					SILTY SAND WITH GRAVEL (SM), (very dense), mc	ist to wet, gray.				-
20			60in.	60					frequent sand seams					-
1. 2. 3. 4. (Mater USCS Groui	r to rial S de ndv	Fig stra esig vate	jure atur gnai er le	m lines are i tions are ba evel, if indica	interpre ased on ated, is	etive a visua at tir	and a al-ma ne of	criptions and symbols. actual changes may be gradual. Solid lines indicate distinct contac anual identification (ASTM D 2488), unless otherwise supported by f drilling/excavation (ATD) or for date specified. Level may vary wit approximate.	laboratory testing (ASTM D 2487).	r approximate	e con	tacts.	
	_		π		OWSER of Haley & Aldric	Pro Loc	oject catic	: on:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log HMW-6D	Figure Sheet		1-6 1 of 3	

Date Started: 03/02/2020	Date Completed: 03/02/2020
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624790 Long: -122.3	42094 (WGS 84)
Ground Surface Elevation: 58.58 feet	(NAVD 88)
Comments: Well Tag ID: BLZ187	

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

Total Depth: 90 feet

____ Depth to Groundwater: 46.89 feet

Sample Data	а						
Elevation (feet) Depth (feet) Type Recovery rsteat again tinches)	PID (ppm)	Graphic Log	Material Descriptior			Water Level	Well Construction
- +0 			SILTY SAND WITH GRAVEL (SM), (very dense), mo	ist to wet, gray. <i>(continued)</i>		ATD ¥	
Sample Data Sample Data Interview (feet) 			SANDY SILT (ML), (very dense), wet, gray.	t, gray.			5
- 60			SANDY SILT WITH GRAVEL (ML), (dense), moist, g	ray.			
			SILTY SAND WITH GRAVEL (SM), moist, gray.				
General Notes: 1. Refer to Figure A1-1 for exp 2. Material stratum lines are in 3. USCS designations are bas	nterpretive a sed on visua ted, is at tir	and a al-ma me of	ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wil	laboratory testing (ASTM D 2487).	r approximate	e con	tacts.
A division of Haley & Aldrich	Project Locatio	:: on:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log HMW-6D	Figure Sheet		1-63 2 of 3

Date Started: 03/02/2020	Date Completed: 03/02/2020	Contractor/Crew: Cascade Drilling, L	.P.
Logged by: A. Nakahara	Checked by: M. Goodman	Rig Model/Type: TSi 150CC / Track-	mounted drill rig
Location: Lat: 47.624790 Long: -122.3	42094 (WGS 84)	Hole Diameter: 10 inches	Casing Diar
Ground Surface Elevation: 58.58 feet	(NAVD 88)	Total Depth: 90 feet	Depth to Gr
Comments: Well Tag ID: BLZ187			



Casing Diameter: <u>OD: 2 inches</u> Depth to Groundwater: <u>46.89 feet</u>

Date Started: 03/02/2020	Date Completed: 03/02/2020
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624793 Long: -122.3	42107 (WGS 84)
Ground Surface Elevation: 58.65 feet ((NAVD 88)
Comments: Well Tag ID: BLZ185	

Contractor/Crew: Cascade Drilling, L.P. Rig Model/Type: TSi 150CC / Track-mounted drill rig

Hole Diameter: 10 inches Casing Diameter: OD: 2 inches

Total Depth: 50 feet

_____ Depth to Groundwater: 33.43 feet

			_	Sample D	ata							
Elevation (feet)	o Depth (feet)	Type	Recovery		PID (ppm)	Sheen	Graphic Log	Material Description	n		Water Level	Well Construction Depth (feet)
-	-							Air knife to 5 feet				
55	- 5 -			HMW6IA-5 No odor	0.3	SS		SILTY SAND WITH GRAVEL (SM), dry to moist, bro	wn, brick, plastic fragments. [FIL	L]		
20	- - 10 —		60in.	0 HMW6IA-10 No odor	² 0.1	SS						
45 - 45	- - 15 –		120in.	20 HMW6IA-11 No odor	⁵ 0.1	NS						- 15
- 40	- - 20 - - -			HMW6IA-20 Slight odor	0.2	SS						- 20
- 32 -	- - 25 – -	-~~;;	12 12	20								- 25
- - - -	- - 30 -			<u>HMW6IA-3(</u> Slight odor	⁰ 0.5	NS		POORLY GRADED SAND WITH SILT (SP-SM), mo	ist to wet, brown.		ATD	-30
20 1 1 25	- 35 - - -		120in.	20				SANDY SILT (ML), wet, gray, occasional sand seam	s.		⊻	-35
Ge 1. 2. 3. 4.	Mater USCS Groui	r to f rial s S de ndw	=igu strat sigr ater	um lines are nations are b level, if indi	interpre ased on cated, is	etive a visu at tir	and a al-ma me of	criptions and symbols. ctual changes may be gradual. Solid lines indicate distinct conta inual identification (ASTM D 2488), unless otherwise supported b drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	y laboratory testing (ASTM D 2487).	r approximate	e cont	acts.
+				ROWSE In of Haley & Aldr	Lo	oject catic oject	on:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log HMW-6IA	Figure Sheet		1-64 of 2

Date Started: 03/02/2020	Date Completed: 03/02/2020	Contractor/Crew: Cas						
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>	Rig Model/Type: TSi						
Location: Lat: 47.624793 Long: -122.3	42107 (WGS 84)	Hole Diameter: 10 in						
Ground Surface Elevation: 58.65 feet (NAVD 88)	Total Depth: 50 feet						
Comments: Well Tag ID: BLZ185								

Contractor/Crew: Cascade Drilling, L.P.										
Rig Model/Type: TSi 150CC / Track-mounted drill rig										
Hole Diameter: <u>10 inches</u>	Casing Diameter: <u>OD: 2 inches</u>									
Total Depth: <u>50 feet</u>	Depth to Groundwater: 33.43 feet									

tzer	Sample Data											
DCKLOGS.GPJ - mschwei Flevation (feet)	Depth (feet)		Recovery Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description	ı		Water Level	Depth (feet)
10:58 - WALEYALDRICH.COMSHARE/DX_DATAGEOMATICS/GEOSPATIAL_LIBRARYMASTER_PROJECT_FILES/MERCER_MEGABLOCK/IONTALLMEGABLOCK/LOGS/GFJ - mschweitzer - 10 - 5 - 6 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	45		<u></u>					SILTY SAND WITH GRAVEL (SM), wet, gray.				-40-
ROJE	50							Bottom of Borehole a	t 50.0 feet.			
L_LIBRARYIMASTER_F	55	-										- - - 55
PATIA		-										-
		-										-
NGEON	60											-60
DATA		-										-
		-										-
SHARE		-										-
₩0.0 -												-
- HICH	65											- 65
LEYAL		-										_
		-										-
		+										-
7/6/1.7	70	1										-70
- ere												
		4										-
HC_LIBF		-										-
	75	-										- 75
												Ľ
(E\SEA		_										L
ASHAR		-										-
HALEYALDRICH	2. Mat 3. US0 4. Gro	er to teria CS c ound	o Figuro I stratu designa water I	m lines are ations are ba evel, if indic	interpre ased on ated, is	etive a visua at tir	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contactual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	/ laboratory testing (ASTM D 2487).	approximate	conta	
H PRO	HP.	7.1				oject		Seattle DOT Mercer Parcels Site	Sonic Core Log	Figure	A1	-64
1C PUS	Advision of Holey & Aldrich Project. Location: Project No.							Seattle, Washington 19409-04	HMW-6IA	Sheet		of 2

Date Started: 03/03/2020	Date Completed: 03/03/2020							
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>							
Location: Lat: 47.624781 Long: -122.342102 (WGS 84)								
Ground Surface Elevation: _58.67 feet ((NAVD 88)							

Contractor/Crew: <u>Cascade Drilling, L.P.</u> Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>

Hole Diameter: <u>10 inches</u>

Total Depth: 70 feet

Casing Diameter: <u>OD: 2 inches</u> Depth to Groundwater: <u>34.87 feet</u>

		_			_								
_		\square		Sample	e Dat	ta		+				:	5
Elevation (feet)	 Depth (feet) 	Type	Recovery	Numb Test		PID (ppm)	Sheen	Graphic Log	Material Description	1			Well Construction
-	-								Air knife to 5 feet				
52	- 5 -			HMW6I No od	<u>B-5</u> or	<0.1	NS		SILTY SAND WITH GRAVEL (SM), dry to moist, bro debris, metal fragments. [FILL]	wn, brick fragments, plastic debr	is, wood		
50	-		09 09										
	10 - -		36in.	HMW6IE Organic	<u>3-10</u> odor	0.4	NS						
45	- 15 —			HMW6IE No od	<u>3-15</u> or	<0.1	NS						
40	- - 20 -		120IU-	0 <u>HMW6IE</u> No od		0.1	NS						
35	- - 25 —			HMW6IE No od		0.1	NS		POORLY GRADED SAND WITH GRAVEL (SP), (de				
	-		84in.	4					POORLY GRADED SAND WITH GRAVEL (SP), mo	ist, brown.			
30	- 30 —	2						-	SANDY SILT WITH GRAVEL (ML), (dense), moist to				
SILTY SAND WITH GRAVEL (SM), (dense), wet, gray-brown.													
20	-												
1. 2. 3. 4.	Mater USCS Grour	r to I rial s S de ndw	⁻igu strat sigr ater	um lines ations ar level, if ii	are ii e ba: ndica	nterpre sed on ated, is	etive a visu at tir	and a al-ma me of	criptions and symbols. In the changes may be gradual. Solid lines indicate distinct contac Inual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	y laboratory testing (ASTM D 2487).	r approximate	e conta	ıcts.
Project: Seattle DOT Mercer Parcels Site Sonic Core Log Figure A1-65 Advision of Holey & Aldrid Project No.: 19409-04 1 of 2													

Date Started: 03/03/2020	Date Completed: 03/03/2020									
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>									
Location: Lat: 47.624781 Long: -122.342102 (WGS 84)										
Ground Surface Elevation: 58.67 feet (NAVD 88)										
Comments: Well Tag ID: BLZ186										

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

 Total Depth:
 70 feet

 Depth to Groundwater:
 34.87 feet

tzer		Sample Data												
DCKLOGS.GPJ - mschwei	Elevation (feet)	Depth (feet)	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Descriptior			Water Level	Well Construction	는 Depth (feet)
T_FILES\MERCER_MEGABLOCK\GINT\ALLMEGABLOCK	10 - 15 - 1	40	120in.	120					SILTY SAND WITH GRAVEL (SM), (dense), wet, gra becomes gray, occasional sand seams	ay-brown. <i>(continued)</i>				40- - - - 45 - - -
0MATICS\GEOSPATIAL_LIBRARY\MASTER_PROJEC1	- - - - - - - - - - -	50 — - - 55 — - - -	<u>ANNANANANANANANA</u> 120in.	120										- 50 - - - - 55 - - - -
10:58 - \\HALEYALDRICH.COM\SHARE\PDX_DATA\GEC	-10	60 — - - - 65 — - - -	<u></u>	120					POORLY GRADED SAND WITH SILT AND GRAVE	L (SP-SM), wet, gray.				- 60 - - - - - - - - - - - - - -
OM\SHARE\SEA_DATA\GINT\HC_LIBRARY.GLB - 21/9/21 1	- 70 Bottom of Borehole at 70.0 feet.											- 70 - - - - 75 - - - -		
DBE - NHALEYALDRICH.CO.	1. 2. 3. 4.	Mater USCS Grour	to Fi ial st des ndwa	gure ratui igna ter le	m lines are i tions are ba evel, if indica	nterpre sed on ated, is	tive a visua at tir	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wit approximate.	laboratory testing (ASTM D 2487).	approximate	cont	acts.	
HC PUSH PRO	Advision of Haley & Aldrich Project: Location: Project No.						catio	n:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04	Sonic Core Log HMW-6IB	Figure Sheet		1-6	

Date Started: 03/02/2020	Date Completed: 03/02/2020									
Logged by: <u>B. Dozier</u>	Checked by: <u>M. Goodman</u>									
Location: Lat: 47.624711 Long: -122.342090 (WGS 84)										
Ground Surface Elevation: 58.69 feet (NAVD 88)										
Comments: Well Tag ID: BLZ159										

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 GS Mini Sonic - DB320 / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

 Total Depth:
 70 feet

 Depth to Groundwater:
 35.61 feet

Sample Data Bit Muterial Material University University													
l Elevation (feet)	O Depth (feet)	Type	Lenath (inches)		PID (ppm)	Sheen	Graphic Log	Material Descriptior	1		$ \rightarrow $	Well Construction	o Depth (feet)
55 1 1	-							Air knife to 5 feet					
- - -	- 5	Š		HMW7IB-5 No odor	<0.1	NS		POORLY GRADED SAND WITH GRAVEL (SP), mo [FILL]	st, brown, brick fragments and d	ebris.			5
20	- - 10 -		ung 60	HMW7IB-10 No odor	<0.1	NS							- - - 10
45	-		- 100 60)									
-	15 — - -		UIDO 60	HMW7IB-15 No odor	0.1	NS							- 15 -
40	- - 20			HMW7IB-20 No odor	<0.1	NS							- - - 20
35 -			- - - - - - - - - - - - - - - - - - -										
0	25 — - -		-ung 60	HMW7IB-25 No odor	<0.1	NS		POORLY GRADED SAND (SP), moist, brown.					—25 —
<u>-</u> - -	- 30 — -							SILTY SAND (SM), moist, brown-gray.					-
25	- - 35 —		-UI00 60)				SILT WITH SAND (ML), moist, gray.	·		ATD		
20	-		- II 0 60					becomes moist, gray-brown			¥		
General Notes: I. Refer to Figure A1-1 for explanation of descriptions and symbols. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time. S. Location and ground surface elevations are approximate.											ntacts	<u> </u>	
Image: Control of Haley & Aldrich Project: Seattle DOT Mercer Parcels Site Sonic Core Log Figure A1-60 Advision of Haley & Aldrich Project No.: 19409-04 Sheet 1 of 2													

Date Started: 03/02/2020	Date Completed: <u>03/02/2020</u>	Con						
Logged by: <u>B. Dozier</u>	Checked by: <u>M. Goodman</u>	Rig						
Location: Lat: 47.624711 Long: -122.342090 (WGS 84)								
Ground Surface Elevation: _58.69 feet (NAVD 88)								
Comments: Well Tag ID: BLZ159								

Contractor/Crew: Cascade Drilling, L.P.									
Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig									
Hole Diameter: <u>10 inches</u>	Casing Diameter: <u>OD: 2 inches</u>								
Total Depth: <u>70 feet</u>	Depth to Groundwater: <u>35.61 feet</u>								

дer			Sample Data											
EGABLOCKLOGS.GPJ - mschweit	Elevation (feet)	Depth (feet)	Type Recoverv	ches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Descriptio			Water Level	Well Construction	는 Depth (feet)
-OCK/GINT/ALLMEGABL/	15 1 1	40 - - -	60in.	60					SILTY SAND WITH GRAVEL (SM), wet, gray. (conti	nued)				
FILES\MERCER_MEGABI	10 1 1	45 — - - -	60in.	60					grades to gray					- 45 - -
LIBRARY\MASTER_PROJECT_	2	50	60in.	60										
IATICS/GEOSPATIAL_LIBR	0	55 — - -	60in.	60										
\SHARE\PDX_DATA\GEON	-2	60 - - -	12in	60								-		- 60 - -
38 - \\HALEYALDRICH.COM\SHA	-10	- 65 — - -	28in	60					SANDY SILT WITH GRAVEL (ML), (dense), wet, gra	ay.				- - 65 - -
LIBRARY.GLB - 21/9/21 10:5	-	- 70 — -							Bottom of Borehole a	t 70.0 feet.				- - 70 -
_DATA\GINT\HC_LIBRAR	-15	- - 75											- - -75 -	
H.COM/SHARE/SEA_	20 	- - eneral	Note	s:										-
BE - WHALEYALDRICH	1. 2. 3. 4.	Refer Mater USCS Grour	to Fi rial st des ndwa	gure ratur igna ter le	m lines are tions are ba evel, if indic	interpre ised on ated, is	etive a visua at tir	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct conta nual identification (ASTM D 2488), unless otherwise supported b drilling/excavation (ATD) or for date specified. Level may vary w approximate.	y laboratory testing (ASTM D 2487).	approximate	cor	ntacts	
HC PUSH PRC	Locati												1-6 2 of 2	

Date Started: 03/02/2020	Date Completed: 03/02/2020								
Logged by: <u>B. Dozier</u>	Checked by: <u>M. Goodman</u>								
Location: Lat: 47.624814 Long: -122.341888 (WGS 84)									
Ground Surface Elevation: 57.97 feet (NAVD 88)									
Comments: Well Tag ID: BLZ158									

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 GS Mini Sonic - DB320 / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

 Total Depth:
 70 feet

 Depth to Groundwater:
 36.69 feet

				Sample Da	ta						\square		
Elevation (feet)	 Depth (feet) 	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description	ı		Water Level	Well Construction	Depth (feet)
-	- 0	-						Air knife to 5 feet			XXXXXXX		
55	-			<u>HMW8IB-5</u>									
	5	Ş		Solvent-like odor	1.3	NS		SILTY SAND WITH GRAVEL (SM), moist, brown, br	ick fragments. [FILL]				
DC DC	-		60	HMW8IB-10									
	10 -	S		Solvent-like odor	2.0	NS							1- 10
45	-		6 0										
	15 — -	Z		HMW8IB-15 Solvent-like odor	0.9	NS							- 15
40	-	<u>S</u>						grades to more silt					
	20	2		HMW8IB-20 No odor	0.2	NS		SILTY SAND WITH GRAVEL (SM), (dense), moist, g	gray.				-20
35	-		60										
	- 25 — -	8		<u>HMW8IB-25a</u> No odor HMW8IB-25b		NS							-25
30	-	<u> </u>	60										
	- 30 —	5						POORLY GRADED SAND WITH SILT (SP-SM), trac	e gravel, wet, gray.				 - 30
25	-		60										
	- 35 —	3						SILTY SAND WITH GRAVEL (SM), (dense), moist, g	gray.				-
20	-		60								ATD		
	neral	Not	es:										
1. 2. 3. 4. (Refer Mater USCS Grour	to F rial s de ndwa	igur tratu signa ater l	im lines are i ations are ba level, if indica	interpre ised on ated, is	etive a visua at tir	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contar nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	/ laboratory testing (ASTM D 2487).	approximate) con	tacts	.
		M	0	CONSER of Haley & Aldric	Pro Loc	oject catic	: on:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log HMW-8IB	Figure Sheet		1-6	

Date Started: 03/02/2020	Date Completed: 03/02/2020								
Logged by: <u>B. Dozier</u>	_ Checked by: <u>M. Goodman</u>								
Location: Lat: 47.624814 Long: -122.341888 (WGS 84)									
Ground Surface Elevation: 57.97 feet (NAVD 88)									
Comments: Well Tag ID: BLZ158									

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 GS Mini Sonic - DB320 / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

 Total Depth:
 70 feet

 Depth to Groundwater:
 36.69 feet

Sample Data												
Elevation (feet)	Depth (feet)	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description		Water Level	Well Construction	Depth (feet)
1 1 1 1 1 1	40 — - - 45 —		60					SILTY SAND WITH GRAVEL (SM), (dense), moist, g	ray. (continued)			-40
-6			60					SANDY SILT (ML), trace gravel, moist, gray.				
2, 5, 2, 2, 2, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	50 — - - 55 — -		60					SANDY SILT WITH GRAVEL (ML), wet, gray.				
- 0	- - 60 - -		60					SILTY SAND WITH GRAVEL (SM), moist, gray.				- - - -
-10 - 15	- 65 - -	40 in 10										- - - - -
_	70 —	2						Bottom of Borehole at	70.0 feet.			+7
-20	- - 75 - - -	-										- - - - 7
- Ge 1. I 2. I 3. I 4. (General Notes: 1. Refer to Figure A1-1 for explanation of descriptions and symbols. 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts. 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time. 5. Location and ground surface elevations are approximate.											
-+	11/2			of Haley & Aldric	Lo	oject catic oject	on:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04	Sonic Core LogFigureHMW-8IBSheet	1	A1- 2 of	

Date Started: 02/27/2020	Date Completed: 02/28/2020
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624956 Long: -122.3	41687 (WGS 84)
Ground Surface Elevation: 55.32 feet (NAVD 88)

Contractor/Crew: Cascade Drilling, L.P. Rig Model/Type: TSi 150CC / Track-mounted drill rig

Hole Diameter: 10 inches Casing Diameter: OD: 2 inches Total Depth: 90 feet

___ Depth to Groundwater: 43.55 feet

Sample Data						ta								
LOCKLOGS.GPJ - mschwei	5 ¹ Elevation (feet)	⊖ Depth (feet)	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description	1		Water Level	Well Construction	Depth (feet)
DCK/GINT/ALLMEGABI	22	-							Air knife to 5 feet					
S\MERCER_MEGABLO	20	5 — - -	60in.	60	HMW9D-5 No odor	0.1	NS		SILTY SAND WITH GRAVEL (SM), moist, brown/blav POORLY GRADED SAND WITH GRAVEL (SP), moi SILTY SAND WITH GRAVEL (SM), moist, light brown	st, brown.				5
ASTER_PROJECT_FILE	42	- 10 - -			HMW9D-10 No odor	0.2	NS		becomes brown					- 10
OSPATIAL_LIBRARY\M/	40	- - 15	120in.	120	HMW9D-15 No odor	0.2	NS							- - - 15
EVPDX_DATA/GEOMATICS/GE		- 20 - -			HMW9D-20 No odor	0.2	NS	$\sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i$	SILTY SAND WITH GRAVEL (SM), (dense), moist to		gray. 			- 20
ALEYALDRICH.COM/SHARE	30	- - 25 — -	120in.	120	HMW9D-25 No odor	0.3	NS		becomes gray					_ 25
Y.GLB - 21/9/21 10:58 - \\H/	25 -	- 30 — -												- 30
HARE\SEA_DATA\GINT\HC_LIBRAR	- - - - - -	- 35 - -	120in.	120										- 35
E - \\HALEYALDRICH.COM\SF	1. F 2. F 3. U 4. (Mater USCS Grour	to Fi ial st des ndwa	gure ratu igna ter le	m lines are i itions are ba evel, if indica	interpre ised on ated, is	etive visu at tir	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wit approximate.	laboratory testing (ASTM D 2487).	- approximate	e cor	ntacts	
IC PUSH PROB	Project: Seattle DOT Mercer Parcels Site Sonic Core Log Figure										1 of			

Date Started: 02/27/2020	Date Completed: 02/28/2020							
Logged by: <u>A. Nakahara</u>	Checked by: M. Goodman							
Location: Lat: 47.624956 Long: -122.341687 (WGS 84)								
Ground Surface Elevation: 55.32 feet (NAVD 88)								
Commonts: Woll Tog ID: BI 7102								

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Total Depth:
 90 feet

Casing Diameter: <u>OD: 2 inches</u> Depth to Groundwater: <u>43.55 feet</u>

Sample Data Togo of the second												
et)		T									tion	
Elevation (feet)	Depth (feet)	Type	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description			Water Level Well Construction	 Depth (feet)
10 1 1 15	40 - - 45		1107					SILTY SAND WITH GRAVEL (SM), (dense), moist to	o wet, gray.		ATD Y	
	- - - 50 -							POORLY GRADED SAND WITH SILT (SP-SM), (de SILTY SAND WITH GRAVEL (SM), (dense), wet, gra				
- - - - - -	- 55 — - -		120									5
-2	- 60 - - -							SILT WITH SAND (ML), trace gravel, (dense), moist	to wet, gray.			
-15 - 1 - 10	65 — - - 70 —		60					SANDY SILT WITH GRAVEL (ML), (very dense), we	t, gray.			
- - - - - - - - - - - - - - - - - - -	- - 75 - - - - -		-1107 120 es:					SILTY SAND WITH GRAVEL (SM), (very dense), we	t, gray.			
 General Notes: Refer to Figure A1-1 for explanation of descriptions and symbols. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time. Location and ground surface elevations are approximate. 										.		
-+	H/			of Haley & Aldria	Lo	oject catic oject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log HMW-9D	Figure Sheet	A1-6 2 of	

Date Started: 02/27/2020 Date Completed: 02/28/2020	Contractor/Crew: Cascade Drilling, L.P.							
Logged by: A. Nakahara Checked by: M. Goodman	Rig Model/Type: TSi 150CC / Track-mounted drill rig							
Location: Lat: 47.624956 Long: -122.341687 (WGS 84)	Hole Diameter: 10 inches Casing Diameter: OD: 2 inches							
Ground Surface Elevation: _55.32 feet (NAVD 88)	Total Depth: <u>90 feet</u>	Depth to Groundwater: 43.55 feet						
Comments: Well Tag ID: BLZ192								



Date Started: 02/28/2020	Date Completed: 02/28/2020								
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>								
Location: Lat: 47.624958 Long: -122.341703 (WGS 84)									
Ground Surface Elevation: 55.26 feet (NAVD 88)									

Contractor/Crew: Cascade Drilling, L.P. Rig Model/Type: TSi 150CC / Track-mounted drill rig

Hole Diameter: 10 inches Casing Diameter: OD: 2 inches Total Depth: 50 feet

___ Depth to Groundwater: 34.16 feet

eitzer	Sample Data										_	
LOCKLOGS.GPJ - mschwe	55 Elevation (feet)	O Depth (feet)	Type Recovery	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description	Water Level	Well Construction	Depth (feet)
DCK/GINT/ALLMEGAB	- - -	-							Air knife to 5 feet			
IERCER_MEGABL(20	5 -	en in the second s	60	HMW9IA-5 No odor	0.1	NS		POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), moist, brown.			- 5
RYIMASTER_PROJECT_FILESIM	45	- - 10 - -			HMW9IA-10 No odor	<0.1	NS		SILTY SAND WITH GRAVEL (SM), moist, light brown.			- 10
EOSPATIAL_LIBRAF	40	- 15 — -	120in	120	HMW9IA-15 Slight odor	0.2	NS		POORLY GRADED GRAVEL WITH SAND (GP), moist, brown.			- - 15 -
NATA\GEOMATICS\G	35	- - 20 —			HMW9IA-20 No odor	0.2	NS		SILTY VITH GRAVEL (ML), dry, gray/white. becomes moist to wet, brown SILTY SAND WITH GRAVEL (SM), moist, brown.			- 20
.COM\SHARE\PDX_C	-	- -			HMW9IA-25	-0.4						-
8 - \\HALEYALDRICH	<u>30</u> - -	25 — - -		120	HMW9IA-25 No odor	<0.1	NS		becomes moist to wet, gray			- 25
Y.GLB - 21/9/21 10:5	- 22	- 30 — -										
HARE\SEA_DATA\GINT\HC_LIBRAR\	- - - - -	- 35 — - -		120						ATD ⊻		- 35
CH.COM/SF		neral										<u> </u>
BE - \\HALEYALDRIC	2. I 3. I 4. (Matei USCS Groui	rial st 6 des ndwa	ratu igna ter l	m lines are i itions are ba evel, if indica	nterpre sed on ated, is	etive a visu at tir	and a al-ma me of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate nual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). drilling/excavation (ATD) or for date specified. Level may vary with time. approximate.	cor	itacts	
IC PUSH PRO	Location: Seattle, Washington							\1-6 1 of 2				

Date Started: 02/28/2020	Date Completed: 02/28/2020	Contrac					
Logged by: A. Nakahara	Checked by: M. Goodman	Rig Mod					
Location: Lat: 47.624958 Long: -122.341703 (WGS 84)							
Ground Surface Elevation: _55.26 feet (NAVD 88)							
Comments: Well Tag ID: BLZ190							

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

Depth: 50 feet

Ler		Sample Data				ta								
OCKLOGS.GPJ - mschwei	5 Elevation (feet)	Depth (feet)	Type	Length (inches)		PID (ppm)	Sheen	Graphic Log	Material Description			Water Level	Well Construction	Depth (feet)
BLOCK/GINT/ALLMEGABL	15	-							SILTY SAND WITH GRAVEL (SM), moist, brown. (c becomes (dense), moist, gray	ontinued)				-
PROJECT_FILESIMERCER_MEGABLOCK\GINTALLMEGABLOCKLOGS.GPJ - mschweize	10	45 - - - -		120					SILT WITH SAND (ML), (dense), moist, gray.			- - -		- 45 - - -
	2	50 — - -	-	_					Bottom of Borehole a	t 50.0 feet.		·		- 50 - -
0:58 - \\\HALEYALDRICH.COM\SHARE\PDX_DATA\GEOMATICS\GEOSPAT\AL_LIBRARY\MASTER	0	55 — - -	-											55
ARE\PDX_DATA\GEOMAT	γ	- 60 - - -	-											- 60 - -
HALEYALDRICH.COM/SH	-10	- 65 — - -	-											- 65 - -
-	-15	- 70 — -	-											- 70 -
- \\HALEYALDRICH.COM\SHARE\SEA_DATA\GINTHC_LIBRARY.GLB - 21/9/21	-20	- - 75 - -	-											- - -75 -
H.COM/SHARE/SEA	Ge	- - eneral	 Not	es:										-
ш 🗕	1. 2. 3. 4. (Refer Mater USCS Grour	⁻ to F rial s S de ndwa	igure tratu signa ater le	m lines are itions are ba evel, if indic	nterpre ised on ated, is	etive a visu at tir	and a al-ma ne of	iptions and symbols. tual changes may be gradual. Solid lines indicate distinct contactual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	y laboratory testing (ASTM D 2487).	approximate	con	tacts.	
HC PUSH PROB	+	.			of Haley & Aldric	Lo	oject catic oject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04	Sonic Core Log HMW-9IA	Figure Sheet		2 of 2	

Date Started: 02/28/2020	Date Completed: 02/28/2020
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624942 Long: -122.3	41704 (WGS 84)
Ground Surface Elevation: _55.36 feet ((NAVD 88)

Contractor/Crew: Cascade Drilling, L.P. Rig Model/Type: TSi 150CC / Track-mounted drill rig

Hole Diameter: <u>10 inches</u>

Total Depth: 70 feet

Casing Diameter: <u>OD: 2 inches</u> Depth to Groundwater: <u>36.54 feet</u>

Sample Data												
Elevation (feet)	 Depth (feet) 	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description		Water Level	Well Construction	Depth (feet)
	-	-						Air knife to 5 feet				-
	- 5 - -		60	HMW9IB-5 No odor	<0.1	NS		POORLY GRADED SAND WITH SILT AND GRAVEL SILTY GRAVEL WITH SAND (GM), moist, light brown				- - 5 -
	- - 10 -			HMW9IB-13			\sim	SILTY SAND WITH GRAVEL (SM), moist, brown.				- 10
	- - 15 - -	84in.		Hight organic odor HMW9IB-15 Slight organic odor		SS	<u> </u>	SILTY GRAVEL (GM), dry, light gray/white.				- 15
	- - 20 -			HMW9IB-20 No odor	0.3	NS		SILTY SAND WITH GRAVEL (SM), moist to wet, brow	n			- - -20
LETALDRICH.COMISHARE/PL	- - 25 - - -	120in.	120	HMW9IB-25 No odor	0.2	NS		becomes gray				- - 25 -
7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- - 30 -											- - -30 -
ESEA_DATAGINING_LIBRAN	- - 35 - -	120in.	120					SILT WITH GRAVEL (ML), moist to wet, gray.		 ATD ⊻		- 35 -
General Notes: 1. Refer to Figure A1-1 for explanation of descriptions and symbols. 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time. 5. Location and ground surface elevations are approximate.							_					
	Project: Seattle DOT Mercer Parcels Site Sonic Core Log Figure A1-70 Advision of Holey & Addrich Project No.: 19409-04 HMW-9IB Sheet 1 of 2											

Date Started: 02/28/2020	Date Completed: 02/28/2020
Logged by: A. Nakahara	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624942 Long: -122.3	41704 (WGS 84)
Ground Surface Elevation: 55.36 feet (NAVD 88)
Comments: Well Tag ID: BLZ191	

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

Total Depth: <u>70 feet</u>

____ Depth to Groundwater: <u>36.54 feet</u>

zer		Sample Data										
2	Elevation (reet)	Depth (feet)	Type Recoverv	iches)	Number Tests	PID (ppm)	Sheen	Graphic Log	Material Description		Water Level Well Construction	
	0	40	3						SANDY SILT WITH GRAVEL (ML), (dense), wet, gray.			40-
		_	3									
		-	3						SILTY SAND (SM), trace gravel, (dense), wet, gray.			
GABLO	2	45 —	Soin.	120								-45
	-	-	3									
		_	3									
		-	3						SILT WITH SAND (ML), (dense), wet, gray.			
	ი	50 —	3						SILTY SAND WITH GRAVEL (SM), (dense), moist, gray.			-50
		-	3									
		-	3									
	5	55 —	20in	120								- 55
	-	-	3									:
ראפבר		_	3									
		-	3									_
	ņ	60 -	ß.									60
		-	36in	36								
\SHAKE		-	5						SANDY SILT WITH GRAVEL (ML), (dense), moist, gray.			-
	D	- 65 —							SILTY SAND WITH GRAVEL (SM), (dense), moist, gray.			- 65
	-	-	4in.	84					SILLY SAND WITH GRAVEL (Sivi), (dense), moist, gray.			
MALEY		-							SANDY SILT WITH GRAVEL (ML), moist, gray.		Ë	-
- 86:01		-										-
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>0</u>	70 —							Bottom of Borehole at 70.0 feet.			70
- Е 19		_	-									+
		-										-
	Ç,	- 75 —]									- 75
	7	-	-									╞
E\SEA		-	1									Ę
MISHAR I I		-	-									╞
÷.		neral Refer			A1-1 for ex	xplanati	on of	des	criptions and symbols.			
ŗ	2. 1	Mater	rial st	ratui	m lines are	interpre	etive a	and a	actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approx anual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).	timate	contac	ts.
ΗA	4. (Grour	ndwa	ter le	evel, if indic	ated, is	at tir	ne of	drilling/excavation (ATD) or for date specified. Level may vary with time.			
	-1-			C -			oject		Seattle DOT Mercer Parcels Site Sonic Core Log Figur	re	A1	-70
CPUSH	Advision of Holey & Aldrich Project. Location: Project.							Seattle, Washington : 19409-04 HMW-9IB Shee		2 0		

Date Started: 0	03/02/2020	Date Completed:	03/02/2020
Logged by: A.	Nakahara	Checked by: M.	Goodman
Location: Lat:	47.624949 Long: -122.	341724 (WGS 84)	

Ground Surface Elevation: <u>55.39 feet (NAVD 88)</u> Comments: <u>Well Tag ID: BLZ189</u> Contractor/Crew: Cascade Drilling, L.P. Rig Model/Type: TSi 150CC / Track-mounted drill rig

Hole Diameter: <u>10 inches</u>

Total Depth: 40 feet

Casing Diameter: <u>OD: 2 inches</u> Depth to Groundwater: <u>32.25 feet</u>

elize					Sample Da	ta							~	
UCKLUGS.GPJ - mschwe	Elevation (feet)	⊃ Depth (feet)	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description	1		Water Level	Well Construction	Depth (feet)
LLMEGABL	22	-							Air knife to 5 feet					
	-	-												
MEGABLU	20	5	ß		HMW9S-5 No odor	<0.1	NS		SILTY SAND WITH GRAVEL (SM), moist to wet, dar					- 5
	-	-	60in.	60					POORLY GRADED SAND WITH SILT (SP-SM), moi: SILTY SAND WITH GRAVEL (SM), light brown.	st, light brown. 				
ECI_FILES	-	- 10 —	Ş		<u>HMW9S-10</u> Slight organic	0.1	SS							- 10
	45	-	Ş		odor				POORLY GRADED GRAVEL WITH SAND (GP), ligh	t brown to brown.				
RARYIMAS	-	-	Š											
	40	15 — -	72in.	120	HMW9S-15 No odor	<0.1	NS	0° 0°						- 15
ICS/GEOS	-	_	Ş					٩Ą	SILTY SAND WITH GRAVEL (SM), moist, brown-gra	y.				
I A/GEOMA	35	- 20 —	Ś		HMW9S-20 No odor	<0.1	NS		becomes brown					- 20
KE/PUX_UA	-	_	Ş											
COMSHAF	-	- - 25 —	20in.	100	HMW9S-25 No odor	<0.1	NC							-25
EYALURICE	-30	-	12(120	No odor	~ 0.1	NS		becomes moist to wet, gray					
U:58 - WHALI	-	-	Š						sand seam					-
L LZ/R/LZ - 9	25	30 — -	Ś						POORLY GRADED SAND WITH SILT (SP-SM), moi:					- 30
BKARY.GLE	_	-	Ş						SILTY SAND WITH GRAVEL (SM), moist to wet, gra			ATD ⊻		
	20	- 35 —	120in.	120										
SEA_UATA	-	_	Ş											-
	-	_	Ş											-
ы Г		neral							Bottom of Borehole at	40.0 feet.				
VALURIC	 Refer to Figure A1-1 for explanation of descriptions and symbols. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contact USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). 								ntacts					
 S. OSCS designations are based on visual-manual identification (ASTM D 2466), unless otherwise supported by laboratory testing (ASTM D 2467). 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time. 5. Location and ground surface elevations are approximate. 														
D22				~		Pro	oject	:	Seattle DOT Mercer Parcels Site	Sonic Core Log	Figure	٨	1-7	71
HSU		114		_	of Haley & Aldric	Lo	catio	on:	Seattle, Washington	-	-		1 of	
ģ			A ON	NUT	y nuity a Alana	Pro	oject	No.	9409-04 HMW-9S Sheet					

Date Started: 03/05/2020	Date Completed: 03/05/2020
Logged by: <u>A. Nakahara</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624845 Long: -122.3	40865 (WGS 84)
Ground Surface Elevation: 48.16 feet (NAVD 88)
Comments: Well Tag ID: BLZ194	

 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

Total Depth: 90 feet

____ Depth to Groundwater: 39.97 feet

itzer	Sample Data													
LOCKLOGS.GPJ - mschwe	^{II} Elevation (feet)	⊖ Depth (feet) ∣	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Descriptior	1		Water Level	Well Construction	Depth (feet)
CK/GINT/ALLMEGAB	45	-							Air knife to 5 feet					
	40 -	5 - -	60in.	60	HMW10D-5 No odor	1.5	NS		SILTY SAND WITH GRAVEL (SM), dry, brown.					- 5
TER_PROJECT_FILES	-	- 10 - -			HMW10D-10 No odor	1.9	NS							_ 10
PATIAL_LIBRARY/MAS	35	- - 15 -	120in.	120	HMW10D-15 No odor	4.3	NS							- -
ATA/GEOMATICS/GEOS	- 30	- - 20 -			HMW10D-20 No odor	3.1	NS		becomes gray					- -
CH.COM/SHARE/PDX_D	25	- - 25 —	20in.	120	HMW10D-25 No odor	6.1	NS							_ _ 25
YALDRI	-	-	3						POORLY GRADED SAND (SP), moist to wet, brown,	iron oxide staining.				-
58 - \\HALE	20	-	ß						SILTY SAND WITH GRAVEL (SM), moist, gray.					F
Y.GLB - 21/9/21 10:5	- - -	- 30 — -												- - 30 -
A/GINT/HC_LIBRAR	15	- - 35	120in.	120					occasional sand seams					_ 35
DM\SHARE\SEA_DAT	- - - -	-												
General Notes: General Notes: 1. Refer to Figure A1-1 for explanation of descriptions and symbols. 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts an 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by labor 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with tim 5. Location and ground surface elevations are approximate.							laboratory testing (ASTM D 2487).	approximate	e con	tacts.				
HC PUSH PKOB	THARTCROWSER Location:								Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04	Sonic Core Log HMW-10D	Figure Sheet		. 1-7 1 of ∶	

Date Started: 03/05/2020	Date Completed: 03/05/2020				
Logged by: <u>A. Nakahara</u>	_ Checked by: <u>M. Goodman</u>				
Location: Lat: 47.624845 Long: -122.3	40865 (WGS 84)				
Ground Surface Elevation: 48.16 feet	(NAVD 88)				
Comments: Well Tag ID: BLZ194	· ·				

Contractor/Crew: <u>Cascade Drilling, L.P.</u> Rig Model/Type: <u>TSi 150CC / Track-mounted drill rig</u>

Hole Diameter: <u>10 inches</u>
Total Depth: <u>90 feet</u>

Casing Diameter: <u>OD: 2 inches</u> Depth to Groundwater: <u>39.97 feet</u>

itzer					Sample Da	ta								
GABLOCKLOGS.GPJ - mschwei	Elevation (feet)	Depth (feet)	Type Recoverv	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Descriptior			Water Level	Well Construction	Depth (feet)
GABL(-	40 -	ß						SILTY SAND WITH GRAVEL (SM), moist, gray. (cor	tinued)				<u> </u>
	- - -	- - 45	20in	120										- 45
FILES\MERCER_MEGABLO	- - - 0	-		120					SANDY SILT WITH GRAVEL (ML), wet, dark gray.					
JECT	-	50 —	Ś					Ш	POORLY GRADED SAND (SP), wet, gray.				80	- 50
LIBRARY/MASTER_PRO		-							SILTY SAND WITH GRAVEL (SM), wet, gray.					
BRAR	-	-	ß,										86	-
EOSPATIAL	- - -	55 — - -	120ir	120					POORLY GRADED SAND (SP), wet, gray-brown.					- 55 - -
MATI	`, -	_	Ś											-
ALDRICH.COM\SHARE\PDX_DATA\GEOMATICS\G	-15	60 - - -							SILTY SAND WITH GRAVEL (SM), wet, gray.					- 60
SOM	-	-	S.										86	F
ALEY		65 — - - -	1201	120					SANDY SILT WITH GRAVEL (ML), wet, gray.					- 65 - -
/9/21	-	70 —	Ś					bΨ	SILTY GRAVEL WITH SAND (GM), wet, gray.					-70
HC_LIBRARY.GLB - 21	-25	-												
OM\SHARE\SEA_DATA\GINT\HC_LIBRARY.GLB - 21/9/2		75 — - -	84in	120										- 75
M\SHA	-	-	Ś					þφ						F
BE - \\HALEYALDRICH.CON	1. 2. 3. 4.	Mater USCS Grour	to F ial st des ndwa	gure ratui igna ter le	m lines are i itions are ba evel, if indica	interpre ised on ated, is	etive a visua at tir	and a al-ma ne of	criptions and symbols. Inctual changes may be gradual. Solid lines indicate distinct contact Inual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary with approximate.	/ laboratory testing (ASTM D 2487).	- approximate	cor	<u>пtacts</u>	
I PRO				-			oject		Seattle DOT Mercer Parcels Site	Sonic Core Log	Figure	Δ	1-7	12
HC PUSH	Adivision of Haley & Adivish Project: Location Project N					L .			Seattle, Washington : 19409-04	HMW-10D	Sheet		2 of 3	


 Contractor/Crew:
 Cascade Drilling, L.P.

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter:
 OD: 2 inches

Depth to Groundwater: 39.97 feet

leitzer		-		Sample Da	ata	1						_
	8 Depth (feet)	Type	Recovery Length (inches)	<u>Number</u> Tests	PID (ppm)		Graphic Log	Material Descriptio	pn		Water Level	H well construction
	80 -	-5						SILTY GRAVEL WITH SAND (GM), wet, gray. (con	tinued)			
		-3					20 00					
IEGABL(85 -	-{	.i 120 120				60 60					- 85
								FAT CLAY WITH GRAVEL (CH), moist to wet, brow				
-40		-8						FAT CLAT WITH GRAVEL (CH), Moist to wel, blow	vii.			
E -	90 -	-5						SILTY GRAVEL WITH SAND (GM), wet, gray.			· · ·	<u>-1. </u>
PROJE	90							Bottom of Borehole	at 90.0 feet.			_ 90
SIEK -		-										-
41-45		-										-
	95 -	_										- 95
		_										-
GEOSF		-										-
-50		-										-
	100 -											-100
DATA		_										_
		-										-
-55		-										-
H.COM	105 -											-105
		_										-
ALEYA		-										-
-99-		-										-
	110 -											-110
81.Z - 2		-										-
KY.GL		-										-
		1										-
	115 -											-115
I A/GI		_										-
- D		-										-
14KE/S		-										F
		1										
L IIII		er to I	Figure					riptions and symbols.				
EYALD	. USC	S de	signa	ations are ba	ased on	visua	al-ma	ctual changes may be gradual. Solid lines indicate distinct contanual identification (ASTM D 2488), unless otherwise supported	by laboratory testing (ASTM D 2487).	approximate	conta	cts.
- WHAI	. Grou	undw ation	ater l and o	evel, if indic ground surfa	ated, is ace elev	at tir	ne of s are	drilling/excavation (ATD) or for date specified. Level may vary v approximate.	vith time.			
					Dre	oject		Seattle DOT Mercer Parcels Site	Sonio Corre Lorr	Figure		70
HSUC	ŦĽ			of Haley & Aldri	Lo	catio	n:	Seattle, Washington	Sonic Core Log HMW-10D	Figure Sheet		-72 of 3
э́Р		A	IVSION	oy nalay di Aldî li	" Pro	oject	No.	19409-04		Sneet	3	513

Date Started: 03/03/2020	Date Completed: 03/03/2020
Logged by: <u>B. Dozier</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624843 Long: -122.3	40880 (WGS 84)
Ground Surface Elevation: _48.21 feet	(NAVD 88)

C

Comments: Well Tag ID: BLZ193

Contractor/Crew: Cascade Drilling, L.P. / Rico Rig Model/Type: GS Mini Sonic - DB320 / Track-mounted drill rig Hole Diameter: 10 inches Casing Diameter: OD: 2 inches Total Depth: 40 feet Depth to Groundwater: 26.37 feet

Sample Data Well Construction Elevation (feet) MEGABLOCK\GINT\ALLMEGABLOCKLOGS.GPJ - msct Length (inches) (feet) Material (feet) Graphic Log Water Level Description Depth (Depth (Recovery Sheen Number PID <u>Type</u> Tests (ppm) 0 Air knife to 5 feet 45 HMW10S-5 No odor 5 <0.1 NS 5 SILTY SAND WITH GRAVEL (SM), moist, brown. FILES\MERCER 60in. -6 SANDY SILT (ML), (hard), dry, gray. HMW10S-10 No odor SILTY SAND WITH GRAVEL (SM), moist, brown. PROJECT NS 10 <0.1 LIBRARY/MASTER 60in. 35 HMW10S-15 No odor NS 15 < 0.1 15 DATA/GEOMATICS/GEOSPATIAL 148i 190 grades to gray-brown -8 HMW10S-20 20 <0.1 NS 20 No odo becomes gray LIBRARY.GLB - 21/9/21 10:59 - \\HALEYALDRICH.COM\SHARE\PDX_ . [월 60 25 HMW10S-25 No odor 25 0.3 NS 25 SILTY SAND (SM), trace gravel, wet, gray-brown. λTD ⊈ 54in. 60 grades to gray 5 30 30 SILTY SAND WITH GRAVEL (SM), moist to wet, gray. 48in 60 -15 DATA/GINT/HC 35 35 NHALEYALDRICH.COM/SHARE/SEA 년 60 9. General Notes: Bottom of Borehole at 40.0 feet. 1. Refer to Figure A1-1 for explanation of descriptions and symbols. 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts. 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487). 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time. 5. Location and ground surface elevations are approximate. Project: Seattle DOT Mercer Parcels Site A1-73 Sonic Core Log Figure **HARTCROWSER** Location: Seattle, Washington **HMW-10S** 1 of 1 A division of Haley & Aldrich Sheet Project No.: 19409-04

Date Started: 02/24/2020	Date Completed: 02/24/2020
Logged by: <u>B. Dozier</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624855 Long: -122.3	40032 (WGS 84)
Ground Surface Elevation: 39.70 feet	(NAVD 88)
Comments: Well Tag ID: BLZ196	

 Contractor/Crew:
 Cascade Drilling, L.P. / Dan

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches

 Casing Diameter:
 OD: 2 inches

Total Depth: 70 feet

Depth to Groundwater: <u>33.5 feet</u>

\square				Sample Da	nta						
Elevation (feet)	Depth (feet)	Type	Recovery Length (inches)		PID (ppm)	Sheen	Graphic Log	Material Description	n		Water Level Well Construction Depth (feet)
-	0 — - -							Asphalt SILTY SAND WITH GRAVEL (SM), moist, gray-brov Air knife to 5 feet	n	/	
1 1 1 35	- 5 — -		49In. 0	HMW11IB-5 No odor	0.2	SS		SILTY SAND (SM), moist, gray-brown.			
30	- - 10 -		7	HMW111B-10 No odor	0.4	NS		trace scattered fine gravel			
25	- 15 - -		12 12	HMW11IB-15 C Organic-like odor	1.1	NS		scattered cobbles			
	- - 20 - - -			HMW11IB-20 Organic-like odor	1.3	NS		black with trace wood becomes very moist, gray			
15 1 20 1 25 1 25 1 6 40 1 Elevation (feet)	- - 25 - - -		.uignt	HMW11IB-25 No odor, 0 white stringy organic sheen				POORLY GRADED SAND (SP), moist, gray.			24
- 10-	- 30 - - -							becomes very moist, brown			
-0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -	- 35 — - -		12	c							
1. 2. 3. 4.	Mater USCS Groui	r to F rial s S de ndwa	⁻igu strat sign ater	um lines are ations are ba level, if indic	interpre ased on ated, is	etive a visu at tir	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct conta nual identification (ASTM D 2488), unless otherwise supported b drilling/excavation (ATD) or for date specified. Level may vary wi approximate.	y laboratory testing (ASTM D 2487).	- approximate	e contacts.
	_	.'.:	T O	COVISE n of Haley & Aldria	Pro Lo	oject catic	: on:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log HMW-111B	Figure Sheet	A1-74 1 of 2

Date Started: 02/24/2020	Date Completed: <u>02/24/2020</u>
Logged by: <u>B. Dozier</u>	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624855 Long: -122.3	40032 (WGS 84)
Ground Surface Elevation: _39.70 feet	(NAVD 88)
Comments: Well Tag ID: BLZ196	

 Contractor/Crew:
 Cascade Drilling, L.P. / Dan

 Rig Model/Type:
 TSi 150CC / Track-mounted drill rig

 Hole Diameter:
 10 inches
 Casing Diameter

Total Depth: <u>70 feet</u>

Casing Diameter: <u>OD: 2 inches</u> Depth to Groundwater: <u>33.5 feet</u>

Izer					Sample Da	ta								
	Elevation (feet)	Depth (feet)	Type	Length (inches)		PID (ppm)	Sheen	Graphic Log	Material Description			Water Level	Well Construction	Depth (feet)
OCK/GINT/ALLMEGABI		40 — - -							POORLY GRADED SAND (SP), moist, gray. (continu	ed)				40-
ILES\MERCER_MEGA	ρ ·	45 — - -		120					grades to gray					-45 - -
YMASTER_PROJECT_F	-10	50 — - - -							SILTY GRAVEL WITH SAND (GM), moist, brown-red					- 50 - -
CS/GEOSPATIAL_LIBRAR	GL-	- 55 — - -		120					SILTY GRAVEL WITH SAND (GM), moist, brown-gra	y. [TILL-LIKE]				-
	02-	- 60 												- 60 -
	QZ-	- 65 — -	1.001	120										- 65 -
GLB - 21/9/21 10:59 - MH	-30	- - 70 -							Bottom of Borehole at	70.0 feet.				- - -70
	c:-	- - 75 -	-											- - -75
H.COM/SHAKE/SEA	Ger	- neral	Not	es:										-
HALEYA	2. N 3. L 4. C	/later JSCS Grour	rial s 5 de: ndwa	tratu signa ater l	m lines are i ations are ba evel, if indica	interpre ised on ated, is	etive a visua at tir	and a al-ma ne of	riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contac nual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary wit approximate.	laboratory testing (ASTM D 2487).	approximate	e con	tacts	
HC PUSH PKC	1	H/			of Haley & Aldric	Lo	oject catio oject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington : 19409-04	Sonic Core Log HMW-111B	Figure Sheet		1-7 2 of 2	

Date Started: 02/24/2020	Date Completed: 02/24/2020
Logged by: B. Dozier	Checked by: <u>M. Goodman</u>
Location: Lat: 47.624882 Long: -122.3	40043 (WGS 84)
Ground Surface Elevation: _41.47 feet	(NAVD 88)

Comments: Well Tag ID: BLZ195

Contractor/Crew: Cascade Drilling, L.P. Rig Model/Type: TSi 150CC / Track-mounted drill rig

Hole Diameter: 10 inches Casing Diameter: OD: 2 inches Total Depth: 40 feet

Depth to Groundwater: <u>35.5 feet</u>

	_												_
~		-		Sample Dat	ta							Ę	
Elevation (feet) Depth (feet)	Tvne	Recovery	Length (inches)	<u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description			Water Level	Well Construction	Depth (feet)
- 0-	-							SILTY SAND WITH GRAVEL (SM). Air knife to 5 feet visqueen plastic					(- -
5- ç	-<	48in.	60	HMW11S-5 No odor	<0.1	NS		SILTY SAND (SM), scattered gravel, moist, light brow	m, fine to medium sand.				- 5 - -
- 10 	-< -< -<	> > > >	<u>H</u> O	<u>HMW11S-10</u> Organic odor	<0.1	NS		ORGANIC SOIL (OH), black, scattered root & wood fr SILTY SAND (SM), gray, fine sand.	agments.				- - 10 -
15 - ស្ត	- - - - - - - - - - - - - - - - - - -	120in.	120 ¹	H <u>MW11S-15</u> No odor	<0.1	NS							- 18 -
20 -			ŀ	HMW11S-20 No odor	<0.1	NS		POORLY GRADED SAND (SP), moist to wet, gray.	fine to medium sand.				- 2(-
25 - ۲۰ 30 -		120in.	120 <u>I</u>	HMW11S-25 No odor, white stringy sheen	0.3			POORLY GRADED SAND (SP), moist, gray, fine to m					- - - - - - 31
35 - ი		108in.	120					becomes brown			ATD		- 3: - -
2. Mate 3. USC 4. Grou	er to eria CS o und	o Fig I str desig wate	gure atur gnat er le	n lines are i tions are ba evel, if indica	nterpre sed on ated, is	etive a visua at tin	and a al-ma ne of	Bottom of Borehole at riptions and symbols. ctual changes may be gradual. Solid lines indicate distinct contact rual identification (ASTM D 2488), unless otherwise supported by drilling/excavation (ATD) or for date specified. Level may vary with approximate.	s and dashed lines indicate gradual or laboratory testing (ASTM D 2487).	approximate	e cont	acts.	
EH				OMSER of Haley & Aldrich	Lo	oject catio oject	n:	Seattle DOT Mercer Parcels Site Seattle, Washington 19409-04	Sonic Core Log HMW-11S	Figure Sheet		1-7 of 1	







	Ground S	oy: <u>C</u> Lat: Surfac	. Kr 47 e E	osł .62 lev	kie 505 atic		-122.34) feet (Cheo 10400	Hammer Weight (pou Measured Hammer E	Rotary/Hollow St E-85 / Truck-mou hammer nds): <u>140</u> fficiency (%): <u>No</u>	em A nted H ot Ava	uger drill riç amme ailable	g er Drop	Height (): <u>30</u>		
erzer									Hole Diameter: <u>5.87</u> Total Depth: <u>101 fee</u>			-		er: ndwater		et		
פ	5 Elevation (feet)	Blow Count	Type		Length (inches)	le Data <u>Number</u> Tests	Sheen	Graphic Log	Material Description		Water Level	Well Construction			SPT N V 20 3	/alue	10	Depth (feet)
	-0 -2 	8 13 10	X	6in.	18	<u>S-1</u> No odor	NS		Bare ground at surface. SILTY GRAVEL WITH SAND (GM), medium dens gray-brown, fine to medium sand. [FILL] Asphalt debris near 5 feet.	e, dry,			· · · · · · · · · · · · · · · · · · ·					
	۔ بچ 10 –	565	X	2in.	18	<u>S-2</u> No odor	NS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Woody fibers near 10 feet.				· · · · · · · · · · · · · · · · · · ·					
	ල 15 – ල -	9 5 4	X	2in.	18	<u>S-3</u> Creosote odor	NS		SILTY SAND (SM), loose, moist, gray, fine to coar [FILL] Wood debris in sampler near 15 feet (possibly old				· · · · · · · · · · · · · · · · · · ·	9				
	ی 20 – 20 –	3 5 7	X	18in.	18	<u>S-4</u> Slight creosote of	hor NS		POORLY GRADED SAND WITH SILT (SP-SM), n moist, brown, fine sand. [FILL]	nedium dense,			· · · · · · · · · · · · · · · · · · ·	12				20
	25 - 27 -	13 9 11	X	18in.	18	S-5A S-5B Slight creosote of	NS		Wood debris in sampler near 25 feet (possibly old				· · · · · · · · · · · · · · · · · · ·		20			25
	بن 30 – بن 30 –	12 16 14	X	18in.	18	<u>S-6</u> Slight creosote oo	NS		SILTY GRAVEL WITH SAND (GM), medium dens wet, brown, fine to coarse sand. [POSSIBLE FILL] Wood debris in sampler near 30 feet (possibly old		ATE		· · · · · · · · · · · · · · · · · · ·			30		
		5 12 13	X	18in.	18	<u>S-7</u> Slight creosote or	lor		SILTY SAND WITH GRAVEL (SM), medium dense [APPARENT NATIVE]				· · · · · · · · · · · · · · · · · · ·		25			
	2. Mate 3. USC 4. Grou	to Fi rial str desi ndwat	gur ratu gna er l	ım l atio leve	line ns a el, if	s are inter are based f indicated	pretive on vis l, is at i	e and ual-m time o	POORLY GRADED SAND WITH SILT (SP-SM), tr medium dense to dense, wet, gray, fine to medium scriptions and symbols. actual changes may be gradual. Solid lines indicate distinct co anual identification (ASTM D 2488), unless otherwise supporte of drilling/excavation (ATD) or for date specified. Level may var e approximate.	ntacts and dashed					approx	imate o	ontacts	
		N (T	0	i C		SER Malata	Proje Locat	ct: ion:	Seattle DOT Mercer Parcels Site Seattle, Washington b.: 19409-04			ng Log V-13	-		Figu Shee		A1-7 1 of	

Lo Lo Gr	ound S	oy: <u>C</u> Lat: Surfac	. Kr 47 e E	osk .62 leva	ie 505 atio		0 feet (Che 40400	Sked by: J. Sved Drilling N (WGS 84) Rig Mod 0 88) Hammel Hammel Measure Hole Dia	Contractor/Crew: Holt S Method: <u>Mud Rotary/Ho</u> el/Type: <u>CME-85 / Truc</u> Type: <u>Auto-hammer</u> Weight (pounds): <u>140</u> d Hammer Efficiency (% meter: <u>5.875 inches</u> pth: <u>101 feet</u>	illow Stem A ck-mounted المالية (): H (): C	drill ri drill ri lamm ailable	ig er Drop	er:				
Elevation (feet)	Depth (feet)	Blow Count	Type	/ery	ches)	e Data <u>Numbe</u> Tests	Sheen	Graphic Log	Material Description		Water Level	Well Construction			SPT N V 20 3		10	Depth (feet)
	40	7 10 20	X	18in.	-	<u>S-8</u> No odor			POORLY GRADED SAND WITH SILT medium dense to dense, wet, gray, fine (continued)	(SP-SM), trace grave to medium sand.	el,					30 2	10 	+40· ·
	- - 45 - - -	50	X	5in.	5	S-9			SILTY GRAVEL WITH SAND (GM), ver gray-brown, medium to coarse sand.				· · · · · · · · · · · · · · · · · · ·					45 60/5"
	- 50 - -	50	X	2in.	3	S-10							· · · · · · · · · · · · · · · · · · ·					 50/3"
	- - 55 - -	50	×	4in.	4	S-11		0	SILTY SAND WITH GRAVEL (SM), ver gray-brown, fine to coarse sand.	y dense, moist to we			· · · · · · · · · · · · · · · · · · ·					 55 50/4"
T 1 1 1 1 1	- - 60 - -	50	×	3in.	3	S-12			SILTY GRAVEL WITH SAND (GM), ver to coarse sand.	y dense, wet, gray, t	 fine		······				-	 60 60/3"
	- - 65 - -	50	-	2in.	2	S-13							······					 65 60/2"
	- - 70 - -	50	×	2in.	2	S-14			SILTY SAND WITH GRAVEL (SM), ver gray-brown, fine to coarse sand.				······ ······					
EA_DATA/GINT/HC_LIBKA	- - 75 - -	50	-	2in.	2	S-15							· · · · · · · · · · · · · · · · · · ·					 75 60/2"
	-								POORLY GRADED SAND WITH SILT very dense, wet, gray, fine to medium s	(SP-SM), trace grave and.	el,		· · · · · · · · · · · · · · · · · · ·					
-IALEYALDRICH -ALEYALDRICH -ALEYALDRICH	. Mater USCS . Grou	to Fig rial str desi ndwat	gur ratu gna er l	im li atioi eve	ines ns a I, if	s are inte are based indicated	rpretiv d on vis d, is at	e and sual-n time (scriptions and symbols. actual changes may be gradual. Solid lines indica anual identification (ASTM D 2488), unless othen of drilling/excavation (ATD) or for date specified. L e approximate.	vise supported by labora	atory testing				approx	imate c	contacts	
	EH/		_		_		Proje Loca Proje	tion:	Seattle DOT Mercer Parcels Site Seattle, Washington b.: 19409-04		Borir HMV				Figu Shee		A1-7 2 of	

			ted:				0			Completed: 07/23/2020	Drilling Contractor/Crew: Holt Servi			Bennett					
			y: <u>C.</u>				2 Long: -1			cked by: <u>J. Sved</u>) (WGS 84)	Drilling Method: <u>Mud Rotary/Hollow</u> Rig Model/Type: CME-85 / Truck-m			a					
							n: <u>45.30</u>				Hammer Type: Auto-hammer	lounteu		9					
	Com	ment	ts: <u>N</u>	/ell	Тас	g ID	: BMP318				Hammer Weight (pounds): <u>140</u>			er Drop H	leight ((inches)	30		
											Measured Hammer Efficiency (%): Hole Diameter: 5.875 inches			<u>)</u> Diamete	Nr.				
itzer											Total Depth: <u>101 feet</u>		-	o Groun			et		
Ischwe					Sar	nple	e Data												
PJ - m	et)								1				stion						
OGS.G	Elevation (feet)	eet)	t			ches)			bo-		aterial	vel	Construction						eet)
OCKLO	vatio	Depth (feet)	Count		very	i) (ju		L.	hicL	Des	cription	sr Le	Con						Depth (feet)
GABLO			Blow	Type	Recovery	Leng	<u>Number</u> Tests	Sheen	Graphic Log			Water Level	Well	1		OPT N V		0	
LLME	-35	80 —	29 50		8in.		S-16	+	III		TH SILT (SP-SM), trace gravel,				2		<u> </u>		80
	-	_								very dense, wet, gray, fine to n	nedium sand. (continued)							5	60/2"
OCK/G	-	_																	_
GABL(_	_								SILTY SAND WITH GRAVEL gray-brown, fine to coarse san				· ·					Ļ
Z_ME	-40	85 —	50	×	. <u>.</u>	5	S-17			gray brown, nilo to coaroo can	.								85
RCEF	- Ÿ	_			2	"	•			• • •				•				5	T 60/5"
ES/ME	_	-												:					-
	_	-								POORLY GRADED SAND WI	TH SILT (SP-SM), very dense.		E F	· .					F
ONEC	_	-								wet, gray-brown, fine to mediu				· · · · · · · · · · · · · · · · · · ·			•••••		F
R PR	-45	90 —	37 50	X	11in	11	S-18												+-90 ▲
IASTE	-	_			Ì													5	0/5"
ARY/N	_	_																	[
LIBR	_	_												:					Ļ
	-20	95 —	50	X	<u> </u>	5	S-19						E	:]		ļ			95
OSPA	- יף _	_		Π	2i	5	0-15			Lower silt content near 95 feet				:				5	0/5"
SNGE	_	_																	ŀ
MATIC	_	-											L.H.	<u>.</u>					÷
\GEO	_	-												;: ·····					F
DATA	_ <u>ı</u> ç 1	00 —	36 50		11in.	1	S-20										i		▲ 100
VDX	-	_		-					1. 111	Bottom of Bore	ehole at 101.0 feet.			1				3	6/1"
HARE	_	_																	Ľ
SMNC	_	_																	L
RICH.(- - ල 1	05 —																	-105
YALD	-Ψ	-																	-
HALE	_	-																	-
/- 00	_	-																	-
21 11:	_	-																	F
- 21/9/	_ې 9-	10 —																	-110
GLB	-	-																	Γ
RARY	-	_																	Ľ
CLIB	-	_																	L
HUL	- - ף 1	15 —																	-115
ATA/G	-1-	_																	F
EA_D¢	_	-																	╞
RE/SI	_	_																	F
M\SHA	_	_																	-
H.CO			Notes																<u> </u>
DRICI										scriptions and symbols. actual changes may be gradual. Solid	lines indicate distinct contacts and das	hed line	s indi	cate ora	dual or	approxi	mate c	ontacts	i.
LEYAL	3. l	JSCS	desi	gna	tior	ıs a	ire based o	on vis	ual-m	nanual identification (ASTM D 2488), ur	less otherwise supported by laboratory					1 - 0.0			
- //HA										of drilling/excavation (ATD) or for date s re approximate.	specified. Level may vary with time.								
5 LOG	_			-			P	roje	ct.	Seattle DOT Mercer Parcels S	ite	р. ·			T	- .	_		
ORINC	H	17	177	_	_	_		ocat		Seattle, Washington		Borin				Figur		A1-7	
HC B(A divi	sion	of Ha	iley 8	Aldrich P	Proje	ct No	p.: 19409-04		HMV	v-1:	30		Shee	t	3 of	3

Log Loc Gro	ation: ound S	y: <u>C.</u> <u>Lat:</u> Surfac	Kros 47.6 e Ele	skie/ 248 vati	/A. Finiga 82 Long: on: _46.3	-122.3 35 feet	Cheo 40402	Completed: <u>07/20/2020</u> ked by: <u>J. Sved</u> (WGS 84) 0 88)	Drilling Contractor/Crew: Drilling Method: <u>Mud Rota</u> Rig Model/Type: <u>CME-85</u> Hammer Type: <u>Auto-ham</u>	ary/Hollow Ste 5 / Truck-mour 1mer	em Au nted o	uger drill rig	3				
Cor	nment	ts: <u>N</u>	/ell T	ag I	D: BMP3 [^]	17			Hammer Weight (pounds) Measured Hammer Efficie Hole Diameter: <u>6 inches</u> Total Depth: <u>81.5 feet</u>		 Ca	iilable asing	 Diamete	er:	nches):	30	
			S	amp	ole Data												
l Elevation (feet)	⊖ Depth (feet) ∣	Blow Count	Type	Length (inches)	Numbe Tests		Graphic Log	Des	aterial scription		Water Level	Well Construction	10		PT N Valu	ue 40	Depth (feet)
25 1 1 30 1 1 35 1 1 40 1 1 45 1 Elevation (feet)	- - 5- - -	19 19 45	X	18	<u>S-1</u> No odo	or NS		Bare ground at surface. SILTY SAND WITH GRAVEL moist, gray-brown, fine to mec and brick debris. [FILL]	(SM), dense to very den lium sand, plastic, wood,	se, dry to , concrete,			· · · · · · · · · · · · · · · · · · ·				···· ···· ··· ··· ··· 64 ····
35	- 10 - -	2 15 24	X ié	18	<u>S-2A</u> No odo <u>S-2B</u> No odo		3							· · · · · · · · ·	·····	39	····
30 1 1	- 15 — -	4 3 4	X		<u>S-3</u> No odo	or NS	3	SILTY SAND (SM), trace grav to medium sand, trace organic		 own, fine			·····		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	···· ···· ···· ····
25 1 1	- 20 -	4 6 6	X ict	18	<u>S-4</u> No odo	_{or} NS		POORLY GRADED SAND (SF brown, fine to medium sand.	P), medium dense, moist	t, olive				▲ 12		· · · · · · · · · · · · · · · · · · ·	···· ···· ····
20 1	- 25 — -	8 8 11	X	18	<u>S-5</u> No odo	or NS	3	Trace gravel at 25 feet.							9	· · · · · · · · · · · · · · · · · · ·	2! 2!
15 1 1	- 30 -	8 12 16	X io	18	<u>S-6</u> No odo	or NS		SILTY SAND (SM), few gravel gray-brown, fine to medium sa	I, medium dense, moist, and.		-				▲ 28	· · · · · · · · · · · · · · · · · · ·	····31
- 10	- 35 — - -	10 12 10	X ict	18	<u>S-7</u> No odo	or NS		SILTY SAND WITH GRAVEL	(SM) you donce you h						▲ 22	· · · · · · · · · · · · · · · · · · ·	
1. 2. 3. 4.	Mater USCS Grour	to Fig ial str desi ndwat	gure atum gnati er lev	n line ons vel, i	es are inte are base if indicate	erpretiv d on vi d, is at	e and sual-m time (SILTY SAND WITH GRAVEL to medium sand. scriptions and symbols. actual changes may be gradual. Solid annual identification (ASTM D 2488), ur of drilling/excavation (ATD) or for date s e approximate.	lines indicate distinct contact	ts and dashed laboratory tes					approxim	ate conta	acts.
	Ha		C R ision of		YSER y&Aldrich	Proje Loca Proje	tion:	Seattle DOT Mercer Parcels S Seattle, Washington D: 19409-04	Site			g Lo: /-14	-		Figure Sheet		1-78 of 3

La La G	ocation: Ground S	oy: <u>C</u> Lat: Surfac	<u> </u>	osk .624 leva	ie// 488 atio	A. Finigar	-122.34 5 feet (Cheo 10402	ked by: J. Sved Drilling f (WGS 84) Rig Moo 0 88) Hamme Hamme Hamme Measure Hole Dia	Contractor/Crew: <u>Holt Service</u> Method: <u>Mud Rotary/Hollow S</u> el/Type: <u>CME-85 / Truck-me</u> · Type: <u>Auto-hammer</u> · Weight (pounds): <u>140</u> ed Hammer Efficiency (%): <u>N</u> meter: <u>6 inches</u> pth: <u>81.5 feet</u>	Stem A punted H Not Av	drill rig lamme ailable	g er Drop I	er:				
				Sa	mpl	le Data				<u> </u>								<u> </u>
Elevation (feet)		Blow Count	Type	Recovery	Length (inches)	<u>Numbe</u> Tests	يا Sheen	Graphic Log	Material Description		Water Level	Well Construction			SPT N V 20 3	'alue 60 4	0	Depth (feet)
	40	44 50		10in.		<u>S-8</u> No odoi	, NS		SILTY SAND WITH GRAVEL (SM), ver to medium sand. (continued)	y dense, wet, brown, fine	;							4 0 ▲ 50/4"
	- - 45 -	35 46 50	X	15in.	17	<u>S-9</u> No odol	, NS		POORLY GRADED SAND (SP), trace g dark gray, fine to medium sand.	gravel, very dense, wet,								 45
	- - - 50 -	50	X	5in.	5	<u>S-10</u> No odoi	, NS		POORLY GRADED GRAVEL WITH SA wet, gray.	ND (GP), very dense,								6/11" 50
		42		10in.	10	<u>S-11</u>	. NS		POORLY GRADED SAND WITH GRAV wet, gray, fine to coarse sand.	/EL (SP), very dense,							···· 5	50/5" 55
	2 - - - - 60 -	-					I											● 50/4" 60
	- <u>-</u> - -	50	×	5in.	5	<u>S-12</u> No odor	, NS	0 °C	POORLY GRADED GRAVEL WITH SA wet, gray to brown.	ND (GP), very dense,							···· E	▲ 00 50/5"
	65 	50	X	5in.	5	<u>S-13</u> No odoi	, NS								 		···· E	65 50/5"
	- 70 - 2 -	50	X	3in.	3	<u>S-14</u> No odor	, NS										···· Ę	70 50/3"
	- 75 – - -	50	X	5in.	5	<u>S-15</u> No odoi	NS	0000000	POORLY GRADED GRAVEL WITH SI very dense, wet, gray.	- I AND SAND (GP-GM),					 		···· €	75 50/5"
	2. Mater 3. USCS 4. Grour	to Fig rial str desi ndwat	guro atu gna er l	m li atior eve	ines ns a I, if	s are inte are based indicated	rpretive d on vis d, is at i	e and ual-m time c	ecriptions and symbols. actual changes may be gradual. Solid lines indica anual identification (ASTM D 2488), unless other of drilling/excavation (ATD) or for date specified. L e approximate.	vise supported by laboratory t					approx	imate c	ontacts	
	+ 17/2		0	N	22	SER	Proje Locat	ct: ion:	Seattle DOT Mercer Parcels Site Seattle, Washington .: 19409-04	H	Borir I MV	ng Lo V-1 4			Figur Shee		A1- 2 of	



Logo Loca Grou	und S	y: <u>A.</u> <u>Lat:</u> urfac	Finig 47.6 e Ele	gan 2468 evatio		Che 22.34206 feet (NAV	e Completed: <u>07/16/2020</u> cked by: <u>J. Sved</u> 4 (WGS 84) D 88)	Drilling Contractor/Crew: <u>Ho</u> Drilling Method: <u>Mud Rotary</u> Rig Model/Type: <u>CME-85 / 1</u> Hammer Type: <u>Auto-hammer</u> Hammer Weight (pounds): <u>_</u> Measured Hammer Efficience Hole Diameter: 6 inches	y/Hollow Ste Truck-moun er 140	m Au ted o _ Ha : Ava	uger drill riç amme ilable	g r Drop Height	(inches): <u>3</u>	0	
								Total Depth: <u>76.5 feet</u>			Ŭ	o Groundwate	r: <u>36 feet</u>		_
l Elevation (feet)	o Depth (feet)	Blow Count		Length (inches)	le Data <u>Number</u> Tests	Sheen ✓ Graphic Log		laterial scription		Water Level	X Well Construction		SPT N Value 20 30	LL -1 e 	L Depth (feet)
22	- - 5- -	6 22 50		110 18	<u>S-1</u> No odor	NS	POORLY GRADED GRAVEL to POORLY GRADED SAND (SP-SM), very dense, moist, g debris. [FILL]	WITH SILT AND GRAVEL	. ·						2
	- 10 - -	7 20 32	X ¹¹	18	<u>S-2</u> No odor	NS NS							· · · · · · · · · · · · · · · · · · ·		· 1(
0 1 1 45	- 15 - -	14 28 27	X	18	<u>S-3</u> No odor	NS 00000						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		- 1 5
35 1 1 1 40	- 20 - - -	14 25 36	X ict	<u>Ш</u> 7 18	<u>S-4</u> No odor	ss of of of of of of of of of of of of of						·····	· · · · · · · · · · · · · · · · · · ·		2
ლ - - -	25 — - - -	14 10 20	X i	18	<u>S-5</u> No odor <u>S-6</u> Slight odor	NS NS	gray-brown, fine to medium sa	and, pockets of silt.		-		· · · · · · · · · · · · · · · · · · ·	30		2
- 30	- 30 -	14 43 50	X.	18	<u>S-7</u> No odor	NS	SILTY SAND (SM), few gravel medium sand.	i, very dense, moist, gray, '	ווויפ נט			·····		93	3
25	35 -	10 36 50	X .	110	<u>S-8</u> No odor	NS				ATD Ţ				86/1	0
1. 2. 3. 4. (Materi USCS Groun	to Fig ial str designdwate	gure atum gnati er lev	n line ions vel, it	s are interp are based of f indicated,	oretive and on visual-i is at time	escriptions and symbols. I actual changes may be gradual. Solid nanual identification (ASTM D 2488), ur of drilling/excavation (ATD) or for date re approximate.	nless otherwise supported by lal	boratory test				r approxima	te contacts.	
	I I/4	Vari	Or	ON		Project: .ocation:	Seattle DOT Mercer Parcels S Seattle, Washington o.: 19409-04	Site	B(HN		g Log - 15		Figure Sheet	A1-79	=)



	Groun	d by on: d Su	r: <u>A.</u> <u>Lat:</u> urface	Fir 47. ə E	iiga 625 eva	n 526: atio		-122.34 2 feet (l	Cheo 2093	sked by: <u>J. Sved</u> (WGS 84) 0 88)	Drilling Contractor/Crew: <u>H</u> Drilling Method: <u>Mud Rotar</u> Rig Model/Type: <u>CME-85 /</u> Hammer Type: <u>Auto-hamm</u> Hammer Weight (pounds):	ry/Hollow Ster ' Truck-moun' ner 140	m A ted	uger drill ri amme	g er Drop	Height ((inches)	: <u>30</u>		
La1											Measured Hammer Efficient Hole Diameter: <u>6 inches</u> Total Depth: 76.5 feet	cy (%): <u>Not</u>	Ca	asing	<u>)</u> Diamet o Grour			et.		
scilweir					Sar	npl	e Data				<u>10.01001</u>					anator	. 0010			_
	Elevation (feet)		Blow Count			Length (inches)	<u>Numbe</u> Tests	Sheen	Graphic Log	Mate Descr			Water Level	Well Construction		¥ Fine ▲ S	WC (% es Cont SPT N V 20 3	ént (%) ′alue	0	Depth (feet)
	- 22- - -						S-1A			∖4 inches of ACC. SILTY SAND WITH GRAVEL (S moist, gray-brown. [FILL]	M), (loose to medium d	/				· · · · · · · · · · · · · · · · · · ·				- - - - 5
	- 20-		1 7 14	X	12in.	18	S-1B			SILT WITH SAND (ML), medium [APPARENT NATIVE]							21			-
	$\begin{bmatrix} -& -\\ -&$										M), very dense, moist, g	gray, fine								-
	4-	-																	50	0/6"
	- 15 - - 9	5-	30 50	X	8in.	10	<u>S-3</u> No odor	. NS												— 15)/4"
	- - - 20	- - -	17		Ŀ		<u>S-4</u> Petroleum-			SILTY SAND (SM), trace gravel, sand.	very dense, moist, gra	y, fine								- - 20
	35 -	-	17 50	Å	12i	12	odor	like HS								· · · · · · · · · · · · · · · · · · ·			50)/6"
	- - 25 -	- 5- -	18 46 50	X	1 Zin.	17	<u>S-5</u> GS, WC Strong od	, SS							 	•			-46	- 25
	- <u>8</u> - -						-						ATD			· · · · · · · · · · · · · · · · · · ·				/11" _ _
101 7 - DTD. 101	- 30 - - - - - - - - - - - - - -) — - - -	50	X	6in.	6	<u>S-6</u> No odor	. NS					₽			•			··· 50	- 30)/6" -
	- - - 35	- - 5-	27		Li		S-7			Becomes wet below about 35 fee	et.					••••••		· · · · · · · · · · · · · · · · · · ·		- - 35
	- 20	$ = \begin{array}{c} 35\\ 24 \end{array} \left[\begin{array}{c} 18\\ \infty \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[NS \right] \left[\begin{array}{c} 18\\ 0 \end{array} \right] \left[\begin{array}{c} 18\\ 0 \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} 18\\ 0 \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} 18\\ 0 \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} 18\\ 0 \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} 18\\ 0 \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} 18\\ 0 \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} 18\\ 0 \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} 18\\ 0 \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} 18\\ 0 \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \\ \\[\frac{S-7}{No \ odor} \end{array} \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \right] \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \\ \\[\frac{S-7}{No \ odor} \end{array} \\ \\[\frac{S-7}{No \ odor} \end{array} \\ \\[\frac{S-7}{No \ odor} \end{array} \left[\begin{array}{c} \frac{S-7}{No \ odor} \end{array} \\ \\[\frac{S-7}{No \ odor} \end{array} \\ \\[\frac{S-7}{No \ odor} \end{array} \\ \\[\frac{S-7}{No \ odor} \end{array} \\ \\[\frac{S-7}{No \ odor} \end{array} \\ \\[\frac{S-7}{No \ odor} \end{array} \\ \\[\frac{S-7}{$														•				<u>5</u> 9
General Notes: 1. Refer to Figure A1-1 for explanation of descriptions and symbols. 2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and 3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by labora 4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time 5. Location and ground surface elevations are approximate.										aboratory test					approx	imate c	ontacts.			
	H	<u>'</u>					SER 8 Aldrid	Projec Locati Projec	on:	Seattle DOT Mercer Parcels Site Seattle, Washington b.: 19409-04		Bo HM		g Lo /-16	-		Figu Shee		A1-8	



Li Li G	round	by: <u>C.</u> : <u>Lat:</u> Surface	<u>Мо</u> 47. е Е	Ca .625 leva	be 523 atio	20 <u>3 Long: -1</u> n: <u>57.21</u>): BMP351	C 22.342	hecke 093 (\	ed by NGS	eted: <u>09/03/2020</u> Drilling Contractor/Crew: : <u>C. Kroskie</u> Drilling Method: <u>Hollow</u> : <u>84</u>) Rig Model/Type: <u>Mobile</u> Hammer Type: <u>Auto-ha</u> Hammer Weight (pound	Stem Auger B-57 / Track-n mmer	nount	ted dri			inchos	· 30		
- -		IIS. <u>V</u>		Tag	, IL	D. BINF 331				Measured Hammer Effic Hole Diameter: <u>5.875 ir</u>	iency (%): <u>No</u>	ot Ava Ca	ailable asing l	 Diamete	r: <u>OD:</u>	: 2 inche	es		
					_					Total Depth: 45.5 feet		_ De	epth to	Ground	dwater:	39.55	feet		
EGABLOCKLOGS.GPJ - msc Flavation (faat)	Depth (feet)	Blow Count	Type	y.	Length (inches) 00	<u>mple Data</u> <u>Number</u> Tests	PID (ppm)	Sheen	Graphic Log	Material Description		Water Level	Well Construction	10		PT N V		10	Depth (feet)
		8		in.		HMW-17S-5	⁵ <0.1	NS		SANDY SILT (ML), trace gravel, hard, dry, brow of silt, localized oxidation.	vn, pockets			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
	3 - 10 -	11 24 - - - - - - - - - - - - - - - - - -		in. 15in.		HMW-17S-5 No odor				SILTY SAND (SM), trace gravel, very dense, d				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	35		 + 10
	15 -	-								gray-brown.				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		8	+ 34/9" 15
	20 -	16 34 50				HMW-17S-1: No odor		NS		gravel, very dense, moist, gray-brown.	, 			· · · · · · · · · · · · · · · · · · ·				84	4/10"
						H <u>MW-17S-2</u> No odor HMW-17S-2	5	NS		SILTY SAND (SM), trace to few gravel, very de gray-brown, pockets of silt.	nse, moist,			· · · · · · · · · · · · · · · · · · ·				5	► 50/3"
	25 -	24 50	X	12in.	¹²	Slight betroleum-lik odor	e <0.1	NS		POORLY GRADED SAND WITH SILT (SP-SM gravel, very dense, moist, gray-brown, seams a of silt.), trace and pockets	H 9/3/2020		· · · · · · · · · · · · · · · · · · ·				5	25 50/6"
	30 -	24 50	X	11in.	11	HMW-17S-3	o			SILTY SAND (SM), trace gravel, very dense, w seams and pockets of silt.	 et, gray,	_ ¥		 	· · · · · · · · · · · · · · · · · · ·			5	
	35 -	40 50	X	9in.	9	HMW-17S-3	5			POORLY GRADED SAND WITH SILT (SP-SM gravel, very dense, wet, gray, fine to medium s		 ATD ⊻		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		5	35 50/3"
	2. Mate 3. USC 4. Grou	r to Fig rial str S desig ndwat	gure atu gna er le	m li itior evel	nes is a I, if	s are interp are based o	retive a on visua is at tin	and ac al-mar ne of (tual iual i drillin	ns and symbols. changes may be gradual. Solid lines indicate distinct conta dentification (ASTM D 2488), unless otherwise supported b g/excavation (ATD) or for date specified. Level may vary w xximate.	y laboratory tes					approxi	mate o	ontacts	i.
	+[]						Project: ocatio Project	n:	Sea	ttle DOT Mercer Parcels Site ttle, Washington ł09-04	Boring an	nd M Lo MN	onito og /-17	ring W 7 S	ell	Figur Shee		A1-8	



	Date S		_							-		Crew: Holt Services	, Inc.	/ Mit	ch and A	ustin				
	Loggeo					e 33 Long	122			-	C. Kroskie Drilling Method: H 84) Big Model/Type: I	ollow Stem Auger Mobile B-57 / Track-n	noun	ted di	ill ria					—
						on: <u>57.</u>					Hammer Type: A		noun		III TIG					
	Comm	ents:	: <u>W</u> e	ell Ta	ag II	D: BMP3	352				Hammer Weight (p				er Drop H	leight (i	inches)	: <u>30</u>		
											Measured Hamme Hole Diameter: 5.	r Efficiency (%): <u>No</u> 875 inchos			<u>.</u> Diameter	r: OD:	2 inch	00		
tzer											Total Depth: 45.3			-	o Ground					_
schwe					S	ample Da	ata													_
Ë-	et)									t				tion						
5.25	Elevation (feet) Denth (feet)	12	ا ج		les)					bc	Material		ē	Construction						eet)
CKLO	Elevation (fe		Count	2	(incl				_	ic Lo	Description		Lev	Cons						Depth (feet)
ABLO	Den		Blow	Type Recoverv	engt	Numb Tests		PID (ppm)	Sheen	Graphic Log			Water Level	Well		▲ s	PT N V			Dep
-MEG	- 0	+	ш			1030		(ppin)	0		SILTY SAND WITH GRAVEL (SM), very o	lense drv	-		10) 2	0 3	0 4	10 	-0-
		-									gray-brown.	,,,			R					F
KGI	55	-												8						F
ABLOO		-												8						F
MEG														8						- 5
ж' СШК	5		22 50	Υį	10	HMW-18 No ode	<u>3S-5</u> or	<0.1	NS					8						
SWEP		_												8					5	0/4" ⊢
	50	_												8						-
		_												8						
PRO	10		5			HMW-18	<u>S-10</u>				SILT WITH SAND (ML), hard, moist, gray		-	8						- 10
STER		-	17 24	Ž į	18	Stron petroleum odor	9 n-like	422	SS		sand.			8					≜ 41	-
dM/YS-	45	-												8					, ⁷ .'	F
IBRAF		-												88						F
_ ∣	15						S 15							8						-
SPAT	15]	10 20 34	X ::	18	HMW-18 Sligh petroleum	5-15 t	0.1	ss		SILTY SAND (SM), trace gravel, very den	se, moist, tan to		8						15
s/GEO		_	34	1-	-	odor					gray-brown, pockets of coarse sand.			8						54
ATIC	40	_												88	<u>]</u>					_
		_												8						-
ATAIO	20	-	22 50	.⊆		HMW-18 No ode	S-20	<0.1	NIC		grades to few gravel, gray			8]					20
X		-	50	45	: 11	No od	or	\U.1	113		grades to lew gravel, gray			8					5	L 0/5"
ARE/F	35	-												8						F
M/SH	(r)	-												8						F
Н.СС	0.5						S 25							88						
	25	<u> </u>	30 50	Z į	10	HMB-189 Slight mu odor	usky	0.1	SS		POORLY GRADED SAND WITH SILT (SI	P-SM), very		8					4	25
₹ Γ Ε Α											dense, moist, gray, pockets of silt.			8					5	0/4" _
Ĭ.	30	_												8						_
11:0		_												88	<u></u>					-
1/9/21	30	-	32	V.5		HMB-188 No ode	S-30	<0.1	NS		SILTY SAND (SM), trace to few gravel, ve	rv dense moist	_	8]			l		- 30
LB - 2		-	32 50	45	12	No od	or	\U.1	113		gray-brown, fine to medium sand.	ry dense, molet,		8					5	0/6"
RY.G	25	-																		F
		-																		F
υ Η													020							-
A/GIN	35]	26 50	Z É	11	HMB-18	S-35				POORLY GRADED SAND WITH SILT AN	ID GRAVEL	 9/8/2020	日					4	- 35
TAG-											(SP-SM), very dense, wet, gray.		Į₽						5	0/5"
E/SEA	20	_												E						_
SHAR		_												日						-
₩ C C	Gene	ral N	lotes											E.⊟:					<u> </u>	
KICH.	1. Ret	fer to	o Figu	ure /							as and symbols.									
YALD											changes may be gradual. Solid lines indicate distinct dentification (ASTM D 2488), unless otherwise suppo						approxi	mate co	ontacts	•
MALE	4. Gro	ound	wate	r lev	el, i	f indicate	ed, is	at tim	e of (drillin	g/excavation (ATD) or for date specified. Level may		.9			,				
៉ូ L ុ ୮	IJ. LOC	auol	n and	i gro	JUIIC	d surface	1									. 1				
4ING L						ER		oject: catior			ttle DOT Mercer Parcels Site	Boring ar	nd M L	ionito og	oring We	ell	Figur	e,	A1-8	32
CBO				_	_	/ & Aldrich					ttle, Washington 09-04	н	MW	og V-1 8	BS		Shee	t	1 of 2	2
ΞĹ							1	,												

	Log Loca Gro	ged b ation: und S	Surfac	<u>McC</u> 47.62 e Ele	abe 2513 vatio	20 3 Long: n: <u>57.6</u> 0: BMP35	-122.34 1 feet (N	Check 2088 (ed by WGS	eted: <u>09/03/2020</u> : <u>C. Kroskie</u> 84)	Drilling Contractor/Crew: Drilling Method: <u>Hollow S</u> Rig Model/Type: <u>Mobile</u> Hammer Type: <u>Auto-har</u> Hammer Weight (pounds Measured Hammer Efficie Hole Diameter: <u>5.875 inc</u>	Stem Auger B-57 / Track-mount nmer .): 140 ency (%): Not A ches	unted dr Hamme vailable Casing	ill rig r Drop Height Diameter: <u>OI</u>	D: 2 inche	s		
weitze											Total Depth: 45.33 feet		Depth to	o Groundwate	r: <u>36.6 f</u> e	eet		_
FILESWERCER_MEGABLOCKIGINT/ALLMEGABLOCKLOGS.GPJ - msch	Elevation (feet)	Depth (feet)	Blow Count	Type	Length (inches)	mple Da <u>Numbe</u> Tests	<u>r</u> PIE (ppn		Graphic Log		Material Description		Water Level Well Construction	10	SPT N Va 20 30		0	Depth (feet)
MEGABLOCK\GINT\ALLM	15	40 - - - 45 -	26 50	11 11 11 12		HMW-18S				SILTY SAND (SM), trac	æ gravel, very dense, we	et, gray.					50	40)/5" - - -
RCER	-	-		≓نصر	⋳⋳⋏	105	-+-3		<u></u>	Bottom of	Borehole at 45.3 feet.				1		50)/4"
RYIMASTER_PROJECT_FILESME	5 10	- - 50 - -	-														-	- - 50 -
SHARE\PDX_DATA\GEOMATICS\GEOSPATIAL_LIBRARY\MASTER_PROJECT		- 55 — - -	-														-	- 55 - -
		- 60 - - - -	-															- 60 - - -
-ARE\SEA_DATA\GINT\HC_LIBRARY.GLB - 21/9/21 11:01 - \\HALEYALDRICH.COM	-10	65 - - - -	-														-	65 - - -
THC_LIBRARY.GLB - 21/9/	-15	70 — - - -															-	70 - - -
M\SHARE\SEA_DATA\GINT	-20	75 — - - -	-														-	75 - - -
DG - \\HALEYALDRICH.CON	1. 2. 3. 4.	Refer Mater USCS Grour	rial sti S desi ndwat	gure / atum gnatio er lev	lines ons a rel, if	s are inte are based	rpretive l on visu d, is at ti	and a ual-ma ime of	ctual nual i drillin	ns and symbols. changes may be gradual. Solic dentification (ASTM D 2488), u g/excavation (ATD) or for date xximate.	nless otherwise supported by	y laboratory testin			r approxii	mate co	ontacts.	
HC BORING LC	-+	H	A div				Projec Locati Projec	on:	Sea	ttle DOT Mercer Parcels S ttle, Washington 109-04	Site	Boring and	Monito Log W-18	-	Figure Shee		A1-8 2 of 2	

ſ	Date Star Logged b	y: <u>C.</u>	McCa	abe			Check	ed by	C. Kroskie Dr	illing Contractor/Crew: <u>H</u> illing Method: <u>Hollow Ste</u> g Model/Type: Mobile B-	em Auger				ustin				
	Ground S	Surface	Elev	atic	on: <u>58.2</u> 0) feet (N			Ha	mmer Type: <u>Auto-hamn</u>	ner				1-:	·			_
	Commen	ts: <u>vv</u>		ig IL	D: BMP35	3			Me	nmmer Weight (pounds): easured Hammer Efficien	cy (%): <u>Not</u>	-		r Drop I 	Height (incnes)	: 30		—
Izer										le Diameter: <u>5.875 inch</u> tal Depth: 46.4 feet	es	-	-	Diamete o Groun					
Ischwei				Sa	ample Dat	а				·		-							_
MEGABLOCKLOGS.GPJ - n	 Elevation (feet) Depth (feet) 	Blow Count	Type Recovery	Length (inches)	<u>Numbe</u> Tests	r PIE (ppn		Graphic Log		terial ription	dur i dur	Water Level	Well Construction	1		:PT N V 20 3	alue 0 4	0	Depth (feet)
MEGABLOCK/GINI/ALL	- <u>2</u> 2- - 22-	-							moist, brown, fine to medium										- - - -
	- 5- 	50	6in.	6	HMW-19S No odor	<u></u> > <0.	I NS												0/6" - -
LIBRARY/MASTER_PRO	- 10 - 	40 50	9in.	9	HMW-19S No odor	<u>-10</u> <0.	I NS		grades to gray-brown, moist					······					- 10 0/3" -
EOMATICS/GEOSPATIAL	- _ 15 - - - - + - + - + - + - + - + - + - - + - - - + -	20 22 24	18in.	18	HMW-19S- No odor	<u>-15</u> <0.	ı ss		SANDY SILT/SILTY SAND [hard/dense, moist, gray, fine),			······				46	- 15 - - -
OMISHARE/PDX_DATAIG	- 20 - 	13 30 34	18in.	18	HMW-19S Slight sewage oc	<0.	I NS		SILTY SAND (SM), trace gra gray, fine sand, pockets of s	avel, very dense, mois ilt.	st to wet,								- 20 64
I:01 - WHALEYALDRICH.C	- 25 – ຄຸ -	50 44 50	10in. 0in.		HMW-19S No odor	- <u>25</u> <0.	I NS		SILTY SAND WITH GRAVE gray-brown.	L (SM), very dense, o	dry,			······		 		··· 50	- 25 0/1" 0/4"
IBKARY.GLB - 21/9/21 11	- 30 - - 30 - 	50	5.5in.		<u>HMW-19S</u> Strong ydrocarbon odor		NS		grades to gray, moist			N 9/10/2020						50,	- - 30 /5.5" -
ARE/SEA_DATA/GINT/HC_L	 - 35 - 	30 50	12in.	12	<u>HMW-19S</u> No odor	- <u>35</u> 4.5	NS		grades to gray-brown, wet, n	nedium to coarse san	ıd	ATD ⊻			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	50	- 35 0/6" -
LOG - NHALEYALDRICH.COM/SH	2. Mater 3. USCS 4. Grou	to Fig rial stra desig ndwate	ure A atum I Inatio er leve	line ns a el, if	s are inte are based f indicated I surface e	rpretive l on visu l, is at ti elevatio	and a Ial-ma me of Is are	ctual nual i drillin appro		otherwise supported by la	aboratory test time.	ting	(ASTI	M D 248	37).	approxi			
HC BORING						Projec Locati Projec	on:	Sea	ttle DOT Mercer Parcels Site ttle, Washington /09-04		Boring and HN	L	onito og /-1	-	eii	Figur Shee		A1-8	



O Depth (feet)	Blow Count	Type Recoverv	Length (inches)	Data <u>Number</u> Tests	Graphic Log	Materia Description		Water Level	Well Construction]	10				0	Depth (feet)
- - - 5 - -	-									· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
- 10 - - - - 15 -	-										· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
- - 20 - - -	-										· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
- 25 - - 30	-										· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
- - - 35 - - -	-							内 9/10/2020			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
	0 - - - - - - - - - - - - - - - - - -	0 1 1 1 1 1 1 1 1 1 1 1 1 1			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		0	0 -	0 No samples collected 0 to 40 feet 5 0 10 0 15 0 15 0 16 0 17 0 18 0 19 0 10 0 <th>a a a b image b image <t< th=""><th>a) a) b) <th< th=""><th>a) a) b) <th< th=""><th>a a s a</th><th>a b</th><th>A B</th><th>a b</th></th<></th></th<></th></t<></th>	a a a b image b image image <t< th=""><th>a) a) b) <th< th=""><th>a) a) b) <th< th=""><th>a a s a</th><th>a b</th><th>A B</th><th>a b</th></th<></th></th<></th></t<>	a) a) b) b) <th< th=""><th>a) a) b) <th< th=""><th>a a s a</th><th>a b</th><th>A B</th><th>a b</th></th<></th></th<>	a) a) b) b) <th< th=""><th>a a s a</th><th>a b</th><th>A B</th><th>a b</th></th<>	a a s a	a b	A B	a b



ſ			ted:							-	eted: 09/08/2020	Drilling Contractor/Crew: H		Inc	. / Mi	tch	and A	ustin				
		-	y: <u>C.</u> Lat [.]				Long: -				: <u>C. Kroskie</u>	Drilling Method: <u>Hollow Ste</u> Rig Model/Type: Mobile B-		oun	ted o	trill 1	ria					
							53.81					Hammer Type: <u>Auto-hamn</u>		oun			ing					_
	Corr	ment	ts: <u>N</u>	/ell ⁻	Гаg	ID:	BMP354					Hammer Weight (pounds):		_			Drop H	leight (inches)	: 30		
												Measured Hammer Efficien					- omoto		2 inch	~~		
tzer												Hole Diameter: <u>5.875 inch</u> Total Depth: 35.8 feet	es			-		r: <u>OD:</u> dwater:				
chwei					ç	Sam	ple Data					·		-	T							
- L	t)				Ť					1												
SS.GP	(fee	et)	t l		100	(s)				b		Material			truct							et)
KLOO	ation	h (fe	Count		iry inot				_	ic Lo	E	Description		Lev	Construction							h (fe
ABLOO	Elevation (feet)	Depth (feet)	Blow	Type	Recovery		Number	PID	Sheen	Graphic Log				Water Level	Mell			▲ S	PT N V	/alue		Depth (feet)
MEGA	-	0-	8	F	Ώ,	- 1	Tests	(ppm)) v			AVEL WITH SAND (GP),	modium	<	<		10	0 2	0 3	80 <u>4</u>	0	0-
TIALL	-	-	-							60		brounded to rounded grav				g.						-
VID/X	-	-	-							00						0.						F
BLOC	20	-								6C					8	Ø.						F
MEG/	<u>م</u>	-	1							0					8	Ø.						[_
CER	-	5-	6 9 6	\mathbf{M}		8 <mark>번</mark> 8 0	<u>MW-20S-</u> Irganic-like	5 <0.1	SS	I A					0	Ø.						[°
SWEF	-	_	6	Ĥ			odor			00					0	Ø.		15				Ļ
ШЦ Ц	-	-	-							6Č						Ø.						
DUECT	45	-	-							60						g.						÷
PRO	-	10 —	8		Ē.	HN	<u>//W-20S-1</u> No odor	0 .0.1		6A					Ø	8						- 10
ASTE	-	-	8 8 8	Д	18in 1	8	No odor	<0.1	SS	Po						0.		A 16				F
RY/M	-	_]							$[\circ]{}$												
LIBRA	40	_								0						Ø.						
ATIAL	-	15 —		\square						60						9					ļ	-15
EOSP/	-	-	4 5 9	Х	1 1	8	<u>MW-20S-1</u> No odor	5 <0.1	SS	200						g.						
CS/GE	-	-									Obstruction at 17 feet. n	nove 10 feet to east-south	neast and	-	0	g.		14				+
DMATI	ი	-	-								drill to 20 feet				0	0.						-
A\GE0	35	-	1												0	Q.						1
DAT	-	20	24 35 50	X		5 HN	<u>/W-20S-2</u> No odor	0 <0.1	NS		SILTY SAND (SM), track brown, fine to medium s	e gravel, very dense, moi	st,		0	A.						20
(CLPD)	-	_	50	П								anu.				9.					8	5/9" ⊢
\SHAF	-	-	-																			÷
9	30	-	-																			╞
EYALDRICH	-	25 —	28 34 50		۱		<u>//W-20S-2</u> No odor	⁵ <0.1	NS		grades to no gravel, gra	y-brown, 2-inch thick laye	r of clay		E						j	-25
LEYAL	-	_	50	А	-	΄	No odor	-0.1			at 25 feet										84	₽ 4/11"
- \\HA	-	_]											2020	E							[
11:01	25	_	-											9/10/2020	ΙĒ							Ļ
1/9/21	-	30 —	25	\square	Ē.	HN	<u>//W-20S-3</u> No odor	0 .0 1			grades to moist to wet, I	orown		₽	E	-					 	-30
LB - 2	-	-	25 50	А		2	No odor	<0.1	NS			Jown			E						5	.L 60/6"
ARY.G	-	-	-												E							F
LIBR	- 50	-	1												ΙĒ							F
CHUHC	-	- 35 —	1		_																	-35
TA/GII	-		40 50	Д	ē 1	0 HN	/W-20S-3	5			grades to few gravel, mo	oist, gray Borehole at 35.8 feet.										60/4"
ADA	-	_	-								Dottom of	Dorenole at 55.0 leet.									0	0/4 -
RE\SE		-	-																			-
M\SHA	15	-	-																			-
H.CO			Note																			<u> </u>
LDRIC											ns and symbols. changes may be gradual. Solid	lines indicate distinct contacts	and dashed	line	s inc	licat	te grac	dual or	approx	imate c	ontacts	<i>.</i>
ALEYA	3. l	JSCS	6 desi	gnat	tions	s are	e based	on visua	al-ma	nual i	dentification (ASTM D 2488), un g/excavation (ATD) or for date	nless otherwise supported by la	aboratory tes									
7H\\ - 6							urface el															
ğ				~	-	_	F	Project	:	Sea	ttle DOT Mercer Parcels S	Site	Boring an	d N	lonit	ori	ng W	ell	Figu		A1-8	25
BORIN		<u> </u>						ocatio	n:		ttle, Washington		HN	L	oa		-		Shee		A 1-C 1 of	
Ч			A UNI	JUNI 0	y nul	ay di A	F	roject	No.	: 194	109-04			VI V	4 -Z				Unet	~	1.01	-

	Logg	ged by	ted: _ y: <u>_B.</u>	Lyt	le				Ch	ecke	d by:	eted: 10/20/2020 Drilling Contractor/Crew: C. Kroskie Drilling Method: Mud Rev	otary				, and S	miley			
							4 Long: n: <u>38.1</u>					84) Rig Model/Type: <u>Mobile</u> Hammer Type: <u>Auto-ha</u>		ount	ted dr	ill rig					
	Com	iment	s: <u>W</u>	/ell	Тас	g IC): BMP37	'3				Hammer Weight (pounds Measured Hammer Effic	-	-		r Drop ⊦	leight (inches)	: <u>30</u>		
												Hole Diameter: <u>6 inches</u>				 Diamete	r: <u>OD</u>	2 inch	es		
weitzer												Total Depth: 41.5 feet		_ De	epth t	o Ground	dwater:	35 fe	et		
)GS.GPJ - msch	n (feet)	eet)	int				imple Da	la			og	_Material		vel	Construction						eet)
.MEGABLOCKLO	 Elevation (feet) 	⊖ Depth (feet) │	Blow Count	Type	Recovery	Length (inc	<u>Numbe</u> Tests	r Pl (pp		Sheen	Graphic Log	Description		Water Level	Kell	10		PT N V 0 3		0	Depth (feet)
		-																			-
- OCK/G	35	-																			
IEGABL		-									٥¥	POORLY GRADED GRAVEL WITH SILT AND	SAND	-							-
		5-	17 23 16	M	2in.	18	HMW-215 No odo	<u>-5</u> <0	1	NS		(GP-GM), dense, moist, light brown to gray-bro coarse gravel, brick fragments in cuttings. [FILI	wn, fine to L]								5
SWER		-	16	Ĥ			100 000												3	89 	
	30	-									Pall										-
PROJEC		- 10 -		Ц																	
STER		_	3 1 6	Д	4in.	18	HMW-21S No odo	<u>-10</u> <0	1	NS	0	occasional iron oxide staining				·…▲. 					·
RYNMA		_									S°										-
LIBRA	25	-									00										
PATIAL		15 —	4	X	÷		HMW-21S No odo	<u>-15</u> <0	1	NS		LEAN CLAY (CL), few gravel, stiff, moist, gray.		-							- 15
s/GEOS		-	4 5	А	6	18	No odo		1	NO						-	 ?				
	20	_]					
A\GEOI		-																			-
X_DAT		20 -	3 5 3	M	2.5in.	18	HMW-21S No odo	<u>-20</u> <0	1	NS		LEAN CLAY WITH GRAVEL (CL), medium stif gray, coarse subrounded gravel, occasional po	f, moist, ckest of								- 20
ARE/PD		_	3	П								sand.				8					
OM/SH	15	_																			Ŀ
RICH.C		25 —	1	H									moiot grou	-							-25
EYALDI		-	1 4 5	Д	10in	18	HMW-21S No odo	<u>-25</u> <0	1	NS		LEAN CLAY (CL), trace sand and gravel, stiff, occasional sand seams, occasional pockets of	gravel.			∫ ▲	 A				-
- \\HAL	0															1					
1 11:01	10	-																			
- 21/9/2		30 —	16 28 35	X	j.	18	HMW-21S No odo	-30 <0	1	NS		POORLY GRADED SAND (SP), very dense, m	noist, gray,	-		:					- 30
Y.GLB		-	35	А	₽	10	No odo			110		fine sand.								· · · · · · · •	63
IBRAR	2	-																			
Ч НС		-												atd ⊻							-
TA/GIN		35 —	13 17 21	M	15in.	18	HMW-21S No odo	<u>-35</u> <0	1	NS		grades to dense, wet, fine to medium sand		ľ							- 35
EADA		_	21	Π															38	8 	. - -
HARE	0	_																			
COM/SI	<u> </u>		Not-																		
DRICH.C	1. F	Refer		jure								ns and symbols.			- :!:						
- WHALEYALD	3. L 4. C	JSCS Grour	desig dwate	gna er le	tior evel	ns a I, if	are based	d on vis d, is at	ual- time	-mar e of o	nual io drillino	changes may be gradual. Solid lines indicate distinct conta Jentification (ASTM D 2488), unless otherwise supported b g/excavation (ATD) or for date specified. Level may vary w ximate.	y laboratory test					approx	mate c	ontacts	•
				~				Proje	ct:		Sea	ttle DOT Mercer Parcels Site	Boring and	d M	onitc	oring W	ell	Figu	e.	A1-8	
BORIN		Ľ.					SER & Aldrich	Locat				ttle, Washington	нм	La ///	og /-2 ′	IS		Shee		All-c 1of∶	
오								roje	ιľ	NO.:	194	09-04	<u> </u>								

			ted: <u>10/20/2020</u> y: <u>B. Lytle</u>		Completed: <u>10/20/2020</u> ked by: <u>C. Kroskie</u>	 Drilling Contractor/Crew: Drilling Method: <u>Mud Ro</u> 		: / Abe, Ra	ayon, and \$	Smiley		
	Loca	tion:	Lat: 47.625024 Long	: -122.339905 ((WGS 84)	Rig Model/Type: Mobile		nted drill rig	3			
			Surface Elevation: <u>38.</u> ts: <u>Well Tag ID: BMP3</u>		88)	 Hammer Type: <u>Auto-har</u> Hammer Weight (pounds) 		lammer Dr	op Height	(inches): 3	30	
			¥			Measured Hammer Efficie	ency (%): <u>Not Av</u>	ailable				
zer						 Hole Diameter: <u>6 inches</u> Total Depth: <u>41.5 feet</u> 		Casing Diar Depth to Gr): 2 inches		
chweitz			Comple D	ata			Þ		oundwater	. <u>00 leet</u>		
VALLMEGABLOCKLOGS.GPJ - msc	Elevation (feet)	Depth (feet)	Sample Da Sample Da Internet State Sample Da Sample Da S	er PID ම s (ppm) ග්		Material Description	Water Level	Well Construction		SPT N Valu 20 30	e 	Depth (feet)
<th>-</th> <th>-</th> <th></th> <th></th> <th>Bottom</th> <th>of Borehole at 41.5 feet.</th> <th></th> <th>1 1</th> <th></th> <th>1 1</th> <th>43</th> <th>╡</th>	-	-			Bottom	of Borehole at 41.5 feet.		1 1		1 1	43	╡
BLOCK	-ų	-	-									-
MERCER_MEGA	- - '	- 45 -										- 45 -
FILES	-10	_	-									-
DJECT	- '	-	-									-
R_PR(-	50 -	-									- 50
MASTER												
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s\GEO	-											
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DRICH	- (65 —										-65
ALEYALDRICH.CON	-											Ľ
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1 11:01	- -	_	-									-
21/9/2		70 –	-									-70
.GLB -	-	-	-									F
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SHAR	-	_										+
H.COM	Ger	neral	Notes:									
3 - WHALEYALDRICH	2. N 3. U 4. G	/lateri JSCS Groun	3 designations are base	erpretive and a ed on visual-ma ed, is at time of	actual changes may be gradual. So anual identification (ASTM D 2488) drilling/excavation (ATD) or for da	, unless otherwise supported by	y laboratory testing			approxima	ite contact:	S.
1G LOC				Project:	Seattle DOT Mercer Parcels	s Site	Boring and M		g Well	Figure	A1-	86
BORIN			A division of Haley & Aldrich	Location:	Seattle, Washington		НММ	.og V-21S		Sheet	A 1-0 2 of	
Ч				Project No.	: 19409-04			-210		Cheel	2 01	

			ted: _ y: <u>_B.</u>			202	0						ontractor/Crew: <u>Holt Servic</u> lethod: <u>Mud Rotary</u>	es, Inc	. / Ab	9					
							3 Long:					U	el/Type: Mobile B-57 / Track	k-mour	ted d	rill rig					
							n: <u>38.7</u> 5 : BMP37		: (NA'	VD 8	8)		Type: <u>Auto-hammer</u> Weight (pounds): 140	н	amm	er Drop H	-leiaht (inches)	· 30		
	Com	non	5. <u>- 11</u>		rug		. Divil Of	т					d Hammer Efficiency (%): _				loigint (mones	. <u>00</u>		
												Hole Dia	meter: <u>6 inches</u>	c	asing	Diamete	er: <u>OD</u>	: 2 inch	es		
veitzer												Total Dep	oth: <u>38.5 feet</u>	D	epth	o Groun	dwater:	<u>35 fee</u>	et		
mschv						Sar	mple Dat	a													T
- G	set)														Construction						
OGS.C	Elevation (feet)	eet)	nt			ches					-og	Material		kel	strue						feet)
CKLO	vatio	Depth (feet)	Count		ery :	Ĩ				L.	hicl	Descriptio	n	er Le	Co						Depth (feet)
SABLO	Ē	De la	Blow	Type	Recovery	Length (Inches)	Number Tests		PID pm)	Sheen	Graphic Log			Water Level	Well			PT N V			Dep
-TME	-	0-		i l	-	-			. ,		2 A	\neg Concrete (5-inch thick)		/	8		0 2	0 3	0 4	0	-0-
		-										Air knife to 4 feet		-		§					·
K/GI		-																			÷
BLOC	35	-													0						· -
MEGA		_									٥X	SILTY GRAVEL WITH SAND (GI									· -
ж'		5-	5 4 5	M.	<u>.</u>		HMW-22S No odor	-5 <	0.1	NS	βŲ	gray-brown, occasional iron oxide	staining.		8						- 5
MER			5	Ĥ	-						٥Q				8		9				.[
											90										L
ц Ц	80										60]					L.
LON-	1	10 -	11	Ц							90										- 10
нц Ц		_	11 10 6	X	1 <u>1</u>	18	MW-22S- No odor	<u>10</u> <	0.1	NS		POORLY GRADED SAND WITH dense, moist, gray-brown.	SILT (SP-SM), medium			J					
/MAS		_	0	Ħ								20.000,			8	<u>.</u>	16				.
ZARY		_														<u>.</u>					. _
-EB	25	-																			·
ATIAL	1	5-	6	H			1111/ 225	15				SANDY SILT WITH GRAVEL (ML) stiff moist grav to			<u></u>					- 15
EOSP		-	6 8 7	M	등	18	MW-22S- No odor	<	:0.1	NS		gray-brown, frequent iron oxide sta				<u>.</u>					·
CS/G		-										organics (charcoal).			8		15				÷
MATH	~	-														<u>.</u>					·
- GEO	20	-																			·
DATA	2	20 -	1	Й.	10in.		MW-22S- No odor,	つ ,	0.1	SS	-13	ORGANIC SOIL WITH GRAVEL (0						-20
XQ		-	3 3	Д	입	0	blocky whi sheen	te	.0.1	33		moist, dark brown, woody organic diameter.	material 0.25 to 1 inch			6					·
HARE																					T
COM\S	15														0						T
CH.C		25 -									FE										-25
- LDRI	2		11 14 19	M	i I I I	18	<u>HMW-22S-</u> No odor	25 <	0.1	NS		SANDY SILT (ML), stiff, moist, gra		_A_		·					_ 23
γ ΓΕ		_	19	Ĥ			110 0001					POORLY GRADED SAND (SP), c	lense, moist, gray,	!					33		
/H -		_										POORLY GRADED SAND (SP), o	lense, moist, gray, fine	-	日日	·]					.L
17 12 1	10	_										sand.			:目	·					ŀ
1/9/21	З	30 -	19	Н								arados to von donce arou to are	hrown			:					-30
-B-2		-	19 27 27	M	17in	18⊫	MW-22S- No odor	<	:0.1	NS		grades to very dense, gray to gray			[:目						
RY.GI		-													E						.54
-IBRA		-													目						·
ןר ד	Ω	-												ATI V							· -
	3	35 —	15	H.	<u> </u>		IMW-22S-	35		NO		grades to wet, medium sand		₽		:					- 35
DATA		-	15 19 23	Д	10in.	18	No odor	_ <	:0.1	NS		0			日日	· ·····				≜ 42	·
SEA		-	18 21 21	Μ.	2in.	18 ^E	IMW-22S-	37	:0.1	NS		grades to fine to medium sand				· ·····					t
ARE/	0	-	21	M:	Ψ		No odor		.0.1	140	• • •	Bottom of Borehole	at 29 5 foot							42	4
-swc		_																			
CH.CC			Notes			4	for our l		n of	102-	inti-										
LDRIC												is and symbols. hanges may be gradual. Solid lines indica	te distinct contacts and dash	ed line	s indi	cate gra	dual or	approxi	imate c	ontacts	. .
LEYA												lentification (ASTM D 2488), unless otherw g/excavation (ATD) or for date specified. Le		testing	(AST	M D 248	87).				
7H∦							surface e						wei may vary with time.								
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ORIN(14	177				SER	Loca				ttle, Washington		IMV	og			Figur		A1-8	-
НСВ			A divi:	sion a	ıt Ha	iey 8	Aldrich	Proj	ect I	No.:	194	09-04		1 IVI V	v-2	25		Shee	et	1 of	1