	Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	Concrete					0		Concrete (12 inches)
						2-		BROWN SILTY SAND WITH GRAVEL (SM), moist, trace fill material (FILL)
-						12		BROWN SAND (SP), moist, loose, fine to medium, trace silt, trace coarse sand (FILL)
H						4-		BROWN SAND (SP), moist, loose, line to medium, trace siit, trace coarse sand (FILL)
-		0.2	B-224-6	12	V	-		-
		0.2	B-224-0	12		6-		
						8-		DARK BROWN SILTY SAND WITH GRAVEL (SM), wet, loose, fine to medium, little — fines, little subrounded to subangular gravel up to 1-inch diameter, trace organics, little fill material (rocks and debris), (FILL)
H					V	10 —		_
<b>†</b>		0.0	B-224-11	8	À			_
						12 —		
						14		LIGHT BROWN SILTY SAND (SM), moist to wet, dense, fine to medium, some fines, trace gravel, orange mottling
-								-
$\vdash$		2.6	B-224-16	15	Ă	16 —		-
						-		
						18 —		
	Bentonite					20 —	. : . :   . : . :	BROWN SILTY SAND WITH GRAVEL (SM), moist, dense, fine to medium, little fines,
-		14.4 16.8	B-224-21.5	18	X			little subrounded gravel up to 1-inch diameter  @ 21 feet: soil Color-Tec reading 0.110 mg/kg
$\vdash$						22 —		
Ĺ						24 —		_
						. 24		
-		8.8 6.1	B-224-26	12	X	26 —		PPOWN SAND (SD) wat dance fine to madium trace fines
-		0.1						BROWN SAND (SP), wet, dense, fine to medium, trace fines
						28 —		
						20	10000	BROWN GRAVEL WITH SAND (GP), wet, dense, subrounded to rounded up to 0.5-inch diameter, little medium to coarse sand
			B-224-31	9	Y	30 —		@ 31 feet: soil Color-Tec reading 1.4 mg/kg
_		12.1				32 —		_
-							-	_
$\vdash$						34 —		BROWN SAND (SP), wet, medium dense, fine to medium, trace coarse sand, trace
<b>†</b>			B-224-36	18	Y	-		fines, trace subrounded gravel up to 1-inch diameter  @ 36 feet: soil Color-Tec reading 19.15 mg/kg
		56.2	5-224-30	'		36 —		
L						38 —		
-								_
	<i>\(\(\(\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>					40		

Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 60.5 Diameter of Boring: 8.25 Inches

Drill Date: 11/27/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



						2012
Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	ပို့ မြင့် Lithologic Description
-	8.8		18	X	42 —	BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, very dense, fine to coarse, some fines, little subrounded gravel up to 1-inch diameter, lenses of coarse sand
Bentonite	7.3		6	*	44 —	@ 45 feet: wet, no sand lenses, soil Color-Tec reading 1.0 mg/kg
- - -	6.8		6	×	48 — - 50 —	GRAY GRAVEL WITH SILT AND SAND (GP), wet, very dense, subrounded gravel up to 0.5-inch diameter, some fine to coarse sand, few fines, trace gray silty sand lenses up to 0.25-inch diameter
· -					52 — - 54	GRAY SILTY SAND (SM), wet, dense, some fines, trace gravel
- -	5.6		6	*	56 — -	
- - -	0.8	B-224-60.5	6	×	58 — - 60 —	@ 60 feet: soil Color-Tec reading 0.588 mg/kg  Bottom of Boring at 60.5 feet bgs. Boring backfilled with bentonite grout.
- - -					62 — - 64 —	
- -					66 — - 68 —	
-					70 — - 72 —	
_					74 — 76 —	
					78 — -	

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 60.5 Diameter of Boring: 8.25 Inches

Drill Date: 11/27/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger

Well Completion  Sample  Sampl									
Bentionile  8.1 B-225-21 18  Bentionile  8.1 B-225-31 18  Bentionile  8.2 Bentionile  8.3 B-225-31 18  Bentionile  8.4 B-225-31 18  Bentionile  8.5 B-225-31 18  Bentionile  8.6 BROWN SILTY SAND WITH GRAVEL (SM), moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine to coarse sand, few silf, moist, medium dense, fine for coarse sand, few silf, moist, medium dense, fine for coarse sand, few silf, moist, medium dense, fine for coarse sand, few silf, moist, medium dense, fine for coarse sand, few silf, moist, moist, moist, moist, moist, moist, medium dense, fine for coarse sand, few silf, moist, moist, moist, medium dense, fine for coarse sand, few silf, moist, moist	Well(	Completion	PID (PPM)	_200	Sample Recovery (in)	Sample Interval			Lithologic Description
BROWN SALTY SAND WITH GRAVEL (SM), moist, medium dense, file debrie (FILL)  BROWN SAND (SP), moist, medium dense, fine to medium, trace coarse sand, few silt, trace subtounded gravel up to 1-inch diameter  10 8-25-11 18		Concrete					0	レベン	Concrete (6 inches)
100.7   B-225-16   18   18   18   18   19   19   19   19	- <i>'))))</i>	Concrete					2-		BROWN SILTY SAND WITH GRAVEL (SM), moist, medium dense, fill debris (FILL)
2.0 2.1  B-225-11  BROWNISH GRAY GRAVEL WITH SILT AND SAND (GP), moist, little fine to coarse sand, few fines fines  DARK GRAY GRAVEL WITH SILT AND SAND (GP), moist, little fine to coarse sand, few fines fines  100.7  B-225-16  BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, medium dense to dense, fine to coarse, some fines, little subrounded gravel up to 1-inch diameter, orange mettling  100.7  B-225-16  BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, medium dense to dense, fine to coarse, some fines, little subrounded gravel up to 1-inch diameter, orange  20 21  22  24  1.0  B-225-26  18  25  26  27  REDDISH BROWN SILTY SAND (SM), wet, medium dense, fine to coarse, little fines, trace subrounded gravel up to 1-inch diameter  28  31.5 feet: soil Color-Tec reading 0.9 mg/kg  4.0  B-225-36  18  20  31.5 feet: soil Color-Tec reading 0.9 mg/kg	- - -						4-		BROWN SAND (SP), moist, medium dense, fine to medium, trace coarse sand, few silt, trace subrounded gravel up to 1-inch diameter
2.0 2.1 8-225-11 18	- <i>    </i> - <i>    </i>		0.3	B-225-6	18	X	6-		
2.0 2.1 B-225-11 18	- <i>     </i> - <i>     </i>						8-	- 33333 - 33333 - 33333	
2.0 2.1 B-225-11 18	_						10 —		_
DARK GRAY GRAVEL WITH SILT AND SAND (GP), moist, little fine to coarse sand, few fines, fine to coarse, some fines, little subrounded gravel up to 1-inch diameter, orange mottling  100.7 B-225-16 18 10 10 10 10 10 10 10 10 10 10 10 10 10			2.0	B-225-11	18	Y			
100.7   B-225-16   18	- ////		2.1	State Section States			12 —	000	
Bentonite  8.1 B-225-21 18  20 20 feet: wet  22							14	-	dense, fine to coarse, some fines, little subrounded gravel up to 1-inch diameter, orange
Bentonite  8.1 B-225-21 18	- - -		100.7	B-225-16	18	X	16 —		@ 16 feet: soil Color-Tec reading 1.5 mg/kg
8.1 B-225-21 18	- <i>    </i> - <i>    </i>						18 —		
1.0 B-225-26 18	- ////////////////////////////////////	Bentonite	8.1	B-225-21	18	X	20 —	-  -	@ 20 feet: wet
28—  REDDISH BROWN SILTY SAND (SM), wet, medium dense, fine to coarse, little fines, trace subrounded gravel up to 1-inch diameter  1.0 B-225-31 18  32—  4.0 B-225-36 18  8 25 feet: gravel up to 2-inch diameter  REDDISH BROWN SILTY SAND (SM), wet, medium dense, fine to coarse, little fines, trace subrounded gravel up to 1-inch diameter  9 31.5 feet: soil Color-Tec reading 0.9 mg/kg  9 35 feet: BROWN	- <i>     </i> - <i>     </i>						22 –	-	
1.0 B-225-26 18 26 28 28 28 28 28 28 28 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	- <i>    </i> - <i>    </i>					_	24 —	- - -	
REDDISH BROWN SILTY SAND (SM), wet, medium dense, fine to coarse, little fines, trace subrounded gravel up to 1-inch diameter  1.0 B-225-31 18 32 31 32 31.5 feet: soil Color-Tec reading 0.9 mg/kg  4.0 B-225-36 18 36 36 36 36 36 36 36 36 36 36 36 36 36	- <i>     </i> - <i>     </i>		1.0	B-225-26	18		26 —	-	- -
1.0 B-225-31 18 30— trace subrounded gravel up to 1-inch diameter  30— 31.5 feet: soil Color-Tec reading 0.9 mg/kg  4.0 B-225-36 18 36— 36— 36— 36— 36— 36— 36— 36— 36— 36—	- <i>\\\\\\</i>						28 —		_
1.0 B-225-31 18 32 32 31.5 feet: soil Color-Tec reading 0.9 mg/kg 31.5 feet: BROWN	- <i>////////////////////////////////////</i>						30 -		REDDISH BROWN SILTY SAND (SM), wet, medium dense, fine to coarse, little fines, trace subrounded gravel up to 1-inch diameter
4.0 B-225-36 18 35 feet: BROWN	- /////		1.0	B-225-31	18	Y			_
4.0 B-225-36 18 35 feet: BROWN	_						32 —		@ 31.5 feet: soil Color-Tec reading 0.9 mg/kg
4.0 B-225-36 18 35 feet: BROWN	- /////								
4.0 B-225-36 18 36 1.1.1	- <i>/////</i>						31 —		
	_		4.0	B-225-36	18	X	36 —		@ 35 feet: BROWN
	- /////						38 -		
							40		-

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA

Site Location: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 40.6 Diameter of Boring: 8.25 Inches

Drill Date: 11/27/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



							20	
			overy (in)	ıval	Q:			
Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description	
	0.7	B-225-40.5	8 8	<i>o</i>				
-					-		Pottom of Paring at 40 6 feet has	
					42 —		Bottom of Boring at 40.6 feet bgs. Boring backfilled with bentonite.	_
					44 —			
					-			_
					46 —			_
_					_			_
_					48 —			
-					-			-
					50 —			_
-					-			-
					52 —			_
					-			-
					54			
					56 —			_
					_			_
					58 —			_
_					-			_
_					60 —			_
_					-			-
_					62 —			_
_					-			-
_					64 —			-
-					-			-
					66 —			-
					68 —			
								_
					70 —			_
_					_			_
_					72 —			_
-					-			-
					74 —			_
-					-			-
					76 —			-
-					-			-
					78 —			-
<u> </u>					80			-
	-			_	, 00			

Project: Former American Linen Supply Project Number: 1413.001.02.602
Site Location: Seattle, WA
Logged By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 40.6 Diameter of Boring: 8.25 Inches

Drill Date: 11/27/17 Drilled By: Cascade Cascade Drilling Drill Method: Hollow Stem Auger

BROWNISH GRAY SILTY SAND WITH GRAVEL (FILL)  BROWNISH GRAY SILTY SAND (SM), most, medium dense, fine to medium, trace coarse sand, some fines, trace subrounded gravel up to 0.5 inch diameter  1.4 B-226-11 12   10 BROWNISH GRAY SILTY SAND (SM), most, medium dense, fine to medium, trace coarse sand, some fines, trace subrounded gravel up to 0.5 inch diameter  1.4 B-226-11 12   10 BROWNISH GRAY SILTY SAND (SM), most, medium dense, fine to medium, little fines, trace subrounded gravel up to 1 inch diameter  1.4 B-226-11 12   BROWNISH GRAY SILTY SAND (SM), most, medium dense, fine to medium, little fines, trace subrounded gravel up to 1 inch diameter  1.5 BROWNISH GRAY SILTY SAND (SM), most, medium dense, fine to medium, little fines, trace subrounded gravel up to 1 inch diameter  1.4 B-226-11 18   1.5 BROWNISH GRAY SILTY SAND (SM), most, medium dense, fine to medium, little fines, trace subrounded gravel up to 1 inch diameter  1.6 BROWNISH GRAY SILTY SAND (SM), most, medium dense, fine to medium, little fines, trace subrounded gravel up to 0.5 inch diameter  1.5 BROWNISH GRAY SILTY SAND (SM), most, medium dense, fine to medium, little fines, trace subrounded gravel up to 0.5 inch diameter  1.6 BROWNISH GRAY SILTY SAND (SM), wet, fine to course, trace fines, little fine to medium gravel up to 0.5 inch diameter  1.6 BROWNISH GRAY SILTY SAND (SM), wet, fine to course, trace fines, little fine to medium, trace coarse sand, trace fines, some fine subrounded gravel	Well Co	ompletion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
D.2 B.226-6 18		Concrete					0 - 2-	<u>/_\</u> /_	f
BBLUISH GRAY SILTY SAND (SM), moist, medium dense, fine to medium, little fines, trace subrounded gravel up to 1 inch diameter  12   BBLUISH GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, medium dense, fine to medium, some fines, little subrounded gravel up to 0.75 inch diameter, orange mettling  355.7			0.2	B 226 6	18	Y	4-		BROWNISH GRAY SILTY SAND (SM), moist, medium dense, fine to medium, trace — coarse sand, some fines, trace subrounded gravel up to 0.5 inch diameter
Bentonite  1.4  B-226-11  12  BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, medium dense, fine to medium, little fines, trace subrounded gravel up to 1 inch diameter  BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, medium dense, fine to medium, some fines, little subrounded gravel up to 0.75 inch diameter, orange motiting  Bentonite  Bentonite  15.5  B-228-21  BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, medium dense, fine to medium, some fines, little subrounded gravel up to 0.75 inch diameter, orange of the feet: soil Color-Tec reading 1.0 mg/kg  BROWNIS AND WITH GRAVEL (SP), wet, fine to course, trace fines, little fine to medium gravel up to 0.5 inch diameter  15.8  B-226-31.5  BROWNIS AND WITH GRAVEL (SP), wet, fine to course, trace fines, little fine to medium gravel up to 0.5 inch diameter  24  BROWNIS AND WITH GRAVEL (SP), wet, fine to course, trace fines, little fine to medium gravel up to 0.5 inch diameter  28  30  30  30  30  30  30  30  30  30  3				B-220-0			8-		- - -
Bentonite	-		1.4	B-226-11	12	X			BLUISH GRAY SILTY SAND (SM), moist, medium dense, fine to medium, little fines, trace subrounded gravel up to 1 inch diameter
Bentonite  15.5  B-226-21  B-226-21  B-226-31.5  B-226-31.5  B-226-31.5  B-226-31.5  B-26-31.5  B-2							14		fine to medium, some fines, little subrounded gravel up to 0.75 inch diameter, orange
B-226-21  18    B-226-21   18     @ 20-21 feet: 2 inch lens of SANDY SILT (ML), moist, little sand	-		355.7	B-920-35	18	X		-	@ 16 feet: soil Color-Tec reading 1.0 mg/kg
BROWN SAND WITH GRAVEL (SP), wet, fine to course, trace fines, little fine to medium gravel up to 0.5 inch diameter  28 - 28 - 30 - 30 - 32 - 31.5 feet: soil Color-Tec reading 0.9 mg/kg  31 - 32 - 33 - 34 - 34 - 34 - 34 - 34 - 34	-	Bentonite	15.5	B-226-21	18	X	20 —		@ 20 feet: wet @ 20-21 feet: 2 inch lens of SANDY SILT (ML), moist, little sand
B-226-31.5  B-226-	-						,-		
B-226-31.5  B-226-	-				18	X	26 —	- 0.00	- -
B-226-31.5  B-226-31.5  @ 31.5 feet: soil Color-Tec reading 0.9 mg/kg  @ 35 feet: sampler broke, no recovery  GRAY SILTY SAND (SM), wet, fine to medium, trace coarse sand, trace fines, some fine subrounded gravel	-					•			- - -
@ 35 feet: sampler broke, no recovery  GRAY SILTY SAND (SM), wet, fine to medium, trace coarse sand, trace fines, some fine subrounded gravel	-		15.8	B-226-31.5	18		32 —		
□ 38 □ 11 subrounded gravel					0	X			@ 35 feet: sampler broke, no recovery
2.4 B-226-40 18 1 @ 40 feet: soil Color-Tec reading 0.9 mg/kg	-		2.4	B-226-40	18	Y	38 —		

Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring:

8.25 Inches Drill Date: 11/28/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



			Sample Recovery (in)				
			over	ls va	<del></del>		
	(Мас		e Rec	e Inte	(Fee	ic Log	
Well Completion	PID (PPM)	Sample ID	ampl	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
			v	S	_	U	
_					-		Bottom of Boring at 40 feet bgs. Boring backfilled with bentonite.
_					42 —		-
_					-		
_					44 —		-
_					-		-
					46 —		_
_					40		
					48 —		
					50 —		_
_					_		
_					52 —		_
_					_		
					54		
_					-		
<u> </u>					56 —		_
_					-		
_					58 —		_
_					-		-
					60 —		_
_					-		-
_					62 —		_
_					-		,
_					64 —		-
_					-		-
					66 —		_
					68 —		
_					70 —		_
_					_		_
_					72 —		_
_					-		
_					74 —		_
_					_		_
_					76 —		_
_					-		-
_					78 —		_
_					-		-
					80		

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA

Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring: 8.25 Inches

Drill Date: 11/28/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger

	Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
_	Concre	ete				0 -	7.72	Concrete (6 inches)  BROWN SILTY SAND (SM), moist, loose to medium dense, fine to medium, little fines,
-						2-		few subrounded gravel up to 0.5 inch diameter
-								_
						4-		
-		0.0	B-227-6	18	X	6-		_
-								-
						8-		
						10 —		
-		1.2	B-227-11	18	X			@ 11.5 feet: gray
$\vdash$						12 —		
						14		
-								BROWN SILTY SAND (SM), wet, medium dense, fine to medium, some fines, trace subrounded gravel up to 0.75 inch diameter
-		16.3	B-227-16	18	X	16 —		_
-						-		-
						18 —		
	Bentor	nite				20 —		
-		66.2	B-227-21	18	X	,		@ 21 feet: soil Color-Tec reading 0.9 mg/kg
-						22 —		
L						24 —		BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), wet, medium dense, fine to
-						24		course, little fines, little gravel up to 0.25 inch diameter, orange mottling
_		31.7	B-227-26	18	X	26 —		@ 26 feet: soil Color-Tec reading 0.9 mg/kg
-						-		-
						28 —		
						30 —	-	BROWN SAND (SP), wet, dense, fine to course, trace fines, trace subrounded gravel up to 1 inch diameter
-		71.8	B-227-31	18	X	_		@ 31 feet: soil Color-Tec reading 6.05 mg/kg
H						32 —	-	7
						31 —		
-								BROWN SILTY SAND (SM), wet, dense, fine to medium, some gravel
		6.7	B-227-36	12	X	36 —		-
+						1-		-
						38 —		
L.		5.1		<u> </u>	<u> </u>	40		@ 39.5 feet: orange mottling

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring:

8.25 Inches Drill Date: 11/28/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



			- 500						
					Sample Recovery (in)				
					cover	Sample Interval	et)	bc B	
			PID (PPM)	Sample	ole Re	ple In	Depth (Feet)	Graphic Log	
	Well Con	mpletion	PD	ID	Samp	Sam	Dep	Grap	Lithologic Description
		Bentonite			12	X			@ 40.5 feet: soil Color-Tec reading 0.11 mg/kg
							42 —		Bottom of Boring at 41 feet bgs
_							-		Boring backfilled with bentonite.
_							44 —		-
-							-		
-							46 —		-
-							-		
							48 —		-
							50 —		
							-		
							52 —		-
-							-		,
							54		
-							-		,
							56 —		-
							58 —		_
							-		,
_							60 —		-
-							-		
-							62 —		-
-							-		'
							64 —		-
							66 —		
_							-		
_							68 —		-
-							-		
-							70 —		-
-							-		,
							72 —		-
							71 —	]	_
_									
							76 —		_
-							-		
							78 —		-
-							80		
						_	1 00		

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA Project INUI....
Site Location: Seat By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring: 8.25 Inches

Drill Date: 11/28/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger

	Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	
	Concrete					0 -	Concrete (6 inches)
L						2-	BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to medium (FILL)
_						-	
_						4-	BECAMA SULTY SAND (SM) maint madium dance fine to madium little fines trace
-						-	
-		0.1	B-228-6	15		6-	-
-						-	<u> </u>
-						8-	<u>-  ;  ;  </u>
-						-	1:1:1
		22	D 220 44	40	V	10 —	
<u> </u>		2.3 2.7	B-228-11	18		-	0 11 feet: bluish-gray 0 11.5 feet: sewer-like odor
						12 —	<u>-[],[],[]</u>
						-	GRAY SILTY SAND WITH GRAVEL (SM), with lenses of BROWN SAND (SP), moist to
						14	wet, medium dense, fine to medium, trace coarse sand, some fines, little gravel, orange mottling throughout, soil-like odor
Ĺ		362.7	B-228-16	18	Y	16.	- 1-1-1 motting throughout, soil-like odor
		422.7	B-921-22			10-	@ 16 feet: soil Color-Tec reading 0.9 mg/kg
			(dup)			18 —	
						_	
_	Bentonite					20 —	
L	20.nonne	141.1	B-228-21	18	X	_	BROWN SILTY SAND (SM), medium dense, fine to medium, trace coarse sand, some fines, trace subrounded gravel up to 0.5 inch diameter
L						22 —	@ 21 feet: soil Color-Tec reading 0.9 mg/kg
L						-	<u> </u>
_						24 —	BROWN SAND(SP), wet, medium dense, fine to coarse, trace fines, few subrounded
-						-	gravel up to 0.25 inch diameter  @ 26 feet: soil Color-Tec reading 0.9 mg/kg
_		110.7	B-228-26	18	X	26 —	::::: @ 26 feet; soil Color-1 ec reading 0.9 mg/kg
-						-	1888
_						28 —	-
-						-	
-					V	30 —	
-		20.2	B-228-31	18	À	-	BROWN SILTY SAND (SM), medium dense, fine to medium, trace coarse sand, some fines, trace subrounded gravel up to 0.5 inch diameter
						32 —	<b>1111</b>
<u> </u>						-	GRAY SAND WITH SILT (SP), wet, medium dense, fine to medium, few fines, trace
						34 —	
			B-228-36	18	Y	-	
		3.2	D-220-30	10		36 —	
						38 —	GRAY SILTY SAND (SM), wet, medium dense, fine to medium, some fines, trace
		1.2				40	
			•				

Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 41.5 Diameter of Boring: 8.25 Inches

Drill Date: 11/29/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



	-						
			Sample Recovery (in)				
	€		эсоле	Sample Interval	eet)	бо	
	PID (PPM)	Sample	ple R	nple In	Depth (Feet)	Graphic Log	
Well Completion	님	ID	Sam	San	8	Q Gra	Lithologic Description
Bentonite			18	X	-		@ 41 feet: soil Color-Tec reading <0.003 mg/kg
					42 —		Bottom of Boring at 41.5 feet bgs.  Boring backfilled with bentonite grout.
-					-		Borning Backlined Will Bernorine grout.
					44 —		-
					46 —		_
_					-		
_					48 —		-
-					-		
					50 —		-
					52 —		_
_					-		
					54		
-					-		
					56 —		-
					58 —		_
_					-		
_					60 —		-
-					-		
					62 —		-
					64 —		_
_					-		
_					66 —		_
-					-		
					68 —		-
					70 —		_
_					-		
_					72 —		-
-					-		
					71 —		-
					76 —		
_					-		
_					78 —		-
-					-		
	1				80	<u> </u>	

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA

Project INUI....
Site Location: Seat By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 41.5 Diameter of Boring: 8.25 Inches

Drill Date: 11/29/17 Drilled By: Cascade Cascade Drilling Drill Method: Hollow Stem Auger



Well Co	ompletion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description	
	Concrete					0_		Concrete (12 inches)	
-						2— - 4—		DARK GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, loose, fine to coarse, litt fines, little subrounded to subangular gravel up to 1 inch diameter, debris (bricks, wood, peat) (FILL)	
- /////////////////////////////////////		0.6	B-229-6	18	X	6—			_
-		0.6				8— -			
- <i>////////////////////////////////////</i>			B-229-11	18	Y	10 —		@ 10.5 feet: black, no sheen, debris (wood, glass, bricks) (FILL)	
-		0.6				12 —			_
-		01				14 -		DARK GRAY SILTY SAND WITH GRAVEL (SM), wet, medium dense, fine to medium, little fines, little subrounded gravel up to 1 inch diamater, orange mottling	-
- /////////////////////////////////////		0.2	B-229-16	18	À	16 —			
- - -						18 —			ı l ı
- <b>///</b>	Bentonite	3.8		18	X	20 —		GRAYISH BROWN SILTY SAND (SM), wet, medium dense, fine to medium, some finest trace subrounded gravel up to 0.5 inch diamter, SAND (SP) lenses (1 inch thick)	s, -
-		0.5				22 — -		throughout, fine to coarse, orange mottling.	ī
-		32.9	B-229-25	18	Y	24 —		GRAYISH BROWN SILTY SAND WITH GRAVEL (SM), wet, medium dense, fine to medium, trace coarse sand, little fines, little subrounded gravel up to 1 inch diameter	-
-		31.2				26 —		@ 25 feet: soil Color-Tec reading 0.861 mg/kg	1
-						30 —		BROWNISH GRAY SAND WITH SILT (SP), wet, medium dense, few fines, trace fine subrounded gravel.	_
- /////////////////////////////////////		150.5	B-229-31	18	X	_		@ 31 feet: soil Color-Tec reading 0.9 mg/kg	3-
-						32 —		CDAY CAND WITH CDAY (CD) and marking days for a fine	
-		112.1	B-229-36	18	X	36 —		GRAY SAND WITH GRAVEL (SP), wet, medium dense, trace fines, little subrounded gravel up to 0.5 inch diameter.	-
- -						38 —		GRAY SILTY SAND (SM), wet, medium dense, fine to medium, some fines, few gravel	_
						40			

Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 45.5 Diameter of Boring: 8.25 Inches

Drill Date: 11/29/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



		200							
	Well Cor	mpletion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
			48.8	B-229-41	12	Y			@ 40 feet: soil Color-Tec reading 0.9 mg/kg
			40.0	D-225-41	12		-	'	@ 40 leet. Soil Color-Tec reading 0.9 mg/kg
							42 —	1	DARK GRAY SAND WITH SILT (SP), wet, very dense, fine to medium, few fines
		Bentonite					44 —		
				B-229-45			44 —		
L			798.6		5	X	46 —	30000 1	Bottom of Boring at 45.5 feet bgs.
							-	] ]	Bottom of Boring at 45.5 feet bgs.  Boring backfilled with bentonite grout.
							48 —		_
							_		_
L							50 —		_
_							_		-
							52 —		_
F							-		-
							54		
-							-		-
-							56 <b>—</b>		-
-							-		-
-							58 —		
-							-		
							60 —		_
-							-		-
r							62 —		
							-		
							64 —		
							-		
							66 —		
Ĺ							68 —		
							_		
							70 —		_
_							-		-
							72 —		-
_							-		-
-							74 —		_
-							-		-
							76 —		
+							-		-
H							78 —		-
+							-		-
$\Box$							80		

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 45.5 Diameter of Boring: 8.25 Inches

Drill Date: 11/29/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



Well Co	mpletion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	Concrete					0	/_\/_	Concrete (6 inches)
						2-		BROWN SAND WITH SILT (SP), moist, medium dense, fine to medium few fines, trace subrounded gravel up to 0.5 inch diameter, trace fill material (metal, plastic) (FILL)
						_		
						4-		
		0.0 56.5	B-230-6	12	X	6-	-	
						-		
						8-	-	
						-	-	
						10 —	-	
		16.6	B-230-11	18	Ă	-		GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, medium dense, fine to medium little fines, few subrounded gravel up to 0.5 inch diameter
						12 —		
						-		
						14		
			B-230-16	18	Y	-		@ 15.5 feet: wet, sulfur-like odor
		1220	B-230-10	10		16 —		
						40		
						18 —	1::::	
	— D					20 —		
	Bentonite		B-230-21	12	Y			BROWN SILTY SAND WITH GRAVEL (SM), wet, dense, fine to medium, some fines, little subrounded gravel up to 1.5 inch diameter, odorless. ORANGE SAND (SP) lenses
		2224	B-922-15 (dup)			22 —		(~0.75 inch thick) throughout
			(чир)			-		
						24 —		
		4026	B-230-26	18	X	26 —		@ 26 feet: sulfur-like odor, medium dense
						-		
						28 —		BROWNISH GRAY SAND WITH SILT (SP), wet, dense, fine to medium, few fines
						-		(2.7), (3.7)
						30 —		
		291.5	B-230-31	18	Å	-		
						32 —		
						-		
			B-230-35			34 —		0.05
		1040	D-23U-33	6	X	-		@ 35 feet: very dense
		1040				36 —		
						-		
						38 —		
						40		BROWN SILTY SAND (SM), wet, very dense, fine to medium, some fines, trace gravel

Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 55.5 Diameter of Boring: 8.25 Inches

Drill Date: 11/30/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger

			n) (n)				
Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	104.1		4	×		Ŭ	
- - -					42 —		_ 
-	112.1		6	×	44 —		GRAY SILTY SAND WITH GRAVEL (SM), wet, very dense, fine to medium, trace coarse sand, some fines, little gravel
Bentonite					48 —		_
- -	355.7	B-230-55	6	×	50 —		GRAY SILTY SAND (SM), wet, very dense, fine to medium, some fines, trace fine subrounded gravel
-  -  -					52 — - 54		- - -
- <i>     </i>    -	149.9		6	×	56 —		GRAY SILTY SAND (SM), wet, very dense, fine to medium, trace coarse sand, some fines
					58 —		Bottom of Boring at 55.5 feet bgs.  Boring backfilled with bentonite grout.
-					60 —		-
_					62 — - 64 —		
-					66 —		-
-					68 —		
-					70 —		
-  -  -					72 — - 71 —		_
_					76 —		-
_					78 —		
					80		

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 55.5 Diameter of Boring: 8.25 Inches

Drill Date: 11/30/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Conc	rete				0 - 2- -		Concrete (6 inches)  BROWN SAND WITH SILT (SP), moist, loose, fine to medium, few fines, trace fill material.
-	0.8	B-231-6	18	X	6-		@ 6 feet: medium dense
- - -	2.1	B-231-11	12	X	- 10 — -		BROWNISH GRAY SILTY SAND (SM), moist, loose, fine to medium, trace coarse sand, little fines, trace subrounded gravel up to 1 inch diameter
- - -	37.7 88.9	B-231-16	18	X	14 - 16 —		@ 15 feet: orange mottling, medium dense
Bento	onite 4.3	B-231-21	18	X	18 — - 20 — - 22 —		GRAY SILTY SAND (SM), wet, medium dense, fine to medium, some fines, few subrounded gravel up to 1 inch diameter, orange mottling
- - - -	26	B-231-26	12	X	24 —		- - -
- - -	2.6	B-231-30			28 —		GRAY SAND WITH GRAVEL (SP), wet, very dense, fine to medium, trace fines, little finesubroundrounded gravel up to 0.5 inch diameter
- - -	0.6		6	X	32 — - 34 —		GRAY SILTY SAND WITH GRAVEL (SM), wet, very dense, fine to medium, some fines, little subrounded gravel up to 1.5 inch diameter, lenses of fines with medium plasticity
- - -	40.1	B-231-36	6	*	36 — - 38 —		-  
-	18.6				40		-

Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 40.5 Diameter of Boring: 8.25 Inches

Drill Date: 11/30/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



								2 01 2
			(n) Y					
	€		Sample Recovery (in)	Sample Interval	eet)	Бo		
	PID (PPM)	Sample	ple R	lple In	Depth (Feet)	ohic L		
Well Completion	문	ID	Sam		<u></u>	Graphic Log	Lithologic Description	
Bentonite			6	×	_		Bottom of Boring at 40.5 feet bgs. Boring backfilled with bentonite grout.	-
_					42 —		Boring backfilled with bentonite grout.	-
_					×=			-
_					44 —			_
-					-			-
					46 —			_
					48 —			_
_					_			=
_					50 —			_
_					-			-
					52 —			-
_					54			-
_					-			
_					56 —			_
_					-			-
_					58 —			_
_					-			-
					60 —			_
					62 —			_
_					-			-
_					64 —			-
_					-			-
_					66 —	ľ		·
					68 —			_
_					-			-
_					70 —			-
-					-			-
					72 —			3-
					74			-
					71 —			_
_					76 —			_
_					-			-
-					78 —			_
-					80			-
	1	<u> </u>			i du	ı	I.	

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA Project INUI....
Site Location: Seat By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 40.5 Diameter of Boring: 8.25 Inches

Drill Date: 11/30/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



Well Co	ompletion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	Concrete					0 -	/ \ /	FILL (brick, gravel, concrete, debris) (12 inches)
- -						2-	-	BLACK SILTY SAND (SM), moist to wet, very loose, fine to coarse, little fines, trace subangular gravel up to 1 inch diameter, little fill debris (brick, wood, metal, concrete, glass)
- -		0.1	B-232-6	12	X	6— - 8—		
- - -		0.6	B-232-11	18	X	10 — - 12 —		BLACK SILTY SAND WITH GRAVEL (SM), wet, loose, fine to coarse, little fines, little subrounded to subangular gravel up to 1 inch diameter, some fill debris (glass, wood, brick) (FILL)
-		0.0	B-232-16	18	X	14 - 16 —		GRAY SILTY SAND WITH GRAVEL (SM), wet, dense, fine to coarse, little fines, little gravel, orange mottling, trace wood debris (FILL?)  -
-	Bentonite	4.7	B-232-21	18	Y	18 —		GRAY SILTY SAND WITH GRAVEL (SM), wet, dense, fine to medium, trace coarse sand, little fines, little fine subrounded gravel up to 0.5 inch diameter, odorless; up to 1
- -		5.3	D-232-21			22 — - 24 —		inch thick lenses of SAND (SP) throughout, medium, orange mottling
- - -		20.1 18.9	B-232-26	18	X	26 — - 28 —	-	@ 26 feet: occasional lenses of SILT (ML), 1 inch thick
- - -		4.3	B-232-31	18	X	30 —		GRAY SILTY SAND (SM), wet, dense, fine to medium, little fines, trace subrounded gravel up to 2 inch diameter, orange mottling
-		12.1	B-232-36	12	X	34 —		GRAY SAND WITH SILT (SP), wet, very dense, fine to medium, few fines
- - -			2 202 00			38 —	-	GRAY SILTY SAND (SM), wet, very dense, fine to medium, little fines, little subrounded — gravel up to 1 inch diameter
		20.1		6	X	40	1.1.1.	

Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring:

8.25 Inches Drill Date: 12/01/17 Cascade Drilling Drilled By: Hollow Stem Auger Drill Method:



•							
			Sample Recovery (in)				
			cover	Sample Interval	et)	50	
	PID (PPM)	0	le Re	le Int	Depth (Feet)	Graphic Log	
Well Completion	PID (	Sample ID	samp	Samp	Dept	Graph	Lithologic Description
			0)	"			Bottom of Boring at 40 feet bgs. Boring backfilled with bentonite grout.
_					-		Boring backfilled with bentonite grout.
					42 —		-
_					_		
					44 —		_
_					46 —		_
_					-		
_					48 —		_
_					_		_
_					50 —		
_					-		_
_					52 —		_
-					-		-
					54		
-					-	:	-
<u> </u>					56 —		_
_					-		-
_					58 —		_
_					-		-
					60 —		-
=					-		-
_					62 —		
_					64 —		_
=					_		_
_					66 —		
_					-		_
_					68 —		_
_					-		-
_					70 <b>—</b>		_
_					-		-
_					72 —		_
_					-		-
_					74 —		_
_					-		-
_					76 —		_
=					=		
<del>_</del>					78 —		
_					80		-
				_			

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 40
Diameter of Boring: 8.25 Inches

Drill Date: 12/01/17
Drilled By: Cascade Drilling
Drill Method: Hollow Stem Auger

n (Wdd) Old	Sample ID	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
crete				0 -	/ /	Concrete (12 inches)
				2-		BROWN SILTY SAND (SM), molst, loose, fine to medium, little fines, trace subrounded gravel up to 0.5-inch diameter, few fill material, (FILL)
				4-		
0.4	B-233-6	18	X	6-		
				8-		DARK GRAY SILTY SAND (SM), moist, loose, fine to medium, little fines, trace gravel, fil material (wood) (FILL)
		12	V	10 —	_  . [ . [ . [	-
0.7	B-233-11	12		12 —		-
				14		GRAYISH BROWN SILTY SAND WITH GRAVEL (SM), wet, medium dense, fine to
			_			coarse, little fines, little subrounded gravel up to 1-inch diameter
0.6	B-233-16	18	À	16 —		
				18 —		
tonite				20 —		
96.6	B-233-21	18	Ă	22 —		
						BROWNISH GRAY SILTY SAND (SM), wet, medium dense, fine to coarse, little fines, trace gravel, orange mottling
				24 —		
163.	7 B-233-26	18	X	26 —		@ 26 feet: soil Color-Tec reading 4.4 mg/kg
				28 —		,
				30 —		
88.7	B-233-31	18	X			@ 30 feet: some fines, no mottling
				32 —		
				34 —		BROWN SAND WITH SILT (SP), wet, medium dense, fine to medium, few fines, trace fine subrounded gravel
96.2	B-233-36	18	X	36 —		
				38 —		DARK GRAY SAND (SP), wet, medium dense, fine to medium, trace coarse sand, trace fines
	0.4 0.7 0.6 tonite 96.6	0.4 B-233-6  0.7 B-233-11  0.6 B-233-16  163.7 B-233-26  88.7 B-233-31	O.4 B-233-6 18 O.7 B-233-11 12 O.6 B-233-16 18 O.7 B-233-21 18 O.8 B-233-21 18	O.4 B-233-6 18 A   O.7 B-233-11 12 A   O.6 B-233-16 18 A   O.6 B-233-21 18 A   O.7 B-233-26 18 A   O.8 B-233-21 18 A   O.8 B-233-21 18 A   O.8 B-233-31 18 A   O.8 C   O.8 C	O.4 B-233-6 18	O.4 B-233-6 18

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 41.5
Diameter of Boring: 8.25 Inches

Drill Date: 12/01/17
Drilled By: Cascade Drilling
Drill Method: Hollow Stem Auger



	3								2 01 2
				y (in)					
		6		Sample Recovery (in)	Sample Interval	et)	бс		
		PID (PPM)	Sample	ple Re	n eld	Depth (Feet)	Graphic Log		
L	Well Completion	문	ID	Sam	Sam	8		Lithologic Description	
L	Bentonite	93.6	B-233-41	18	X	-		@ 41.5 feet: soil Color-Tec reading 7.5 mg/kg	-
L	V22222					42 —		Bottom of Boring at 41.5 feet bgs. Boring backfilled with bentonite grout.	-
-						-		Borning backlined with bentonite grout.	=
_						44 —			-
Ĺ						46 —			_
_						-			-
L						48 —	-		
-						-			-
H						50 —	1		
L						52 —			_
_						-			_
						54			
-						-			-
Г						56 —	1		-
L						58 —			_
_						-			=
L						60 —			-
-						-			-
Г						62 —			_
L						64 —			_
-						-			_
_						66 —			_
-						-			-
						68 —			-
Ĺ						70 —			_
_									-
L						72 —	-		-
F						-	-		-
						71 —			_
L						76 —			_
L						-			-
-						78 —	-		-
F						-			-
_			l	L		80			

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA Project Iva..... Site Location: Sea Food By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 41.5 Diameter of Boring: 8.25 Inches

Drill Date: 12/01/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger

Well Completion	OIO (MAH)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Concre	ete		0)	0,	0	ń.h.	Concrete (6 inches)
					2-		BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), moist, fine to medium, little fines, little subrounded gravel up to 1-inch diameter, trace fille material (black debris), orange mottling, (FILL)
-	0.0	B-234-6	18	Y	6-		_
-		000 10 00000000 400			- 8—		_ _
-				•	10 —		BROWN SAND WITH SILT (SP), wet, very dense, fine to medium, few fines, trace subrounded fine gravel (FILL)
	0.1	B-234-11	18		- 12 —		- -
-		B-234-15	6	×	14		BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), moist, very dense, fine to medium, little fines, little subrounded gravel up to 0.5-inch diameter, orange mottling
-	0.2	B-254-16	_		16 —		-
- P					18 —		
Benton	0.6	B-234-20	5	×	22 —		@ 20 feet: no mottling
-					24 —		BROWNISH GRAY SILTY SAND (SM), wet, very dense, fine to coarse, little fines, trace subrounded to subangular gravel up to 0.5-inch diameter
-	0.4	B-234-25	5	×	26 —		- -
					28 —		
	1.1	B-234-30	5	×	30 — -		@ 30 feet: dark gray, moist to wet, fine to medium
-					32 —		  -  -
-			5	×	31 —		@ 35 feet: no recovery, driller noted gravel
					36 —		Bottom of Boring at 37 feet bgs (Refusal).  Boring backfilled with bentonite grout.
-					-		
					40		

Project Iva.....
Site Location: Sea
Food By: KWS

Ecology Well Tag: 140 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring:

8.25 Inches Drill Date: 12/04/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger

	Well Con	poletion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
_	/_\'_ <b>-</b> \'		ш	10	ιχ	ιÿ	0		
	Tillin.	Concrete					0	/\	Concrete (6 inches)
Γ							_	1	Note: see log for B-234 for lithology
-							2-		_
_							-		-
							4-		_
-							-		-
_							6—		_
Г							_	ĺ	-
H							8—		_
-							_		_
							40		
							10 —		_
-							-		-
_							12 —		_
L							_		_
							14		
-							-		-
L							16 —		_
							10		
-							-		-
_							18 —		-
L							_		_
		Bentonite					20 —		_
H							-		-
							22 —		_
L									
_							24 —		_
F							_		-
							26 —		<u>_</u>
							20		
F							-		-
H							28 —		_
							_		_
							30 —		_
H							_		-
							32 —		_
							10.00		
							-		-
$\vdash$							34 —		_
L			,	D 00 11 05	_	×	_	W - 1 - 1 - 1 - 1 - 1	  -===================================
L			0.4	B-234A-35	3		36 —		GRAY SILTY SAND (SM), moist, very dense, fine to medium, little fines
							36 -		_
H							-		-
L							зв —		_
L							_		_
							40		
	11/1//					_	, -10	atet tel	

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA

KWS

Ecology Well Tag: 140 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring: 8.25 Inches

Drill Date: 12/04/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



Lingi		C LIIVIIOI		1641	0011	1000	2012
Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
\///\/\	0.0	B-234A-40	ຶ່ 5	S		0	@ 40 feet: trace gravel
- Bentoni	44.7	B-234A-42 B-924-30	6	×	- 42 —		GRAY SILTY SAND (SM), moist to wet, very dense, fine grained, trace medium sand, some fines  @ 42 feet: soil Color-Tec reading 0.9 mg/kg
	11.8	В-924-30 В-234А-45	6	×	44 —		GRAY SILTY SAND (SM), wet, very dense, fine to medium, little fines @ 45 feet: soil Color-Tec reading 0.145 mg/kg
_ /////	11.8	B-234A-45	0		-	11.1.	Bottom of Boring at 45 feet bgs. Boring backfilled with bentonite grout.
					46 —		Boring backfilled with bentonite grout.
					48 —		_
					40		
					50 —	_	_
_					-		
_					52 —		_
-					-		
					54		
-					-		,
					56 —		_
					58 —		_
					-		
					60 —		_
_					=		,
_					62 —		_
					-	1	,
_					64 —		-
_					-		
					66 —	1	_
					68 —		
					_ 00 _		
					70 —		_
-					:=		
<u> </u>					72 —	-	_
-					-		
_					74 —		-
-					-		
					76 —		
					-		
					78 —		
					80		

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA

Project Iva.....
Site Location: Sea
Food By: KWS

Ecology Well Tag: 140 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring: 8.25 Inches

Drill Date: 12/04/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Doluge Description
Concrete					0 2- - 4-	Concrete (6 inches)  BROWN SILTY SAND WITH GRAVEL (SM), moist, medium dense, fine to coarse, little fines, little subrounded gravel up to 1-inch diameter, trace fill material
- - -	0.2	B-235-6	18	X	6— 8—	
- -	0.3		2	X	10 —	@ 10 feet: not enough recovery for sample
- - -	1.1	B-235-15	12	X	14 16 —	BROWN SILTY SAND WITH GRAVEL (SM), moist to wet, very dense, fine to medium, little fines, little subrounded gravel up to 0.5-inch diameter
Bentonite	1.0		2	X	- 20 — - 22 —	@ 20 feet: not enough recovery for sample
- - - -	1.2	B-235-25	4	X	24 — 26 — 28 —	GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, fine to medium, little fines, little subrounded gravel up to 1.5-inch diameter
- - -	1.2	B-235-30	6	X	30 — - 32 —	@ 30 feet: wet
- - - -	0.1	B-235-35	5	X	34 — 36 — 38 —	GRAY GRAVEL WITH SAND (GP), wet, very dense, subrounded gravel up to 1.5-inch diameter, some fine to coarse sand, few fines

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA Project Iva.....
Site Location: Sea
Food By: KWS

Ecology Well Tag: 140 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring: 45.5 8.25 Inches Drill Date: 12/04/17-12/05/17 Drilled By: Cascade Drilling Drill Method: Hollow Stem Auger



Lingini	ooring	G Ellviloi		icai	0011	1000	2 01 2
Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
/////	6.1	B-235-40	ග <u>ී</u>	S		0	
				Å		1111	GRAY SILTY SAND WITH GRAVEL (SM), wet, very dense, fine to medium, little subrounded gravel up to 1-inch diameter, little fines
Bentonite	136.4	B-235-42.5	5		42 —		GRAY SILTY SAND (SM), wet, very dense, fine grained, trace medium and coarse sand, little fines
					44 —		GRAY SILTY SAND (SM), wet, very dense, fine to medium, little fines, trace subrounded gravel up to 1-inch diameter
	73.3	B-235-45	5		46 —	111111	Bottom of Boring at 45.5 feet bgs Boring backfilled with bentonite grout.
						1	-
					48 —		
					50 —		_
_						-	-
					52 —	-	-
						-	-
					54		
					56 —		
_							-
_					58 —		<u>.</u>
-					-	1	-
					60 —	1	_
					60		-
					62 —		
					64 —		_
-						-	-
					66 —	1	_
						1	-
					68 –	]	_
					70 —	1	_
_							-
_					72 —		_
-						1	-
					71 —	1	_
					76 –	]	-
					, 6 –	1	_
_					78 —		_
_							-
					80		

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA

Project Iva.....
Site Location: Sea
Food By: KWS

Ecology Well Tag: 140 lbs. Hammer w/ D&M

Total Drilled Depth: 45.5 8.25 Inches Diameter of Boring: Drill Date: 12/04/17-12/05/17 Drilled By: Cascade Drilling Drill Method: Hollow Stem Auger

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	્રું પુર્વ હું U Lithologic Description	
Concrete					2	Concrete (6 inches)  BROWN SILTY SAND WITH GRAVEL (SM), moist, medium dense, fine to coarse, little subrounded gravel up to 1-inch diameter, trace fill material, logged from cuttings (FILL)	:le
-  -  -			0	*	6—	@ 5 feet: no recovery	
-  -  -  -	0.6	B-236-11	12	X	8— - 10—	BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), moist, medium dense, fine to coarse, some fines, little subrounded gravel up to 0.5-inch diameter	-
					12 — - 14	@ 15 feet: moist to wet	-
-  -  -	0.9	B-236-16	12	•	16 — - 18 —	13 feet. Moist to wet	-
Bentonite	0.6	B-236-20	6	×	20 —	BROWN SILTY SAND (SM), moist to wet, medium dense, fine to coarse, some fines	
- - -	1.3	B-236-25	5	×	24 —	BROWN SILTY SAND WITH GRAVEL (SM) wet, medium dense, fine to medium, little fines, little subrounded gravel up to 0.25-inch diameter	" — — — — — — — — — — — — — — — — — — —
- - -					28 — - - 30 —	GRAY SILTY SAND (SM), wet, medium dense, fine to medium, little fines, trace subrounded gravel up to 0.25-inch diameter	
  -  -	4.1	B-236-30	5	*	32 — -		-
-  -  -	0.8	B-236-35	5	*	34 —	@ 35 feet: moist to wet	-
-					38 — - 40		_

KWS

Ecology Well Tag: 140 lbs. Hammer w/ D&M

Total Drilled Depth: 45.5 Diameter of Boring: 8.25 Inches

Drill Date: 12/05/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



Liigiiii	3011119	G Eliviioi		1641		1000	2 01 2
Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
V////	2.6	B-236-40	<i>σ</i>	<i>o</i>		11:11:	
Bentonite	15K	B-236-42.5	6	×	42 — -		@ 42 feet: sweet odor, soil Color-Tec reading >65 mg/kg
-	330	B-236-45	6	×	44 —		GRAY SILTY SAND WITH GRAVEL (SM), wet, medium dense, fine to medium, little fines, little subrounded gravel up to 1-inch diameter @ 45 feet: soil Color-Tec reading 16 mg/kg  Bottom of Boring at 45.5 feet bgs. Boring backfilled with bentonite grout.
_					48 — - 50 —	-	
- - -					52 —	-	- - -
-					54 - 56 —	-	- -
- -					58 — -	-	
					62 —	-	-
_					64 — - 66 —	-	
					68 —	-	- -
-  -  -					70 — - 72 —	-	
- - -					- 71 — -	_	- - -
-					76 — - 78 —	-	-
_					80		-

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA

Project Iva.....
Site Location: Sea
Food By: KWS

Ecology Well Tag: 140 lbs. Hammer w/ D&M

Total Drilled Depth: 45.5 Diameter of Boring: 8.25 Inches

Drill Date: 12/05/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger

				ery (in)				
		PID (PPM)	Sample	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	
	Well Completion	₫	ID	Sar	Sal		ŏ	Lithologic Description
-	Concret	е				0 -		Concrete (6 inches)  BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to coarse, little fines, little subrounded gravel up to 1-inch diameter, trace fill material, orange mottling (FILL)
F						2-		-
-		0.3	B-237-5	6	×	4-		- -
						6-		
_						8-		BROWNISH GRAY SILTY SAND (SM), wet, medium dense, fine to medium, little fines,
		0.3	B-237-11	12	Y	10 —		trace subrounded gravel up to 0.25-inch diameter
						12 —		_
						14		
F		0.1	B-237-15	6	×	16 —		@ 15 feet: gray
_						18 —		_
_	Bentoni	te 1.0	B-237-20	5	<b>x</b>	20 —	-	PROVAN SILTY SAND WITH GRAVEL (SM) majet to west dance fine to medium little
		1.0	B-237-20			22 —		BROWN SILTY SAND WITH GRAVEL (SM), moist to wet, dense, fine to medium, little fines, little subrounded gravel up to 2-inch diameter
						24 —		BROWN SILTY SAND WITH GRAVEL (SM), moist to wet, dense, fine to medium, little fines, little subrounded gravel up to 1-inch diameter
-		2.1	B-237-25	6	×	-		_
						26 —		-
-						28 —		GRAY SILTY SAND (SM), moist to wet, dense, fine to medium, some fines, trace subrounded gravel up to 0.25-inch diameter, orange mottling
_		0.5	B-237-30	6	X	30 —		
_						32 —	-	
			B 007.05			31 —		_
		0.7	B-237-35	6		36 —		@ 35 feet: no mottling
						38 —		
						40		@ 40 feet: soil Color-Tec reading 0.035 mg/kg

Project Iva.....
Site Location: Sea
Food By: KWS

Ecology Well Tag: 140 lbs. Hammer w/ D&M

Total Drilled Depth: 45.5 Diameter of Boring: 8.25 Inches

Drill Date: 12/06/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



		G Ellviloi				201.	_
Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	อีก วยุ่น เมื่อ Lithologic Description	
	1.6	B-237-40	<i>σ</i>	<i>s</i>		0	
Bentonite	288.1	B-237-42 B-925-41	5	×	42 — -	GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, dense, fine to medium, little fines, little subrounded gravel up to 1-inch diameter  GRAY SAND WITH SILT (SP), wet, dense, fine to medium, few fines	
	15.5	B-237-45	3	×	44 — - 46 —	@ 42 feet: soil Color-Tec reading 50 mg/kg GRAY SILTY SAND (SM), wet, dense, fine to medium, some fines  @ 45 feet: soil Color-Tec reading 0.7 mg/kg	
-					48 —	Bottom of Boring at 40 feet bgs. Boring backfilled with bentonite grout.	-
· - ·					50 —		-
<del>-</del> -					52 — - 54		-
-					56 —		
_					58 — -		
- -					62 —		
-					64 —		
-					66 — -	-	-
-					68 — - 70 —	-	
=					72 —		
-					71 —		·-
 -					76 — - 78 —	-	3
-					80	-	

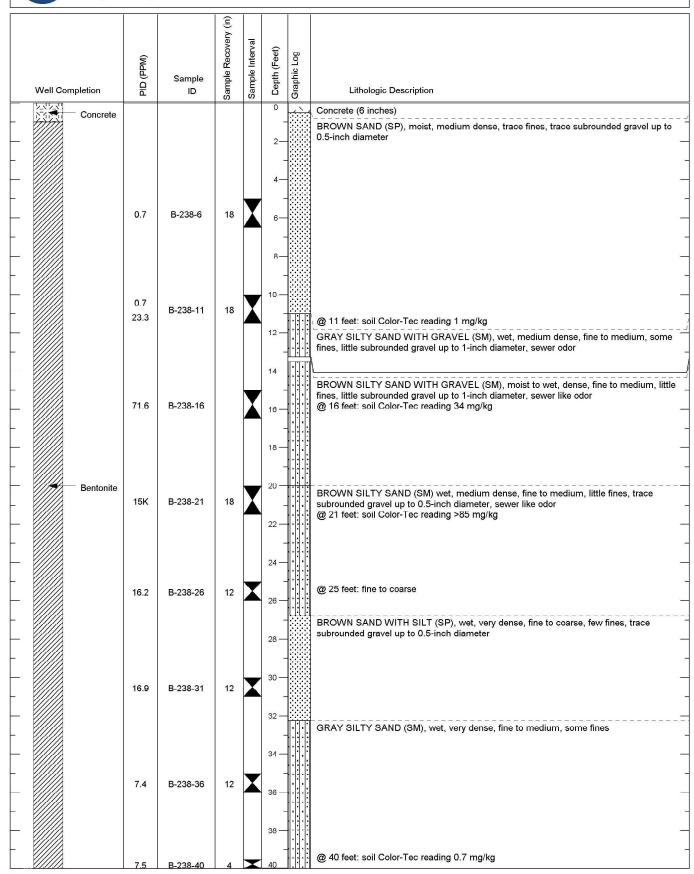
Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA

KWS

Ecology Well Tag: 140 lbs. Hammer w/ D&M

Total Drilled Depth: 45.5 Diameter of Boring: 8.25 Inches

Drill Date: 12/06/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger



Project: Former American Linen Supply Project Number: 1413.001.02.602

Site Location: Seattle, WA Logged By: KWS

Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: 40
Diameter of Boring: 8.25 Inches

Drill Date: 12/06/17
Drilled By: Cascade Drilling
Drill Method: Hollow Stem Auger



•							
			Sample Recovery (in)				
			cover	Sample Interval	et)	50	
	PID (PPM)	0	le Re	le Int	Depth (Feet)	Graphic Log	
Well Completion	PID (	Sample ID	samp	Samp	Dept	Graph	Lithologic Description
			0)	"			Bottom of Boring at 40 feet bgs. Boring backfilled with bentonite grout.
-					-		Boring backfilled with bentonite grout.
					42 —		-
_					_		
					44 —		_
_					46 —		_
_					-		
_					48 —		_
_					_		_
_					50 —		
_					-		_
_					52 —		_
-					-		-
					54		
-					-	:	-
<u> </u>					56 —		_
_					-		-
_					58 —		_
_					-		-
					60 —		-
=					-		-
_					62 —		
_					64 —		_
=					_		_
_					66 —		
_					-		_
_					68 —		_
_					-		-
_					70 <b>—</b>		_
_					-		-
_					72 —		_
_					-		-
_					74 —		_
_					-		-
_					76 —		_
=					=		
<del>_</del>					78 —		
_					80		-
				_			

Project: Former American Linen Supply Project Number: 1413.001.02.602 Site Location: Seattle, WA Project Iva..... Site Location: Sea Food By: KWS

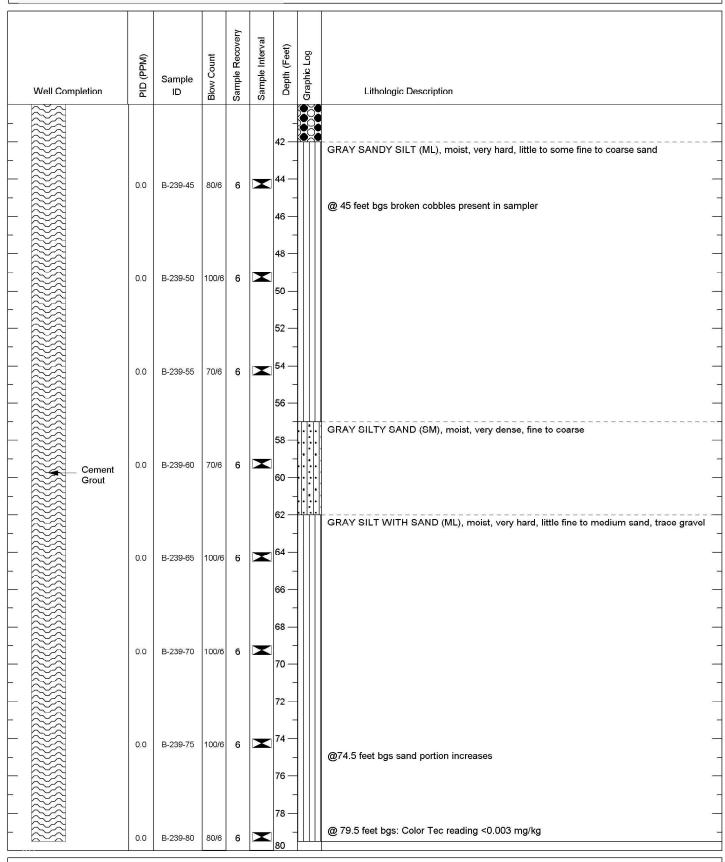
Ecology Well Tag: 300 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring: 8.25 Inches

Drill Date: 12/06/17 Cascade Drilling Drilled By: Drill Method: Hollow Stem Auger

Well Com	pletion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
						1000	0 - 2—		Concrete (6 inches)  BROWN SAND WITH SILT (SP), moist, medium dense, fine to medium with trace coarse sand, few fines
	Concrete	0.1 0.2	B-239-5	16 20 21	12	X	4		- - -
		0.1 0.3 0.1	B-239-10	8 10 11	18	X	8		BROWN SANDY SILT (ML), moist, firm, little to some fine to medium sand, low plasticity, mottling present
		3.4 3.3	B-239-15	19 20 27	10	X	12 — 14 —		BROWN SILTY SAND (SM), moist, medium dense, fine to medium with trace coarse sand, little to some fines
		0.0		19			16 — 18 —		BROWN SAND WITH SILT (SP), moist, medium dense, fine to coarse sand, some gravel, few fines
- ***** - ***** - ****	_ Cement Grout	0.0	B-239-20	20 20	17	X	20 — - 22 — -		BROWN SILTY SAND (SM), moist, very dense, fine to coarse, little to some fines
	Grout	0.1	B-239-25	50/6	6	*	24 — - 26 —		
			B-239-30	50/6	0		28 — - 30 —		
		0.0	B-239-35	39 50/6	4		32 — - 34 —		BROWN SILTY GRAVEL (GP), wet, very dense, fine to coarse gravel, some cobbles, little to some fines, few sand
							36 — - 38 —		
		0.0	B-239-40	70/6	6		40		

Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M Total Drilled Depth: 79.5
Diameter of Boring: 8 Inches
Drill Date: 4/3/18
Drilled By: Cascade Drilling
Drill Method: Hollow Stem Auger



Logged By: DJ Notes: 300 lbs. Hammer w/ D&M Total Drilled Depth: 79.5
Diameter of Boring: 8 Inches
Drill Date: 4/3/18
Drilled By: Cascade Drilling
Drill Method: Hollow Stem Auger



	PID (PPM)	Sample	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	
Well Completion	8	ID.	Blov	Sam	Sarr	De	Grap	Lithologic Description
						_		Bottom of borehole @ 79.5 feet bgs Boring backfilled with Portland Cement Grout
						82 —		
						-		
						84 —		
						86 —		
						_		
						88 —		
						-		
						90 —		
						92 —		
						_		
						94 —		
						-		
						96 —		
						98 —		
						90 —		
					1	100 —		
					,	102 —		
						_		
						104 —		
					,	106 —		
						_		
					,	108 —		
						-		
					,	10 —		
						110		
						112 —		
					,	114 —		
						-		
					,	16 —		
						-		
					,	118 —		
						120	1	

Project: Former American Linen Supply Project Number: 1413.001.02.304

Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M Total Drilled Depth: 79.5
Diameter of Boring: 8 Inches
Drill Date: 4/3/18
Drilled By: Cascade Drilling
Drill Method: Hollow Stem Auger

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
						0 -		Concrete (6 inches)  LIGHT GRAY SILTY SAND (SM), moist, medium dense, fine to coarse, little to some fines
Concrete	0.2	B-240-5	8 11 11	6	X	4—		
	0.7 0.7 1.2	B-240-10	12 18 17	15	X	8— 10 — 12 —		BROWN SANDY SILT (ML), moist, firm, some fine to coarse sand  -
	10.4 16.1 20.6	B-240-15	12 12 13	18	X	14 — 16 —		@ 15 feet bgs: ColorTec reading 15.55 mg/kg
	1.0 2.7 4.3	B-240-20	25 27 30	16	X	18 — 20 —		BROWN SANDY SILT (ML), moist, very hard, some fine to coarse sand, broken cobbles — present
Cement Grout	1.3	B-240-25	37 50/6	6		22 — 24 — - 26 —		
	27.8	B-240-30	50/6	6		28 — - 30 —		BROWN SAND WITH SILT (SP), wet, very dense, fine to medium, some gravel, few fines.
	7.4 9.6	B-240-35	42 50/6	10	X	32 — 34 — - 36 —		
- - - -	0.0		100/6	0	<b>×</b>	38 — - 40		GRAY SILTY SAND (SM), moist, very dense, fine to coarse, little to some fines, broken — cobbles present

Project: Former American Linen Supply Project Number: 1413.001.02.304

Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M

Total Drilled Depth: Diameter of Boring: 8 Inches Drill Date: 4/2/18 Drilled By: Cascade Drilling Drill Method: Hollow Stem Auger

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
- ****	0.1	B-240-42	100/6	6	_	42 —		-
- (************************************	0.1 0.1	B-240-45	100/6 90/6	11	X	44 — 46 —		GRAY SANDY SILT (ML), moist, very hard, some fine to coarse sand
	0.0 0.0	B-240-50	49 50/6	10		48 — 50 —		GRAY SILT WITH SAND (ML), moist, very hard, few to little fine to coarse sand, broken - cobbles present
	0.2	B-240-55	70/6	3	<b>X</b>	52 — 54 — 56 —		GRAY SANDY SILT (ML), wet, very hard, some fine to coarse sand
Cement Grout	0.3	B-240-60	100/6	4	<b>X</b>	58 — 58 — 60 —		-
- (%) - (%) - (%) - (%) - (%)	1.4	B-240-65	100/6	6	*	62 — 64 — 66 —		GRAY SILT WITH SAND (ML), moist, very hard, little fine to medium sand, trace gravel
- ************************************	0.9	B-240-70	100/6	6		68 — 70 —		-
	0.0 0.1	B-240-75	60 100/6	12	X	72 — 74 — 76 —		-
	0.3 0.2	B-240-80	80/6 100/6	10	X	78 — - 80		@ 80 feet bgs: ColorTec reading <0.003 mg/kg

Project: Former American Linen Supply Project Number: 1413.001.02.304 Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M Total Drilled Depth: 80
Diameter of Boring: 8 Inches
Drill Date: 4/2/18
Drilled By: Cascade Drilling
Drill Method: Hollow Stem Auger



	PID (PPM)	Sample	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	
Well Completion	님	ID	Blov	Sarr	San	å	Gra	Lithologic Description
						-		Bottom of borehole @ 80 feet bgs Boring backfilled with Portland Cement Grout
						82 —		
						-		
						84 —		
						86 —		
						_		
						88 —		
						-		
						90 —		
						92 —		
						92 —		
						94 —		
						-		
						96 —		
						-		
						98 —		
						100 —		
						_		
					ă	102 —		
						-		
					ī	104 —		
						_		
					5	106 —		
					2	108 —		
						-		
					8	10 —		
						-		
					É	112 —		
						114		
						114 —		
					i	1 1 16 —		
						_		
						118 —		
			1		1	1	l	

Project: Former American Linen Supply Project Number: 1413.001.02.304 Site Location: Seattle WA

Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M



Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Concrete						2-		Concrete (6 inches)  BROWN-GRAY SILTY SAND (SM), moist, medium dense, fine to medium, some fines, at approximately 5.25 feet bgs is a 2-inch thick lean clay lense containing subrounded gravel—up to 1-inch diameter.
-  -  -	2 13.5 0.4	B-241-5	9 10 11	18	X	4— 6—		
- -	1.3 1.6 0.9	B-241-10	10 11 10	18	X	8— 8—		GRAY SILTY SAND (SM), moist, medium dense, fine to coarse, some fines, mottling @
-  -  -	0.9		10			- 12 — -		9.75 feet bgs.
-	0.6 0.9 0.7	B-241-15	16 15 16	18	X	14 — - 16 —		
-  -	0.8 0.2 4	B-241-20	13 16 16	18	X	18 — - 20 —		
Bentonite						22 — - - 24 —		
-  -  -	0	B-241-25	16 20 23	11	X	26 —		
-	2.1 0.9	B-241-30	23 50/6	10	X	28 — 30 —		GRAY SILTY SAND (SM), moist, medium dense, fine to medium, somes fines  GRAY SILTY SAND WITH GRAVEL (SM) moist, very dense, fine to coarse, some fines, — little fine to coarse subrounded to subangular gravel
-  -  -	2.9		50/6	6	<b>X</b>	32 — - 34 —		GRAY SANDY SILT (ML), moist, very hard, some fine to medium sand
		B-241-35				36 —		- - -
	0.7	B-241-40	50/3	3		38 —		

Project: Former American Linen Supply
Project Number: 1413.001.02.304
Site Location: Seattle, WA
Logged By: RTM & DJ
Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
- - - -	0.9	B-241-45	50/3	4		- 42 — - 44 — - 46 —		GRAY SILTY SAND (SM), moist, very dense, fine to medium, some fines, trace gravel
- - - -	35.5	B-241-50	100/6	6		- 48 — - 50 —		GRAY SILT WITH SAND (ML), moist, very hard, little fine to medium sand –  @ 50 feet: ColorTec reading 11.5 mg/kg
- - -	4.3	B-241-55	100/6	6		52 — 54 — 56 —		GRAY SANDY SILT (ML), moist, very hard, some fine to medium sand -
Bentonite	0.9	B-241-60	100/6	6	×	58 — 60 —		
- - -	32	B-241-65	100/6	6	×	-		@ 64.5 feet: ColorTec reading 0.9 mg/kg
- - - -	0.3	B-241-70	100/6	6		68 — 70 — 72 —		-
- - - -	1.1	B-241-75	100/6	6		74 — 76 —		GRAY SILT WITH SAND (ML), moist, very hard, little fine to coarse sand.
-	0.2	B-241-80	50/6	6	<b>X</b>	78 — - 80		- CION CIET WITH CAND (ME), HOSE, VOLY HARD, HILLE HILL IO COAISE SAIRC.

Project: Former American Linen Supply
Project Number: 1413.001.02.304
Site Location: Seattle, WA
Logged By: RTM & DJ
Notes: 300 lbs. Hammer w/ D&M



Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
				0,	0,		Ш	@ 80.5 feet: ColorTec reading <0.003 mg/kg
						82 —		Bottom of boring at 80.5 ft bgs
						_		Bottom of boring at 80.5 ft bgs. Boring backfilled with bentonite chips.
						84 —		
						-		
						86 —		
						88 —		
						_		
						90 —		
						-		
						92 —		
						94 —		
						-		
						96 —		
						=		
						98 —		
						100 —		
						-		
					3	102 —		
						_		
						104 —		
					,	106 —		
						_		
						108 —		
						-		
					3	110 —		
						- 112 —		
						_		
					,	114 —		
						_		
						116 —		
						- 118 —		

Project: Former American Linen Supply Project Number: 1413.001.02.304 Seattle, WA

Project Number
Site Location: Seattle, Name By: RTM & DJ Logged By: RTM & DJ Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
- ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ						0 - 2-		Concrete (6 inches)  BROWN SILTY SAND (SM), moist, medium dense, fine to medium, little to some fines
	0.0 0.1	B-242-5	10 12 12	12	X	6-		- - - -
	0.1 0.1 0.0	B-242-10	7 11 7	18	X	8—		BROWN SANDY SILT (ML), moist, soft to firm, some fine to coarse sand
	0.1 0.9 0.2	B-242-15	12 15 16	16	X	12 —		BROWN SANDY SILT (ML), moist, firm, some fine to coarse sand, low plasticity
	0.9	B-242-20	13 17	11		16 —		BROWN SANDY SILT (ML), moist, firm to hard, some fine to coarse sand, mottling present
Cement Grout	2.0	D-242-20	16			22 —		- - -
	4.0 3.3	B-242-25	32 50/6	8	X	24 — - 26 —		@ 25 feet bgs: Color-Tec reading 26.08 mg/kg  GRAY SILT WITH SAND (ML), moist, very hard, little fine to coarse sand
	0.9 0.4	B-242-30	48 50/6	12	X	28 — - 30 — -		-
	0.1 0.1	B-242-35	38 50/6	12	×	32 — - 34 — -		
	0.1	B-242-40	50/6	6	×	36 — - 38 — -		

Project: Former American Linen Supply Project Number: 1413.001.02.304

Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
						-		
						42 —		
	0.1 0.1	B-242-45	37 50/6	12	Y	44 —		
	0.1		50/6			46 —		@ 44.5 feet bgs: 4-inch thick sand lense (SP)
						-		
						48 —		
	0.1 0.1	B-242-50 B-910-50	47 60/6	8	X	50 —		
						-		
						52 — -		
	0.1 0.2	B-242-55	80/6	6	×	54 —		
						56 —		
	0.0	B-242-60	E0/6	6		58 — _		
Cement Grout	0.0	B-242-00	50/6 70/6	6	Ă	60 —		@ 60 feet bgs: broken cobbles in sampler
						62 —		
						_		
	0.0 0.1	B-242-65	48 70/6	10	X	64 —		
						66 —		
						68 —		
	0.1	B-242-70	80/6	6	×	-		
						70 — _		
						72 —		
						74 —		
	0.0	B-242-75	80/6	6		74 —		
						76 —		
****						78 —		GRAY SILTY SAND (SM), moist, dense, fine to medium with trace coarse, little to so fines
	0.0	B-242-80	37 50/6	12		_		

Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M



	PID (PPM)	Sample	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	
Well Completion	■	ID	B B	Sar	Sal	Δ	ซื้	Lithologic Description
						-		Bottom of borehole @ 80 feet bgs
						82 —		Bottom of borehole @ 80 feet bgs Boring backfilled with Portland Cement Grout
						84 —		
						-		
						86 —		
						-		
						88 —		
						90 —		
						90 —		
						92 —		
						-		
						94 —		
						-		
						96 —		
						98 —		
						_		
						100 —		
						-		
					3	102 —		
						_		
					,	104 —		
						106 —		
						_		
					2	108 —		
						-		
					9	110 —		
						-		
						112 —		
					,	114 —		
						_		
						116 —		
						-		
						118 —		
						- 120		

Project: Former American Linen Supply Project Number: 1413.001.02.304

Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
						0 -		Concrete (6 inches)  BROWN SANDY SILT (ML), moist, firm, some fine to medium sand with trace coarse
Concrete	0.0 0.0 0.0	B-243-5	12 15 16	16	X	4—		BROWN SAND WITH SILT (SP), moist, medium dense, fine to coarse, few fines
- - -	0.4 5.3	B-243-10	28 50/6	12	X	8		BROWN SANDY SILT (ML), moist, very hard, some fine to coarse sand, trace gravel
-						12 — -		
- - - -	0.2 0.4 0.3	B-243-15	27 31 38	14	X	16 —		GRAY SILT WITH SAND (ML), moist, very hard, few to little fine to medium sand
- - -	1.0	B-243-20	50/6	6	<b>×</b>	18 — 20 —		
Cement Grout	0.4	B-243-25	50/6	6	×	22 — 24 — - 26 —		
-	0.1	B-243-30	37 50/6	2	X	28 — - 30 —		GRAY SILTY SAND (SM), wet, dense to very dense, fine to coarse, trace gravel
- ************************************	0.1	B-243-35	100/6	4	<b>×</b>	32 — 34 — - 36 —		GRAY SAND WITH SILT (SP), wet, very dense, fine to coarse, few fines
-	0.3	B-243-40	38 50/6	3	X	38 — - 40		⊚ 39 feet bgs: recovery consisted of only broken cobble

Project: Former American Linen Supply Project Number: 1413.001.02.304 Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	0.6 4.3	B-243-42	37 50/6	10	X	42 —		GRAY SANDY SILT (ML), moist, very hard, some fine to medium sand with trace coars sand
	6.4 4.6	B-243-45	37 38 49	8	X	44 — - 46 —		GRAY SILT WITH SAND (ML), moist, very hard, few to little fine to medium sand, trace gravel
	1.0 0.8 3.9	B-243-50 IW-908-50	37 45 50	14	X	48 — 50 —		
	3.4 5.6 7.9	B-243-55	47 51 50	18	X	52 — 54 — 56 —		
Cement	10.4	B-243-60	70/6	6	*	58 — - 60 —		GRAY SILTY SAND (SM), moist, very dense, fine to coarse, little to some fines
	0.4 1.9	B-243-65	35 50/6	12	X	62 — 64 — 66 —		GRAY SANDY SILT (ML), moist, very hard, little to some fine to coarse sand
	1.8 0.2	B-243-70	42 50/6	12	×	68 — - 70 —		
	0.2 0.1 0.1	B-243-75	22 34 34	18	X	72 — 74 — 76 —		GRAY SAND WITH SILT (SP), moist, dense, fine to medium, few fines
	0.1 0.2	B-243-80	20 32	10		78 —		GRAY SILTY SAND (SM), moist, dense, fine to medium, little to some fines  @ 79 feet bgs: Color-Tec reading <0.003 mg/kg

Logged By: DJ Notes: 300 lbs. Hammer w/ D&M



	PID (PPM)	Sample	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	
Well Completion	딤	ID	Blow	Samp	Sam	Dep	Grap	Lithologic Description
			38			Į.		Pottom of harabala @ 80.5 feet has
<del>.</del>						82 —		Bottom of borehole @ 80.5 feet bgs Boring backfilled with Portland Cement Grout Samples for laboratory analysis were taken based on highest PID reading in recovered
-						_		sample
_						84 —		-
-						-		
_						86 —		=
-						-		
_						88 —		-
=						-		
_						90 —	1	-
-						92 —		
-						92 -		
_						94 —		_
-						_		
_						96 —		-
•						-		
_						98 —		-
-						-		
						100 —		-
-								
_						102 —		_
-						104 —		_
						_		
_						106 —		-
-						_	-	
_					3	108 —		-
-						-	-	
_					8	110 —	-	-
-						-	1	
-					ě	112 —		-
-						-		
					5	114 —		<u>-</u>
_					1	116 —		_
-						_		
_						118 —		_
-						_		
					- 1	120		

Project: Former American Linen Supply Project Number: 1413.001.02.304 Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Concrete	0.0	B-244-5	5 6 6	5	X	0 2— 4— 6—		Concrete (6 inches)  BROWN SILTY SAND WITH DEBRIS (SM), moist, loose, fine to coarse sand with broken concrete, brick, and wood fibers, (FILL)
	0.0 0.0 0.0	B-244-10	12 15 17	16	X	8— 10— 12—		BROWN SANDY SILT (ML), moist, firm, some fine to medium sand  GRAY SAND WITH SILT (SP), moist, medium dense, fine to medium, few fines
	0.0 0.0 0.0	B-244-15	15 26 22	18	X	14 — 16 —		GRAY SILTY SAND (SM), wet, dense, fine to medium, mottling present, little to some
- *************************************	0.0 0.0	B-244-20	28 50/6	12		18 — 20 — - 22 —		fines —
Cement Grout	0.0 0.0 0.0	B-244-25	21 27 32	18	X	24 — 24 — 26 —		GRAY SAND WITH SILT (SM), moist, medium dense, fine to medium, few fines  GRAY SILT WITH SAND (ML), moist, very hard, few to little fine to medium sand
	0.0 0.0	B-244-30	32 50/6	12		30 — _		- - -
	0.1	B-244-35	100/6	6		32 — 34 — - 36 —		GRAY SILTY SAND (SM), moist, very dense, fine to medium, little to some fines  GRAY SAND WITH SILT (SP), moist, very dense, fine to medium, little fines
	1.1	B-244-40	80/6	6		38 — - 40		

Project: Former American Linen Supply Project Number: 1413.001.02.304 Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
-	0.5	B-244-42	100/6	6	×	42 —		
	0.4	B-244-45	100/6	6	x	44 — - 46 —		
	0.2	B-244-50	70/6	6	*	-48 — 50 —		GRAY SAND WITH SILT (SP), moist, very dense, fine to coarse, little fine to coarse, some broken cobbles
	7.8	B-244-55	70/6	6	*	52 — 54 — 56 —		GRAY SANDY SILT (ML), moist, very hard, some fine to coarse sand
Cement	1.1	B-244-60	80/6	6	<b>X</b>	58 — - 60 —		GRAY SILTY SAND (SM), moist, very dense, fine to coarse, little to some fines
	0.7	B-244-65	90/6	6	*	62 — 64 — 66 —		GRAY SILT WITH SAND (ML), moist, very hard, few to little fine to coarse sand
	0.8 0.8	B-244-70 IW-907-70	49 50/6	12	X	68 — 70 — 72 —		
	4.0 1.4 11.3	B-244-75	48 57 63	16	X	74 — 76 —		@ 75 feet bgs: broken cobbles in sampler
-	0.1	B-244-80	100/6	6	×	78 — - 80		GRAY SAND WITH SILT (SP), moist, very dense, fine to medium, few fines  @80 feet bgs: Color-Tec reading <0.003 mg/kg

Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M



	PID (PPM)	Campula	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	
Well Completion	E	Sample ID	Blow	Samp	Samp	Dep	Grapl	Lithologic Description
				0,		82 —		Bottom of borehole @ 80 feet bgs Boring backfilled with Portland Cement Grout Samples for laboratory analysis were taken based on highest PID reading in recovered sample
-						84 —		
- - -						86 —		
						88 —		
-						90 — -		
-						92 — -		
-						94 —		
-						96 — - 98 —		
-						- 100 —		
- -						- 102 —		
-						- 104 —		
-					,	- 106 —		
-					,	108 —		
- - -					,	110 — 		
_					,	112 — -		
-					,	114 — -		
-					,	116 — -		
_					,	118 —		

Project: Former American Linen Supply Project Number: 1413.001.02.304

Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
						0 -		Concrete (6 inches)  BROWN SAND WITH SILT (SP), moist, medium dense, fine to medium, few fines
Concrete	0.0 0.0 0.0	B-245-5	12 15 17	14	X	4-		
- ************************************	0.0 0.0	B-245-10	11 17 21	12	X	8		BROWN SILTY SAND (SM), moist, medium dense, fine to medium, little to some fines
- ************************************	0.0	B-245-15	21 22 28	2	X	12 — 14 —		BROWN SANDY SILT (ML), wet, hard, some fine to coarse sand, low plasticity  @ 14 feet bgs: broken cobble in sampler
- *************************************	0.0 0.0	B-245-20	32 50/6	12		16 — 18 — - 20 —		BROWN SAND WITH SILT (SP), moist, dense, fine to medium, few fines  GRAY SILTY SAND (SM), moist, very dense, fine to medium with trace coarse, little to some fines
Cement Grout	0.3	B-245-25	50/6	6		22 — - 24 —		GRAY SAND WITH SILT (SP), moist, very dense, fine to medium, few fines
	0.2 0.3	B-245-30	27 28	18	Y	26 — 28 — 30 —		GRAY SILT WITH SAND (ML), moist to wet, hard to very hard, little fine to medium sand
	0.1	B-245-35	70/6	6		32 — -		
- ************************************			. 3,3			36 — 38 —		- - -
	0.0	B-245-40	100/6	2	×	40		<u>-</u>

Project: Former American Linen Supply Project Number: 1413.001.02.304 Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
		B-245-42	100/6		*	42 —		@ 41 feet bgs: Only broken cobble pieces in sampler
	0.4	B-245-45	100/6	6	×	44 —		
	0.1	B-245-50	70/6 50/6	12		46 — 48 — 50 —		GRAY SAND WITH SILT (SP), moist, very dense, fine to medium, few fines
	0.1	B-245-55	70/6	6	<b>X</b>	54 — 56 —		GRAY SILT WITH SAND (ML), moist, very hard, little fine to medium sand with trace coarse
Cement	0.1	B-245-60	50/5	4		58 — 60 —		GRAY SANDY SILT (ML), moist, very hard, little fine to coarse sand, low plasticity
	0.1 0.2 0.1	B-245-65	50/15	15	X	62 — 64 — 66 —		GRAY SAND (SP), moist, very dense, medium, interbedded gray sandy silt Sand resembles #2/12 filter pack, but nearest well is 7 feet away
	0.1	B-245-70	70/6	6		68 — - 70 —		GRAY SANDY SILT (ML), moist, very hard, little fine to medium sand, low plasticity
	0.1	B-245-75	100/6	6		72 — 74 — 76 —		GRAY SILT WITH SAND (ML), moist, very hard, few fine to medium sand, trace gravel and cobbles
	0.0	B-245-80	50/6	6	<b>×</b>	78 — - 80		GRAY SAND WITH SILT (SP), moist, very dense, fine to medium, few fines @ 79 feet bgs: Color-Tec reading <0.003 mg/kg

Project: Former American Linen Supply Project Number: 1413.001.02.304 Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M



Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
				0,		82 —		Bottom of borehole @ 80 feet bgs Boring backfilled with Portland Cement Grout Samples for laboratory analysis were taken based on highest PID reading in recovered sample
						84 —		
						86 —		
						90 —		
						92 —		
						94 —		
						96 — - 98 —		
					,	- 100 — -		
						102 — -		
						104 — - 106 —		
					,	- 108 —		
					,	110 — -		
						112 — - 114 —		
						- 116 —		
						- 118 —		

Project: Former American Linen Supply Project Number: 1413.001.02.304 Site Location: Scattle, WA

Site Location: Seattle, WA Logged By: DJ Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Do J Strain Stra	
Concrete	0.1	B-246-6	4 2 2	18	X	0 2— 4— 6—	Concrete (6 inches)  REDDISH BROWN SILTY SAND (SM), moist, very loose, fine to coarse, some fines trace subangular to subrounded gravel up to 0.5-inch diameter, trace debris such as concrete and bricks, (FILL)	5,
	0.5	B-246-11	13 50/6	12	×	8— 10 — 12 —	BROWNISH GRAY SILTY SAND (SM), moist, very dense, fine to medium, little fine trace subrounded gravel up to 0.5-inch diameter, orange mottling	es,
	0.9	B-246-15	70/6	6		14 — 16 — 18 —	@ 13 feet bgs: Driller noted more gravel and harder drilling BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), wet, very dense to medium dense, fine to medium with trace coarse sand, little to some fines, little subrounded g	n gravel
Bentonite Grout			15 15 15	0	X	20 — 22 — 22 —		
	15.5	B-246-25	20 51 29	18		24 — 26 — 28 —		
	1.8	B-246-30	50/6	5	*	30 — 32 — 34 —		
	3.9	B-246-35	100/5	5		36 — 38 — 40		

Project: Former American Linen Supply
Project Number: 1413.001.02.304
Site Location: Seattle, WA
Logged By: SM & KWS
Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Lithologic D	Description
	3.9	B-246-40	100/5	5				
						42 —		
	1.5	B-246-43	100/6	4		_	RAY SILTY SANI	D WITH GRAVEL (SM), moist to wet, very dense, fine to coarse, li
	1.5	D-240-43	100/6	4		44 —	ubrounded gravel i	up to 0.5-inch diameter, little fines
	0.1	B-246-45	100/6	5	×	-		
						46 —		
						-		
						48 —	RAY SILTY SANI	D (SM), moist to wet, very dense, fine to medium, some fines, trace up to 0.5-inch diameter
						-	g.u.	
	1.3	B-246-50	100/6	6	X	50 —		
						1-		
						52 —		
						54 —		
	0.6	B-246-55	100/6	6	X	-		
						56 —		
						58 —		
						_		
Bentonite		10/2			×	60 —		
Grout	0.5	B-246-60	100/6	3	_	-		
						62 —		
						-	ravel up to 0.5-inc	D (SM), moist, very dense, fine to coarse, some fines, few subroun h diameter
						64 —		
	4.0	B-246-65	100/6	4		-		
	0.0.5			·		66 —		
						-		
						68 —		
						-	RAY SILTY SANI	D WITH GRAVEL (SM), moist, very dense, fine to medium, some avel up to 1-inch diameter
	1.1	B-246-70	100/6	5	×	70 —	g,	
						-		
						72 —		
						74	RAY SANDY SIL	T (ML), moist, very hard, little fine to medium sand, trace subround
						74 —	ravel up to 0.5-inc	п спатпесег
	1.0	B-246-75	100/6	5	×	76 —		
						,,,,		
						78 —		
	1.4	B-246-80	100/6	6	X	80	80 feet bgs: Cold	or-Tec reading <0.003 mg/kg

Project: Former American Linen Supply
Project Number: 1413.001.02.304
Site Location: Seattle, WA
Logged By: SM & KWS
Notes: 300 lbs. Hammer w/ D&M



Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
			75-00			82 —		Bottom of borehole @ 80 feet bgs Boring backfilled with Bentonite Grout Samples for laboratory analysis were taken based on highest PID reading in recovered sample
						84 —		
						86 — - 88 —		
						90 —		
						92 — -		
						94 — - 96 —		
						- 98 —		
					,	100 — -		
						102 — - 104 —		
					,	- 106 —		
					,	- 108 — -		
						10 —  -  12 —		
						- 114 —		
					,	- 116 — -		
						118 — - 120		

Project: Former American Linen Supply
Project Number: 1413.001.02.304
Site Location: Seattle, WA
Logged By: SM & KWS
Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Concrete						0 - 2-		Concrete (6 inches)  LIGHT REDDISH BROWN SILTY SAND (SM), moist to wet, loose, fine to coarse, some fines, trace gravel
- \$353 	0.1 0.1	B-247-5	9 10 9	12	X	4— - 6—		
- -	0.0	5 047 40	7 10			8-		
-  -  -	0.1	B-247-10	10 9	9		12 —		BROWN SILTY SAND WITH GRAVEL (SM), wet, medium dense, fine to coarse, some — fines, some fine to coarse gravel
-	0.1 0.1 0.1	B-247-15	11 15 12	18	X	14 — 16 —		BROWNISH GRAY SANDY SILT (ML), wet, firm, some fine to coarse sand, few fine gravel
Bentonite	0.1	B-247-20	50/5	5	<b>X</b>	18 — - 20 —		GRAY SANDY SILT (ML), moist, very hard, some fine to medium sand, trace subrounded gravel
						22 — - 24 —		
- - -	0.1	B-247-25	50/6	6		26 —		-  -
	0.0	B-247-30	50/6	6		28 — - 30 —		
-						32 — - 34 —		
- -	0.1	B-247-35	50/6	6		36 — -		
	0.1	B-247-40	50/6	6		38 — - 40		GRAY SANDY SILT (ML), moist, very hard, some fine to medium sand, low to medium plasticity, can be rolled repeatedly into 6-7 mm roll and support itself

Project: Former American Linen Supply Project Number: 1413.001.02.304 Site Location: Seattle, WA Logged By: RTM Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
- - - - -	0.7	B-247-45	50/6	6	×	-42 — -44 — -46 —		GRAY SILTY SAND (SM), moist close to dry, very dense, fine to medium, some fines
- - - -	11.0	B-247-50	50/5	5	×	48 — 50 — 52 —		@ 50 feet: Color-Tec reading 0.64 mg/kg
- - - -	0.1	B-247-55	50/8	8	×	54 — 56 — 58 —		GRAY SANDY SILT (ML), moist, very hard, some fine to medium sand
Bentonite	0.0	B-247-60	70/6	6	*	60 — - 62 —		trace gravel @ 59.5 feet: Color-Tec reading <0.003 mg/kg
- - - -	0.0	B-247-65	100/6	6	*	64 — - 66 —		GRAY SILT WITH SAND (ML), moist, very hard, little fine sand, trace gravel
- - - -	0.0	B-247-70	80/6	6	*	68 — 70 — 72 —		GRAY SANDY SILT (ML), moist, very hard, some fine to medium sand
-  -  -  -	0.0 0.0	B-247-75	100/8	8	×	74 — 76 —		- - - -
- /////	0.0	B-247-80	200/6	6	×	78 — - 80		GRAY SILTY SAND (SM), moist verging on dry, very dense, fine to coarse, some fines.  Driller attempted to drive D&M sampler twice with no recovery. Then drove SPT sampler twice before recovering any sample.

Logged By: RTM Notes: 300 lbs. Hammer w/ D&M



				very	<u>_a</u>			
	(M		unt	Sample Recovery	Sample Interval	Depth (Feet)	Log	
) W II G	PID (PPM)	Sample	Blow Count	mple	mple	epth (	Graphic Log	
Well Completion	룹	ID	윮	Sar	Sar	۵	Ğ	Lithologic Description
						-		
						82 —		@ 79.5 feet bgs: Color-Tec reading <0.003 mg/kg
						-		Bottom of boring at 80 ft bgs Boring backfilled with bentonite chips and capped with concrete
						84 —		Boring backfilled with bentonite chips and capped with concrete
						06		
						86 —		
						88 —		
						-		
						90 —		
						-		
						92 —		
						_		
						94 —		
						96 —		
						-		
						98 —		
						-		
						100 —		
						-		
						102 —		
						104 —		
						-		
					,	106 —		
						-		
					7	108 —		
						110		
						10 —		
						112 —		
						_		
					,	114 —		
						-		
						116 —		
						-		
						118 —		
					,	120		

Project: Former American Linen Supply Project Number: 1413.001.02.304 Seattle, WA

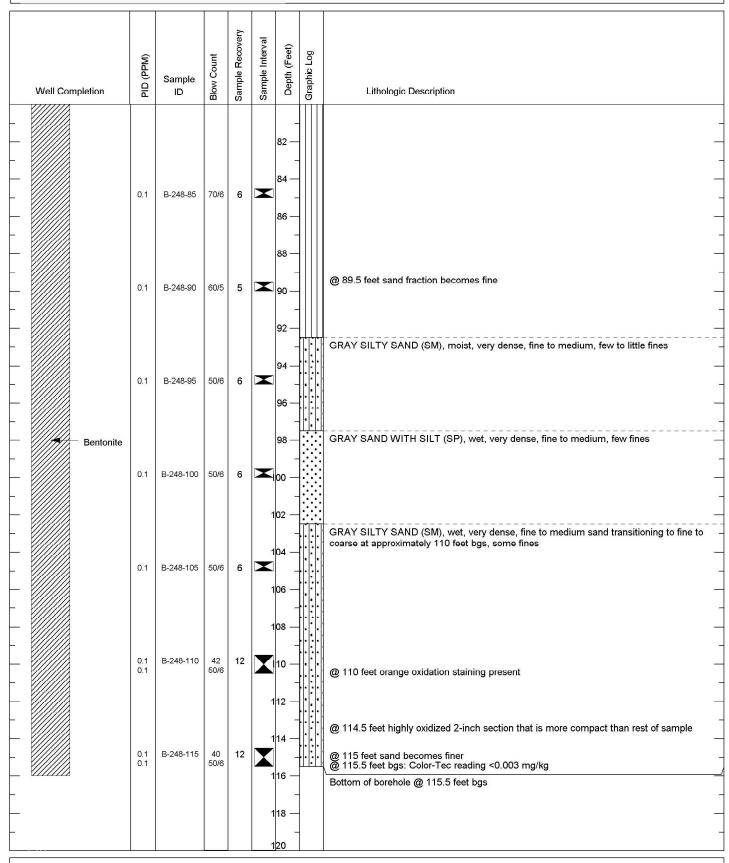
Site Location: Sea RTM Logged By: RTM Notes: 300 lbs. Hammer w/ D&M

Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
- Concrete	0		17 17			0 2- 4-		Concrete (6 inches)  REDDISH BROWN SILTY SAND WITH GRAVEL (SM), moist, medium dense, fine to medium, some fines, little subrounded to rounded coarse gravel up to 2.5-inch diameter
	0	B-248-5	17 15	13		6— 8—		REDDISH BROWN SILTY SAND (SM), moist, medium dense, fine to coarse, some fines—
-  -  -  -	0 0 0	B-248-10	17 15 18	18	X	10 — 12 —		GRAY BROWN SILTY SAND (SM), moist, very dense, fine to medium, some fines
- - - -	0	B-248-15	50/6	6		14 — 16 — 18 —		- - -
Bentonite	0	B-248-20	50/6	6		20 — - 22 —		- - - -
- - -	0	B-248-25	50/6	6		24 — - 26 —		@ 24.5 feet brown lean clay to elastic silt lense approximately 3-inch thick
- - -	0.1	B-248-30	50/5	5	*	30 — 32 —		GRAY SILTY SAND WITH GRAVEL (SM), moist, very dense, fine to coarse, some fines, little fine to coarse gravel up to 2-inch diameter
- - - -	0	B-248-35	50/6	6	*	34 — 36 —		GRAY SANDY SILT (ML), moist, very hard, some fine to coarse sand  @ 34.5 feet mottling evident
	0		37	10		38 — - 40		-

Logged By: RTM Notes: 300 lbs. Hammer w/ D&M

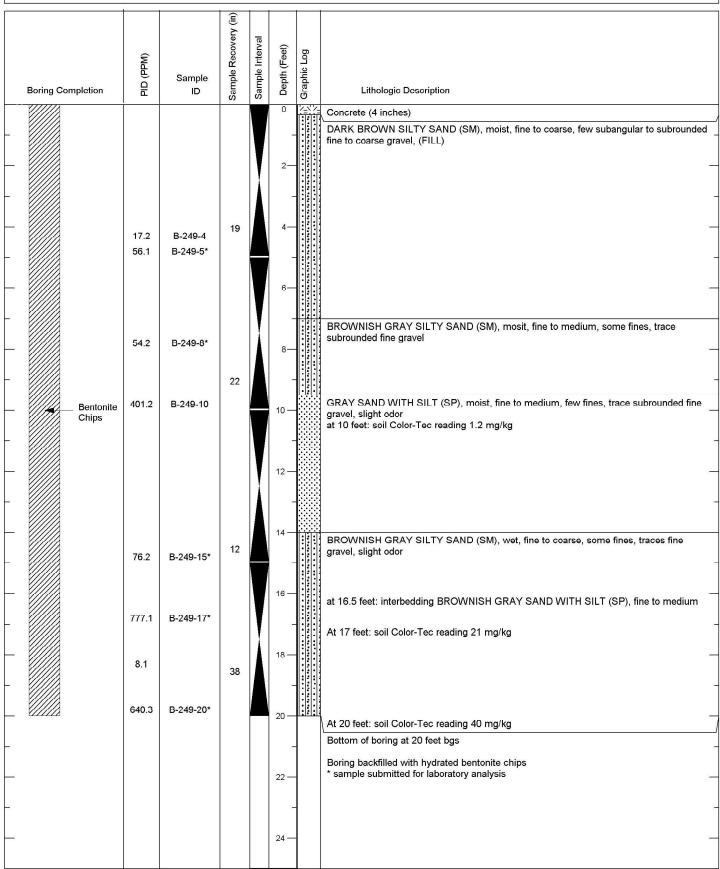
Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
-	0	B-248-40	50/6			42 —		GRAY SILT WITH SAND (ML), moist, very hard, few to little fine to medium sand, appears drier than unit above
	0	B-248-45	50/6	6		44 — 46 —		- - - -
- - -	0.1	B-248-50	50/6	6	×	-		GRAY SILTY SAND (SM), moist, very dense, fine to coarse, some fines, trace gravel
- - - -	0.1	B-248-55	50/6	6		52 — 54 — 56 —		- - - - - -
Bentonite	1.9	B-248-60	50/6	6	*	58 — 60 — 62 —		GRAY SANDY SILT (ML), moist, very hard, some fine to medium sand, trace fine gravel —
- - -	0.5	B-248-65	80/6	6	*	64 — 66 —		- - - -
-  -  -  -	0	B-248-70	70/6	6	*	-		GRAY SILT WITH SAND (ML), moist, very hard, little fine to coarse sand
- - -	0	B-248-75	80/6	6	*	72 — 74 — 76 —		GRAY SANDY SILT (ML), moist, very hard, little to some fine to medium sand
	0.1	B-248-80	60/6	6		78 — -  80		GRAY SILT WITH SAND (ML), moist, very hard, few to little fine to coarse sand

Logged By: RTM Notes: 300 lbs. Hammer w/ D&M



Notes:

300 lbs. Hammer w/ D&M

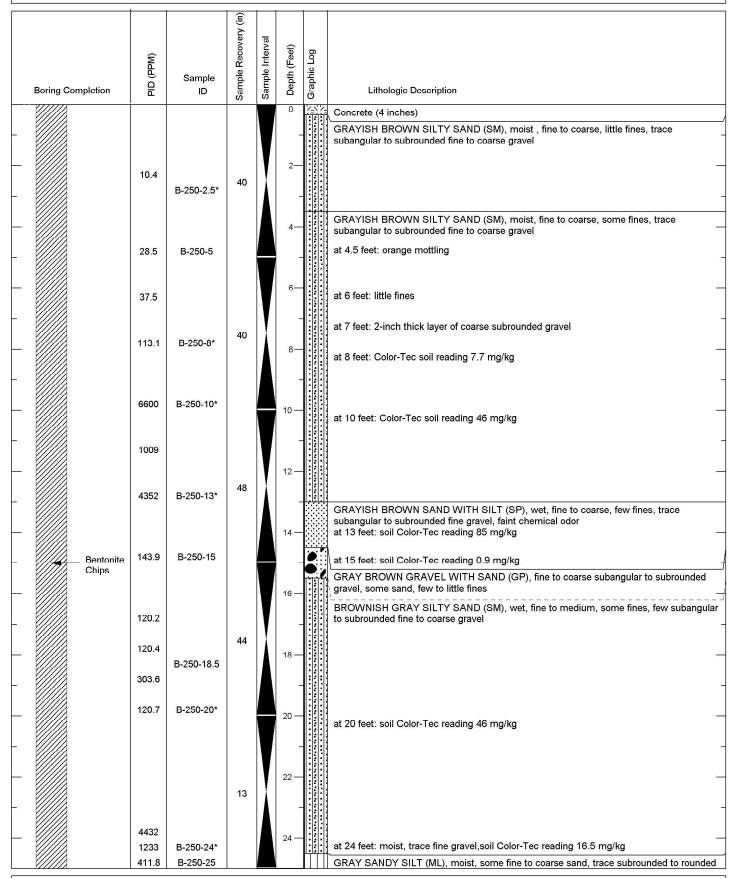


Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA

Logged By: RTM Notes: - Total Drilled Depth: 20 ft bgs
Diameter of Boring: 2.25 inches
Drill Date: 10/15/18
Drilled By: Cascade Drilling
Drill Method: Geoprobe

PES Environmental, Inc. **Engineering & Environmental Services** 

1 of 2



Project: Former American Linen 1413.001.05.201 Project Number: Site Location: Seattle, WA

Logged By: RTM Notes:

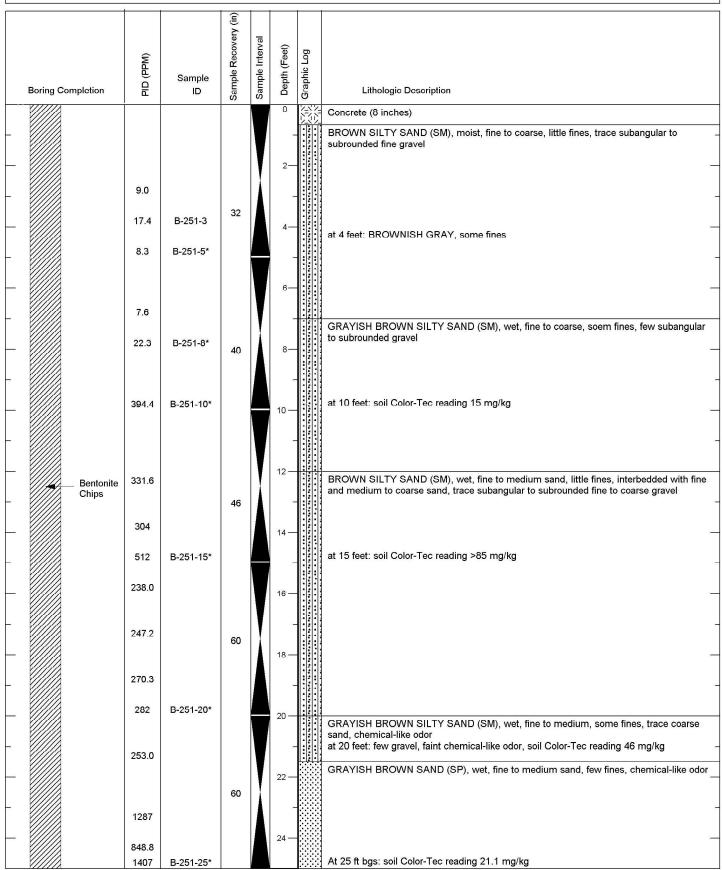
Total Drilled Depth: 30 ft bgs 2.25 inches Diameter of Boring: Drill Date: 10/15/18 - 10/16/18 Cascade Drilling Drilled By: Drill Method: Geoprobe

Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
- - -	71.5 45.7 61.6	B-250-30*	60		26 — 28 — - 30 —		fine gravel, faint chemical-like odor at 25 feet: soil Color-Tec reading 16.5 mg/kg  GRAY SILTY SAND (SM), moist to wet, fine to medium, some fines, trace subrounded to rounded fine gravel  at 30 feet: soil Color-Tec reading 0.07 mg/kg  Bottom of boring at 30 feet bgs  Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
					32 — 34 — 36 —		
-					38 —		
-					12 — - 44 —		
					46 — - 48 — -		

Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA

Logged By: RTM
Notes: -

Total Drilled Depth: 30 ft bgs
Diameter of Boring: 2.25 inches
Drill Date: 10/15/18 - 10/16/18
Drilled By: Cascade Drilling
Drill Method: Geoprobe



Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA

Logged By: RTM
Notes: -

Total Drilled Depth: 25 ft bgs
Diameter of Boring: 2.25 inches
Drill Date: 10/15/18

Drilled By: Cascade Drilling
Drill Method: Geoprobe

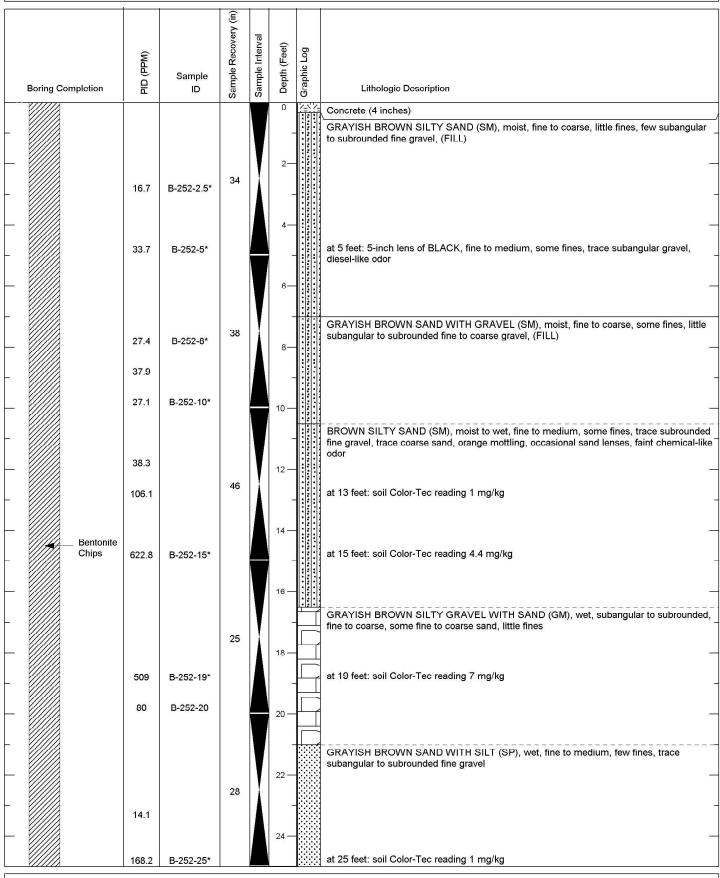
	Ĭ		(ii)					_
Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description	
			σ	0)				_
					26 —		Bottom of boring at 25 feet bgs (Heaving sands)	
					-		Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis	
					28 —			
					_			
					30 —			
					30 —			
					-			
					32 —			
					-			
					34 —			
					-			
					36 —			
					-			
					38 —			
					50			
					-			
					40 —			
					-			
					42 —			
					-			
					44 —			
					-			
					46 —			
					40			
					-			
					48 —			
					-			
					50			

Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA

Logged By: RTM
Notes: -

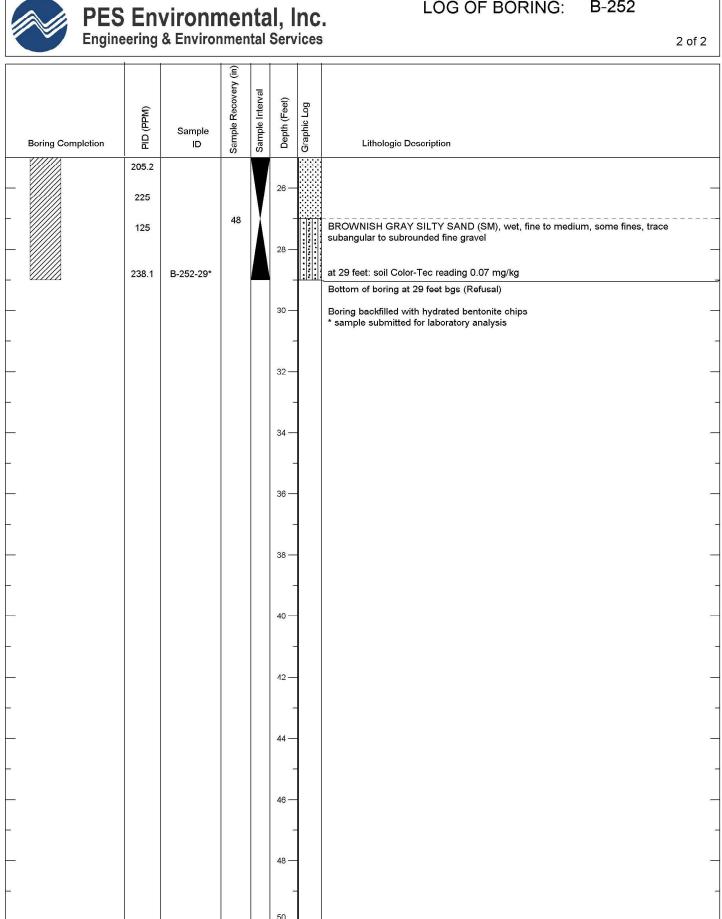
Total Drilled Depth: 25 ft bgs
Diameter of Boring: 2.25 inches
Drill Date: 10/15/18
Drilled By: Cascade Drilling
Drill Method: Geoprobe





Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA

Logged By: RTM Notes: - Total Drilled Depth: 29 ft bgs
Diameter of Boring: 2.25 inches
Drill Date: 10/15/18
Drilled By: Cascade Drilling
Drill Method: Geoprobe



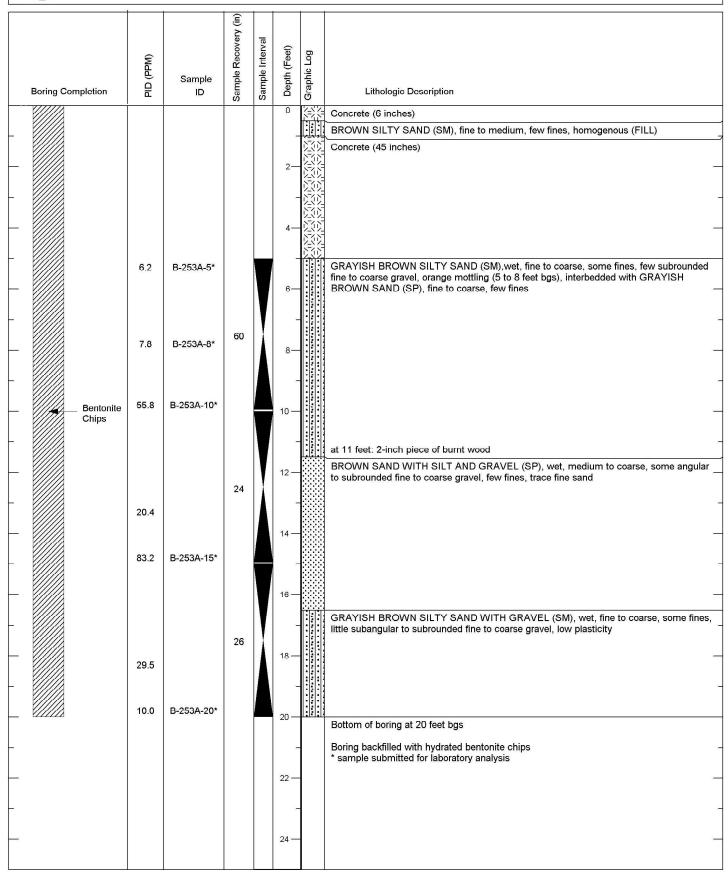
Project: Former American Linen 1413.001.05.201 Project Number: Site Location: Seattle, WA

Logged By: Notes:

Total Drilled Depth: 29 ft bgs Diameter of Boring: 2.25 inches Drill Date: 10/15/18 Drilled By: Cascade Drilling

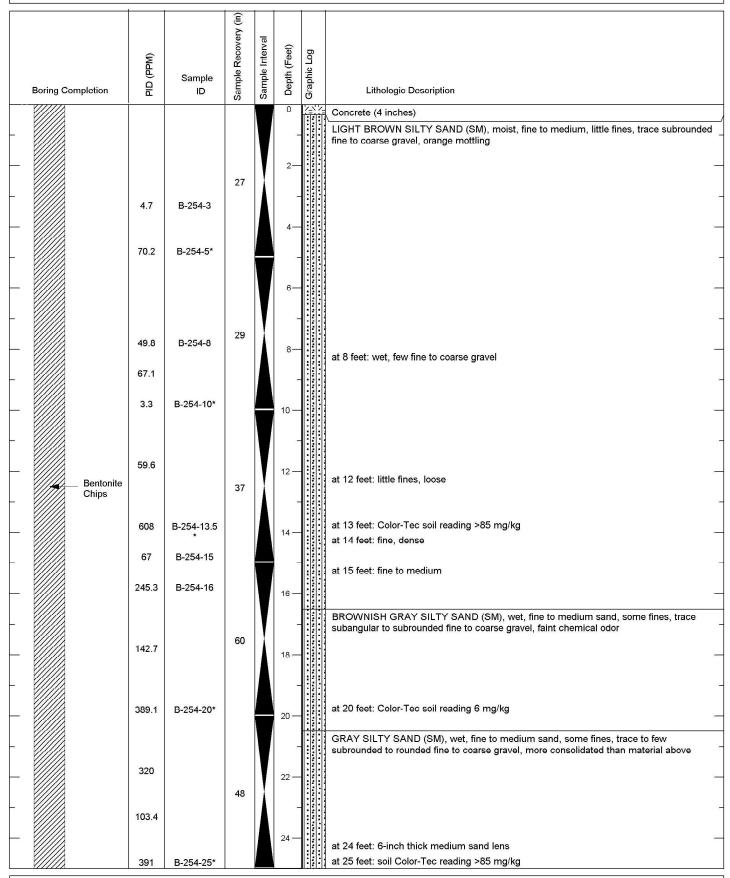
Geoprobe

Drill Method:



Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA

Total Drilled Depth: 20 ft bgs
Diameter of Boring: 2.25 inches
Drill Date: 10/18/18
Drilled By: Cascade Drilling
Drill Method: Geoprobe



Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA

Logged By: RTM Notes: - Total Drilled Depth: 25 feet bgs
Diameter of Boring: 2.25 inches
Drill Date: 10/16/18

Drilled By: Cascade Drilling
Drill Method: Geoprobe



			(ii) /				
Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
-					26 —		Bottom of boring at 25 feet (Refusal)  Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
_					28 —		-
_					30 —		-
-					32 —		_
-					34 —		
-					34 —		
-					36 —		-
-					38 —		_
_					40 —		_
-					12 —		_
-					44 —		_
-					- 46 —		_
-					_		
-					48 —		
					50		

Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA

Logged By: RTM Notes: - Total Drilled Depth: 25 feet bgs
Diameter of Boring: 2.25 inches
Drill Date: 10/16/18

Drilled By: Cascade Drilling
Drill Method: Geoprobe

			ery (in)	_			
	PM)		Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	
Boring Completion	PID (PPM)	Sample ID	Sample	Sampl		Graph	Lithologic Description
					0		Note: see log for B-254 for lithology from 0 to 25 feet bgs
					-		
					2-		
					-		-
					4—		_
					-		-
					6—		_
-					-		_
					8—		_
-					-		_
					10 —		_
-					-		-
					12 —		_
-					-		_
					14 —		_
					-		-
					16 —		_
					-		_
Bentonite Chips					18 —		_
-					-		-
					20 —		_
					-		_
					22 —		
					_		-
					24 —		_
					east of		

Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA

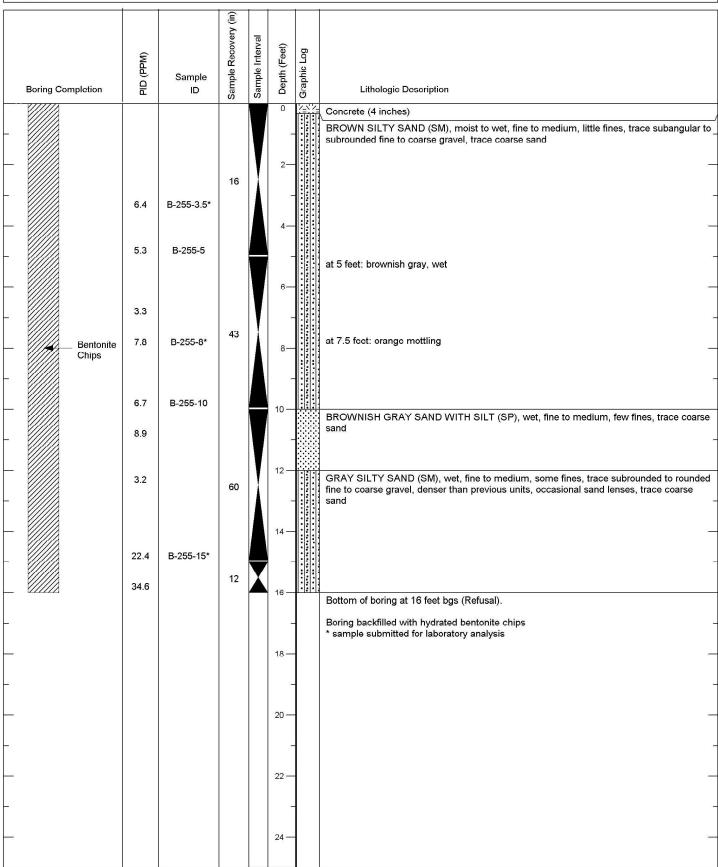
Logged By: RTM
Notes: Paired with B-254

Total Drilled Depth: 35 feet bgs
Diameter of Boring: 6 inches
Drill Date: 10/16/18
Drilled By: Cascade Drilling
Drill Method: Sonic

Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
			24	Y	26 —		GRAYISH SILTY SAND WITH GRAVEL (SM), moist to wet, fine to medium, some fines, little subrounded to rounded gravel, trace coarse sand  —
-	38.7	B-254A-27*		Ŷ	28 —		at 27 feet: rockHit rock driller had to grind on for a while to get past at 28 feet: Color-Tec soil reading 1.16 mg/kg
-	20.8	B-254A-30*	36	À	30 —		at 30 feet: Color-Tec soil reading <0.005 mg/kg, large cobble
-					-		GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, fine to medium, some fines, some subrounded to subangular fine to coarse gravel, trace coarse sand, trace cobbles
-	1.6	B-254A-32	60		32 —		
	1.9	B-254A-35*		A	34 —		Bottom of boring at 35 feet bgs
_					36 —	_	Boring backfilled with bentonite chips  * sample submitted for laboratory analysis
_					38 —		_
-					40 —	-	_
_					42 —		_
-					-		
-					44 —	-	
-					46 — -	-	
_					48 — -		
					50		

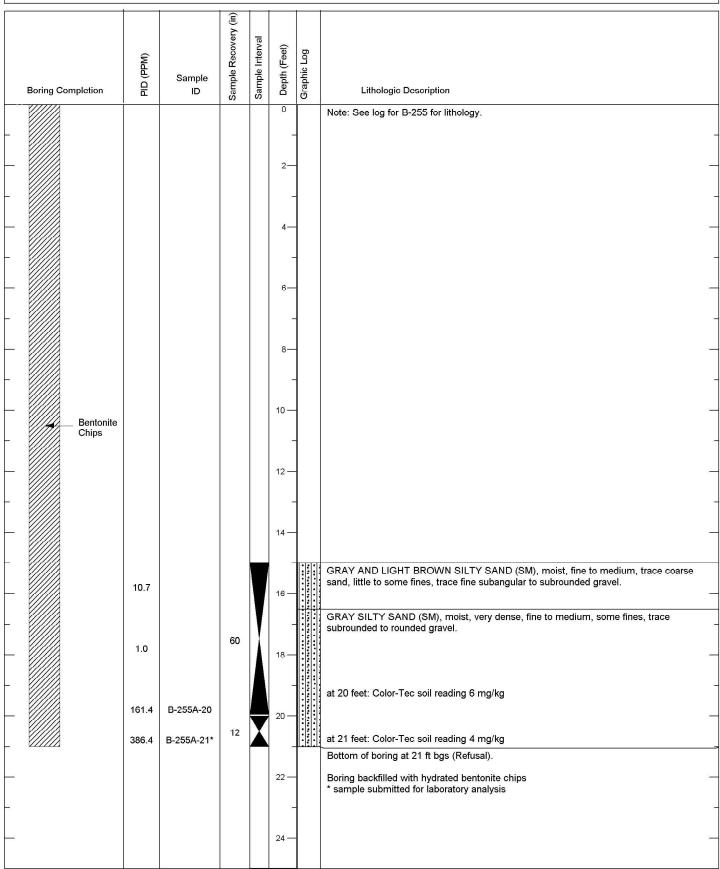
Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA

Logged By: RTM
Notes: Paired with B-254

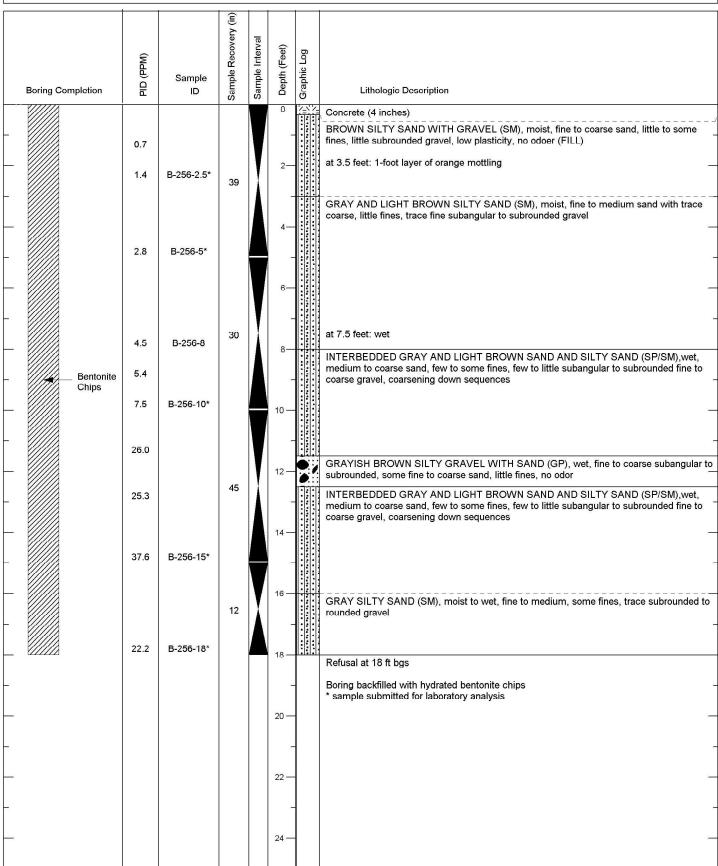


Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA

Logged By: RTM
Notes: Paired with B-255A

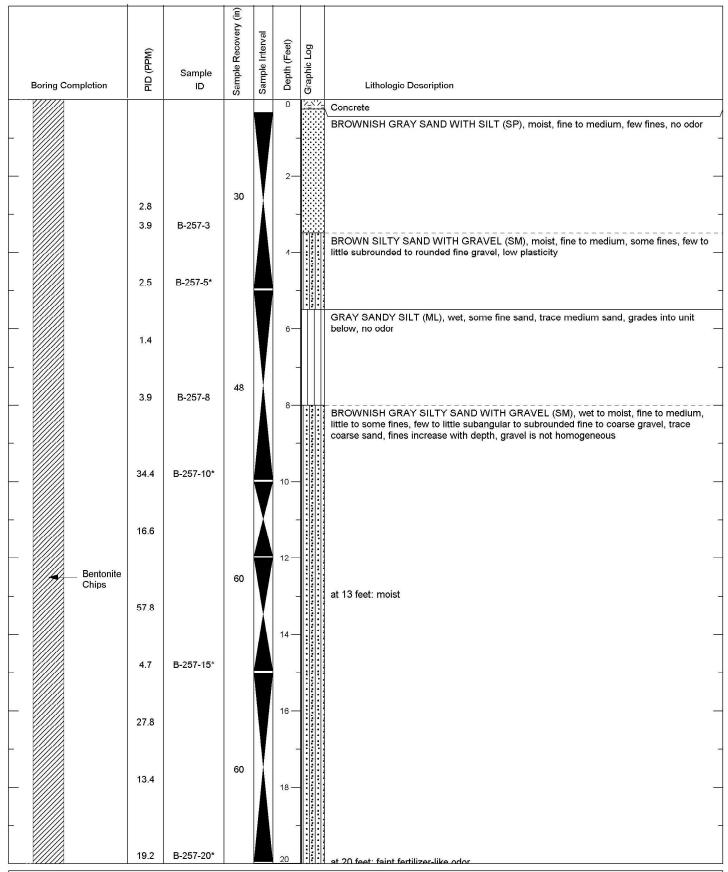


Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: Paired with B-255

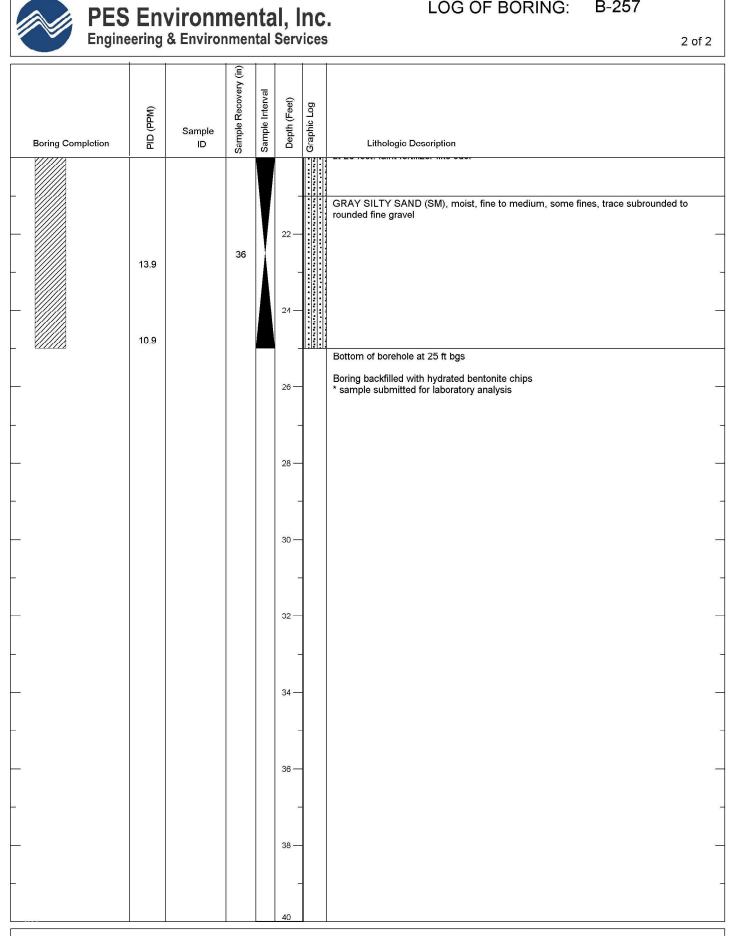


Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA

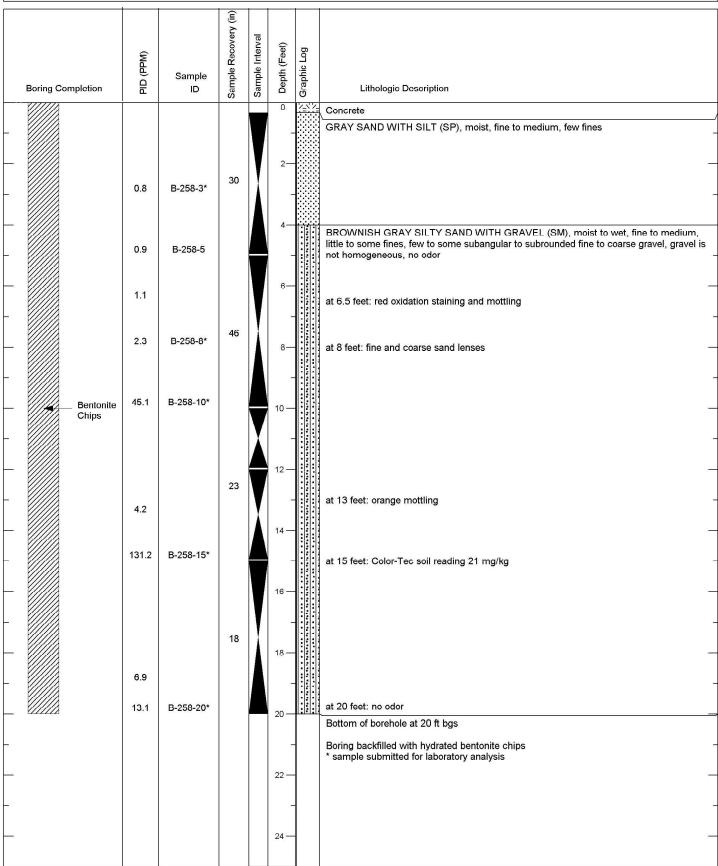




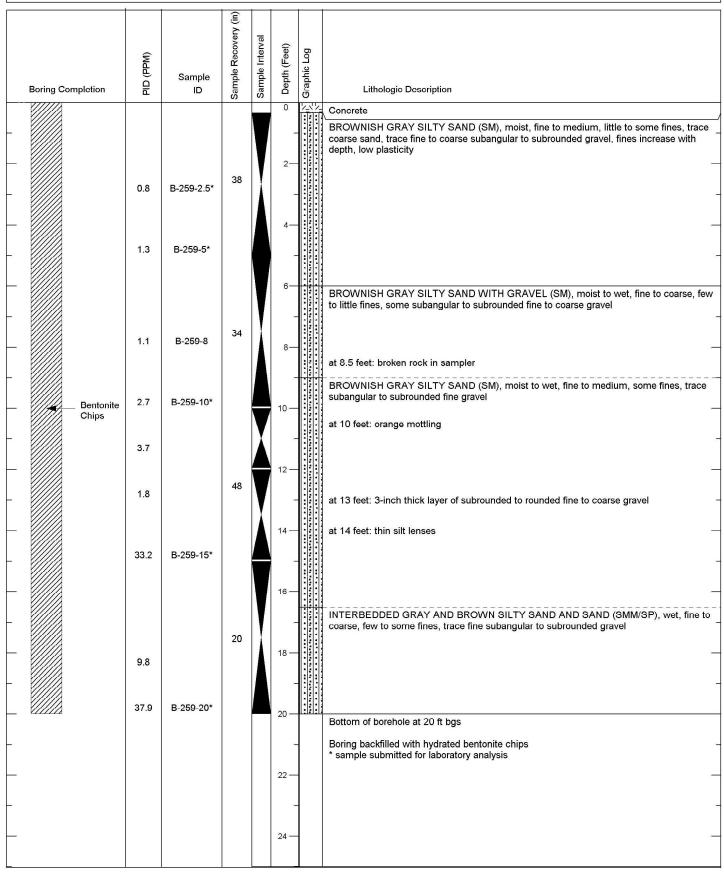
Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA



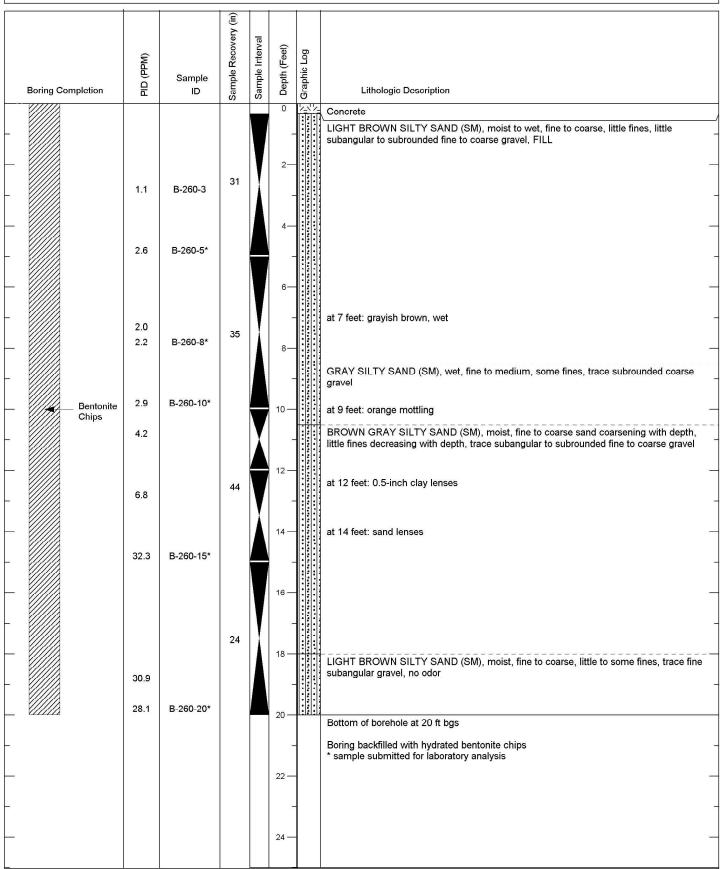
Project: Former American Linen 1413.001.05.201 Project Number: Site Location: Seattle, WA Logged By: R. McLaughlin NA Notes:



Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA



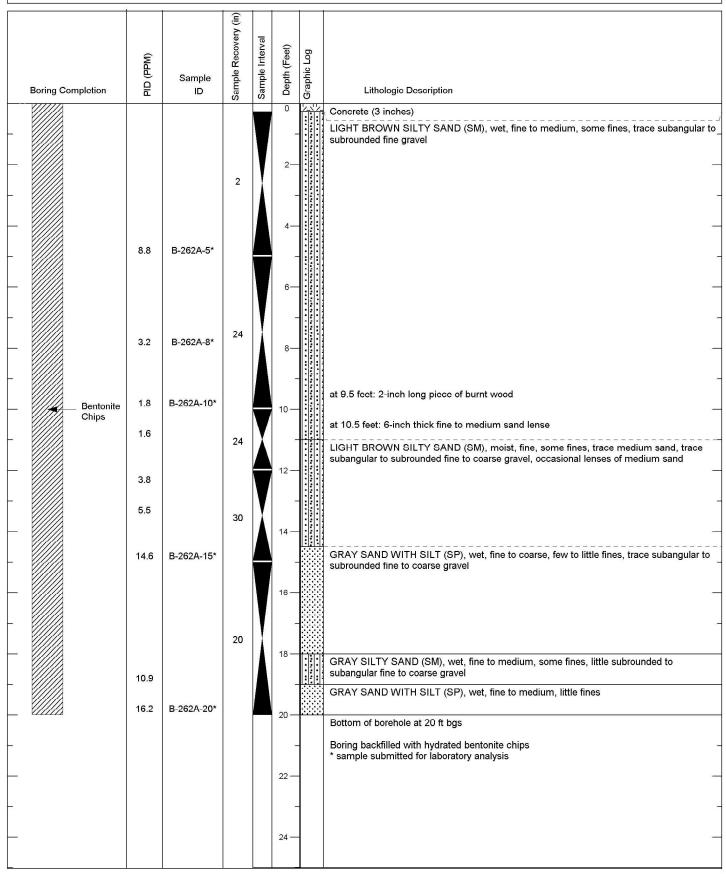
Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA



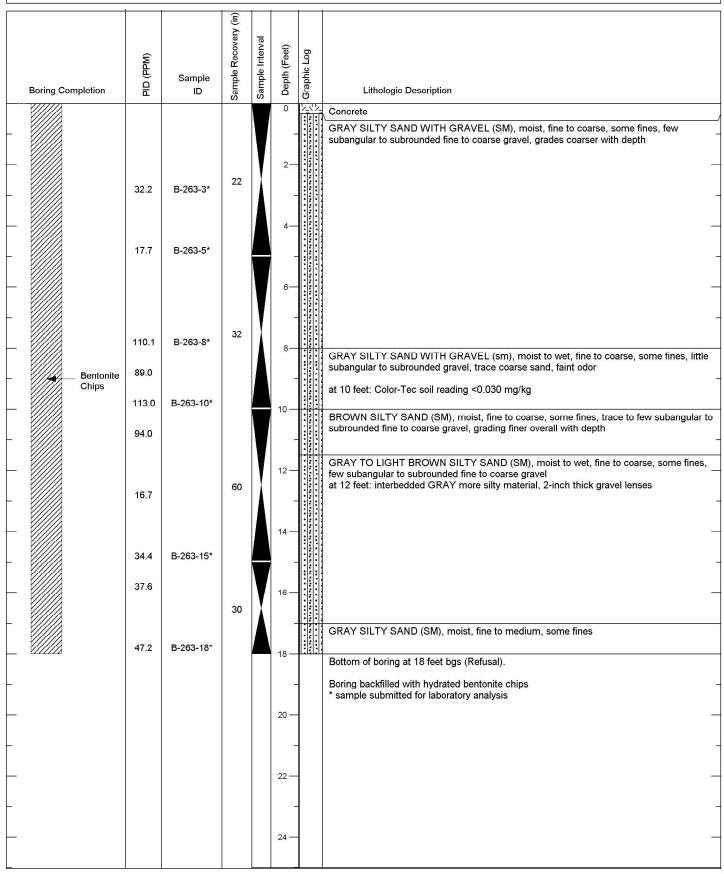
Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA

	2					
Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Disphic Description
Boring Completion  Bentonite Chips  Bentonite	1.7 14500 54.8 41.7 135.7 260.0 37.0 20.9 199.2	B-261-3*  B-261-5*  B-261-10*  B-261-10*	36 40 30	Sa	0	Concrete  LIGHT BROWN SILTY SAND (SM), moist, fine to medium, little fines, trace coarse, trace subrounded fine gravel (FILL)  LIGHT BROWN SILTY GRAVEL WITH SAND (GM), moist, subangular to subrounded fine to coarse gravel, some fine to coarse sand, little fines, strong chemical odor, fines have low plasticity  at 5 ft bgs: Color-Tec soil reading >1587 mg/kg  LIGHT BROWN SILTY SAND WITH GRAVEL (SM), wet, fine to coarse sand, little fines few to little subangular to subrounded fine to coarse gravel, coarsening with depth  at 8 feet: orange mottling  at 10 ft bgs: Color-Tec soil reading 16 mg/kg  LIGHT BROWN SILTY SAND (SM), wet, fine to coarse, little fines, trace subrounded to subangular fine to coarse gravel, no odor  GRAY SILTY SAND (SM), moist, fine to medium, some fines, trace coarse, trace subangular to subrounded fine to coarse gravel, very consolidated, no odor  at 15 ft bgs: Color-Tec soil reading 1.7 mg/kg  Bottom of boring at 20 ft bgs (Refusal)  Boring backfilled with hydrated bentonite chips *sample submitted for laboratory analysis
_						

Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA

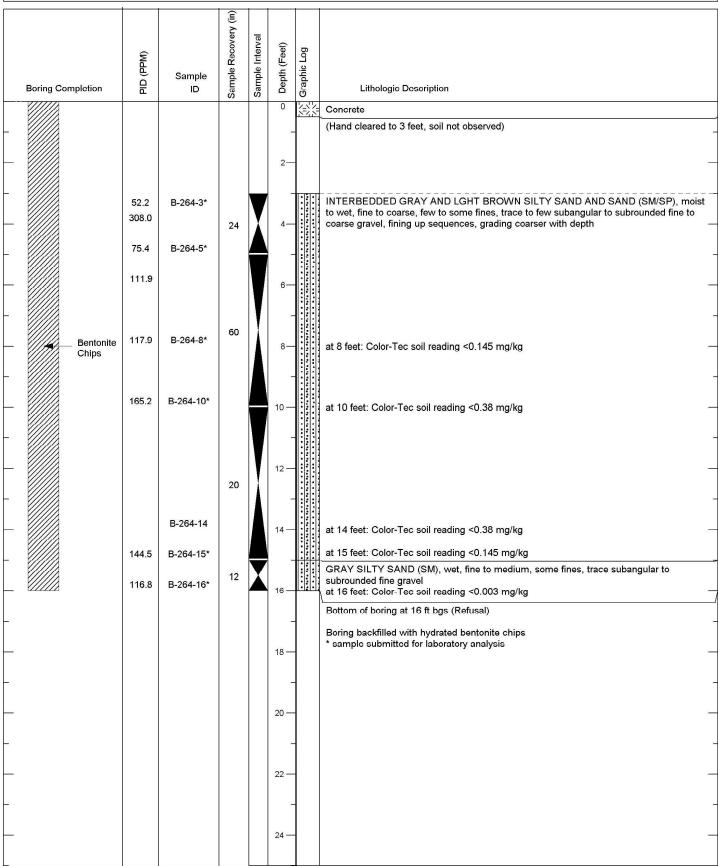


Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA

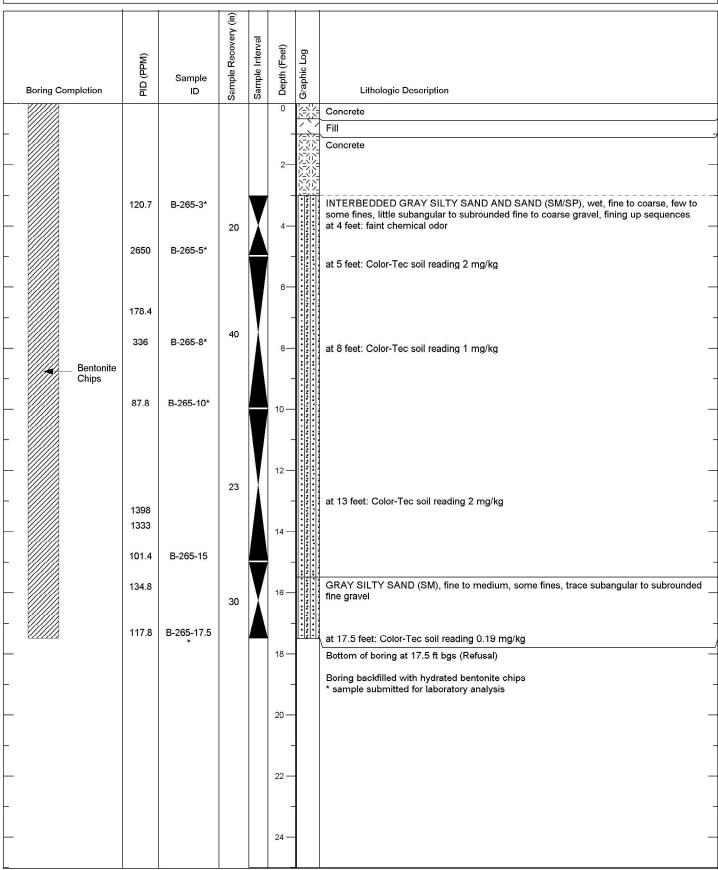


Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: RTM

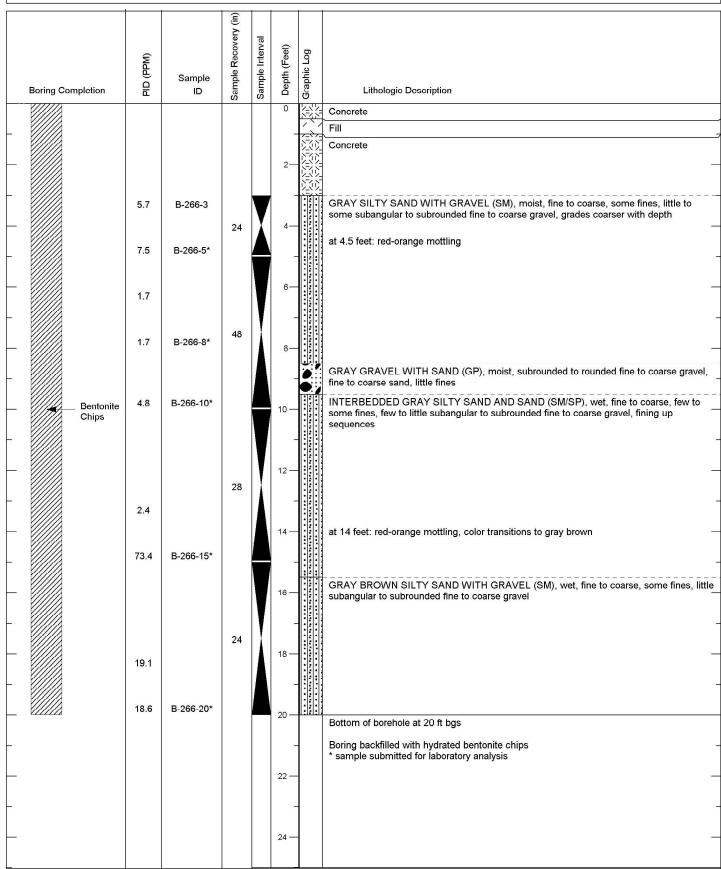
Notes:



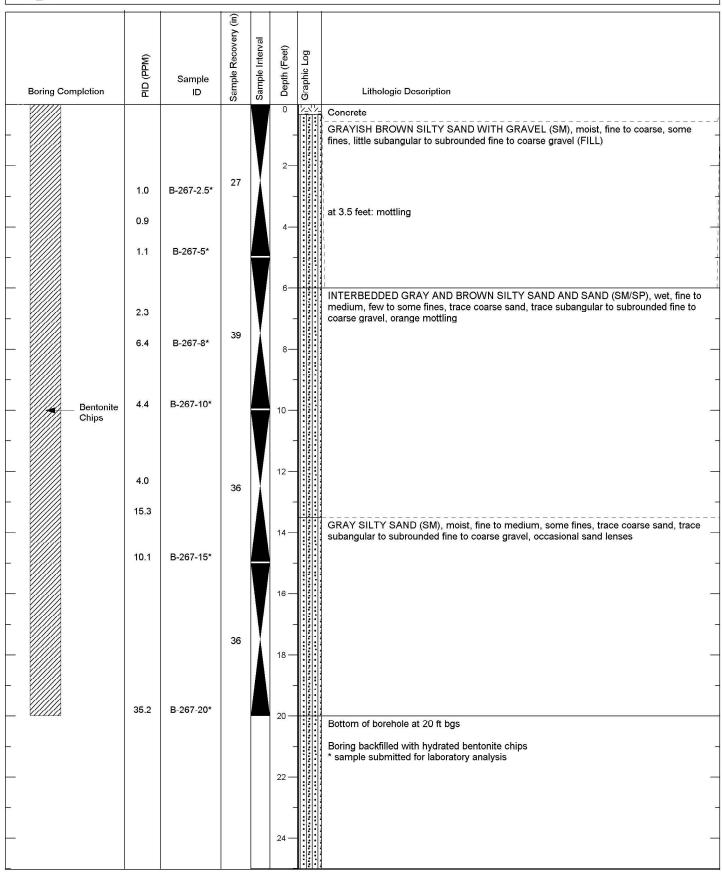
Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA



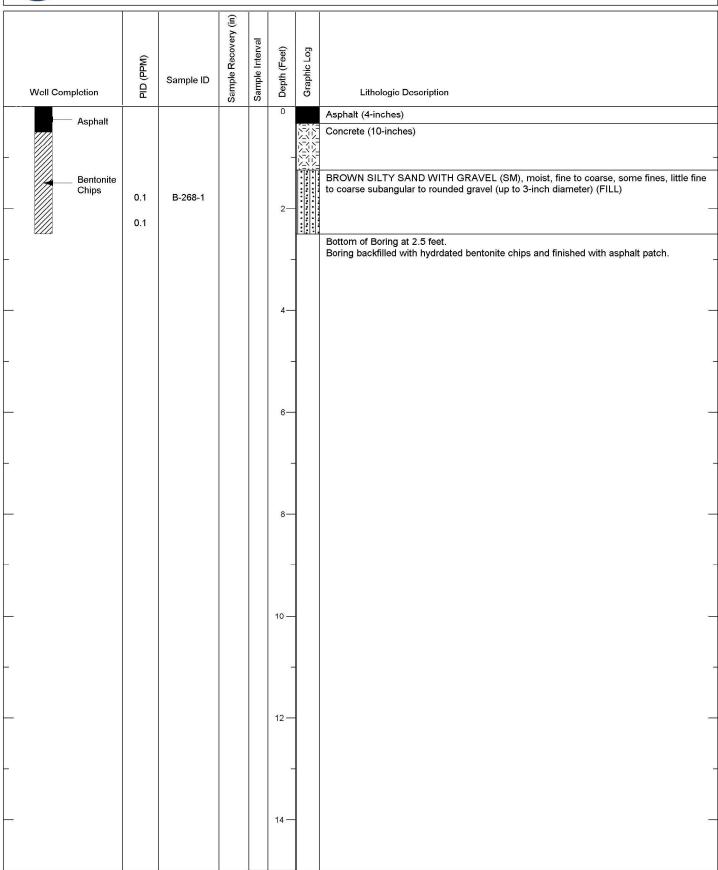
Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA



Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA



Project: Former American Linen
Project Number: 1413.001.05.201
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes: NA



Project: Former American Linen Supply 1413.001.05.202 Project Number: Site Location: Seattle, WA Logged By:

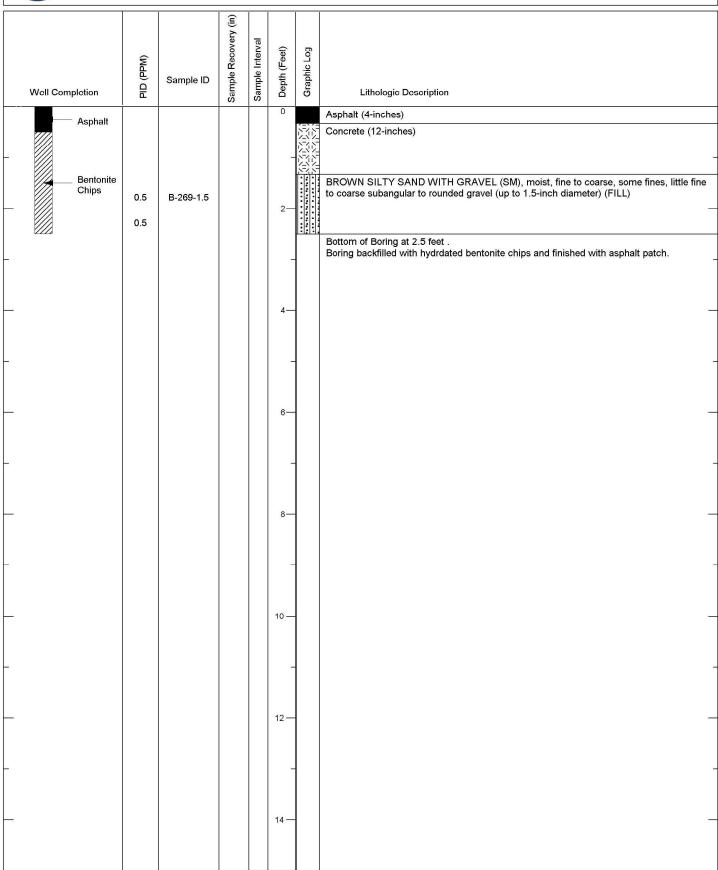
Notes:

R. McLaughlin

Total Drilled Depth: 2.5 feet Diameter of Boring: 4.5 inches Drill Date: 3/17/2020 Drilled By: Cascade Drilling

Drill Method:

Hand Auger



Project: Former American Linen Supply 1413.001.05.202 Project Number: Site Location: Seattle, WA Logged By:

Notes:

R. McLaughlin

Total Drilled Depth: 2.5 feet Diameter of Boring: 4.5 inches Drill Date: 3/17/2020 Drilled By: Cascade Drilling

Drill Method:

Hand Auger

	- 3						
Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Well Completion  Asphalt  Bentonite Chips	39 80	B-270-2	San	Sar	2— 4—		Concrete (11-inches)
_					6		
					8—		
_					10 —		<u>-</u>
_					12 —		
					14 —		

Project: Former American Linen Supply
Project Number: 1413.001.05.202
Site Location: Seattle, WA
Logged By: R. McLaughlin
Notes:

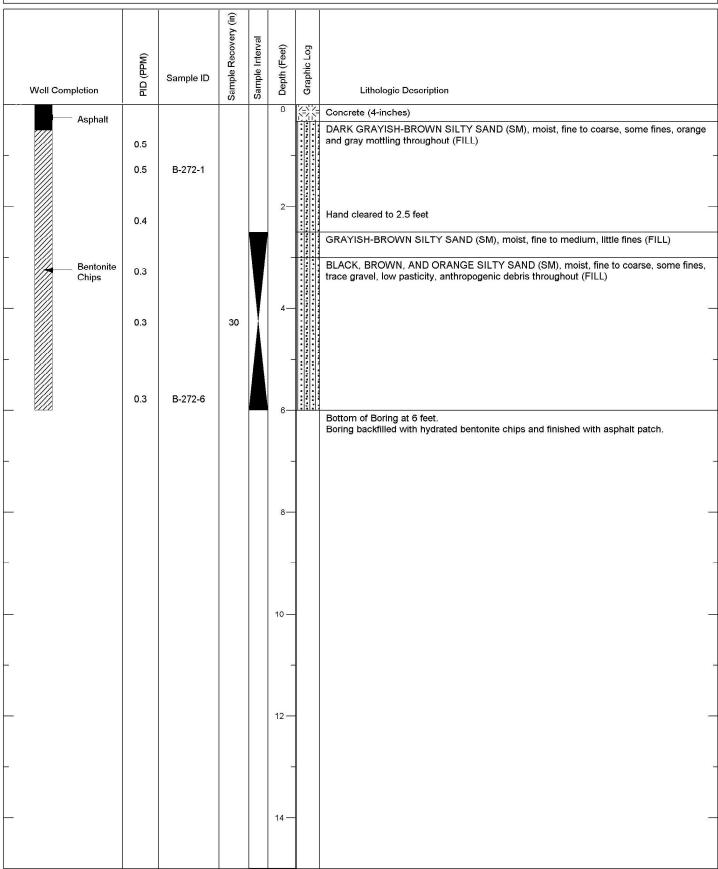
Total Drilled Depth: 2 feet
Diameter of Boring: 4.5 inches
Drill Date: 3/17/2020
Drilled By: Cascade Drilling
Drill Method: Hand Auger

Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Well Completion  Asphalt  Bentonite Chips	(Wdd) Qld 0.3 0.2	Sample ID  B-271-1	Sample Re	Sample Int	9_) thde O O O O O O O O O O O O O O O O O O O	Graphic L	
_					14 —		

Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA

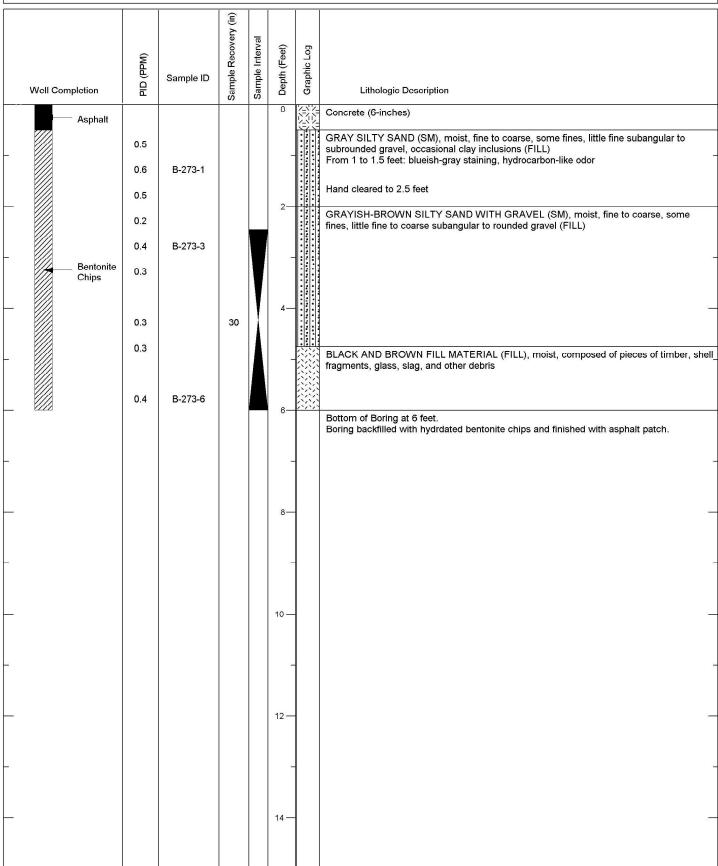
Site Location: Seattle, WA Logged By: R. McLaughlin Notes:

Total Drilled Depth: 2 feet
Diameter of Boring: 4.5 inches
Drill Date: 3/17/2020
Drilled By: Cascade Drilling
Drill Method: Hand Auger



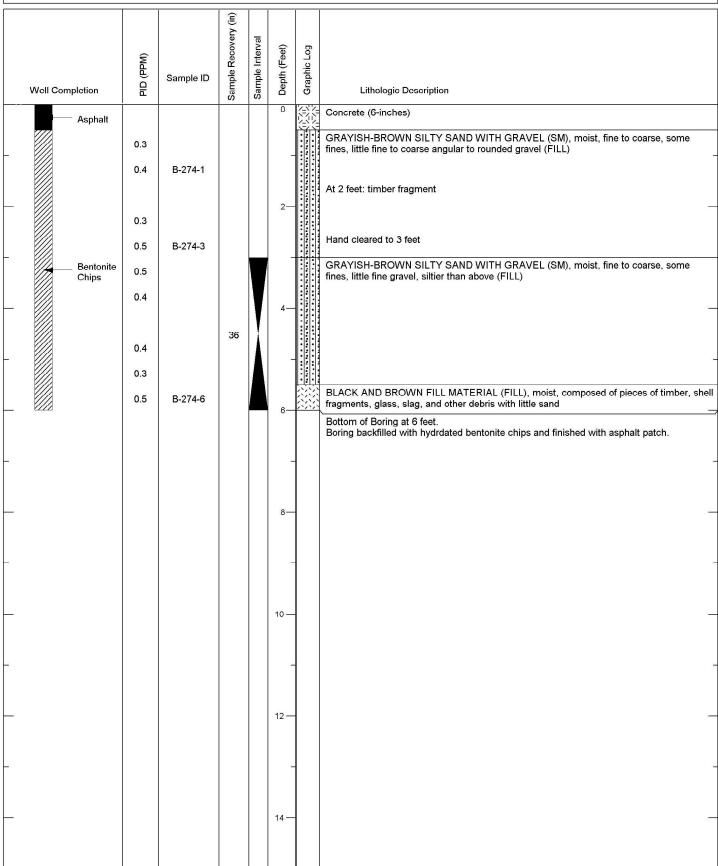
Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA

Site Location: Seattle, WA Logged By: R. McLaughlin Notes:



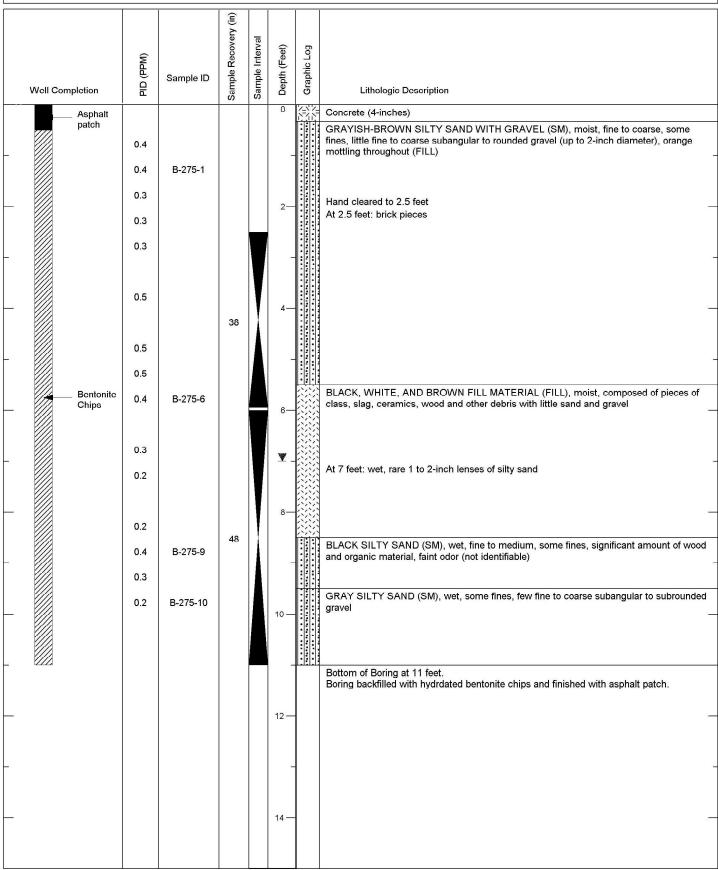
Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA

Site Location: Seattle, WA Logged By: R. McLaughlin Notes:



Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA

Site Location: Seattle, WA Logged By: R. McLaughlin Notes:



Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA Logged By:

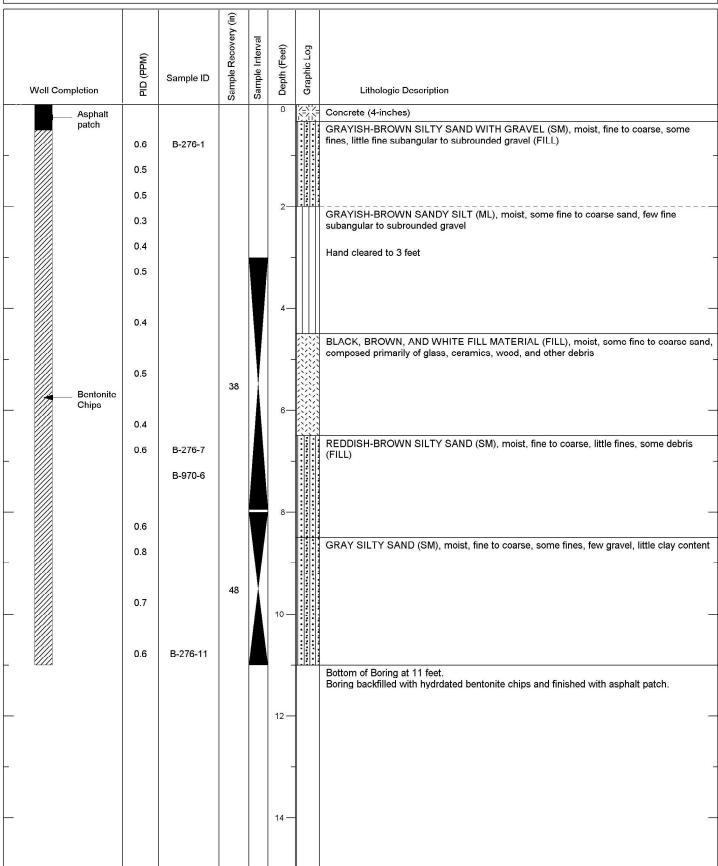
Notes:

R. McLaughlin

Total Drilled Depth: 11 feet Diameter of Boring: 2.25 inches Drill Date: 3/17/2020 Drilled By: Cascade Drilling

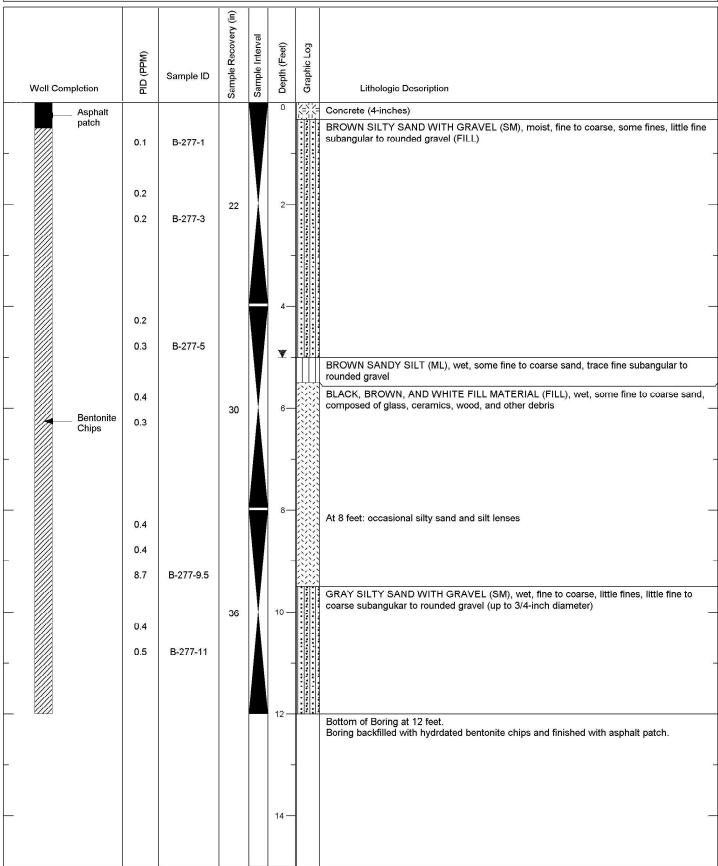
Geoprobe

Drill Method:



Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA Logged By: R. McLaughlin

Notes:



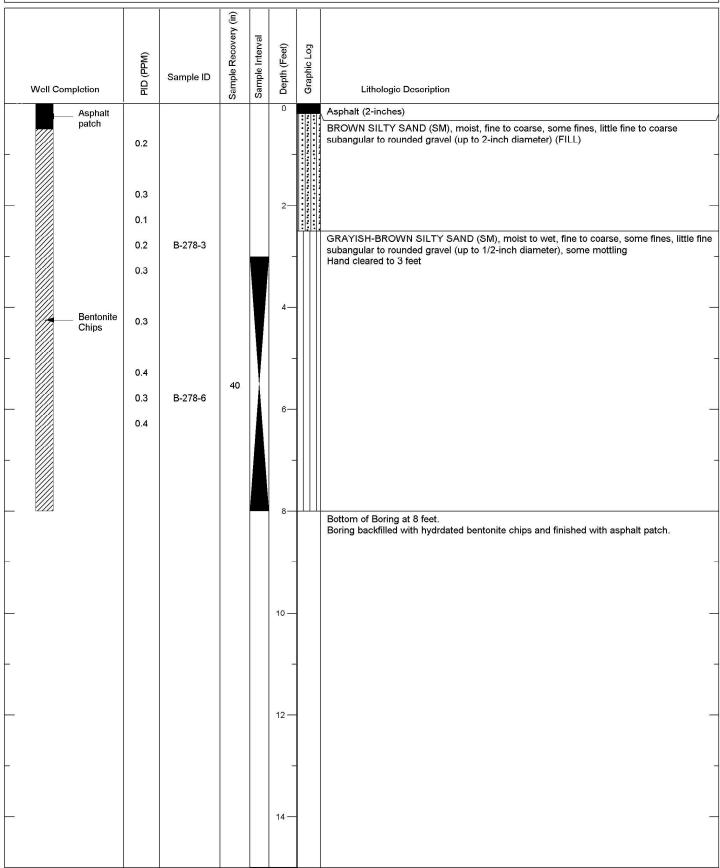
Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA Logged By:

Notes:

R. McLaughlin

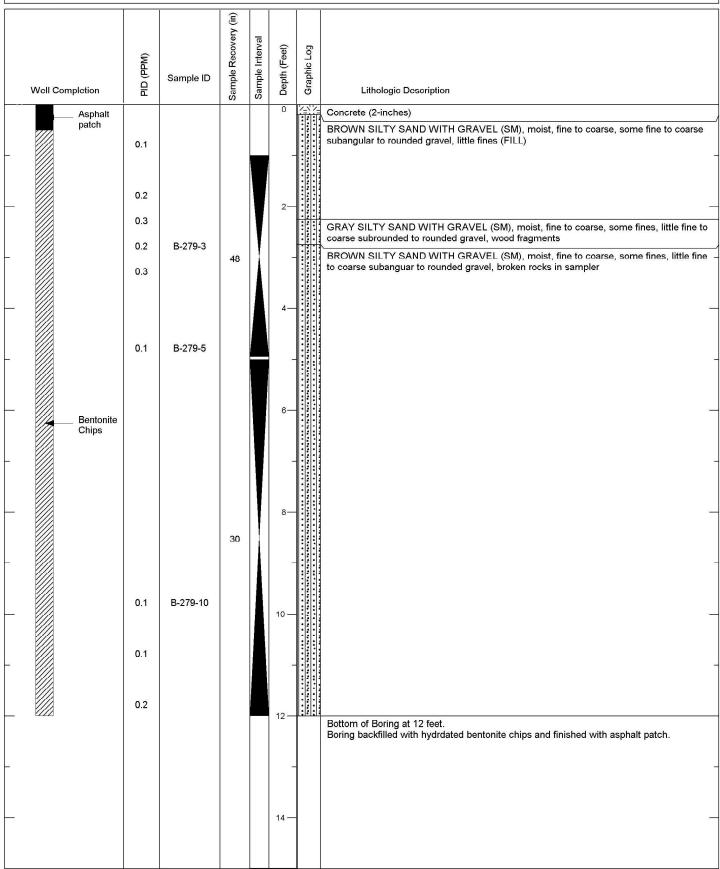
Total Drilled Depth: 12 feet Diameter of Boring: 2.25 inches Drill Date: Drilled By: Cascade Drilling

Limited Access Geoprobe Drill Method:



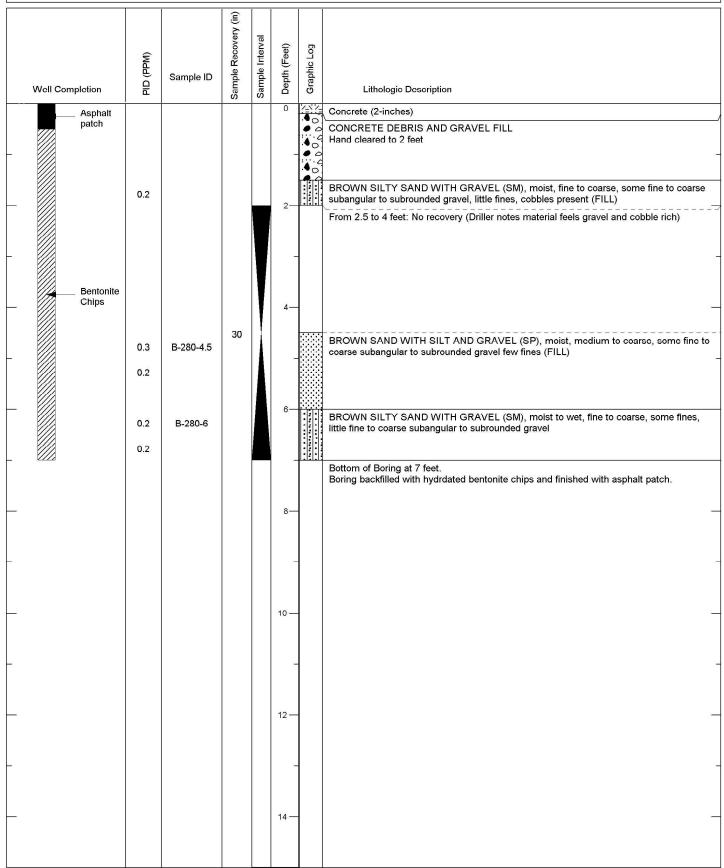
Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA

Logged By: R. McLaughlin Notes:



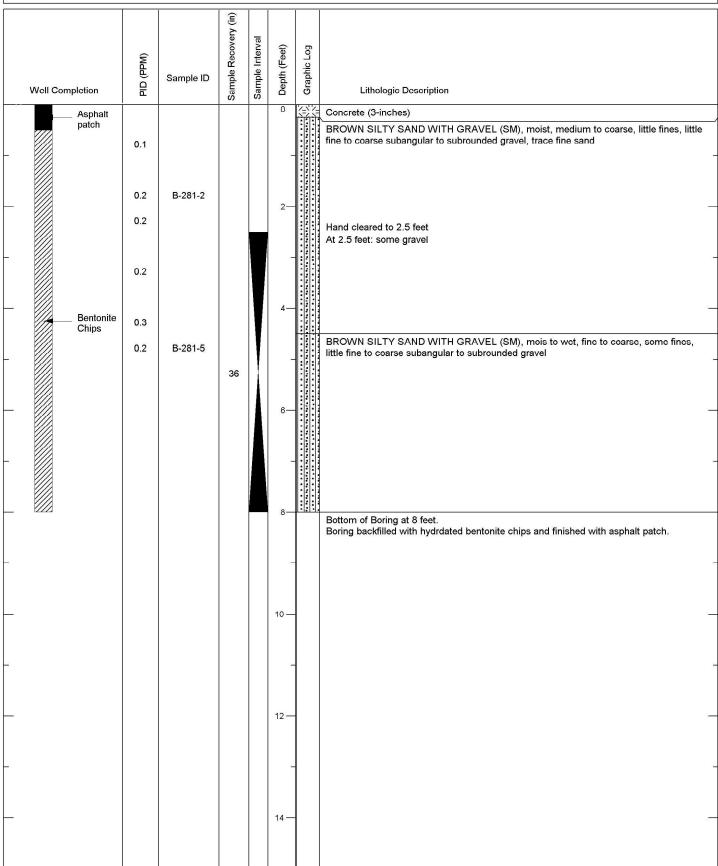
Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA Logged By: R. McLaughlin

Notes:



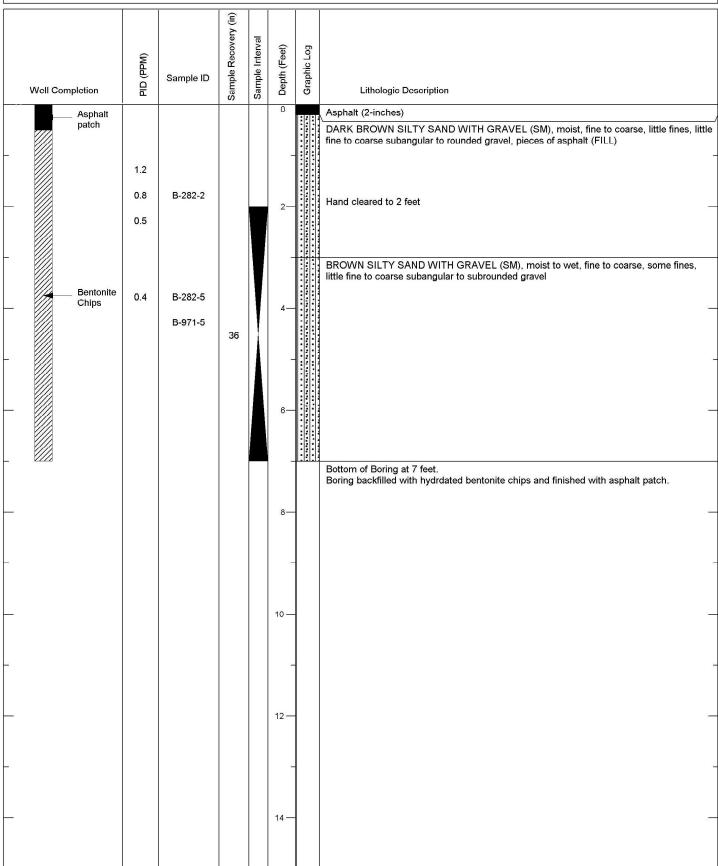
Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA

Logged By: R. McLaughlin Notes:



Project: Former American Linen Supply Project Number: 1413.001.05.202 Site Location: Seattle, WA Logged By: R. McLaughlin

Notes:



Project: Former American Linen Supply
Project Number: 1413.001.05.202
Site Location: Seattle, WA
Logged By: R. McLaughlin

Notes: