Sediment Core Log

SC-01A

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **10.2 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **0.1 feet**	Attempt No.: **4**
Client: **Port of Seattle**	Drive Length: **1.5 feet**	Northing: **212838.38** Easting: **1267791.78**
Location: **Seattle, Washington**	Recovery Length (feet): **1.4 feet**	Core Collection Date/Time: **03/26/19 @ 1145**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **10.3 feet @ 0831**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **93 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0	0	T25-SC01-0-1	Archive	0	0.0-3.0 Very loose, wet, dark gray, SILT with SAND (ML), 80% fines, 20% fine sand.	
					0.3-0.4 ft: Loose, moist, dark gray, POORLY GRADED SAND with SILT (SP-SM), 90% medium sand, 10% fines. @0.4 ft: wood fragment ~1.5 inches.	
1	-1			0	0.4-1.2 ft: Loose, moist, dark gray, POORLY GRADED GRAVEL (GP), 85% fine to coarse gravel, 10% coarse sand, 5% fines. Gravel is subangular up to 2 inches. End of core @ 1.2 ft.	
2	-2					
3	-3					
4	-4					
5	-5					
6	-6					
7	-7					
8	-8					
9	-9					
10						

ANCHOR QEA
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Notes: Full Suite: Grain size, Dioxins/furans, Metals, PAHs, PCB Aroclors, SVOCs, TS, TOC
Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS

Sediment Core Log

SC-01B

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **21.9 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **-11.5 feet**	Attempt No.: **5**
Client: **Port of Seattle**	Drive Length: **2.0 feet**	Northing: **212870.56** Easting: **1267791.64**
Location: **Seattle, Washington**	Recovery Length (feet): **2.0 feet**	Core Collection Date/Time: **3/26/19 @ 1200**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **10.4 feet @ 0848**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **100 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0						
	-12	T25-SC01B-0-1	Archive	0	0.0-0.2 ft: Soft, wet, dark gray, SANDY SILT (ML), 70% fines, 30% fine sand. 0.2-0.5 ft: Loose, moist, dark gray, SILTY SAND (SM), 85% fine sand, 15% fines. 0.5-1.0 ft: Loose, moist, dark gray, Shell Hash/Sand with White shell fragments.	
1				0		
	-13	T25-SC01B-1-2	Archive	0	1.0-2.0 ft: Loose, moist, loose, dark gray, Shell Hash/Gravel with white shell fragments, trace fines. Gravel is subrounded up to 0.5 inch and subangular up to 1.25 inches. End of core @2.0 ft.	
2						
	-14					
3						
	-15					
4						
	-16					
5						
	-17					
6						
	-18					
7						
	-19					
8						
	-20					
9						
	-21					
10						

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Notes: Full Suite: Grain size, Dioxins/furans, Metals, PAHs, PCB Aroclors, SVOCs, TS, TOC
Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS

Sediment Core Log
SC-02

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **13.5 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **-2.1 feet**	Attempt No.: **2**
Client: **Port of Seattle**	Drive Length: **7.5 feet**	Northing: **212812.47** Easting: **1267668.28**
Location: **Seattle, Washington**	Recovery Length (feet): **7.0 feet**	Core Collection Date/Time: **3/25/19 @ 1215**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **10.8 feet @ 0938**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **93 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0						
	-3	T25-SC02-0-1 T25-SC02-0-4.6 T25-SC52-0-4.6 (FD)	Archive Excavation Excavation		0.0-2.4: Loose, wet, dark gray, Shell Hash/Sand/Silt. Slight rainbow sheen, no odor. Trace organic material (wood fragments). Trace anthropogenic material (crumbles easily).	
1				0		
	-4	T25-SC02-1-2	Archive			
2				0		
	-5	T25-SC02-2-3	Archive		2.4-4.1: Loose, moist, dark gray, SILTY SAND (SM), 70% medium sand, 30% fines. Moderate shell hash, occasional organic material (wood fragments).	
3				0		
	-6	T25-SC02-3-4.6	Archive	0	@3.2 ft: Pocket of soft, moist, gray silt. Slight odor.	
4				0		
	-7				Native Contact 4.1-7.0 ft: Loose, moist, gray, POORLY GRADED SAND (SP), Trace shell hash/shells. Trace fines.	
5		T25-SC02-4.6-5.6	Full Suite	0		
	-8					
6				0		
	-9	T25-SC02-5.6-7	Archive Excavation			
7				0	End of core @ 7.0 ft.	
	-10					
8						
	-11					
9						
	-12					
10						

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Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS

Sediment Core Log
SC-03

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **11.1 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **0.6 feet**	Attempt No.: **1**
Client: **Port of Seattle**	Drive Length: **8.0 feet**	Northing: **212812.47** Easting: **1267668.28**
Location: **Seattle, Washington**	Recovery Length (feet): **6.8 feet**	Core Collection Date/Time: **3/24/19 @ 1015**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **11.7 feet @ 0830**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **85 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0						
1	0	T25-SC03-0-1.7 T25-SC03-0-5.7	Archive Excavation	0	0.0-1.7 ft: Very soft, wet, grayish-brown, SILT with SAND (ML), 80% fines, 20% medium sand. Occasional organics (fibers), trace sheen florets in sample homogenate.	
2	-1	T25-SC03-1.7-2.7	Archive	0	1.7-4.0 ft: Loose, moist, dark gray, POORLY GRADED SAND with SILT (SP-SM), 90% sand, 10% fines. Substantial shell hash, slight HC-like odor.	
3	-2	T25-SC03-2.7-3.7	Archive	0		
4	-3	T25-SC03-3.7-4.7	Archive	0	4.0-6.2 ft: Loose, moist, dark gray, POORLY GRADED SAND (SP), 95% medium sand, 5% fines, trace gravel. @4.5 ft: Anthropogenic fragments (2 inches), plastic fragment, possible concrete?	
5	-4	T25-SC03-4.7-5.7	Archive	0		
6	-5	T25-SC03-5.7-6.2	Full Suite	0	End of core @ 6.2 ft.	
7	-6					
8	-7					
9	-8					
10	-9					

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Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS

Sediment Core Log
SC-04

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **11.9 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **-1.7 feet**	Attempt No.: **1**
Client: **Port of Seattle**	Drive Length: **7.9 feet**	Northing: **212603.43** Easting: **1267597.9**
Location: **Seattle, Washington**	Recovery Length (feet): **7.2 feet**	Core Collection Date/Time: **3/24/19**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **10.2 feet @ 0933**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **91 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0						
	-2	T25-SC04-0-1 T25-SC04-0-4	Archive Excavation		0.0-1.0 ft: Very loose, wet, dark gray, SILT with SAND (ML), 80% fines, 20% medium sand. Trace rainbow sheen florettes, moderated anthropogenic material (asphalt like fragment ~2 inches).	
1				0		
	-3	T25-SC04-1-2	Archive		1.0-4.0 ft: Loose, wet, dark gray, SILTY SAND (SM), 80% medium sand, 20% fines. Occasional organic material (wood fibers). Slight rainbow sheen throughout, slight HC-like odor.	
2				0	@1.0-2.0 ft: Substantial organic material (asphalt fragments up to 2 inches)	
	-4	T25-SC04-2-3	Archive Geotech			
3				0		
	-5	T25-SC04-3-4	Archive		@4.0 ft: one piece of an asphalt-like fragment.	
4				0		
	-6	T25-SC04-4-5	Full Suite		4.0-5.8 ft: Loose, moist, dark gray, POORLY GRADED SAND (SP), 100% medium sand, trace gravel, trace fines, trace biota shells.	
5				0	@4.7-5.0 ft: Layer of silt and organic material (wood fibers). Occasional gravel (subrounded up to 3/4 inch). Slight HC-like odor. @5.0-5.5 ft: Anthropogenic material (asphalt shingle).	
	-7	T25-SC04-5-5.6 T25-SC04-5-6	Geotech Archive			
6				0.1	5.8-6.7 ft: Soft, moist, medium dense, dark olive gray, SILT with Organics (ML), 100% fines, trace sand. Substantial organic material (wood fragments, fibers). Slight to moderate H2S-like odor.	
	-8	T25-SC04-6-6.7	Archive		End of core @6.7 ft.	
7						
	-9					
8						
	-10					
9						
	-11					
10						

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Notes: Full Suite: Grain size, Dioxins/furans, Metals, PAHs, PCB Aroclors, SVOCs, TS, TOC
Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS

Sediment Core Log

SC-05

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **22.8 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **-13.0 feet**	Attempt No.: **3**
Client: **Port of Seattle**	Drive Length: **2.0 feet**	Northing: **212412.09** Easting: **1267419.4**
Location: **Seattle, Washington**	Recovery Length (feet): **2.0 feet**	Core Collection Date/Time: **3/26/19 @ 1220**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **9.8 feet @ 1023**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **100 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0	-13					
		T25-SC05-0-1	Full Suite	0	0.0-1.5 ft: Loose, wet, dark gray, SILTY SAND (SM), 75% medium sand, 25% fines.	
1	-14			0		
		T25-SC05-1-2	Archive	0	1.5-2.0 ft: Loose, moist, dark gray, POORLY GRADED SAND with GRAVEL (SP), 80% medium sand, 20% fine to coarse gravel (subangular up to 2.0 inches), trace fines. End of core @ 2.0 ft.	
2	-15					
3	-16					
4	-17					
5	-18					
6	-19					
7	-20					
8	-21					
9	-22					
10	-23					

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Notes: Full Suite: Grain size, Dioxins/furans, Metals, PAHs, PCB Aroclors, SVOCs, TS, TOC
Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS

Sediment Core Log

SC-06

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **10.6 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **-6.0 feet**	Attempt No.: **1**
Client: **Port of Seattle**	Drive Length: **4.0 feet**	Northing: **212519.45** Easting: **1267525.53**
Location: **Seattle, Washington**	Recovery Length (feet): **3.4 feet**	Core Collection Date/Time: **3/26/19**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **4.6 feet @ 1303**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **85 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0	-6	T25-SC05-0-1 T25-SC55-0-1 (FD)	Full Suite	0	0.0-0.5 ft: Loose, moist to wet, dark gray, SILTY SAND (SM), 80% medium sand, 20% fines.	
1	-7	T25-SC05-1-1.5	Archive	0	0.5-1.5 ft: Loose, moist, gray, POORLY GRADED SAND (SP), 100% medium sand. @0.6 ft: Biota (one worm). Pocket of white spongey material. @1.0 ft: Occasional pockets of organics (wood fragments, fibers).	
2	-8	T25-SC05-1.5-2.5	Archive	19.3	1.5-3.3 ft: Loose, moist, light brown, Organic material (wood splinters less than 1 inch, fragments, fibers). 80% organics, 20% medium sand. Occasional organic material (shells/barnacle fragments).	
3	-9	T25-SC05-2.5-3.3	Archive	13.1	@3.0 ft: 1 inch layer of decomposed organic material. End of core @ 3.3 ft.	
4	-10					
5	-11					
6	-12					
7	-13					
8	-14					
9	-15					
10	-16					

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Notes: Full Suite: Grain size, Dioxins/furans, Metals, PAHs, PCB Aroclors, SVOCs, TS, TOC
Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS

Sediment Core Log
SC-07

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **21.0 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **-21 feet**	Attempt No.: **1**
Client: **Port of Seattle**	Drive Length: **9.5 feet**	Northing: **212704.13** Easting: **1267571.79**
Location: **Seattle, Washington**	Recovery Length (feet): **7.4**	Core Collection Date/Time: **3/25/19**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **0.0 feet @1517**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **78 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0	-21					
		T25-SC07-0-1 T25-SC57-0-1 (FD)	Full Suite	0.2	0.0-5.0 ft: Soft, moist, dark gray, SILT (ML), 85% fines, 15% fine sand. Occasional pockets with increase sand content. Occasional organic material (fibers, fragments). Slight H2S odor.	
1	-22			1.8		
		T25-SC07-1-2 T25-SC07-1-2	Archive Geotech			
2	-23			5.9		
		T25-SC07-2-3	Archive			
3	-24			6.3		
		T25-SC07-3-4	Archive		@3.0 ft: No odor. @3.5 ft: anthropogenic debris (3 inch thin plastic wrapper).	
4	-25			0.3		
		T25-SC07-4-5	Archive			
5	-26			0.9	5.0-7.0 ft: Medium dense, moist, olive gray, SILT with decomposed organic material (ML-OL), 80% fines, 20% fine sand, substantial organic material (fibers, fragments, decomposed material).	
		T25-SC07-5-6	Archive			
6	-27			1.9		
		T25-SC07-6-7	Archive		End of core @ 7.0 ft.	
7	-28			1.9		
8	-29					
9	-30					
10	-31					

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Notes: Full Suite: Grain size, Dioxins/furans, Metals, PAHs, PCB Aroclors, SVOCs, TS, TOC
Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS

Sediment Core Log
SC-08

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **25.0 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **-22.5 feet**	Attempt No.: **1**
Client: **Port of Seattle**	Drive Length: **12.0 feet**	Northing: **212881.97** Easting: **1267624.89**
Location: **Seattle, Washington**	Recovery Length (feet): **10.6 feet**	Core Collection Date/Time: **3/25/19 @ 1350**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **2.5 feet @1311**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **88 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0	-22					
		T25-SC08-0-1	Full Suite	0.1	0.0-10.0 ft: Very soft, wet, dark gray, SILT (ML), 90% fines, 10% fine sand, moderate shell hash. Slight H2S-like odor. Trace organic material (fibers) throughout.	
1	-23	T25-SC08-1-2	Archive	0.1	@1.0 ft: Grades to moist.	
2	-24	T25-SC08-2-3	Archive	4.7		
3	-25	T25-SC08-3-4	Archive	3.3	@3.0 ft: Occasional shell hash.	
4	-26	T25-SC08-4-5	Archive	6.0		
5	-27	T25-SC08-5-6	Archive	0.8	@5.0 ft: No H2S-like odor. @5.6 ft: 2 inch layer of substantial shells.	
6	-28	T25-SC08-6-7	Archive	0.8	@6.0 ft: Color grades to dark olive gray. Slight HC-like odor.	
7	-29	T25-SC08-7-8	Archive	1.7		
8	-30	T25-SC08-8-9	Archive	1.9	@8.5 ft: Trace shells.	
9	-31	T25-SC08-9-10	Archive	1.1		
10	-32			1.9	End of core @ 10.0 ft.	

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Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS

Sediment Core Log

SC-09A

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **32.8 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **-30.9 feet**	Attempt No.: **5**
Client: **Port of Seattle**	Drive Length: **2.7 feet**	Northing: **212899.43** Easting: **1267739.39**
Location: **Seattle, Washington**	Recovery Length (feet): **1.5 feet**	Core Collection Date/Time: **3/24/19 @ 1415**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **1.85 feet @1557**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **56 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0	-31	T25-SC09-0-1	Archive	0.9 4.2	0.0-1.5 ft: Soft, moist, dark gray, SILT (ML), 80% fines, 20% fine sand. Slight HC-like odor. Trace shells (mussels). Trace anthropogenic fragments.	
1	-32	T25-SC09-1-1.5	Archive	7.6 3.8	@1.1 ft: Grades to gray. End of core @1.5 feet.	
2	-33					
3	-34					
4	-35					
5	-36					
6	-37					
7	-38					
8	-39					
9	-40					
10						

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Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS

Sediment Core Log

SC-09B

Project: **Port of Seattle T-25S Design Characterization**	Water Depth (feet): **14.9 feet**	Logged By: **Evan Malczyk**
Project #: **160003-03.03**	Mudline Elevation (ft MLLW): **-13.8 feet**	Attempt No.: **6**
Client: **Port of Seattle**	Drive Length: **5.0 feet**	Northing: **212873.88** Easting: **1267749.02**
Location: **Seattle, Washington**	Recovery Length (feet): **4.4 feet**	Core Collection Date/Time: **3/26/19**
Contractor: **Gravity Consulting**	Predicted Tidal Elevation (feet MLLW): **1.1 feet @ 1448**	Horizontal Datum: **NAD 83 WA State Plane North, feet**
Method/Core Diameter: **Vibracore / 4 inches**	Percent Recovery: **88 %**	Vertical Datum: **MLLW, feet**

In-situ Depth (feet)	Elevation (feet MLLW)	Sample	Chemical Analysis	PID	Sediment Description Samples and Descriptions are in in-situ depths. Classification Scheme: USCS	In-situ Interval
0	-15	T25-SC09B-0-1	Full Suite	2.2	0.0-4.0 ft: Very soft, moist, grayish-brown, SILT (ML), 100% fines, trace fine sand, occasional organic material (fibers).	
1	-16	T25-SC09B-1-2	Archive	19.9	@1.0 ft: Grades to soft.	
2	-17	T25-SC09B-2-3	Archive	9.7 1.2	@2.0 ft: Grades to gray.	
3	-18	T25-SC09B-3-4	Archive	0.1 0.7 4.9	End of core @ 4.0 ft.	
4	-19					
5	-20					
6	-21					
7	-22					
8	-23					
9	-24					
10						

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Notes: Full Suite: Grain size, Dioxins/furans, Metals, PAHs, PCB Aroclors, SVOCs, TS, TOC
Excavation Suite: PAHs, PCB Aroclors, SVOCs, TCLP Metals, TS