



Earth Solutions NW  
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CLIENT Ventas Construction Inc. PROJECT NAME Soundview Business Center  
 PROJECT NUMBER 4011.03 PROJECT LOCATION Everett, Washington  
 DATE STARTED 4/18/16 COMPLETED 4/18/16 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_  
 DRILLING CONTRACTOR Holocene Drilling GROUND WATER LEVELS:  
 DRILLING METHOD HSA AT TIME OF DRILLING ---  
 LOGGED BY BJP CHECKED BY BTS AT END OF DRILLING ---  
 NOTES Topsoil AFTER DRILLING --

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0							
5							Brown silty SAND with ravel, loose to medium dense, moist
	X SS	18	8-32-50/5"	MC = 27.20%			-becomes dense, wood debris observed, no sample, root intrusion
							-becomes gray
10					SM		
	X SS	89	2-12-32 (44)	MC = 10.70%			
15							
	X SS	100	4-14-26 (40)	MC = 14.00%			
20							

GENERAL BH / TP / WELL: 4011-3.GPJ GINT US.GDT: 5/12/16



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**BORING NUMBER B-1**

CLIENT Ventas Construction Inc.

PROJECT NAME Soundview Business Center

PROJECT NUMBER 4011.03

PROJECT LOCATION Everett, Washington

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
20	SS	100	13-20-26 (46)	MC = 5.90%	SM		Gray silty SAND, dense, moist -higher sand content to B.O.H.
25	SS	100	13-25-32 (57)	MC = 7.40% Fines = 12.10%			[USDA Classification: slightly gravelly SAND]
30	SS	100	11-19-27 (46)	MC = 20.10%			-water seepage -becomes wet
							31.5 Boring terminated at 31.5 feet below existing grade. Groundwater seepage encountered at 29.0 feet during drilling. Boring backfilled with bentonite. Bottom of hole at 31.5 feet.

GENERAL BH / TP / WELL 4011-3.GPJ GINT US.GDT 5/12/16



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**BORING NUMBER B-2**

CLIENT Ventas Construction Inc. PROJECT NAME Soundview Business Center  
 PROJECT NUMBER 4011.03 PROJECT LOCATION Everett, Washington  
 DATE STARTED 4/18/16 COMPLETED 4/18/16 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_  
 DRILLING CONTRACTOR Holocene Drilling GROUND WATER LEVELS:  
 DRILLING METHOD HSA AT TIME OF DRILLING --  
 LOGGED BY BJP CHECKED BY BTS AT END OF DRILLING --  
 NOTES Silty Sand with Gravel AFTER DRILLING --

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0							
5	SS	67	15-34-44 (78)	MC = 8.50%	SM		Brown silty SAND with gravel, loose, moist  -becomes gray, very dense, moist
10	SS	101	44-50/6"	MC = 16.10% Fines = 73.10%			Gray SILT with sand, very dense, moist [USDA Classification: slightly gravelly LOAM]
15	SS	73	9-50/5"	MC = 9.50%	ML		
20							

GENERAL BH / TP / WELL 4011-3.GPJ GINT US.GDT 5/12/16

(Continued Next Page)



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**BORING NUMBER B-2**

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CLIENT Ventas Construction Inc.

PROJECT NAME Soundview Business Center

PROJECT NUMBER 4011.03

PROJECT LOCATION Everett, Washington

GENERAL BH / TP / WELL: 4011-3.GPJ, GINT US GDT 5/12/16

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
20	SS	73	9-50/5"	MC = 8.70%	ML		Gray SILT with sand, very dense, moist <i>(continued)</i>
25	SS	67	50/6"	MC = 6.40%			
30	SS	50	50/6"	MC = 4.50%			
35	SS	67	50/6"	MC = 6.00%			
40	SS	33	50/6"	MC = 5.90%			

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**BORING NUMBER B-2**

CLIENT Ventas Construction Inc.

PROJECT NAME Soundview Business Center

PROJECT NUMBER 4011.03

PROJECT LOCATION Everett, Washington

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	TESTS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
45	SS	67	50/6"	MC = 7.10%	ML		Gray SILT with sand, very dense, moist <i>(continued)</i>
50	SS	98	50/6"	MC = 4.90% Fines = 7.20%			

GENERAL BH / TP / WELL 4011-3.GPJ GINT US.GDT 5/12/16



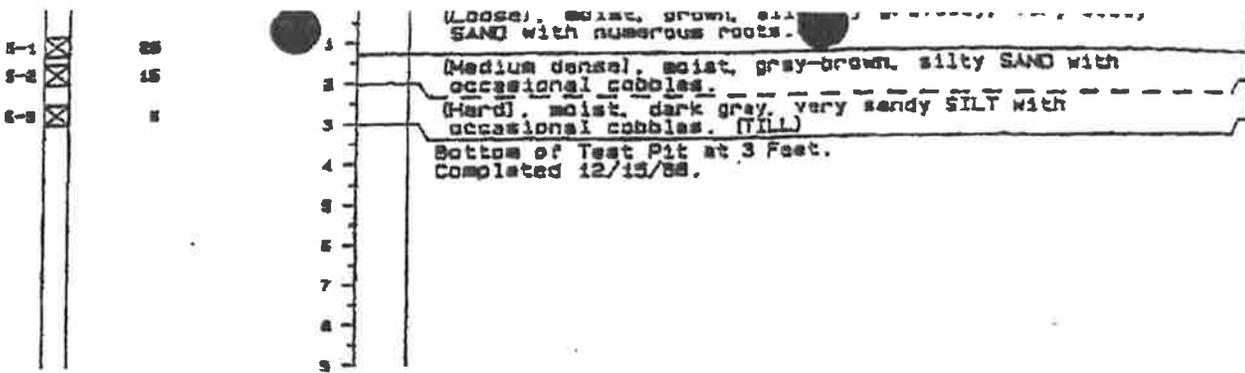
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CLIENT Veritas Construction PROJECT NAME Soundview Business Center  
 PROJECT NUMBER 4011 PROJECT LOCATION Everett, Washington  
 DATE STARTED 7/31/15 COMPLETED 7/31/15 GROUND ELEVATION 302 ft TEST PIT SIZE \_\_\_\_\_  
 EXCAVATION CONTRACTOR NW Excavating GROUND WATER LEVELS:  
 EXCAVATION METHOD \_\_\_\_\_ AT TIME OF EXCAVATION ---  
 LOGGED BY BTS CHECKED BY BTS AT END OF EXCAVATION ---  
 NOTES Depth of Topsoil & Sod 10"- 12": brambles AFTER EXCAVATION ---

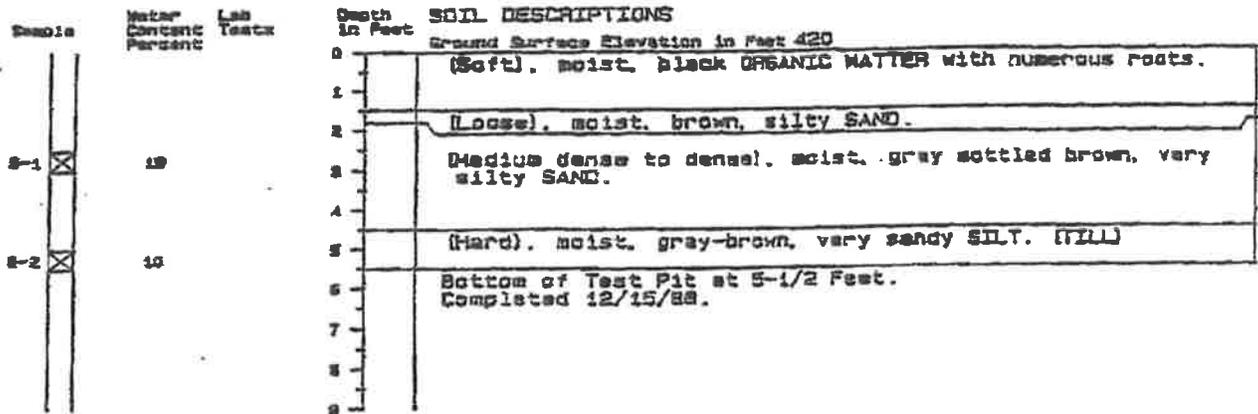
DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0					
				Brown silty SAND with gravel, medium dense, moist (Weathered Till)	
		SM		-oxide staining	
5				-becomes gray, dense to very dense (weathered till)	
				-sparse cobbles and boulders	
				-increased sand content	295.0
		SP-SM		Gray poorly graded SAND with silt, dense, moist	
					293.0
		SM		Gray silty SAND with gravel, very dense, moist	
10					292.0
				Test pit terminated at 10.0 feet below existing grade. No groundwater encountered during excavation. Bottom of test pit at 10.0 feet.	

GENERAL BH / TP / WELL 4011.GPJ GINT US.GDT 9/12/15

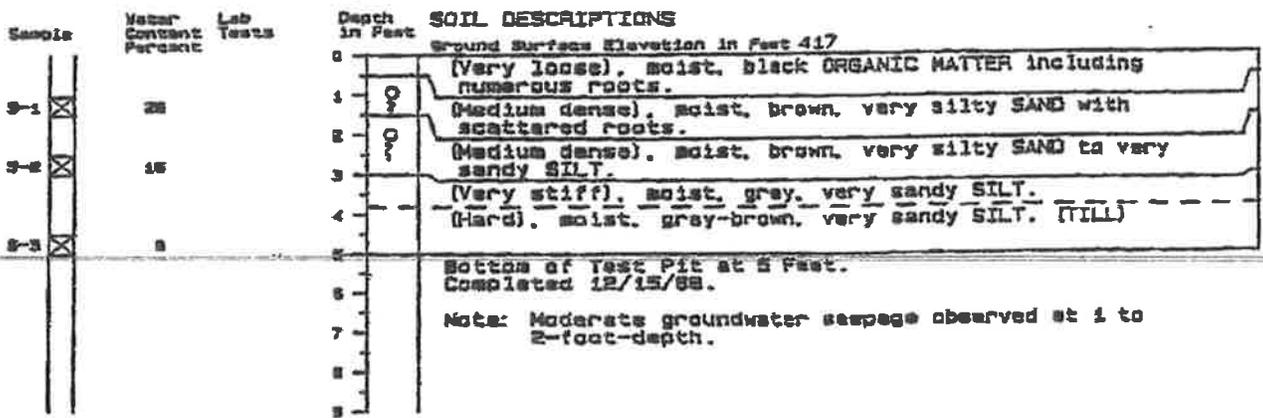




## Test Pit Log TP-11



## Test Pit Log TP-12

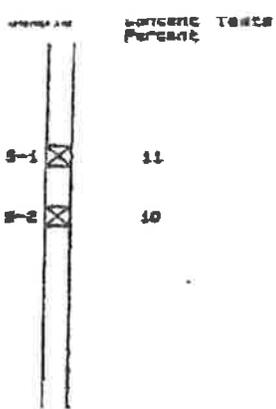


1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water conditions, if indicated, are at time of excavation. Conditions may vary with time.

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 HART-CROWSER & associates, inc.  
 Figure A-5

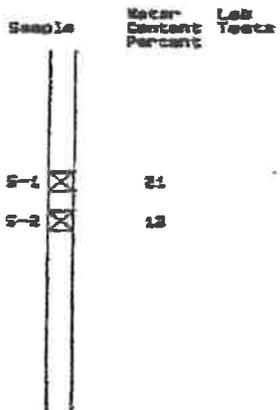
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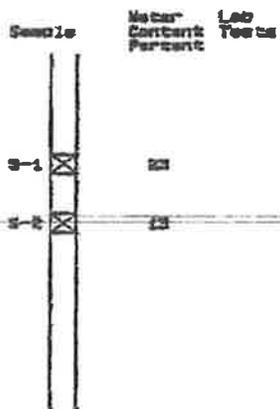
Depth in Feet	SOIL DESCRIPTIONS
0	Ground Surface Elevation in Feet 388
0	(Loose to soft), moist, black ORGANICS with thick root growth.
1	(Medium stiff), moist, brown, slightly gravelly, sandy SILT.
2	(Stiff to very stiff), moist, mottled gray-brown, silty, very gravelly SAND.
3	(Very stiff to hard), moist, gray, very gravelly, sandy SILT. (FILL)
4	Bottom of Test Pit at 4-1/2 Feet. Completed 12/21/88.
5	Notes: Seepage at 2 feet is about 2-3 gpm.
6	
7	
8	
9	

## Test Pit Log TP-19



Depth in Feet	SOIL DESCRIPTIONS
0	Ground Surface Elevation in Feet 383
0	(Loose to soft), moist, black ORGANICS with thick root growth.
1	(Medium stiff), moist, brown, very sandy SILT.
2	(Stiff to very stiff), wet, mottled gray-brown, slightly gravelly, very sandy SILT with occasional cobble.
3	(Very stiff to hard), moist, gray, slightly gravelly, very sandy SILT with occasional cobble. (FILL)
4	Bottom of Test Pit at 4-1/2 Feet. Completed 12/21/88.
5	Notes: Light seepage at 3-foot-depth.
6	
7	
8	
9	

## Test Pit Log TP-20



Depth in Feet	SOIL DESCRIPTIONS
0	Ground Surface Elevation in Feet 401
0	(Loose to soft), moist, black ORGANICS with thick root growth.
1	(Medium stiff), moist, brown, sandy SILT.
2	(Stiff), moist, mottled gray-brown, gravelly, very sandy SILT.
3	(Stiff to very stiff), moist, gray, gravelly, very sandy SILT. (FILL)
4	Becomes very stiff to hard.
5	Bottom of Test Pit at 5 Feet. Completed 12/21/88.
6	Notes: Seepage at 3 feet is about 1-2 gpm.
7	
8	
9	

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Ground water conditions, if indicated, are at time of excavation. Conditions may vary with time.

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 Figure A-6

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