

**APPENDIX A
BORING LOGS**

INTERIM ACTION WORK PLAN
Block 38 West Property
500 through 536 Westlake Avenue North
Seattle, Washington

Farallon PN: 397-019



Log of Test Pit: DW-5

Client: Vulcan
Project: Block 38W
Location: Seattle, Washington

Date/Time Started: 1/26/19 @ 1215
Date/Time Completed: 1/26/19 @ 1300
Equipment: Airknife
Excavation Company: APS
Excavation Foreman: NA
Excavating Method: Airknife

Sampler Type: Hand Auger
Depth of Water (ft bgs): 2.9
Total Excavation Depth (ft bgs): 3.2

Farallon PN: 397-019

Logged By: Yusuf Pehlivan

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
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0	0.0-0.8': Concrete.		CO	[USGS Graphic]			
	0.8-3.2': Well graded SAND with silt and gravel, fine to coarse sand, fine and coarse gravel, brown, moist, wet at 2.9' bgs, no odor. Railroad tie and woody debris found at 3.2' bgs. Water fills test pit.		SW-SM	[USGS Graphic]			
5							



Log of Test Pit: DW-6

Client: Vulcan
Project: Block 38W
Location: Seattle, Washington

Date/Time Started: 1/26/19 @ 1345
Date/Time Completed: 1/26/19 @ 1400
Equipment: Airknife
Excavation Company: APS
Excavation Foreman: NA
Excavating Method: Airknife

Sampler Type: Hand Auger
Depth of Water (ft bgs): NE
Total Excavation Depth (ft bgs): 3.5

Farallon PN: 397-019

Logged By: Yusuf Pehlivan

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
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0		0.0-3.5': Well-graded SAND with silt and gravel (50% sand, 40% gravel, 10% silt), fine to coarse sand, fine and coarse gravel, dark brown, moist, no odor, trace rock, brick, metal and wood debris. 3.5' bgs old metal pipe encountered, unable to advance further.	SW-SM				
5							



Log of Boring: FB-01

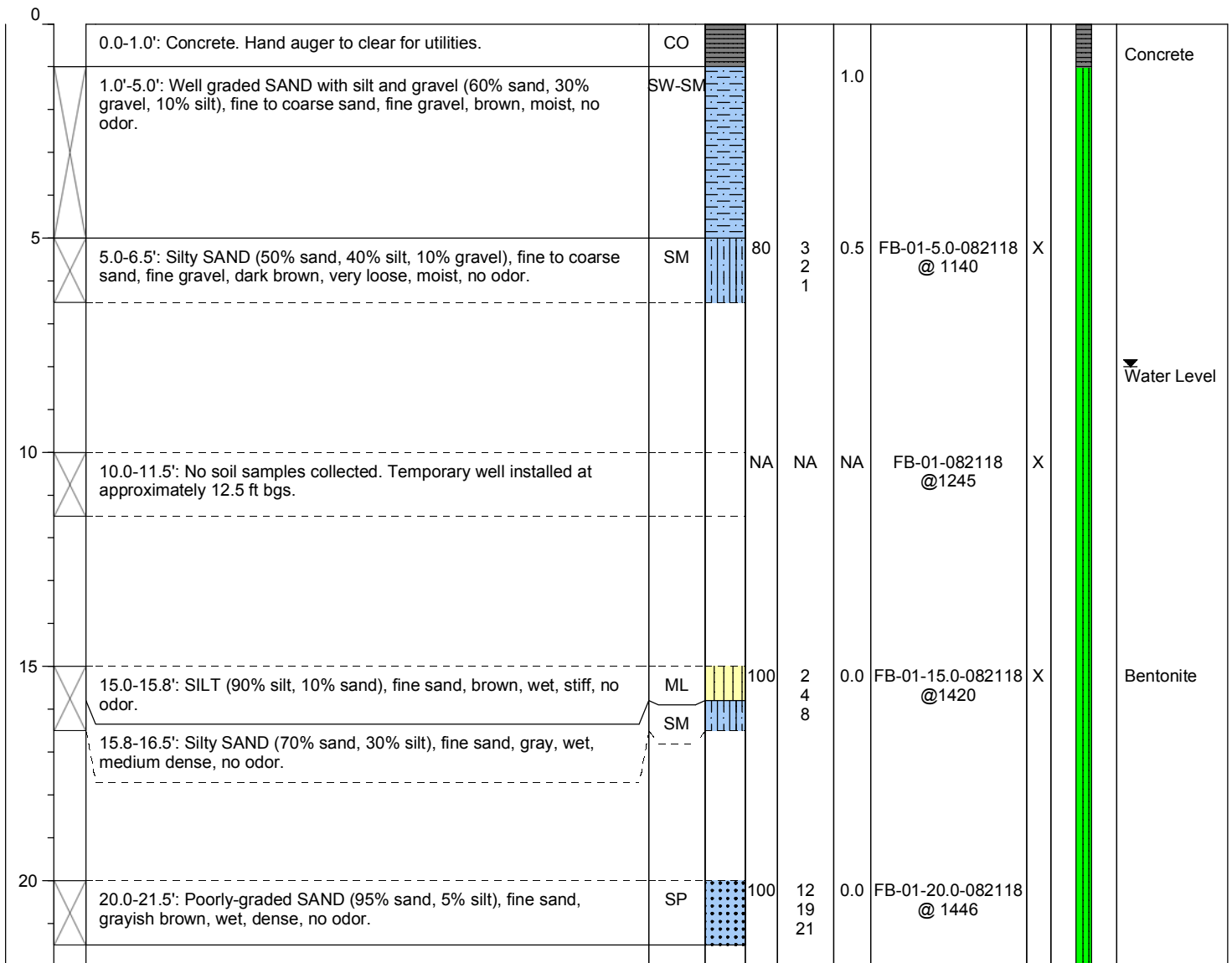
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/21/2018 @ 1126 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/21/2018 @ 1540 **Drive Hammer (lbs.):** 140
Equipment: MiniTrack **Depth of Water ATD (ft bgs):** 8.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 41.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA



Log of Boring: FB-01

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/21/2018 @ 1126 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/21/2018 @ 1540 **Drive Hammer (lbs.):** 140
Equipment: MiniTrack **Depth of Water ATD (ft bgs):** 8.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 41.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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25	25.0-26.5'	SILT (90% silt, 10% sand), fine sand, gray, wet, stiff, no odor.	ML		100	3 4 5	0.0	FB-01-25.0-082118 @ 1500		
30	30.0-31.5'	Poorly graded SAND (95% sand, 5% silt), medium sand, gray, wet, dense, no odor.	SP		100	14 20 25	0.0	FB-01-30.0-082118 @ 1515	X	
35	35.0-36.5'	Silty SAND (60% sand, 40% silt), fine sand, gray, moist, very dense no odor.	SM		100	17 35 26	0.0	FB-01-35.0-082118 @ 1530		Bentonite
40	40.0-41.5'	Poorly graded SAND (95% sand, 5% silt), fine sand, dark gray, very dense, moist, no odor.	SP		100	12 15 50 5	0.0	FB-01-40.0-082118 @ 1540		

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA



Log of Boring: FB-02

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/20/2018 @ 1045 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/20/2018 @ 1545 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 10.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 41.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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0	0.0-0.7'	Concrete, hand auger to clear for utilities.	CO							Concrete
	2.5-3.5'	Well graded GRAVEL with silt and sand (50% gravel, 40% sand, 10% silt), fine to coarse sand, fine gravel, dark brown, moist, no odor. (Fill).	FILL					0.5 FB-02-3.0-082018 @1155		
5	5.0-6.5'	Well graded GRAVEL with silt and sand (50% gravel, 40% sand, 10% silt), fine to coarse sand, fine gravel, dark brown, moist, loose, no odor. Wood debris present. (Fill).	FILL		100	11 5 3		0.9 FB-02-5.0-082018 @1220	X	
10	10.0-11.5'	Sandy SILT (70% silt, 30% sand), fine to medium sand, dark brown, wet, very soft, no odor. Mottling present.	ML		100	1 1 1		0.2 FB-02-10.0-082018 @1255	X	Water Level
15	15.0-16.5'	SILT with sand (75% silt, 25% sand), fine to medium sand, grayish brown, moist, stiff, no odor.	ML		100	4 4 6		0.5 FB-02-15.0-082018 @1245		Bentonite
20	20.0-21.5'	Poorly graded SAND with silt (90% sand, 10% silt), fine sand, gray, wet, medium dense, no odor.	SP-SM		100	14 11 5		0.2 FB-02-20.0-082018 @1310		

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA



Log of Boring: FB-02

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/20/2018 @ 1045 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/20/2018 @ 1545 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 10.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 41.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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25	25.0-26.5'	Silty SAND (80% sand, 20% silt), fine to medium sand, gray, wet, dense, slight petroleum-like odor.	SM		100	16 20 20	0.4	FB-02-25.0-082018 @1430	X	
30	30.0-31.5'	Sandy SILT (60% silt, 40% sand), fine sand, gray, moist to wet, very stiff, slight petroleum-like odor.	ML		100	12 16 16	0.7	FB-02-30.0-082018 @1454		
35	35.0-36.5'	Poorly graded SAND with silt (90% sand, 10% silt), fine to medium sand, gray, moist to wet, medium dense, no odor.	SP-SM		100	5 8 12	0.6	FB-02-35.0-082018 @1520	X	Bentonite
40	40.0-41.5'	No Recovery. Heaving sands prevented drilling beyond 40.0 ft bgs.			0			No Sample		

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA



Log of Boring: FB-03

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/23/2018 @ 1200 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/23/2018 @ 1540 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 17.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 41.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0	0.0-0.6'	Concrete, asphalt fill material. Hand auger to clear for utilities.	CO							Concrete
5	5.0-6.5'	SILT with sand (80% silt, 10% sand, 10% gravel), fine sand, fine gravel, gray, moist, medium stiff, organic odor. Some charcoal and wood debris. (Fill).	FILL		100	3 3 3	0.1	FB-03-5.0-082318 @1250		
10	10.0-11.5'	SILT (100% silt), gray, moist, medium stiff, no odor.	ML		100	3 3 3	0.2	FB-03-10.0-082318 @1310	X	Bentonite
15	15.0-16.5'	Sandy SILT (60% silt, 40% sand), fine sand, gray, wet, medium stiff, no odor.	ML		100	2 3 5	0.2	FB-03-15.0-082318 @1325	X	
20	20.5-21.5'	No soil sample. Temporary well installed for reconnaissance groundwater sampling.			NA	NA	NA	FB-03-082318 @ 14:00	X	

Water Level

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA



Log of Boring: FB-03

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/23/2018 @ 1200 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/23/2018 @ 1540 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 17.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 41.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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25	25.0-26.5'	Poorly graded SAND with silt (90% sand, 10% silt), medium sand, gray, wet, very dense, no odor.	SP-SM		100	19 22 33	0.2	FB-03-25.0-082318 @1500	X	
30	30.0-31.5'	Poorly graded SAND (100% sand), fine to medium sand, grayish brown, wet, dense, no odor.	SP		100	10 21 27	0.3	FB-03-30.0-082318 @1520		Bentonite
35	35.0-36.5'	Poorly graded SAND with silt (90% sand, 10% silt), fine sand, gray, wet, medium dense, no odor.	SP-SM		100	14 21 13	0.3	FB-03-35.0-082318 @1530	X	
40	40.0-41.5'	Silty SAND (70% sand, 30% silt), fine sand, grayish brown, wet, medium dense, no odor.	SM		100	11 16 20	0.1	FB-03-40.0-082318 @1540		

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA



Log of Boring: FB-04

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/21/2018 @ 0645 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/21/2018 @ 0900 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 17.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 33.0
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0	0.0-2.0'	Asphalt. Hand auger to clear for utilities.	AC							Concrete
2.0-3.0'	2.0-3.0'	SILT with sand (80% silt, 20% sand), fine sand, dark brown, moist, petroleum-like odor. Peat and organic material present. (Fill).	FILL				0.5	FB-04-3.0-082118 @0645		
5.0-6.5'	5.0-6.5'	SILT with sand (80% silt, 20% sand), fine sand, dark brown, moist, very soft, no odor. Debris and organic material present. (Fill).	FILL		100	1 1 1	0.9	FB-04-5.0-082118 @0650	X	
10.0-11.5'	10.0-11.5'	SILT with sand (80% silt, 20% silt), fine to medium sand, dark brown, moist to wet, stiff, no odor. Debris present. (Fill).	FILL		100	1 5 10	0.2	FB-04-10.0-082118 @0710	X	Bentonite
15.0-16.5'	15.0-16.5'	Silty SAND (80% sand, 20% silt), fine to medium sand, gray, wet, loose, no odor.	SM		100	3 2 4	0.5	FB-04-15.0-082118 @0735	X	Water Level
20.0-21.5'	20.0-21.5'	Poorly graded sand (100% sand), fine to medium sand, gray, wet, dense, no odor.	SP		100	7 15 28	0.2	FB-04-20.0-082118 @0745	X	
25.0-26.5'	25.0-26.5'	SILT with sand (60% silt, 40% sand), fine sand, gray, wet, very stiff, no odor.	ML		100	10 11 17	0.4	FB-04-25.0-082118 @0815		Bentonite
30.0-31.5'	30.0-31.5'	Poorly graded SAND (100% sand), fine to medium sand, gray, wet, dense, no odor.	SP		100	9 14 30	0.7	FB-04-30.0-082118 @0850	X	
35		Refusal at 33.0' bgs due to heaving sands.								

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA



Log of Boring: FB-05

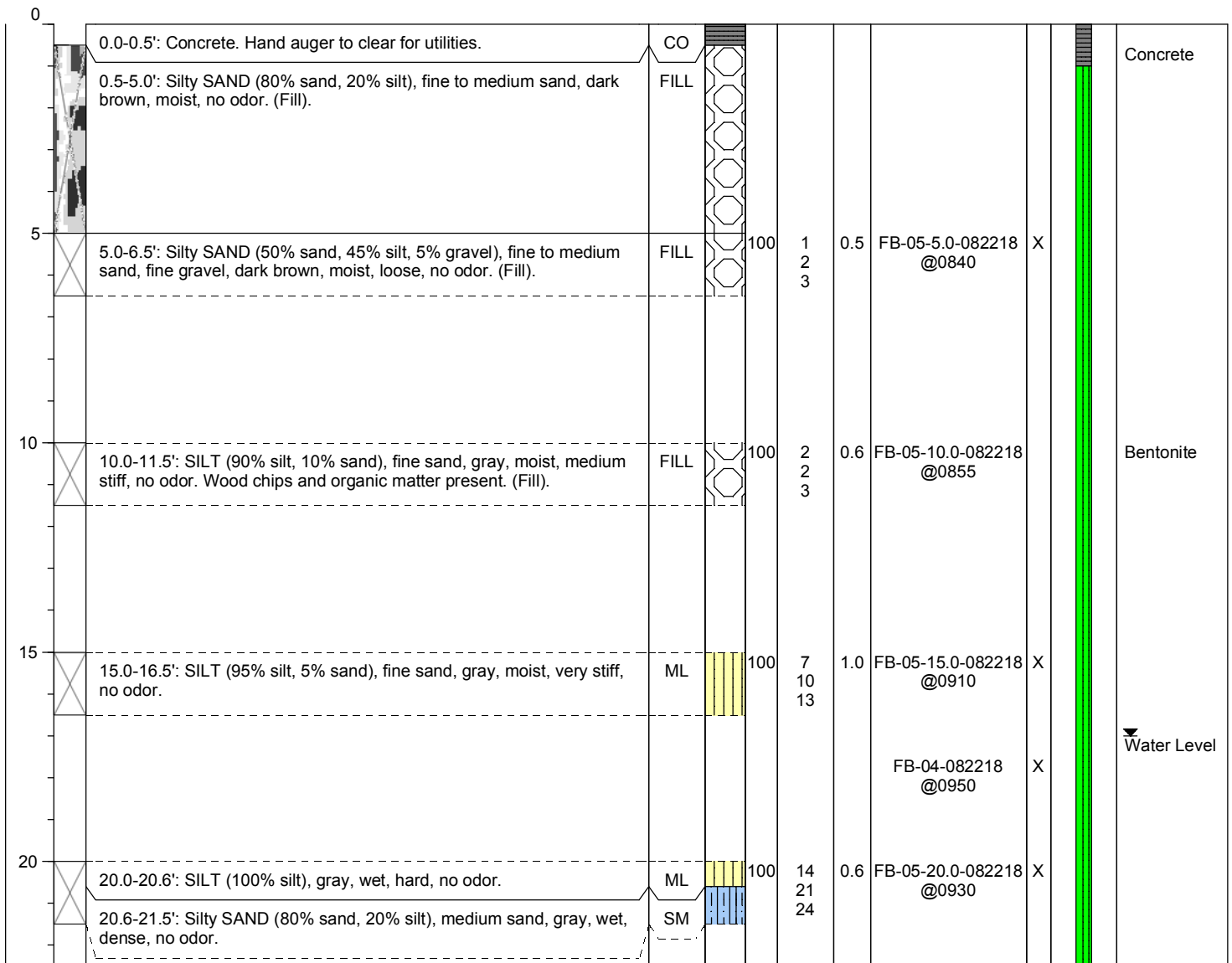
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/22/2018 @ 0815 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/22/2018 @ 1140 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 17.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 41.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA



Log of Boring: FB-05

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/22/2018 @ 0815 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/22/2018 @ 1140 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 17.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 41.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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25		25.0-26.5': Poorly-graded SAND with silt (90% sand, 10% silt), fine to medium sand, gray, moist, very dense, no odor.	SP-SM		100	17 13 50-6"	0.7	FB-04-25.0-082218 @1110		
30		30-31.5': Poorly-graded SAND (100% sand), fine to medium sand, grayish brown, wet, very dense, no odor.	SP		100	16 25 35	0.4	FB-04-30.0-082218 @1120		Bentonite
35		35-36.5': Poorly-graded SAND with silt (90% sand, 10% silt), fine to medium sand, grayish brown, wet, very dense, no odor.	SP-SM		100	24 28 32	0.7	FB-04-35.0-082218 @1130	X	
40		40.0-41.5': Poorly-graded SAND with silt (90% sand, 10% silt), fine to medium sand, grayish brown, wet, dense, no odor.	SP-SM		100	11 18 30	0.6	FB-04-40.0-082218 @1140		
45										

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA



Log of Boring: FB-06

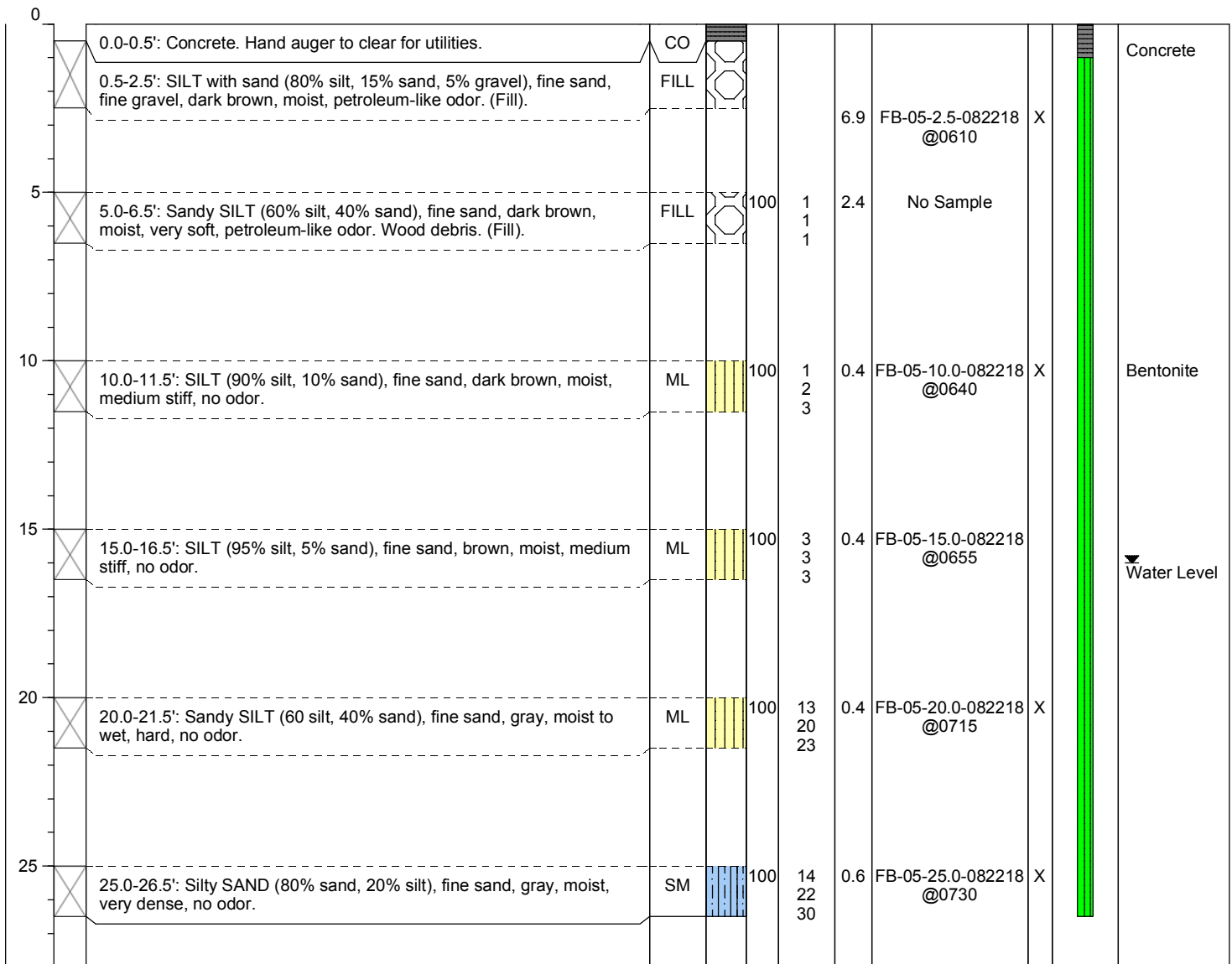
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/22/2018 @ 0610 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/22/2018 @ 0730 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 16.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 26.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA



Log of Boring: FMW-130

Client: Washington Builders LLC
Project: Block 43
Location: Block 38, Seattle, WA

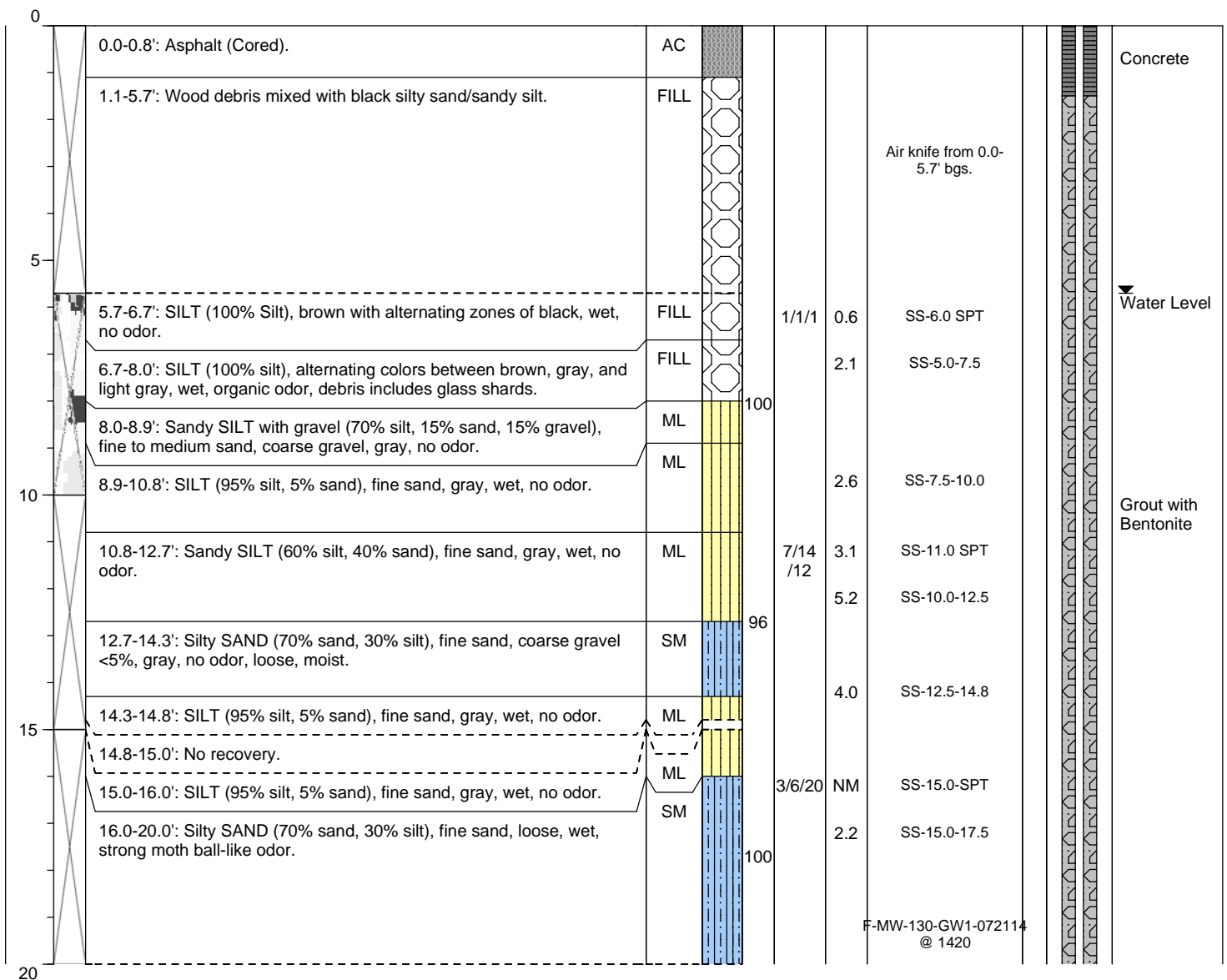
Date/Time Started: 7/21/14 @ 0945
Date/Time Completed: 7/22/14 @
Equipment: Spider 1576
Drilling Company: Cascade Drilling
Drilling Foreman: Zane Huckins
Drilling Method: Sonic

Sampler Type: PE Bags
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 5.7
Total Boring Depth (ft bgs): 60.0
Total Well Depth (ft bgs): 55

Farallon PN: 397-010

Logged By: Dincer Kayhan

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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F-MW-130-GW1-072114 @ 1420

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 2
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 45.0-55.0

Filter Pack: 10/20 Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Boring Abandonment: NA

Ground Surface Elevation (ft): 23
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: F-MW-130

Client: Washington Builders LLC

Project: Block 43

Location: Block 38, Seattle, WA

Farallon PN: 397-010

Logged By: Dincer Kayhan

Date/Time Started: 7/21/14 @ 0945

Date/Time Completed: 7/22/14 @

Equipment: Spider 1576

Drilling Company: Cascade Drilling

Drilling Foreman: Zane Huckins

Drilling Method: Sonic

Sampler Type: PE Bags

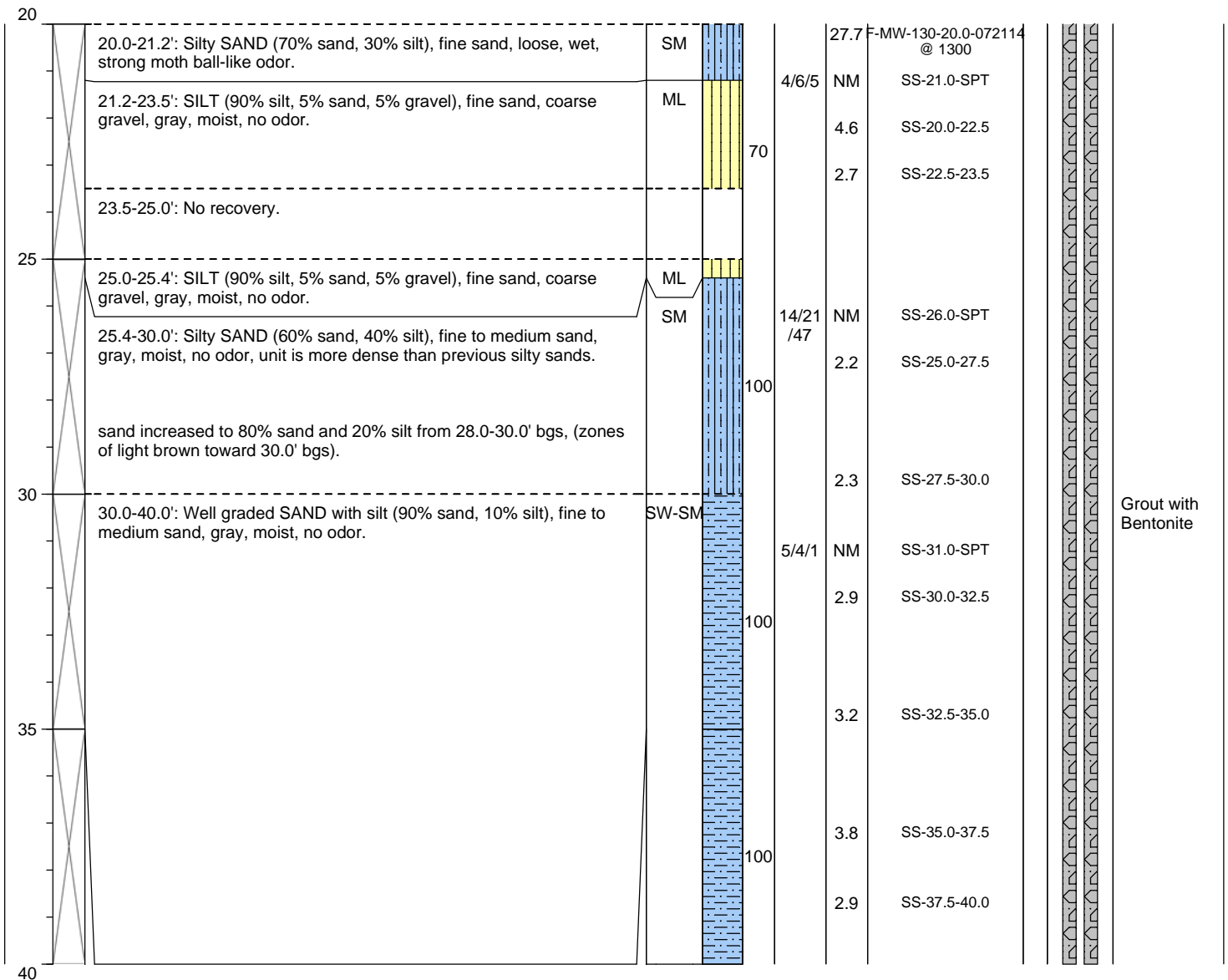
Drive Hammer (lbs.): Auto

Depth of Water ATD (ft bgs): 5.7

Total Boring Depth (ft bgs): 60.0

Total Well Depth (ft bgs): 55

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information		
Monument Type: Flush Mount	Filter Pack: 10/20 Sand	Ground Surface Elevation (ft): 23
Casing Diameter (inches): 2	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Surveyed Location: X: NA
Screened Interval (ft bgs): 45.0-55.0	Boring Abandonment: NA	Y: NA



Log of Boring: F-MW-130

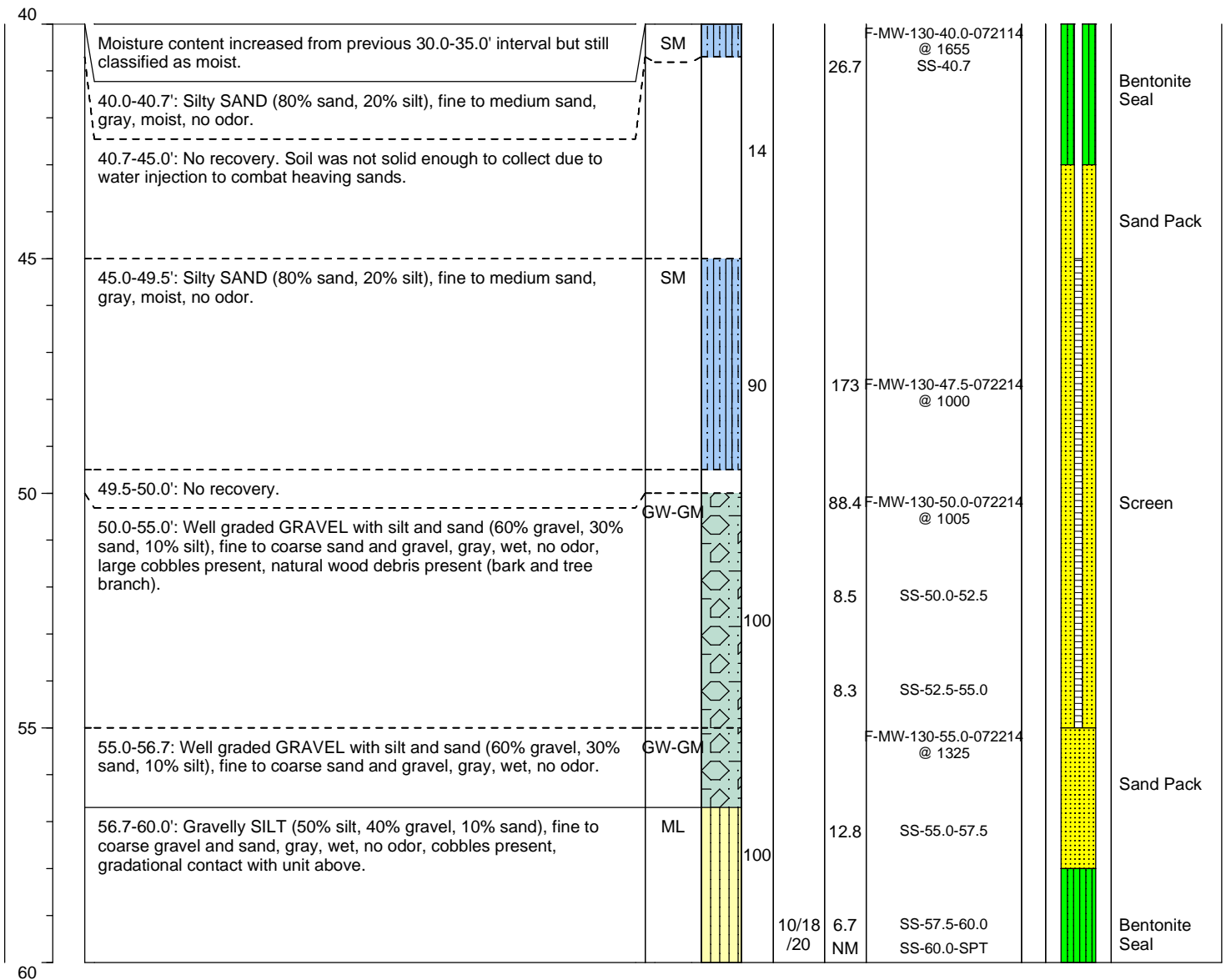
Client: Washington Builders LLC
Project: Block 43
Location: Block 38, Seattle, WA
Farallon PN: 397-010

Date/Time Started: 7/21/14 @ 0945
Date/Time Completed: 7/22/14 @
Equipment: Spider 1576
Drilling Company: Cascade Drilling
Drilling Foreman: Zane Huckins
Drilling Method: Sonic

Sampler Type: PE Bags
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 5.7
Total Boring Depth (ft bgs): 60.0
Total Well Depth (ft bgs): 55

Logged By: Dincer Kayhan

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information			
Monument Type: Flush Mount	Filter Pack: 10/20 Sand	Ground Surface Elevation (ft): 23	
Casing Diameter (inches): 2	Surface Seal: Concrete	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Surveyed Location: X: NA	
Screened Interval (ft bgs): 45.0-55.0	Boring Abandonment: NA	Y: NA	



Log of Boring: FMW-132

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/24/2018 @ 1330 **Sampler Type:** 1.5 Split spoon
Date/Time Completed: 08/24/2018 @ 1530 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 7.5
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 10.0
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** 10.0
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-1.0': Concrete, tile and asphalt material.	CO							Monument
		1.0-2.5': Poorly graded SAND with gravel (80% sand, 15% gravel, 5% silt), medium to coarse sand, fine gravel, brown, dry, no odor. (Fill).	FILL							Bentonite
							0.3	FMW-132-2.5-082418@1320		
5		5.0-6.5': Sandy SILT (60% sand, 30% silt, 10% gravel), fine sand, fine gravel, brown, dry, very loose, no odor. Fill material consisting of wood & glass debris. Some organic matter present. (Fill).	FILL		100	3 2 1	0.5	FMW-132-5.0-082418@1320	X	Sand Pack
										Pre-packed Screen
										Water Level
10		Drilling crew encountered unidentified hard object while attempting to sample at 10.0 ft bgs. Farallon decided to stop drilling operations and install monitoring well at 10.0 ft bgs.			NA	NA	NA	FMW-132-10.0-082418@1835	X	

Well Construction Information

Monument Type: Flush Mount	Filter Pack: Silica/Sand	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 1.0	Surface Seal: Grout/Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite/Grout	Surveyed Location: X: NA
Screened Interval (ft bgs): 5.0-10.0	Boring Abandonment: NA	Y: NA



Log of Boring: FMW-133

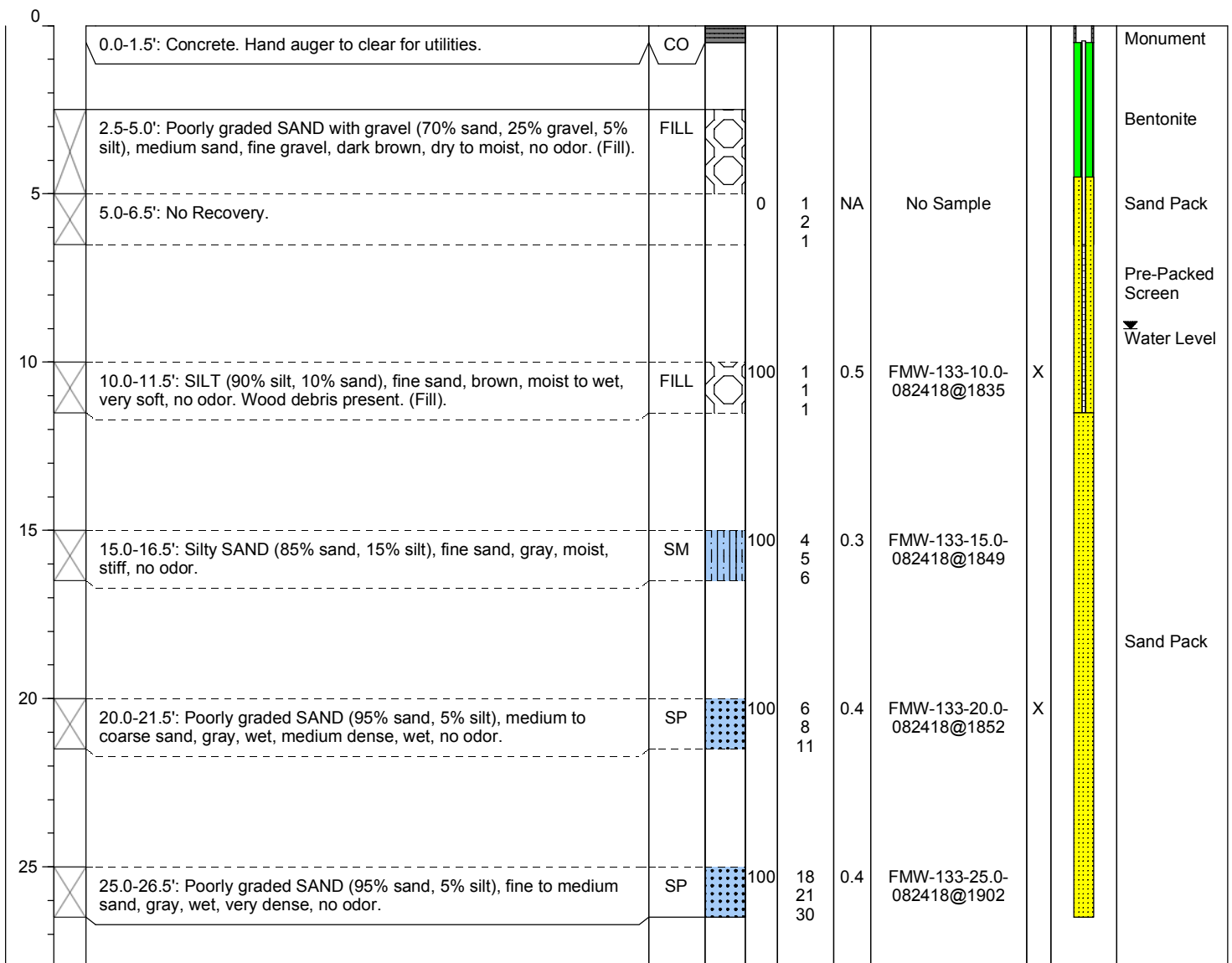
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/24/2018 @ 1745 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/24/2018 @ 1902 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 9.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 26.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** 11.5
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: Flush Mount	Filter Pack: Silica/Sand	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 1.0	Surface Seal: Grout/Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.01	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): 6.5 - 11.5	Boring Abandonment: NA	Y: NA



Log of Boring: FMW-134

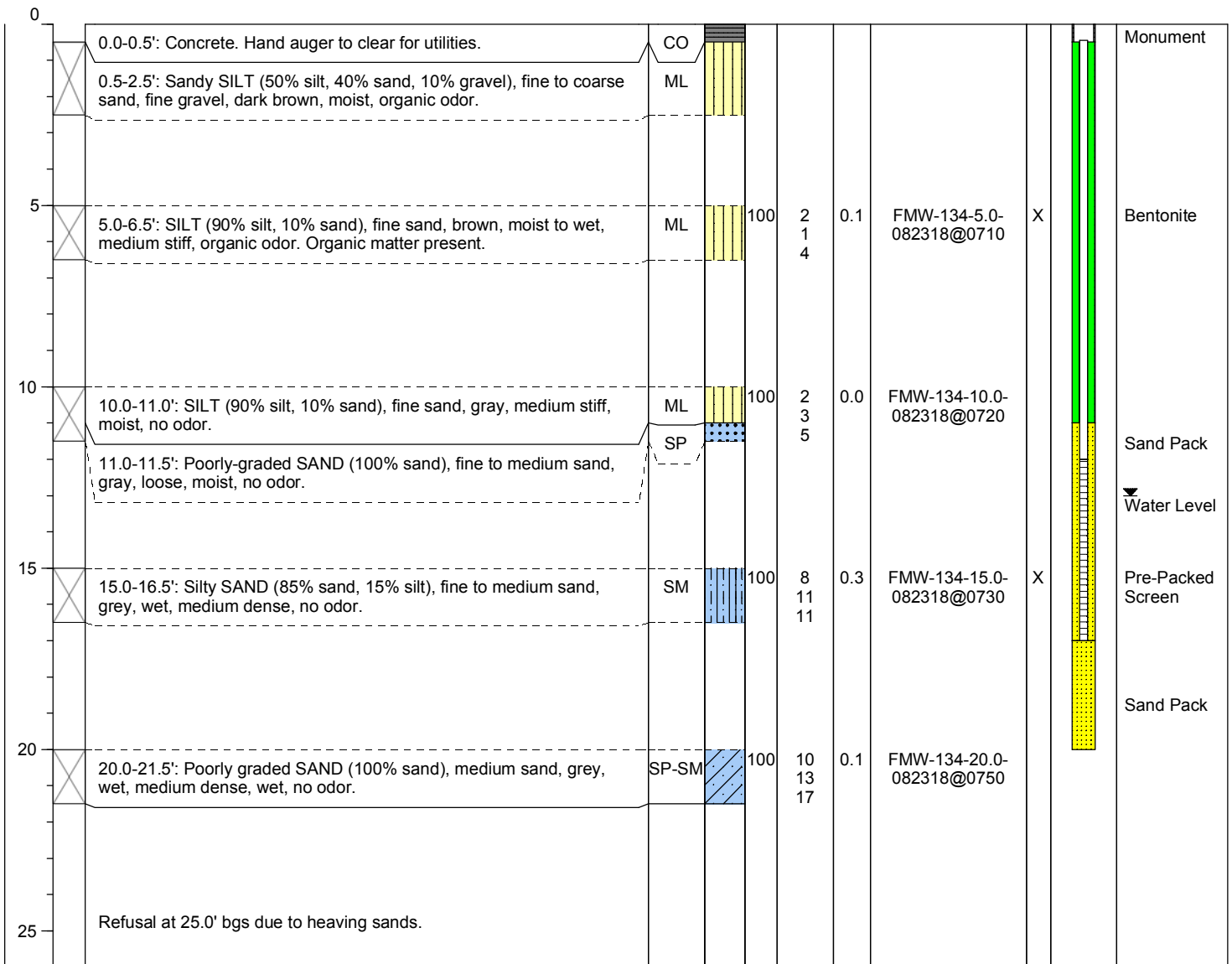
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/24/2018 @ 0700 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/24/2018 @ 1030 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 13.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 20.0
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** 17.0
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 1.0
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 12.0-17.0

Filter Pack: Silica/Sand
Surface Seal: Grout/Concrete
Annular Seal: Bentonite/Grout
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: FMW-135

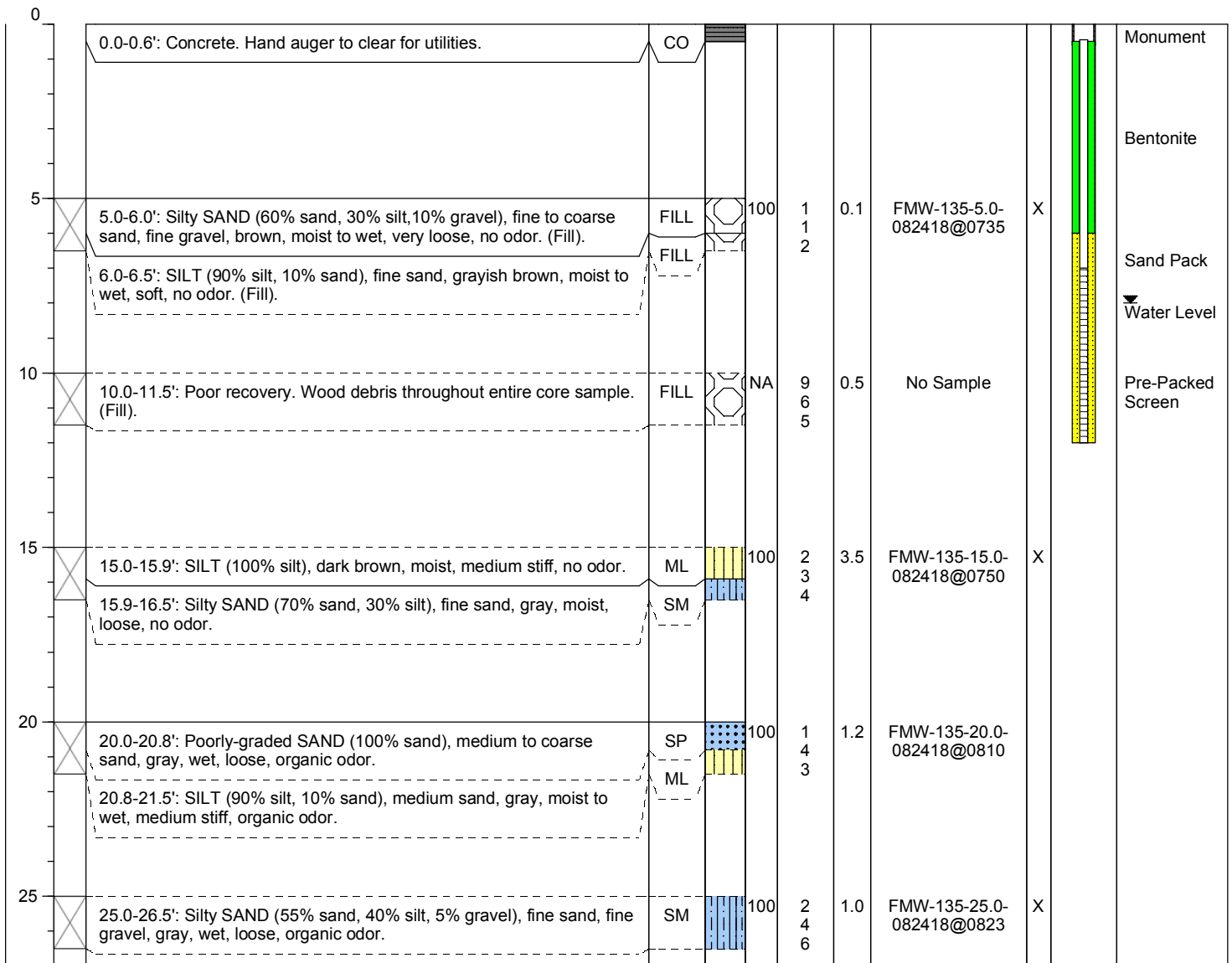
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/24/2018 @ 0700 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/24/2018 @ 0950 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 8.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 51.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** 12.0
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 1.0
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 7.0-12.0

Filter Pack: Silica/Sand
Surface Seal: Grout/Concrete
Annular Seal: Bentonite/Grout
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: FMW-135

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/24/2018 @ 0700 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/24/2018 @ 0950 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 8.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 51.5
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** 12.0
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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30	30.0-31.5'	Silty SAND (70% sand, 30% silt), fine sand, gray, moist, medium dense, no odor.	SM		100	9 13 15	1.1	FMW-135-30.0-082418@0835	X	
35	35.0-36.5'	Silty SAND (60% sand, 40% silt), fine sand, gray, moist, dense, no odor.	SM		100	15 21 24	0.9	FMW-135-35.0-082418@0850	X	
40	40.0-41.5'	Poorly-graded SAND with silt (90% sand, 10% silt), fine sand, grayish brown, moist, very dense, no odor.	SP-SM		100	22 32 38	1.0	FMW-135-40.0-082418@0915		
45	45.0-46.5'	Poorly-graded SAND with silt (90% sand, 10% silt), fine sand, grayish brown, moist, very dense, no odor.	SP-SM		100	19 26 32	0.9	FMW-135-45.0-082418@0930		
50	50.0-51.5'	Well-graded SAND with gravel (70% sand, 25% gravel, 5% silt), fine to coarse sand, fine gravel, moist to wet, dense, no odor.	SW		100	15 21 18	1.0	FMW-135-50.0-082418@0950	X	

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 1.0
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 7.0-12.0

Filter Pack: Silica/Sand
Surface Seal: Grout/Concrete
Annular Seal: Bentonite/Grout
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: FMW-136

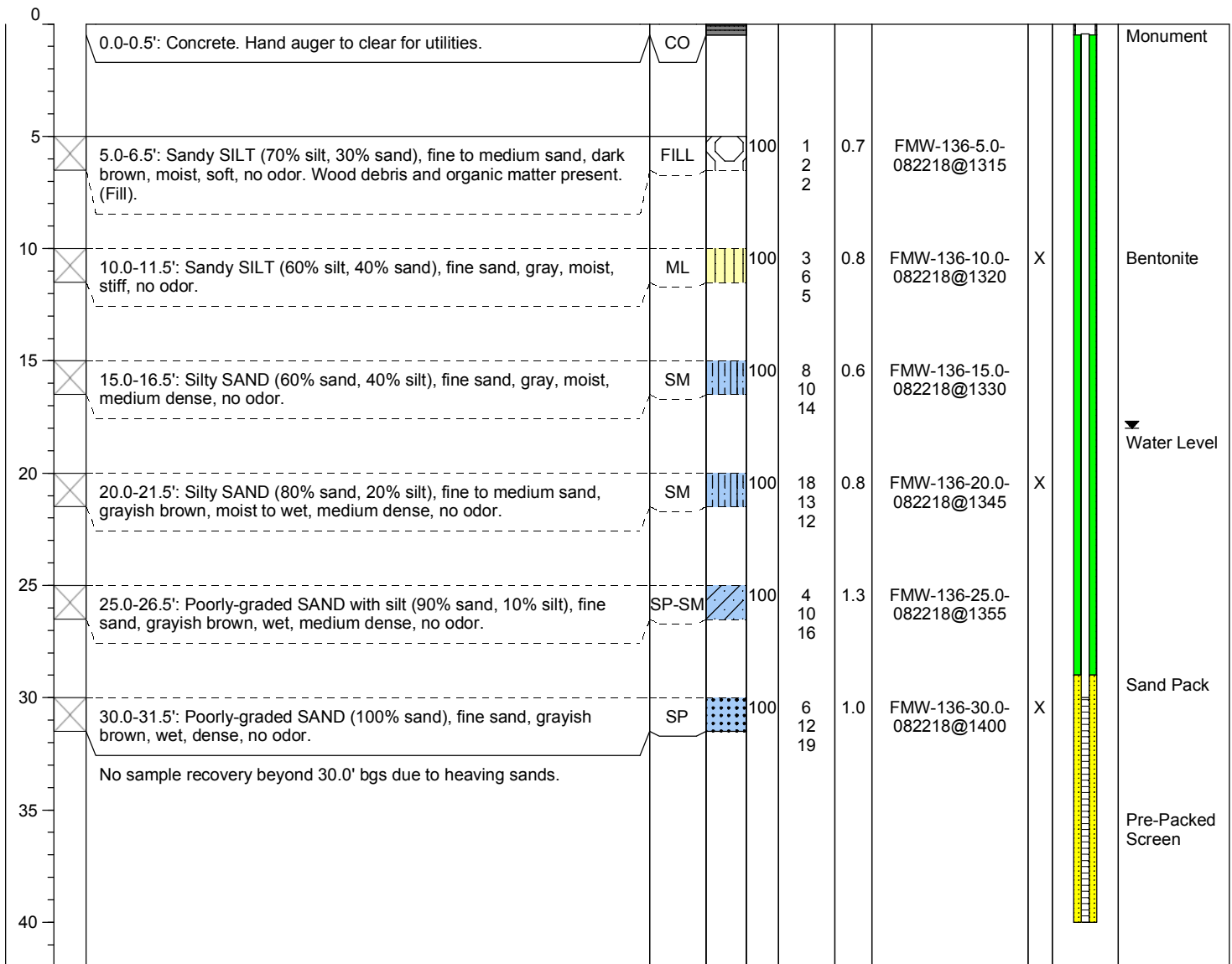
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 08/22/2018 @ 1310 **Sampler Type:** 1.5 Split Spoon
Date/Time Completed: 08/22/2018 @ 1400 **Drive Hammer (lbs.):** 140
Equipment: Mini-track **Depth of Water ATD (ft bgs):** 18.0
Drilling Company: Geologic Drilling **Total Boring Depth (ft bgs):** 40.0
Drilling Foreman: Blaine Gibson **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow Stem Auger

Farallon PN: 397-019

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 1.0
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 30.0- 40.0

Filter Pack: Silica/Sand
Surface Seal: Grout/Concrete
Annular Seal: Bentonite/Grout
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: FMW-137

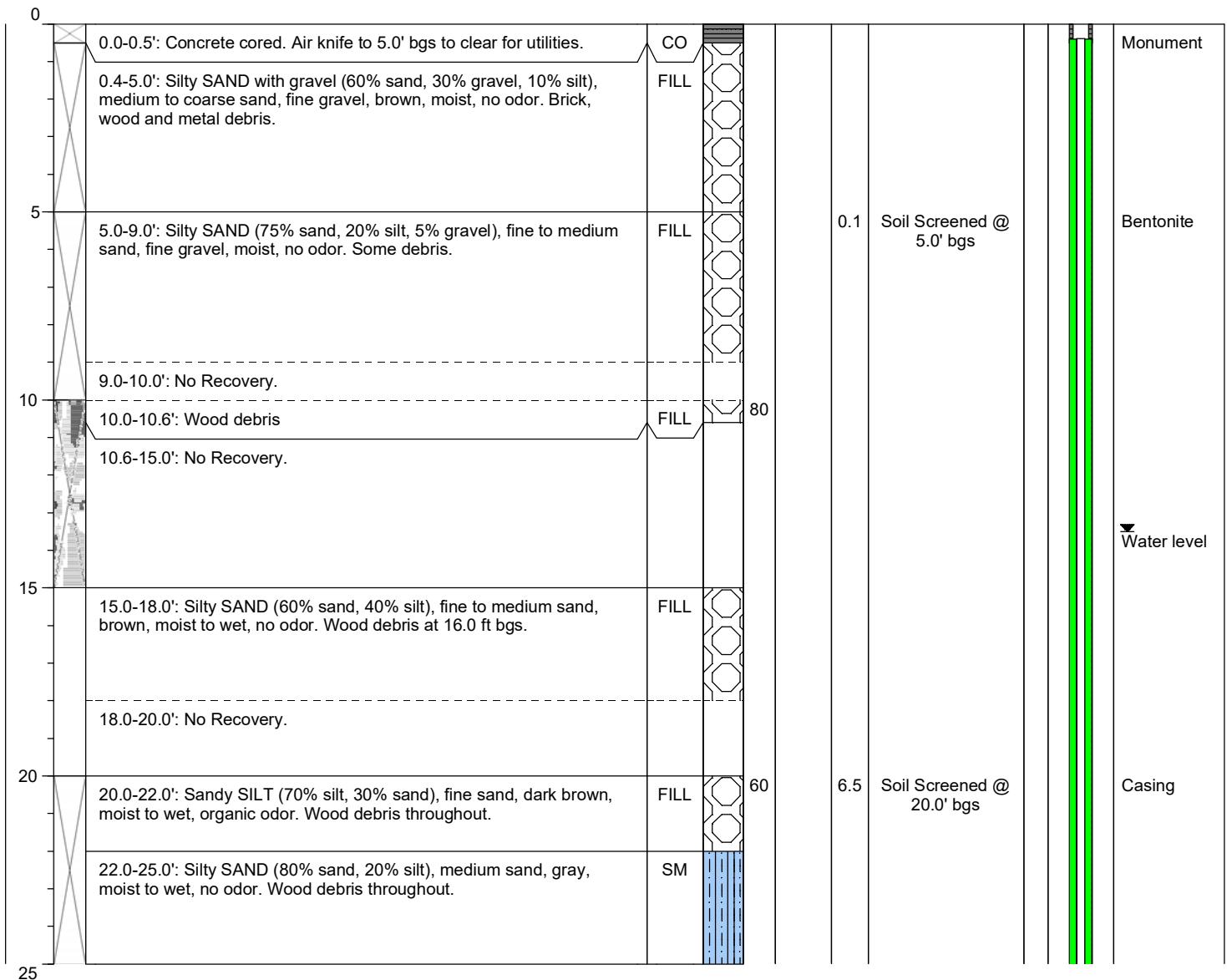
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 11/3/2018 @ 1145 **Sampler Type:** 4 x 6 sample bag
Date/Time Completed: 11/17/2018 @ 1400 **Drive Hammer (lbs.):** NA
Equipment: Sonic Rig/Geoprobe **Depth of Water ATD (ft bgs):** NE
Drilling Company: Holocene Drilling **Total Boring Depth (ft bgs):** 90.0
Drilling Foreman: Zack Bailey **Total Well Depth (ft bgs):** 85.0
Drilling Method: Sonic Drilling

Farallon PN: 397-061

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: Flush Mount	Filter Pack: 12/20 Sand	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 2.0	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Surveyed Location: X: NA
Screened Interval (ft bgs): 72.0-85.0	Boring Abandonment: NA	Y: NA



Log of Boring: FMW-137

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 11/3/2018 @ 1145 **Sampler Type:** 4 x 6 sample bag
Date/Time Completed: 11/17/2018 @ 1400 **Drive Hammer (lbs.):** NA
Equipment: Sonic Rig/Geoprobe **Depth of Water ATD (ft bgs):** NE
Drilling Company: Holocene Drilling **Total Boring Depth (ft bgs):** 90.0
Drilling Foreman: Zack Bailey **Total Well Depth (ft bgs):** 85.0
Drilling Method: Sonic Drilling

Farallon PN: 397-061

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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25	25.0-27.0'	Silty SAND (60% sand, 40% silt), fine sand, gray, moist to wet, no odor.	SM		100					
	27.0-29.0'	Silty SAND (80% sand, 20% silt), fine to medium sand, gray, moist to wet, no odor.	SM							
	29.0-30.0'	No Recovery.								
30	30.0-35.0'	Silty SAND (70% sand, 30% silt), fine sand, gray, wet, no odor.	SM		100		0.3	Soil Screened @ 30.0' bgs		Bentonite
35	35.0-40.0'	Silty SAND (60% sand, 40% silt), fine sand, gray, moist, no odor.	SM		100					
40	40.0-42.0'	Poorly graded SAND with silt (90% sand, 10% silt), fine to medium sand, gray, moist, no odor.	SP-SM		100		0.3	Soil Screened @ 40.0' bgs		Casing
	42.0-45.0'	Silty SAND (70% sand, 30% silt), fine sand, gray, moist, no odor.	SM							
45	45.0-50.0'	Silty SAND (85% sand, 15% silt), fine sand, grayish brown, moist, no odor.	SM							
50										

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 2.0
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 72.0-85.0

Filter Pack: 12/20 Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: FMW-137

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 11/3/2018 @ 1145 **Sampler Type:** 4 x 6 sample bag
Date/Time Completed: 11/17/2018 @ 1400 **Drive Hammer (lbs.):** NA
Equipment: Sonic Rig/Geoprobe **Depth of Water ATD (ft bgs):** NE
Drilling Company: Holocene Drilling **Total Boring Depth (ft bgs):** 90.0
Drilling Foreman: Zack Bailey **Total Well Depth (ft bgs):** 85.0
Drilling Method: Sonic Drilling

Farallon PN: 397-061

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
50	50.0-55.0'	Silty SAND (80% sand, 20% silt), fine to medium sand, grayish brown, moist to wet, no odor.	SM		100		3.2	Soil Screened @ 50.0' bgs		Casing
55	55.0-60.0'	Silty SAND (80% sand, 20% silt), fine to medium sand, grayish brown, moist to wet, no odor.	SM							
60	60.0-70.0'	Poorly graded SAND with silt (90% sand, 10% silt), medium sand, grayish brown, moist, no odor.	SP-SM		100		1.3	Soil Screened @ 60.0' bgs		Bentonite
65	70.0-72.0'	Poorly graded SAND with silt (90% sand, 10% silt), medium sand, grayish brown, moist.	SP-SM		100		0.3	Soil Screened @ 70.0' bgs		
70	72.0-75.0'	Poorly graded SAND with silt (80% sand, 10% silt, 10% gravel), medium sand, fine gravel, grayish brown, moist no odor.	SP-SM							
75										Screen (Pre-packed)

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 2.0
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 72.0-85.0

Filter Pack: 12/20 Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: FMW-137

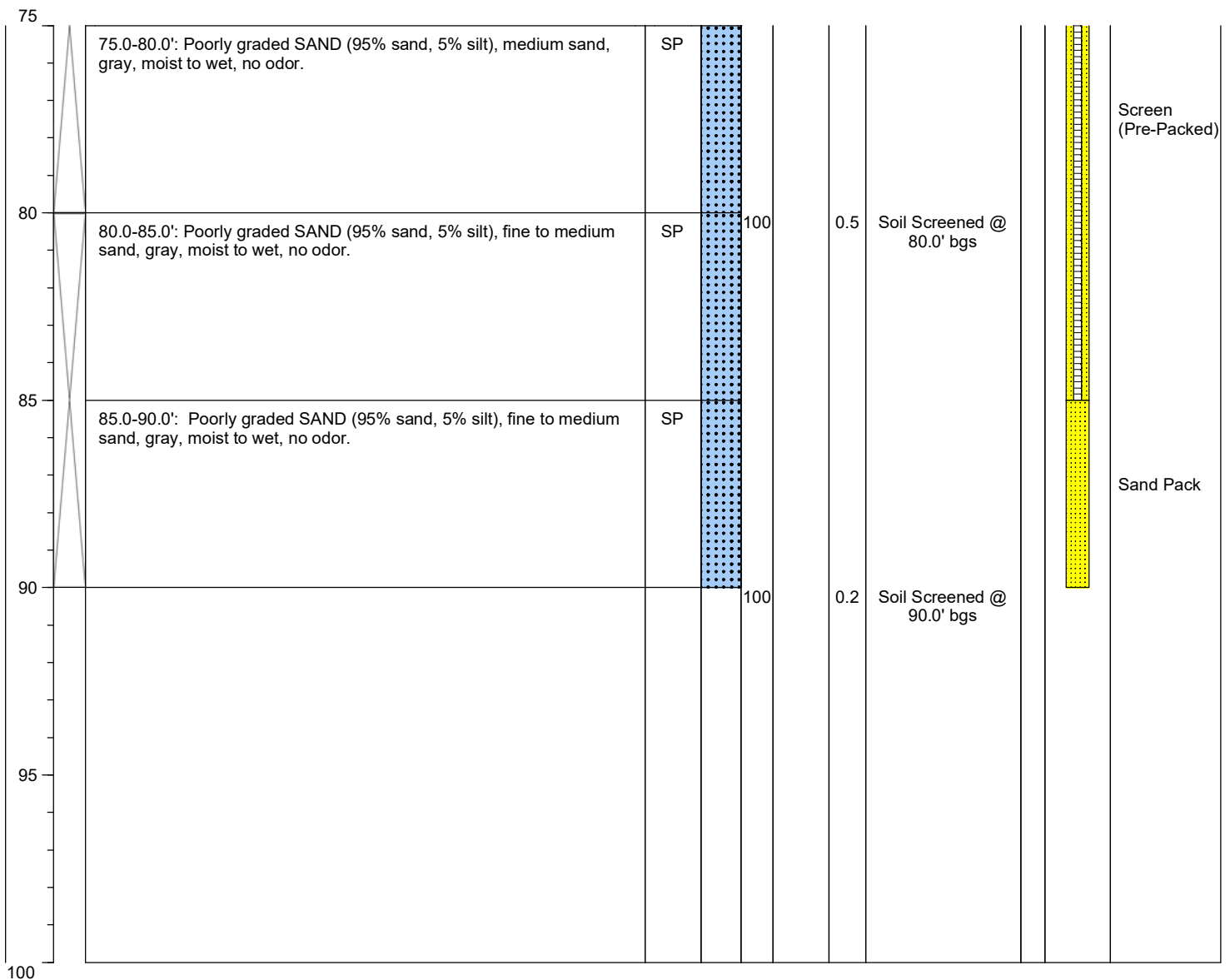
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 11/3/2018 @ 1145 **Sampler Type:** 4 x 6 sample bag
Date/Time Completed: 11/17/2018 @ 1400 **Drive Hammer (lbs.):** NA
Equipment: Sonic Rig/Geoprobe **Depth of Water ATD (ft bgs):** NE
Drilling Company: Holocene Drilling **Total Boring Depth (ft bgs):** 90.0
Drilling Foreman: Zack Bailey **Total Well Depth (ft bgs):** 85.0
Drilling Method: Sonic Drilling

Farallon PN: 397-061

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: Flush Mount	Filter Pack: 12/20 Sand	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 2.0	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Surveyed Location: X: NA
Screened Interval (ft bgs): 72.0-85.0	Boring Abandonment: NA	Y: NA



Log of Boring: FMW-138

Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 11/3/2018 @ 0900 **Sampler Type:** 4 x 6 sample bag
Date/Time Completed: 11/4/2018 @ 0900 **Drive Hammer (lbs.):** NA
Equipment: Sonic Rig/Geoprobe **Depth of Water ATD (ft bgs):** NE
Drilling Company: Holocene Drilling **Total Boring Depth (ft bgs):** 100.0
Drilling Foreman: Zack Bailey **Total Well Depth (ft bgs):** 100.0
Drilling Method: Sonic Drilling

Farallon PN: 397-061

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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0	0.0-0.4':	Concrete cored. Air knife to 5.0' bgs to clear for utilities.	CO							Monument
	0.4-5.0':	Silty SAND with gravel (60% sand, 30% gravel, 10% silt), fine to coarse sand, fine gravel, brown, moist, no odor. concrete sub layer at 2.5' bgs. Brick, wood and metal debris.	FILL							
5	5.0-8.0':	Silty SAND with gravel (60% sand, 20% gravel, 20% silt), fine to coarse sand, fine gravel, brown moist, no odor. Wood debris through core.	FILL				0.0	Soil Screened @ 5.0' bgs		Bentonite
	8.0-10.0':	No Recovery.								
10	10.0-12.0':	Silty SAND (60% sand, 30% silt, 10% gravel), fine sand, fine gravel, gray, moist, no odor. Wood debris at 12.0' bgs.	FILL			60	0.0	Soil Screened @ 10.0' bgs		
	12.0-15.0':	Silty SAND with gravel (70% sand, 15% silt, 15% gravel), fine sand, fine gravel, gray, moist, no odor. Wood debris.	FILL							
15	15.0-20.0':	Silty SAND (70% sand, 30% silt), fine sand, fine gravel, grayish brown, moist, organic like odor. Wood debris.	FILL				0.0	Soil Screened @ 15.0' bgs		Casing
20	20.0-25.0':	Sandy SILT (80% silt, 20% sand), fine sand, dark brown, moist to wet, organic like odor. organic matter and some wood debris present.	FILL			100	17.3	Soil Screened @ 20.0' bgs		

Well Construction Information

Monument Type: Flush Mount	Filter Pack: 12/20 Sand	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 2.0	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Surveyed Location: X: NA
Screened Interval (ft bgs): 90.0 - 100.0	Boring Abandonment: NA	Y: NA



Log of Boring: FMW-138

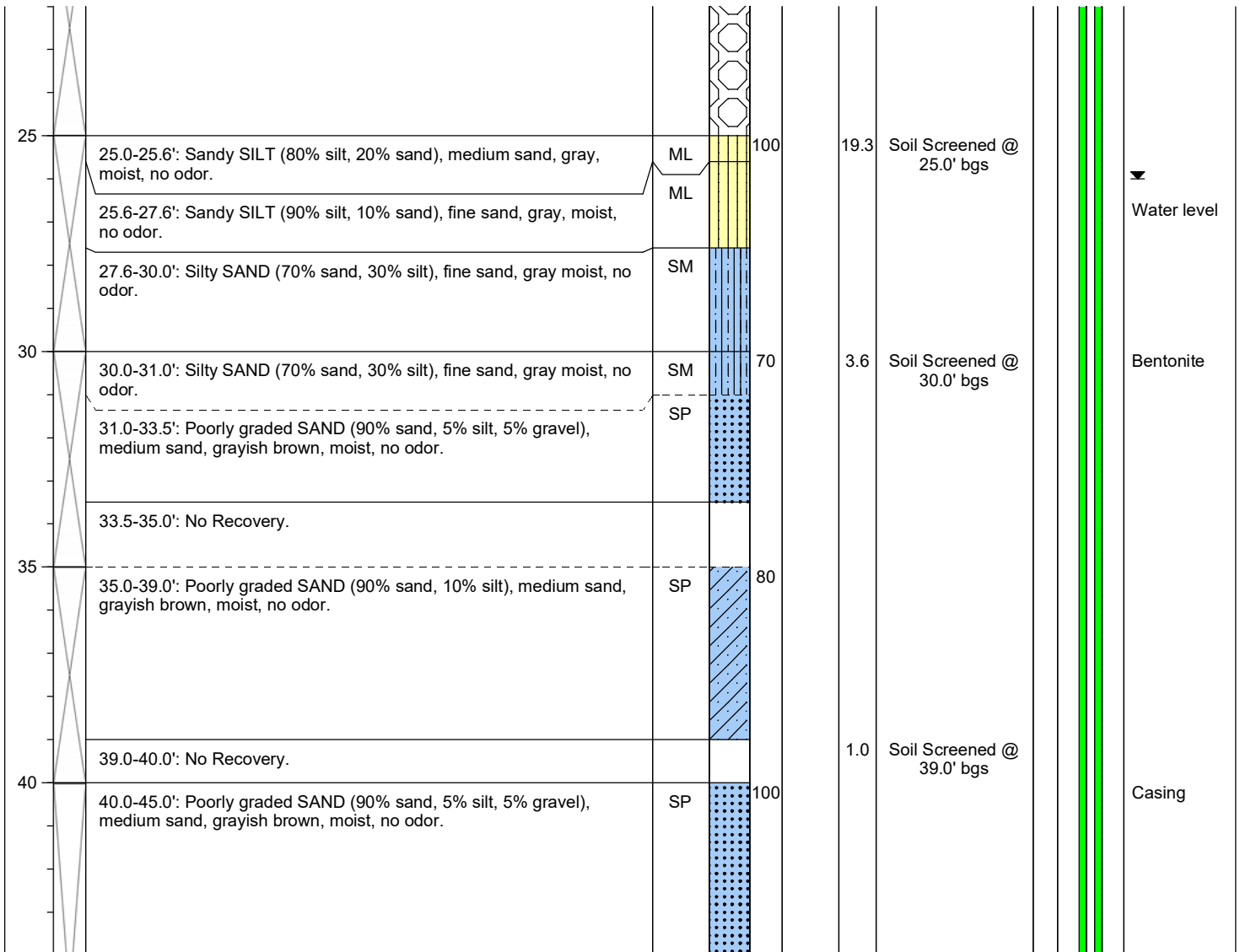
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 11/3/2018 @ 0900 **Sampler Type:** 4 x 6 sample bag
Date/Time Completed: 11/4/2018 @ 0900 **Drive Hammer (lbs.):** NA
Equipment: Sonic Rig/Geoprobe **Depth of Water ATD (ft bgs):** NE
Drilling Company: Holocene Drilling **Total Boring Depth (ft bgs):** 100.0
Drilling Foreman: Zack Bailey **Total Well Depth (ft bgs):** 100.0
Drilling Method: Sonic Drilling

Farallon PN: 397-061

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: Flush Mount	Filter Pack: 12/20 Sand	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 2.0	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Surveyed Location: X: NA
Screened Interval (ft bgs): 90.0 - 100.0	Boring Abandonment: NA	Y: NA



Log of Boring: FMW-138

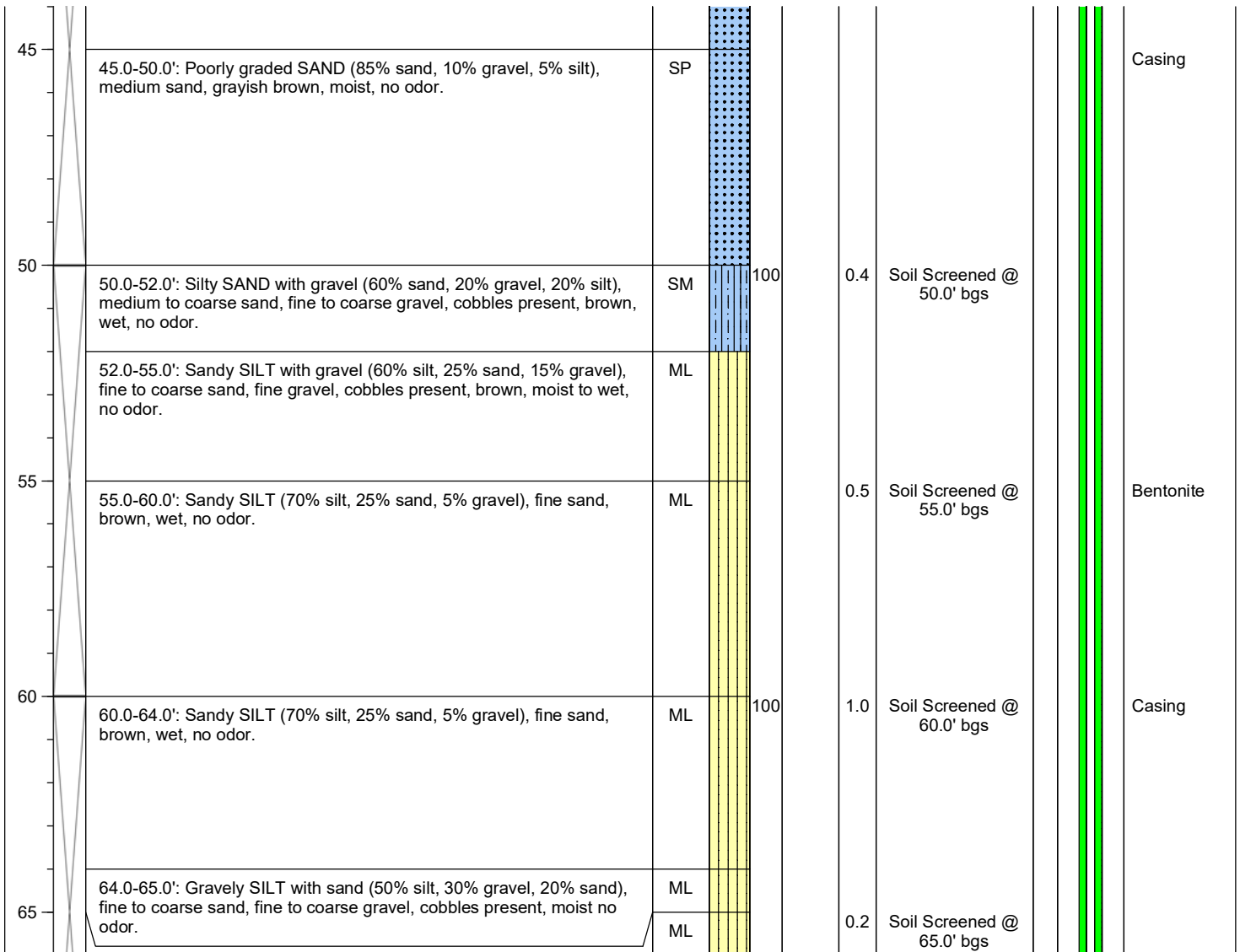
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 11/3/2018 @ 0900 **Sampler Type:** 4 x 6 sample bag
Date/Time Completed: 11/4/2018 @ 0900 **Drive Hammer (lbs.):** NA
Equipment: Sonic Rig/Geoprobe **Depth of Water ATD (ft bgs):** NE
Drilling Company: Holocene Drilling **Total Boring Depth (ft bgs):** 100.0
Drilling Foreman: Zack Bailey **Total Well Depth (ft bgs):** 100.0
Drilling Method: Sonic Drilling

Farallon PN: 397-061

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 2.0
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 90.0 - 100.0

Filter Pack: 12/20 Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
 Y: NA



Log of Boring: FMW-138

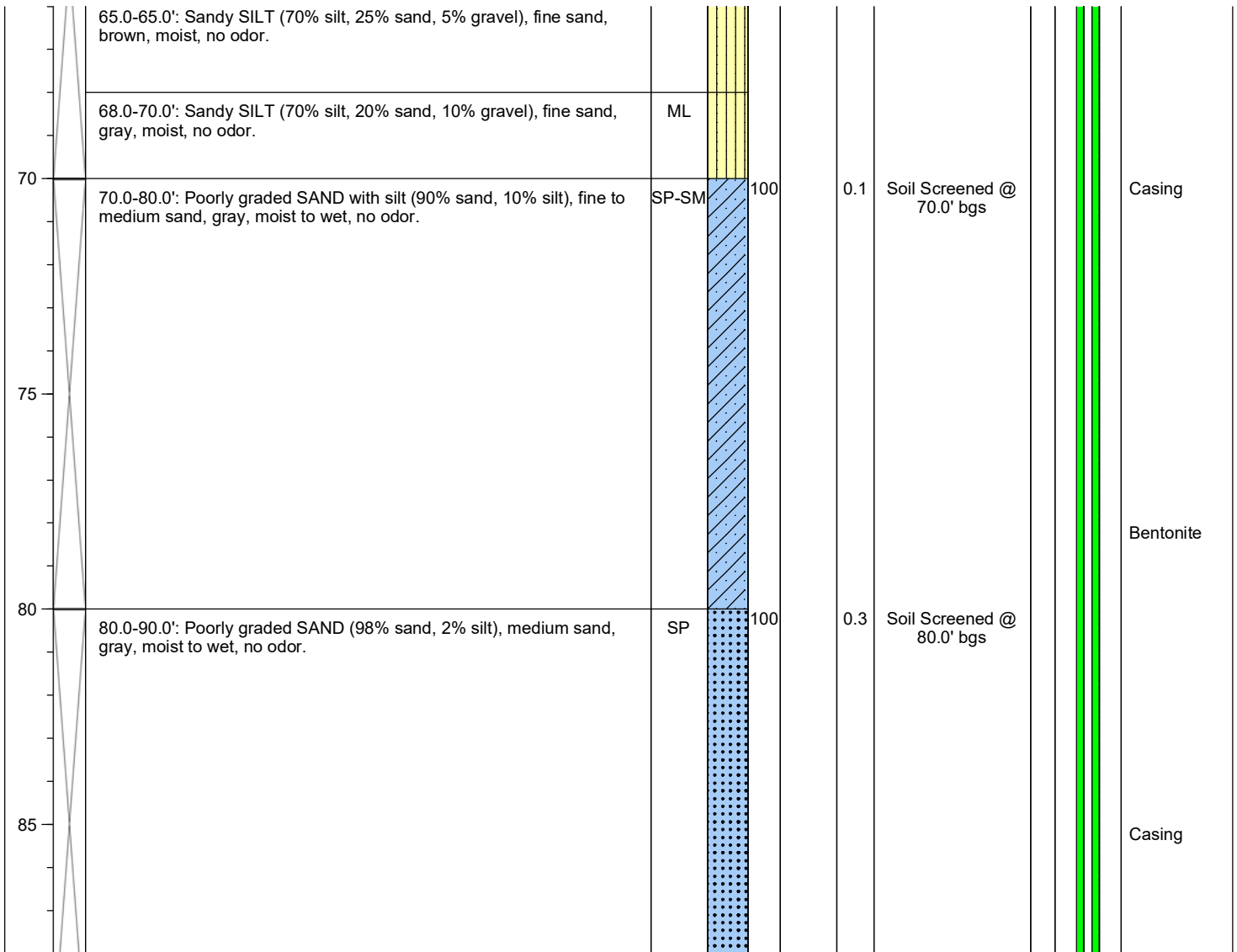
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 11/3/2018 @ 0900 **Sampler Type:** 4 x 6 sample bag
Date/Time Completed: 11/4/2018 @ 0900 **Drive Hammer (lbs.):** NA
Equipment: Sonic Rig/Geoprobe **Depth of Water ATD (ft bgs):** NE
Drilling Company: Holocene Drilling **Total Boring Depth (ft bgs):** 100.0
Drilling Foreman: Zack Bailey **Total Well Depth (ft bgs):** 100.0
Drilling Method: Sonic Drilling

Farallon PN: 397-061

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
-------------------	-----------------	------------------------	------	--------------	------------	-------------------	-----------	-----------	-----------------	----------------------------------



Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 2.0
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 90.0 - 100.0

Filter Pack: 12/20 Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: FMW-138

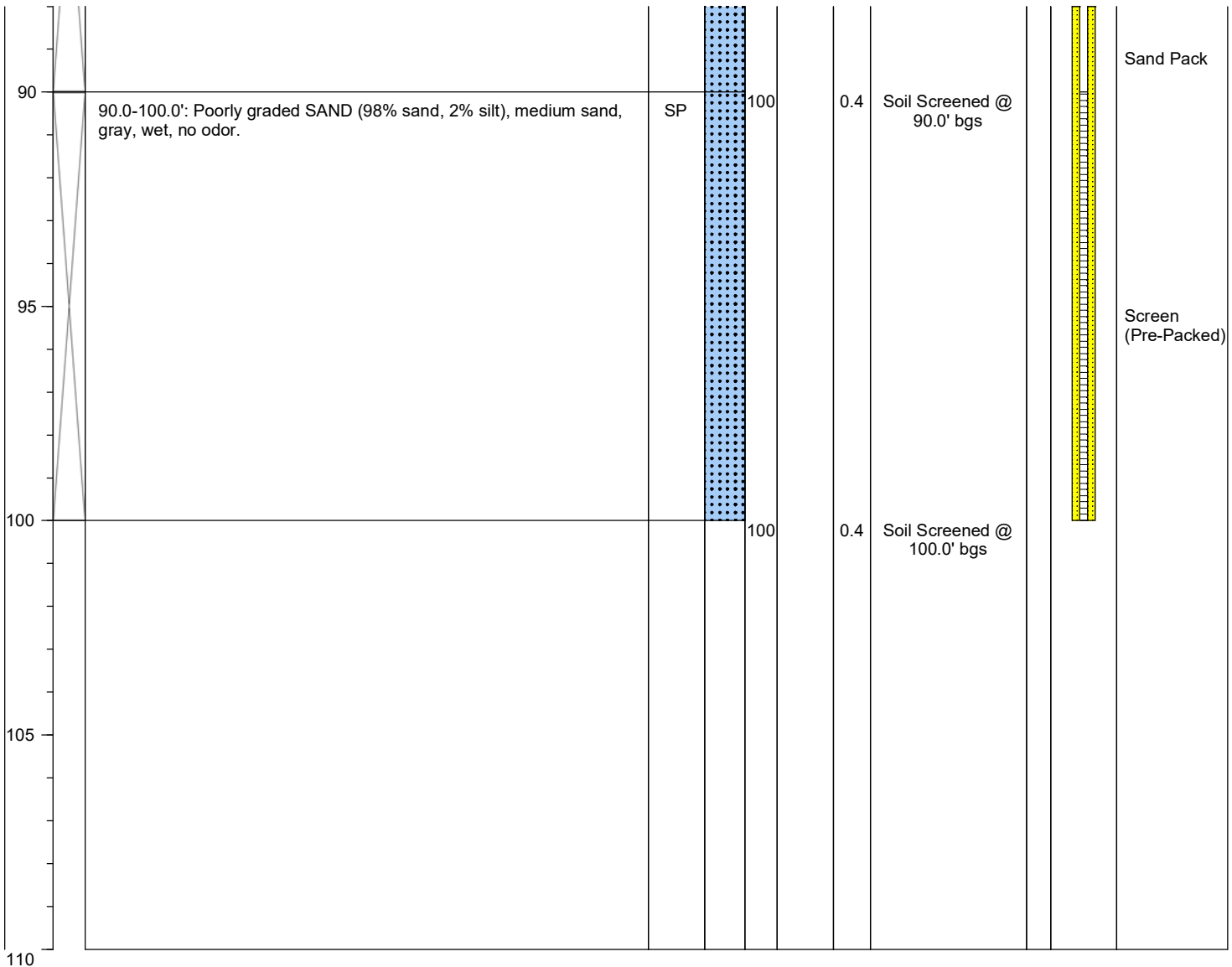
Client: City Investors IX LLC
Project: Block 38 West Property
Location: Seattle, WA

Date/Time Started: 11/3/2018 @ 0900 **Sampler Type:** 4 x 6 sample bag
Date/Time Completed: 11/4/2018 @ 0900 **Drive Hammer (lbs.):** NA
Equipment: Sonic Rig/Geoprobe **Depth of Water ATD (ft bgs):** NE
Drilling Company: Holocene Drilling **Total Boring Depth (ft bgs):** 100.0
Drilling Foreman: Zack Bailey **Total Well Depth (ft bgs):** 100.0
Drilling Method: Sonic Drilling

Farallon PN: 397-061

Logged By: Greg Peters

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
-------------------	-----------------	------------------------	------	--------------	------------	-------------------	-----------	-----------	-----------------	----------------------------------



Well Construction Information

Monument Type: Flush Mount	Filter Pack: 12/20 Sand	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 2.0	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite	Surveyed Location: X: NA
Screened Interval (ft bgs): 90.0 - 100.0	Boring Abandonment: NA	Y: NA



Log of Test Pit: NGas-1

Client: Vulcan Project: Block 38W Location: Seattle, Washington	Date/Time Started: 1/26/19 @ 1100 Date/Time Completed: 1/26/19 @ 1140 Equipment: Airknife Excavation Company: APS Excavation Foreman: NA Excavating Method: Airknife	Sampler Type: Hand Auger Depth of Water (ft bgs): 3.0 Total Excavation Depth (ft bgs): 3.0
Farallon PN: 397-019		
Logged By: Yusuf Pehlivan		

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
------------------	-----------------	------------------------	------	--------------	-----------	-----------	-----------------

0	0.0-0.7': Concrete.	CO					
	0.7-1.8': Well-graded SAND with silt and gravel (60% sand, 30% gravel, 10% silt), fine to coarse sand, fine gravel, brown, moist, no odor. Geotextile fabric at 1.5' bgs.	SW-SM					
	1.8-3.0': Silty SAND with gravel (60% sand, 25% silt, 15% gravel), fine to coarse sand, fine gravel, dark brown, moist, wet at 3.0' bgs, no odor. Gas line encountered at 3.0' bgs. Water fills test pit.	SM					
5							



Log of Test Pit: NGas-2

Client: Vulcan	Date/Time Started: 1/26/19 @ 0900	Sampler Type: Hand Auger
Project: Block 38W	Date/Time Completed: 1/26/19 @ 1100	Depth of Water (ft bgs): 4.5
Location: Seattle, Washington	Equipment: Airknife	Total Excavation Depth (ft bgs): 5.1
Farallon PN: 397-019	Excavation Company: APS	
Logged By: Yusuf Pehlivan	Excavation Foreman: NA	
	Excavating Method: Airknife	

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
------------------	-----------------	------------------------	------	--------------	-----------	-----------	-----------------

0		0.0-4.5': Well-graded SAND with silt and gravel (50% sand, 40% gravel, 10% sand), fine to coarse sand, fine and coarse gravel, dark brown, moist, no odor, trace brick fragments.	SW-SM				
		4.5-5.0': Poorly graded gravel (100% gravel), fine gravel, gray, wet, utilities backfill.	GP				
5		5.0-5.1': Rotting wood. Water fills testpit.	WD				



Log of Test Pit: PH-1

Client: Vulcan
Project: Block 38W
Location: Seattle, Washington

Date/Time Started: 1/26/19 @ 0925
Date/Time Completed: 1/26/19 @ 1000
Equipment: Airknife
Excavation Company: APS
Excavation Foreman: NA
Excavating Method: Airknife

Sampler Type: Hand Auger
Depth of Water (ft bgs): 3.5
Total Excavation Depth (ft bgs): 4.0

Farallon PN: 397-019

Logged By: Yusuf Pehlivan

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
------------------	-----------------	------------------------	------	--------------	-----------	-----------	-----------------

0	0.0-0.6': Concrete.	CO					
	0.6-4.0': Poorly graded SAND (95% sand, 5% gravel), fine and medium sand, fine gravel, grayish brown, moist, wet at 3.5' bgs, no odor. Water fills test pit, unable to log below water.	SP					
				0.0	PH-1-4.0-012619		
5							



Log of Test Pit: PH-2

Client: Vulcan Project: Block 38W Location: Seattle, Washington	Date/Time Started: 1/26/19 @ 0900 Date/Time Completed: 1/26/19 @ 1100 Equipment: Airknife Excavation Company: APS Excavation Foreman: NA Excavating Method: Airknife	Sampler Type: Hand Auger Depth of Water (ft bgs): 4.5 Total Excavation Depth (ft bgs): 5.1
Farallon PN: 397-019		
Logged By: Yusuf Pehlivan		

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
------------------	-----------------	------------------------	------	--------------	-----------	-----------	-----------------

0		0.0-4.5': Well-graded SAND with silt and gravel (50% sand, 40% gravel, 10% sand), fine to coarse sand, fine and coarse gravel, dark brown, moist, wet at 4.5' bgs, no odor, trace brick fragments. Gas line found at 4.5' bgs.	SW-SM	[USGS Graphic: Well-graded sand with silt and gravel]			
		4.5-5.0': Poorly graded GRAVEL (100% gravel), fine gravel, gray, wet, utility backfill.	GP	[USGS Graphic: Poorly graded gravel]			
5		5.0-5.1': Rotting wood.	WD	[USGS Graphic: Rotting wood]			



Log of Test Pit: PH-4

Client: Vulcan
Project: Block 38W
Location: Seattle, Washington

Date/Time Started: 1/26/19 @ 1115
Date/Time Completed: 1/26/19 @ 1200
Equipment: Airknife
Excavation Company: APS
Excavation Foreman: NA
Excavating Method: Airknife

Sampler Type: Hand Auger
Depth of Water (ft bgs): NE
Total Excavation Depth (ft bgs): 5.0

Farallon PN: 397-019

Logged By: Yusuf Pehlivan

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
------------------	-----------------	------------------------	------	--------------	-----------	-----------	-----------------

0	0.0-3.0': Well-graded SAND with silt and gravel (50% sand, 40% gravel, 10% silt), fine to coarse sand, fine and coarse gravel, drk brown, moist, trace concrete blocks, brick, wood, plastic and metal debris.	SW-SM					
	3.0-4.0': Fill (100% gravel), fine gravel, gray, moist. Gas line at 3.5' bgs,	FILL					
	4.0-5.0': SILT with sand and gravel (70% silt, 15% sand, 15% gravel) fine and medium sand, fine gravel, dark brown, moist, no odor.	ML		12.3	PH-4-4.5-012619	X	
5							



Log of Test Pit: PH-11

Client: Vulcan
Project: Block 38W
Location: Seattle, Washington

Date/Time Started: 1/26/19 @ 1230
Date/Time Completed: 1/26/19 @ 1320
Equipment: Airknife
Excavation Company: APS
Excavation Foreman: NA
Excavating Method: Airknife

Sampler Type: Hand Auger
Depth of Water (ft bgs): 4.2
Total Excavation Depth (ft bgs): 4.2

Farallon PN: 397-019

Logged By: Yusuf Pehlivan

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
------------------	-----------------	------------------------	------	--------------	-----------	-----------	-----------------

0	0.0-0.9': Concrete.		CO				
	0.9-3.8': Well-graded SAND with silt and gravel (60% sand, 30% gravel, 10% silt), fine to coarse sand, fine and coarse gravel, dark brown, moist, trace rocks, brick, wood, and metal debris.		SW-SM				
	3.7-4.2': Utility Conduits.						
	4.2-4.4': Wood, wet. Unable to advance further.		WD				
5							



Log of Test Pit: PH-11A

Client: Vulcan
Project: Block 38W
Location: Seattle, Washington

Date/Time Started: 1/19/19 @ 1240
Date/Time Completed: 1/19/19 @ 1310
Equipment: Airknife
Excavation Company: APS
Excavation Foreman: NA
Excavating Method: Airknife

Sampler Type: Hand Auger
Depth of Water (ft bgs): 4.5
Total Excavation Depth (ft bgs): 4.5

Farallon PN: 397-019

Logged By: Yusuf Pehlivan

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
------------------	-----------------	------------------------	------	--------------	-----------	-----------	-----------------

0	0.0-4.0': Silty SAND with gravel (50% sand, 35% silt, 15% gravel), fine and medium sand, fine gravel, dark brown, moist, no odor.	SM					
	4.0-4.5': Sandy SILT (60% silt, 40% sand), fill, wood frgements, dark brown, wet, no odor.	ML			4.1	PH-11A-4.0-091919	X
5							



Log of Test Pit: PH-12

Client: Vulcan
Project: Block 38W
Location: Seattle, Washington

Date/Time Started: 1/19/19 @ 0930
Date/Time Completed: 1/19/19 @ 1015
Equipment: Airknife
Excavation Company: APS
Excavation Foreman: NA
Excavating Method: Airknife

Sampler Type: Hand Auger
Depth of Water (ft bgs): 4.0
Total Excavation Depth (ft bgs): 4.0

Farallon PN: 397-019

Logged By: Yusuf Pehlivan

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
------------------	-----------------	------------------------	------	--------------	-----------	-----------	-----------------

0	0.0-0.9': Concrete.		CO				
	0.9-1.5': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse sand, fine and coarse gravel, brown, dry, no odor. Geotextile fabric at 1.5' bgs.		GW-GM				
	1.5-3.0': Concrete/rock blocks.		CO				
	3.0-4.0': Sandy SILT (60% silt, 40% sand), fine and medium sand, dark brown, moist, wet at 4.0 bgs, petroleum-like odor, trace organic plant matter. Water fills pothole at 4.0' bgs.		ML				
					127.5	PH-12-4.0-011919	X
5							



Log of Test Pit: PH-13

Client: Vulcan Project: Block 38W Location: Seattle, Washington	Date/Time Started: 1/12/19 @ 0840 Date/Time Completed: 1/12/19 @ 1015 Equipment: Airknife Excavation Company: APS Excavation Foreman: NA Excavating Method: Airknife	Sampler Type: Pothole Digger Depth of Water (ft bgs): 3.0 Total Excavation Depth (ft bgs): 5.0
Farallon PN: 397-019		
Logged By: Yusuf Pehlivan		

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
------------------	-----------------	------------------------	------	--------------	-----------	-----------	-----------------

0	0.0-0.7': Concrete.		CO				
	0.7-1.5': Fill (70% sand, 30% gravel), fine and medium sand, fine and coarse gravel, grayish brown, dry to moist, no odor.		FILL				
	1.5-4.0': Poorly graded SAND (90% sand, 10% gravel), fine and medium sand, fine gravel, dry, wet at 3.0' bgs, no odor, well cemented. Well-graded gravel in hole to 3.0'bgs. 4.0-5.0' bgs not logged due to water.		SP				
					0.0	PH-13-3.0-011218	X
5							



Log of Test Pit: PH-13A

Client: Vulcan
Project: Block 38W
Location: Seattle, Washington

Date/Time Started: 1/19/19 @ 0845
Date/Time Completed: 1/19/19 @ 0910
Equipment: Airknife
Excavation Company: APS
Excavation Foreman: NA
Excavating Method: Airknife

Sampler Type: Hand Auger
Depth of Water (ft bgs): 3.5
Total Excavation Depth (ft bgs): 3.5

Farallon PN: 397-019

Logged By: Yusuf Pehlivan

Depth (feet bgs)	Sample Interval	Lithologic Description	USCS	USGS Graphic	PID (ppm)	Sample ID	Sample Analyzed
------------------	-----------------	------------------------	------	--------------	-----------	-----------	-----------------

0	0.0-0.9': Concrete.		CO				
	0.9-1.3': Well-graded GRAVEL with silt and sand (75% gravel, 15% sand, 10% silt), fine to coarse sand, fine and coarse gravel, brown, dry, no odor, road base. Geotextile fabric at 1.3' bgs.		GW-GM				
	1.3-3.5': Poorly graded SAND with gravel (85% sand, 15% gravel), medium and coarse sand, fine gravel. (Airknife operator says CDF). 3.0-5.0' bgs water fills test pit.		SP				
5							



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 Fax (206) 654-7048

TEST PIT LOG

Project : Former Rosen Property
Location : Terry Avenue North & Republican St.
 Seattle, WA
Client : Stan Rosen c/o Riddell Williams
Project No : WA06-14141-PH2

Test Pit No. :
ATP-1

Ground Surface Elevation : N/A
Elevation Reference : N/A

Page : 01 of 01

DEPTH (feet)	SAMPLE NUMBER	TYPE SAMPLE	POCKET PENETROMETER (tons/ft)	TORVANE (tons/ft)	P.L.D. (ppm)	WATER BEARING ZONE	MATERIAL DESCRIPTION	LABORATORY TESTING
0					0.0		2 to 3 inches of asphalt pavement over 7 to 9 inches crushed rock base course over medium dense, damp, gray, gravelly, sandy SILT with minor bricks and small wood chips. No coal-like material, sheen or petroleum-like odors observed.	EPA 8270 WTPH- HCID
5					0.0		Loose/soft, damp to moist, brown, wood chips and large wood fragments and logs. No coal-like material, sheen or petroleum-like odors observed. Includes 50 percent large wood fragments.	EPA 8270
							Test pit terminated @ ~7.5-feet bgs No groundwater encountered	
10								
15								
20								

LEGEND

- Static Water Level at Drilling
- Water Seepage Indicator
- Bucket Sample
- 200 Wash (% fines shown)
- Static Water Level
- Water Bearing
- Bag Sample
- Grain Size Analysis (% fines shown)
- Perched Groundwater
- MC = XX** Moisture Content (%)

File Name: Test Pit Log.dwg

Start Date : 08/12/06

Completion Date : 08/12/06

Logged By : B.R.M.



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TEST PIT LOG

Project : Former Rosen Property
Location : Terry Avenue North & Republican St.
 Seattle, WA
Client : Stan Rosen c/o Riddell Williams
Project No : WA06-14141-PH2

Test Pit No. :
ATP-2

Ground Surface Elevation : N/A
 Elevation Reference : N/A

Page : 01 of 01

DEPTH (feet)	SAMPLE NUMBER	TYPE SAMPLE	POCKET PENETROMETER (tons/ft)	TORVANE (tons/ft)	P.I.D. (ppm)	WATER BEARING ZONE	MATERIAL DESCRIPTION	LABORATORY TESTING
0					0.0		2 to 3 inches of asphalt pavement over 3 inches crushed rock base course over loose, damp to moist, gray, silty, gravelly fine to coarse SAND. No coal-like material, sheen, or petroleum-like odors observed.	EPA 8270 WTPH-HCID
					0.0		Loose/soft, damp to wet, brown, wood chips and larger wood fragments and logs interlayered with gray, silty, gravelly fine to coarse SAND. No coal-like material, sheen, or petroleum-like odors observed. Includes 50 percent large wood fragments.	EPA 8270
5							Test pit terminated @ ~4-feet bgs No groundwater encountered	
10								
15								
20								

LEGEND

- Static Water Level at Drilling
- Water Seepage Indicator
- Bucket Sample
- 200 Wash (% fines shown)
- Static Water Level
- Water Bearing
- Bag Sample
- Grain Size Analysis (% fines shown)
- Perched Groundwater
- MC = XX Moisture Content (%)

File Name : Test Pit Log.dwg

Start Date : 08/12/06

Completion Date : 08/12/06

Logged By : B.R.M.



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TEST PIT LOG

Project : Former Rosen Property
Location : Terry Avenue North & Republican St.
 Seattle, WA
Client : Stan Rosen c/o Riddell Williams
Project No : WA06-14141-PH2

Test Pit No. :
ATP-3

Ground Surface Elevation : N/A
 Elevation Reference : N/A

Page : 01 of 01

DEPTH (feet)	SAMPLE NUMBER	TYPE SAMPLE	POCKET PENETROMETER (tons/ft ²)	TORVANE (tons/ft ²)	P. I.D. (ppm)	WATER BEARING ZONE	MATERIAL DESCRIPTION	LABORATORY TESTING
0					0.0		2 to 3 inches of asphalt pavement over 6 inches crushed rock base course over gray, silty, gravelly fine to coarse SAND with minor concrete fragments and abundant bricks with black wood fragments and discontinuous coal-rich zones at 2 to 3 feet. No sheen or petroleum-like odors observed.	WTPH-HCID EPA 8270
5					0.0		Soft/loose, wet to saturated, brown, wood chips and larger wood fragments and logs, No coal-like material sheen, or petroleum-like odors observed. Includes 60 percent large wood fragments.	EPA 8270
10							Test pit terminated @ ~7.0-feet bgs Groundwater encountered @ ~7.0 bgs	
15								
20								

LEGEND

- Static Water Level at Drilling
- Static Water Level
- Perched Groundwater
- Water Seepage Indicator
- Water Bearing
- MC = XX** Moisture Content (%)
- Bucket Sample
- Bag Sample
- 200 Wash (% fines shown)
- Grain Size Analysis (% fines shown)

File Name: Test Pit Log.dwg

Start Date : 08/12/06

Completion Date : 08/12/06

Logged By : B.R.M.



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TEST PIT LOG

Project : Former Rosen Property
Location : Terry Avenue North & Republican St.
 Seattle, WA
Client : Stan Rosen c/o Riddell Williams
Project No : WA06-14141-PH2

Test Pit No. :
ATP-4

Ground Surface Elevation : N/A
Elevation Reference : N/A

Page : 01 of 01

DEPTH (feet)	SAMPLE NUMBER	TYPE SAMPLE	POCKET PENETROMETER (tons/ft)	TORVANE (tons/ft)	P.I.D. (ppm)	WATER BEARING ZONE	MATERIAL DESCRIPTION	LABORATORY TESTING
0					0.0		2 to 3 inches of asphalt pavement over 3 inches crushed rock base course over loose, moist, gray, silty fine to medium SAND embedded with gray silt, and wood fragments and pieces, including two 6 inch diameter logs. No coal-like material, sheen or petroleum-like odors observed.	EPA 8270 WTPH-HCID
5					0.0		Loose/soft, damp to moist, brown, wood chips with larger pieces and logs. No coal-like material, sheen or petroleum-like odors observed. Includes 70 percent large wood fragments.	EPA 8270
							Test pit terminated @ ~6.0-feet bgs No groundwater encountered	
10								
15								
20								

LEGEND

- Static Water Level at Drilling
- Water Seepage Indicator
- Bucket Sample
- 200 Wash (% fines shown)
- Static Water Level
- Water Bearing
- Bag Sample
- Grain Size Analysis (% fines shown)
- Perched Groundwater
- MC = XX** Moisture Content (%)

File Name: Test Pit Log.dwg

Start Date : 08/12/06

Completion Date : 08/12/06

Logged By : B.R.M.



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TEST PIT LOG

Project : Former Rosen Property
Location : Terry Avenue North & Republican St.
 Seattle, WA
Client : Stan Rosen c/o Riddell Williams
Project No : WA06-14141-PH2

Test Pit No. :
ATP-5

Ground Surface Elevation : N/A
Elevation Reference : N/A

Page : 01 of 01

DEPTH (feet)	SAMPLE NUMBER	TYPE SAMPLE	ROCKET PENETROMETER (tons/ft)	TORVANE (tons/ft)	P. I.D. (diam)	WATER BEARING ZONE	MATERIAL DESCRIPTION	LABORATORY TESTING
0							2 to 3 inches of asphalt pavement over 3 to 4 inches crushed rock base course over grayish black, silty fine to medium SAND with some wood fragments (10 to 20%), and large concrete pieces (1.0 to 1.5 inch diameter) with some brick fragments. No coal-like material, sheen, or petroleum-like odors observed.	WTPH-HCID EPA 8270
5					0.0			
					0.0		Loose/soft, damp to moist, brown, wood chips, with some large wood fragments and logs mixed with silt and sand. No coal-like material, sheen, or petroleum-like odors observed. Includes 70 percent large wood fragments.	EPA 8270
10							Test pit terminated @ ~8.0-foot bgs Groundwater encountered @ ~6.5-foot bgs	
15								
20								

LEGEND

- Static Water Level at Drilling
- Water Seepage Indicator
- Bucket Sample
- 200 Wash (% fines shown)
- Static Water Level
- Water Bearing
- Bag Sample
- Grain Size Analysis (% fines shown)
- Perched Groundwater
- MC = XX** Moisture Content (%)

File Name : Test Pit Log.dwg

Start Date : 08/12/06

Completion Date : 08/12/06

Logged By : B.R.M.



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TEST PIT LOG

Project : Former Rosen Property
Location : Terry Avenue North & Republican St.
 Seattle, WA
Client : Stan Rosen c/o Riddell Williams
Project No : WA06-14141-PH2

Test Pit No. :
ATP-6

Ground Surface Elevation : N/A
Elevation Reference : N/A

Page : 01 of 01

DEPTH (feet)	SAMPLE NUMBER	TYPE SAMPLE	POCKET PENETROMETER (tons/ft)	TORVANE (tons/ft)	P.L.D. (ppm)	WATER BEARING ZONE	MATERIAL DESCRIPTION	LABORATORY TESTING
0					0.0		2 to 3 inches of asphalt pavement over 2 to 3 inches crushed rock base course over 6 to 7 inches of coal fragments over gray silt interlayered with some wood fragments. No sheen or petroleum-like odors observed.	WTPH-HCID EPA 8270
5					0.0		Loose/soft, damp to moist, brown, wood chips and larger wood fragments and logs, and some local silt. No coal-like material, sheen, or petroleum-like odors observed. Includes 60 percent large wood fragments.	EPA 8270
							Test pit terminated @ ~5.0-feet bgs No groundwater encountered	
10								
15								
20								

LEGEND

- Static Water Level at Drilling
- Water Seepage Indicator
- Bucket Sample
- 200 Wash (% fines shown)
- Static Water Level
- Water Bearing
- Bag Sample
- Grain Size Analysis (% fines shown)
- Perched Groundwater
- MC = XX Moisture Content (%)

File Name: Test Pit Log.docx

Start Date : 08/12/06

Completion Date : 08/12/06

Logged By : B.R.M.



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TEST PIT LOG

Project : Former Rosen Property
Location : Terry Avenue North & Republican St.
 Seattle, WA
Client : Stan Rosen c/o Riddell Williams
Project No : WA06-14141-PH2

Test Pit No. :
ATP-7

Ground Surface Elevation : N/A
Elevation Reference : N/A

Page : 01 of 01

DEPTH (feet)	SAMPLE NUMBER	TYPE SAMPLE	ROCKET PENETROMETER (tons/ft)	TORVANE (tons/ft)	P.I.D. (ppm)	WATER BEARING ZONE	MATERIAL DESCRIPTION	LABORATORY TESTING
0					0.0		2 to 3 inches of asphalt pavement over 3 inches crushed rock base course over loose, damp to moist, black, gravelly fine SAND with abundant fine black woody fragments, minor concrete and brick, and discontinuous gray, silty sand inclusions and some larger wood fragments and metal pieces. No coal-like material observed. Minor sheen and faint petroleum-like odor observed.	EPA 8270 WTPH-HCID
5					0.0	▼	Loose/soft, damp to wet, brown, wood chips and larger wood fragments and logs. No coal-like material, sheen, or petroleum-like odors observed. Includes 60 percent large wood fragments.	EPA 8270
						08/13 2006	Test pit terminated @ ~6.0-feet bgs Groundwater encountered @ ~6.0-feet bgs	
10								
15								
20								

LEGEND

- ▼ DATE Static Water Level at Drilling
- ▼ DATE Static Water Level
- ▼ DATE Perched Groundwater
-  Water Seepage Indicator
-  Water Bearing
- MC = XX Moisture Content (%)
-  Bucket Sample
-  Bag Sample
-  200 Wash (% fines shown)
-  Grain Size Analysis (% fines shown)

File Name: Test Pit Log.dwg

Start Date : 08/13/06

Completion Date : 08/13/06

Logged By : B.R.M.



Adapt Engineering, Inc.
 615 - 8th Avenue South
 Seattle, Washington 98104
 Tel (206) 654-7045
 Fax (206) 654-7048

TEST PIT LOG

Project : Former Rosen Property
Location : Terry Avenue North & Republican St.
 Seattle, WA
Client : Stan Rosen c/o Riddell Williams
Project No : WA06-14141-PH2

Test Pit No. :
ATP-8

Ground Surface Elevation : N/A
Elevation Reference : N/A

Page : 01 of 01

DEPTH (feet)	SAMPLE NUMBER	TYPE SAMPLE	POCKET PENETROMETER (tons/ft)	TORVANE (tons/ft)	P.I.D. (ppm)	WATER BEARING ZONE	MATERIAL DESCRIPTION	LABORATORY TESTING
0					0.0		2 to 3 inches of asphalt pavement over 4 inches crushed rock base course over loose, damp to moist, sand and gravel with wood fragments and pieces, including a 12 inch diameter log, and dimension lumber with some discontinuous coal-rich zones at 1 to 2 feet depth. No sheen or petroleum-like odors observed. Includes 20 percent large wood fragments	EPA 8270 WTPH-HCID
5					0.0	▼	Soft, damp to wet, brown, wood chips and larger wood fragments and logs. No coal-like material, sheen, or petroleum-like odors observed. Includes 50 percent large wood fragments	EPA 8270
						08/13 2006	Test pit terminated @ ~6.5-feet bgs Groundwater encountered @ ~6.0-feet bgs	
10								
15								
20								

LEGEND

- Static Water Level at Drilling
- Water Seepage Indicator
- Bucket Sample
- 200 Wash (% fines shown)
- Static Water Level
- Water Bearing
- Bag Sample
- Grain Size Analysis (% fines shown)
- Perched Groundwater
- MC = XX** Moisture Content (%)
-

File Name: Test Pit Log.docx

Start Date : 08/13/06

Completion Date : 08/13/06

Logged By : B.R.M.



Adapt Engineering, Inc.
 615 - 8th Avenue South
 Seattle, Washington 98104
 Tel (206) 654-7045
 Fax (206) 654-7048

TEST PIT LOG

Project : Former Rosen Property
Location : Terry Avenue North & Republican St.
 Seattle, WA
Client : Stan Rosen c/o Riddell Williams
Project No : WA06-14141-PH2

Test Pit No. :
ATP-9

Ground Surface Elevation : N/A
Elevation Reference : N/A

Page : 01 of 01

DEPTH (feet)	SAMPLE NUMBER	TYPE SAMPLE	POCKET PENETROMETER (tons/ft)	TORVANE (tons/ft)	P.I.D. (ppm)	WATER BEARING ZONE	MATERIAL DESCRIPTION	LABORATORY TESTING
0					0.0		2 to 3 inches of asphalt pavement over 3 to 4 inches crushed rock base course over medium dense, damp, gray, gravelly, silty fine SAND. No coal-like material, sheen, or petroleum-like odors observed.	EPA 8270 WTPH-HCID
					0.0		Loose, damp to moist, black, wood fragments with some sand, gravel, brick, and metal fragments. No coal-like material, sheen or petroleum-like odors observed.	
5					0.0		Grades to loose, damp to wet, brown wood chips with logs to 6 inch diameter. No coal-like material, sheen, or petroleum-like odors observed. Includes 50 percent large wood fragments.	EPA 8270
							Test pit terminated @ ~6.5-feet bgs No groundwater encountered	
10								
15								
20								

LEGEND

-  Static Water Level at Drilling
DATE
-  Water Seepage Indicator
-  Bucket Sample
-  200 Wash (% fines shown)
-  Static Water Level
DATE
-  Water Bearing
-  Bag Sample
-  Grain Size Analysis (% fines shown)
-  Perched Groundwater
- MC = XX Moisture Content (%)
- XX

File Name : Test Pit Log.dwg



Adapt Engineering, Inc.
 615 - 8th Avenue South
 Seattle, Washington 98104
 Tel (206) 654-7045
 Fax (206) 654-7048

TEST PIT LOG

Project : Former Rosen Property
Location : Terry Avenue North & Republican St.
 Seattle, WA
Client : Stan Rosen c/o Riddell Williams
Project No : WA06-14141-PH2

Test Pit No. :
ATP-10

Ground Surface Elevation : N/A

Elevation Reference : N/A

Page : 01 of 01

DEPTH (feet)	SAMPLE NUMBER	TYPE SAMPLE	POCKET PENETROMETER (tons/ft)	TORVANE (tons/ft)	P.I.D. (ppm)	WATER BEARING ZONE	MATERIAL DESCRIPTION	LABORATORY TESTING
0							2 to 3 inches of asphalt pavement over 3 to 4 inches gravel base course over medium dense, gray, gravelly, silty fine SAND mixed with dark gray to black, organic-rich, gravelly, silty fine SAND with minor isolated coal-like fragments and large logs to 12 inches in diameter. No sheen or petroleum-like odors observed. Includes 30 percent large wood fragments.	EPA 8270 WTPH-HCID
					0.0		Loose, damp to moist, black, wood fragments with some sand and gravel	
					0.0		Grades to damp to wet, brown, wood chips with larger fragments and logs. No coal-like material, sheen, or petroleum-like odors observed. Includes 70 percent large wood fragments.	
5					0.0		Test pit terminated @ ~5.5-feet bgs No groundwater encountered	EPA 8270
10								
15								
20								

LEGEND

- Static Water Level at Drilling
 DATE
- Water Seepage Indicator
- Bucket Sample
- 200 Wash (% fines shown)
- Static Water Level
 DATE
- Water Bearing
- Bag Sample
- Grain Size Analysis (% fines shown)
- Perched Groundwater
- MC = XX Moisture Content (%)

File Name : Test Pit Log.dwg

Start Date : 08/13/06

Completion Date : 08/13/06

Logged By : B.R.M.

SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE GRAINED SOILS More Than 50% Retained on No. 200 Sieve	GRAVEL More Than 50% of Coarse Fraction Retained on No. 4 Sieve	CLEAN GRAVEL	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL
			GP	POORLY-GRADED GRAVEL
		GRAVEL WITH FINES	GM	SILTY GRAVEL
			GC	CLAYEY GRAVEL
	SAND More Than 50% of Coarse Fraction Passes No. 4 Sieve	CLEAN SAND	SW	WELL-GRADED SAND, FINE TO COARSE SAND
			SP	POORLY-GRADED SAND
		SAND WITH FINES	SM	SILTY SAND
			SC	CLAYEY SAND
FINE GRAINED SOILS More Than 50% Passes No. 200 Sieve	SILT AND CLAY Liquid Limit Less Than 50	INORGANIC	ML	SILT
			CL	CLAY
	SILT AND CLAY Liquid Limit 50 or More	INORGANIC	OL	ORGANIC SILT, ORGANIC CLAY
			MH	SILT OF HIGH PLASTICITY, ELASTIC SILT
		ORGANIC	CH	CLAY OF HIGH PLASTICITY, FAT CLAY
			OH	ORGANIC CLAY, ORGANIC SILT
HIGHLY ORGANIC SOILS			PT	PEAT

NOTES:

- Field classification is based on visual examination of soil in general accordance with ASTM D2488-90.
- Soil classification using laboratory tests is in general accordance with ASTM D2487-90.
- Descriptions of soil density or consistency are based on interpretation of blow count data, visual appearance of soils, and/or test data.

SOIL MOISTURE MODIFIERS:

- Dry - Absence of moisture, dusty, dry to the touch
- Moist - Damp, but no visible water
- Wet - Visible free water or saturated, usually soil is obtained from below water table



SOIL CLASSIFICATION SYSTEM

FIGURE A-1

LABORATORY TESTS

- AL Atterberg limits
- CA Chemical analysis
- CP Compaction
- CS Consolidation
- DS Direct shear
- GS Sieve Analysis
- %F Percent fines
- HA Hydrometer analysis
- SK Permeability
- SM Moisture content
- MD Moisture and density
- ST Swelling test
- TX Triaxial compression
- UC Unconfined compression

FIELD SCREENING TESTS

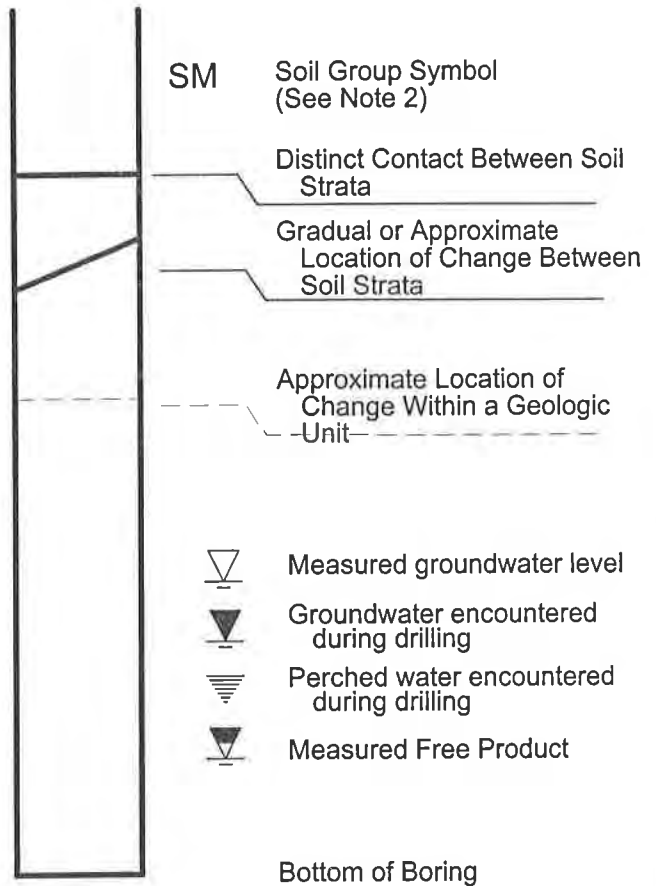
Visual Sheen Test Classifications

- NS No Visible Sheen
- SS Slight sheen
- MS Moderate sheen
- HS Heavy sheen
- Not tested

Vapor Measurements

- TLV TLV™ sniffer
- PID Photo ionization detector
- FID Flame ionization detector
- OVA Organic vapor analyzer
- Not tested

SOIL GRAPHICS



BLOW-COUNT

Blows required to drive sampler 12 inches using a 140-pound hammer falling 30-inches | 15



Location of sample obtained in general accordance with Standard Penetration Test (ASTM D-1586) procedures



Location of SPT sampling attempt with no recovery

SAMPLE GRAPHICS

NOTES:

1. The reader must refer to the discussion in the report text, the Key to Log Symbols and the exploration logs for a proper understanding of subsurface conditions.
2. Soil classification system is summarized in Figure A-1.

KEY TO LOG SYMBOLS



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-2
 Sheet 1 of 1

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	8.5	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	8.5
Datum/System	N/A				

Elevation feet	Depth feet	SAMPLES				Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID(ppm)	NOTES
		Interval	Testing	Recovered (in)	Blows/foot							
0							SW	Brown fine to coarse sand with layers of wood and coal (medium dense, moist) (fill)				
			CA					Coal sample obtained	NS	0		
							PEAT	Black organic matter (soft, wet) (fill)	NS	0		
			CA				WD	Brown wood pieces with trace sand and silt (medium dense, moist) (fill)				
5									NS	0		
								Gray wood pieces with silt (medium dense, wet) (fill)	NS	0		
10												
15												

Note: See Figure A-2 for explanation of symbols

LOG OF GEOPROBE BORING P-1



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-3
 Sheet 1 of 1

7131-002-03 GEI ENVBORING 2.1.0 P:\7131002\02\FINALS\7131002.GPJ GEIV2_1.GDT 8/7/02

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	12	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	9
Datum/ System	N/A				

Elevation feet	Depth feet	SAMPLES				Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID(ppm)	NOTES
		Interval	Testing	Recovered (in)	Blows/foot							
0							SW	Brown fine to coarse sand with layers of silt, wood, concrete, coal (medium dense, moist) (fill)	NS	0		
		CA						Silt sample obtained Coal sample obtained	NS	0		
							WD	Brown wood fragments (medium dense, moist) (fill)	NS	0		
5							RX	Red brick fragments (dense, moist) (fill)	NS	0		
							WD	Black and brown wood debris (medium dense, moist) (fill)	NS	0		
							ML	Brown silt (medium dense, wet)	NS	0		
10		CA							NS	0		
15												

Note: See Figure A-2 for explanation of symbols

LOG OF GEOPROBE BORING P-2



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-4
 Sheet 1 of 1

7131-002-03 GEI ENVBORING 2.1.0 P:\7131002\FINALS\7131002.GPJ GEIV2_1.GDT 8/7/02

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	9	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	5
Datum/System	N/A				

Elevation feet	Depth feet	SAMPLES				Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID(ppm)	NOTES
		Interval	Testing	Recovered (in)	Blows/foot							
0							SW	Brown fine to coarse sand (medium dense, moist) (fill)	NS	0		
		CA					WD	Brown wood debris (medium dense, moist) (fill)	NS	0		
		CA							NS	0		
5												
									SS	0		
		CA					ML	Brown silt (dense, wet)	NS	0		
10												
15												

Note: See Figure A-2 for explanation of symbols

7131-002-03_GEL_ENVBORING 2.1.0 P:\717131002\02\FINAL\S17131002.GPJ GEIV2_1.GDT 8/7/02

LOG OF GEOPROBE BORING P-3



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-5
 Sheet 1 of 1

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	6	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	None
Datum/System	N/A				

Elevation feet	Depth feet	SAMPLES					Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID(ppm)	NOTES
		Interval	Testing	Recovered (in)	Blows/foot	Water Level						
0							SW	Brown and black sand with layers of concrete, brick, coal and wood (medium dense, moist) (fill)				
									NS	0		
			CA						NS	0		
5			CA						SS	0		
10												
15												

Note: See Figure A-2 for explanation of symbols

LOG OF GEOPROBE BORING P-4



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-6
 Sheet 1 of 1

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	6	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	6
Datum/System	N/A				

Elevation feet	Depth feet	SAMPLES				Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID(ppm)	NOTES
		Interval	Testing	Recovered (in)	Blows/foot							
0							RBL	Layers of concrete, brick, wood and coal (medium dense, moist) (fill)	NS	0		
							WD	Black wood debris (medium dense, moist) (fill)	NS	0		
		CA							SS	0		
5												
10												
15												

Note: See Figure A-2 for explanation of symbols

LOG OF GEOPROBE BORING P-5



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-7
 Sheet 1 of 1

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	6	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	None
Datum/System	N/A				

Elevation feet	Depth feet	SAMPLES				Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID(ppm)	NOTES
		Interval	Testing	Recovered (in)	Blows/foot							
0							CC	Gray concrete debris (medium dense, moist) (fill)				
							WD	Gray and brown wood debris (medium dense, moist) (fill)	NS	0		
		CA							NS	0		
5									NS	0		
10												
15												

Note: See Figure A-2 for explanation of symbols

LOG OF GEOPROBE BORING P-6



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-8
 Sheet 1 of 1

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	6	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	None
Datum/System	N/A				

Elevation feet	Depth feet	SAMPLES				Water Level	Graphic Log	Group Symbol	MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID(ppm)	NOTES
		Interval	Testing	Recovered (in)	Blows/foot							
0							SW	Gray fine to coarse sand with trace silt with layers of concrete (medium dense, moist) (fill)	SS	0		
		CA					PEAT	Brown peat (loose, wet) (fill)	NS	0		
							WD	Brown wood (medium dense, moist) (fill)				
5							ML	Brown silt with wood debris (medium dense, moist)	NS	0		
		CA										
10												
15												

Note: See Figure A-2 for explanation of symbols

LOG OF GEOPROBE BORING P-7



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-9
 Sheet 1 of 1

7131-002-03_GEL_ENVBORING 2.1.0_P:\7131002\FINALS\7131002.GPJ_GEIV2 1.GDT 8/7/02

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	3	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	None
Datum/System	N/A				

Elevation feet	Depth feet	SAMPLES					MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID(ppm)	NOTES
		Interval	Testing	Recovered (in)	Blows/foot	Water Level				
0							Gray fine to coarse sand with trace silt and layers of concrete, brick and coal (medium dense, moist) (fill)			
		CA					Coal sample obtained	SS	0	
5										
10										
15										

Note: See Figure A-2 for explanation of symbols

LOG OF GEOPROBE BORING P-8



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-10
 Sheet 1 of 1

7131-002-03 GEI ENVBORING 2.1.0 P:\7131002\FINALS\7131002.GPJ GEIV2 1.GDT 8/7/02

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	3	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	None
Datum/System	N/A				

Elevation feet	Depth feet	SAMPLES					MATERIAL DESCRIPTION	Sheen	Headspace Vapor PID(ppm)	NOTES
		Interval	Testing	Recovered (in)	Blows/foot	Water Level				
0							SP			Brown fine to medium sand with coal and layers of concrete (medium dense, moist) (fill)
		CA						NS	0	
							WD	NS	0	Brown wood debris with black coal fragments (medium dense, moist) (fill)
5										
10										
15										

Note: See Figure A-2 for explanation of symbols

LOG OF GEOPROBE BORING P-9

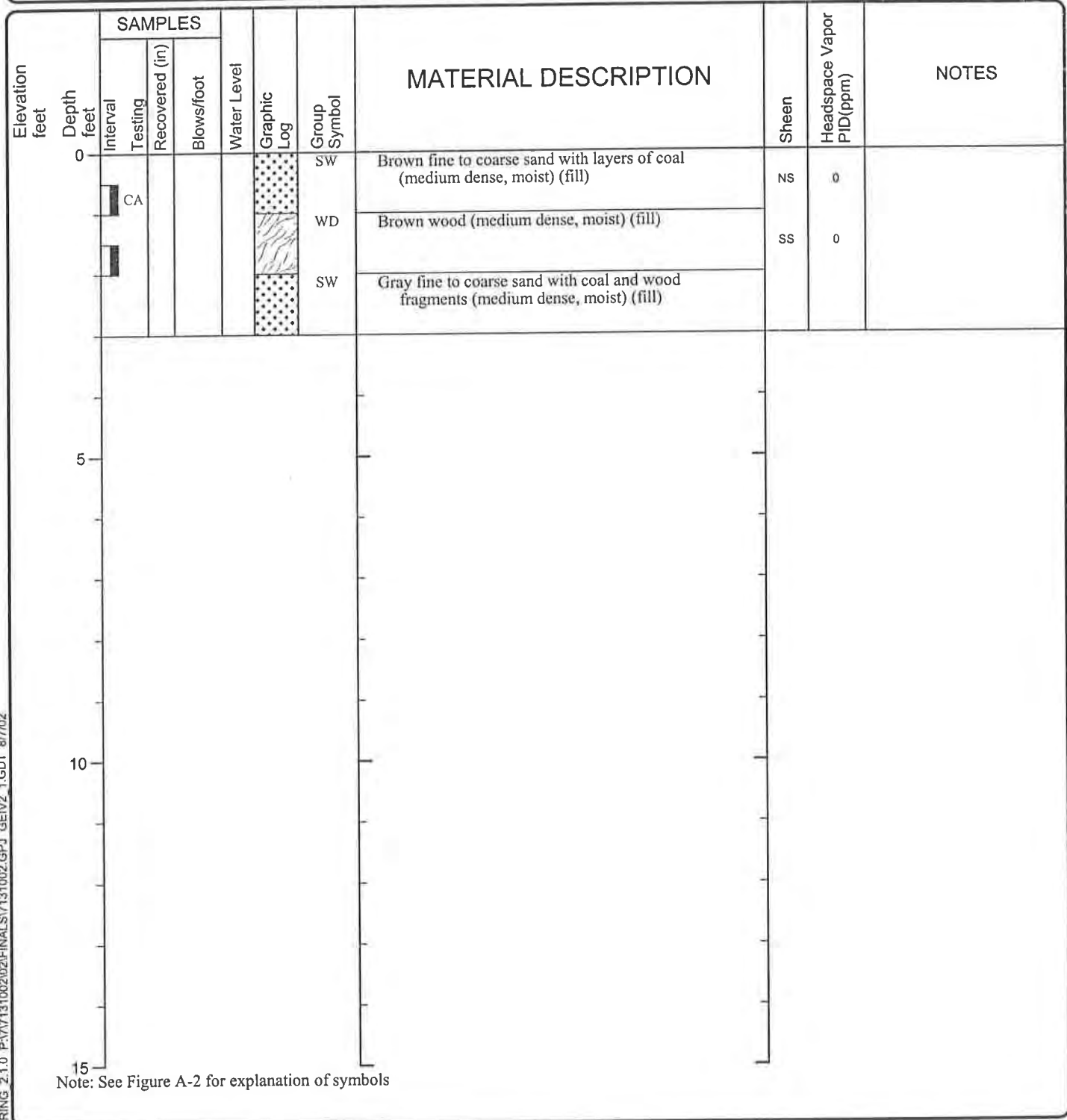


Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-11
 Sheet 1 of 1

7131-002-03 GEI ENVBORING 2.1.0 P:\7131002\2\FINAL\S17131002.GPJ GEIV2_1.GDT 8/7/02

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	3	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	None
Datum/System	N/A				



LOG OF GEOPROBE BORING P-10

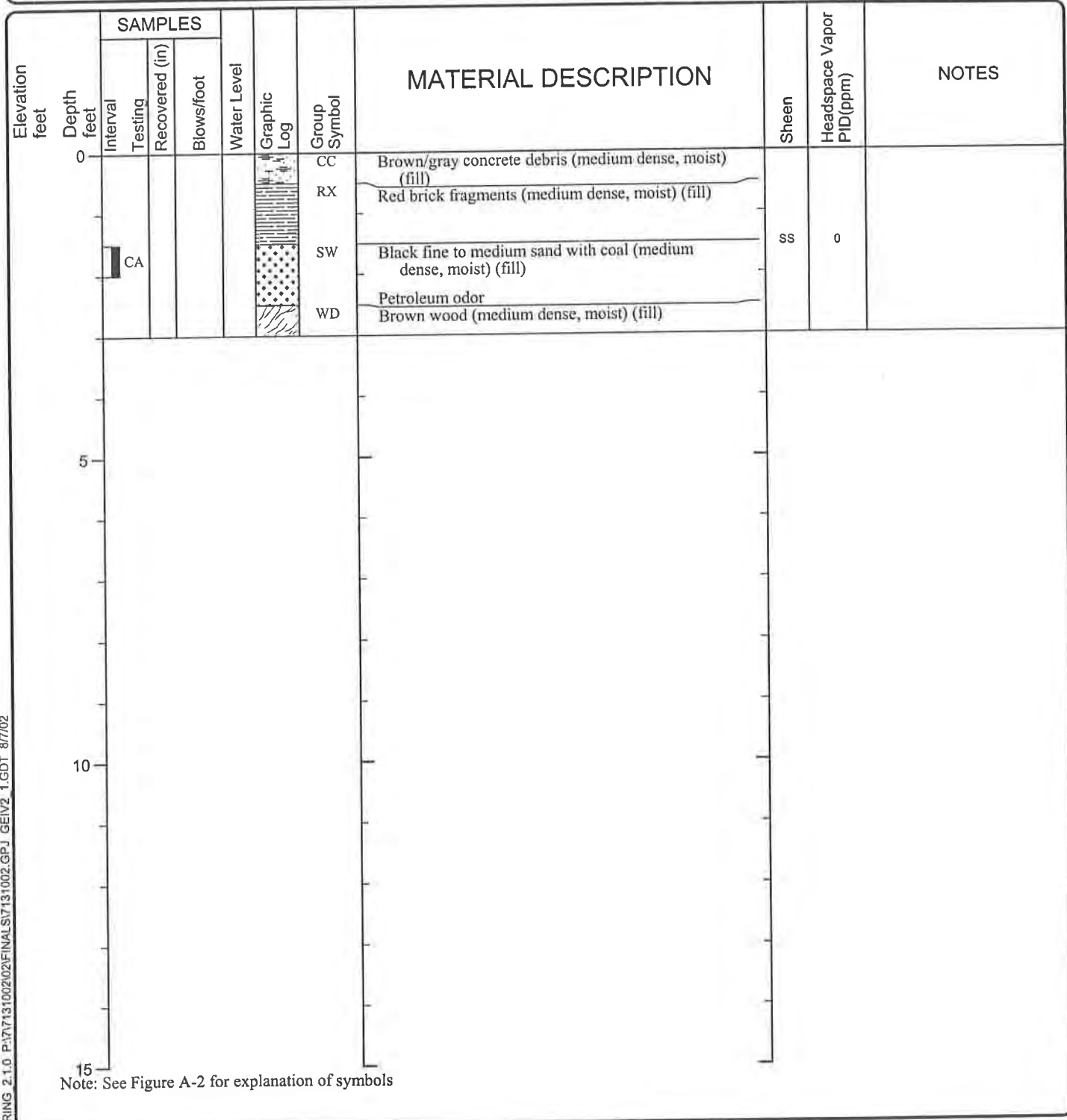


Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-12
 Sheet 1 of 1

7131-002-03_GEL_ENVBORING_2.1.0_P:\7131002\02\FINALS\7131002.GPJ_GEIV2_1.GDT_8/7/02

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	3	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	None
Datum/System	N/A				



7131-002-03 GEI ENVBORING 2.1.0 P:\7131002\FINALS\7131002.GPJ GEIV2 1.GDT 8/7/02

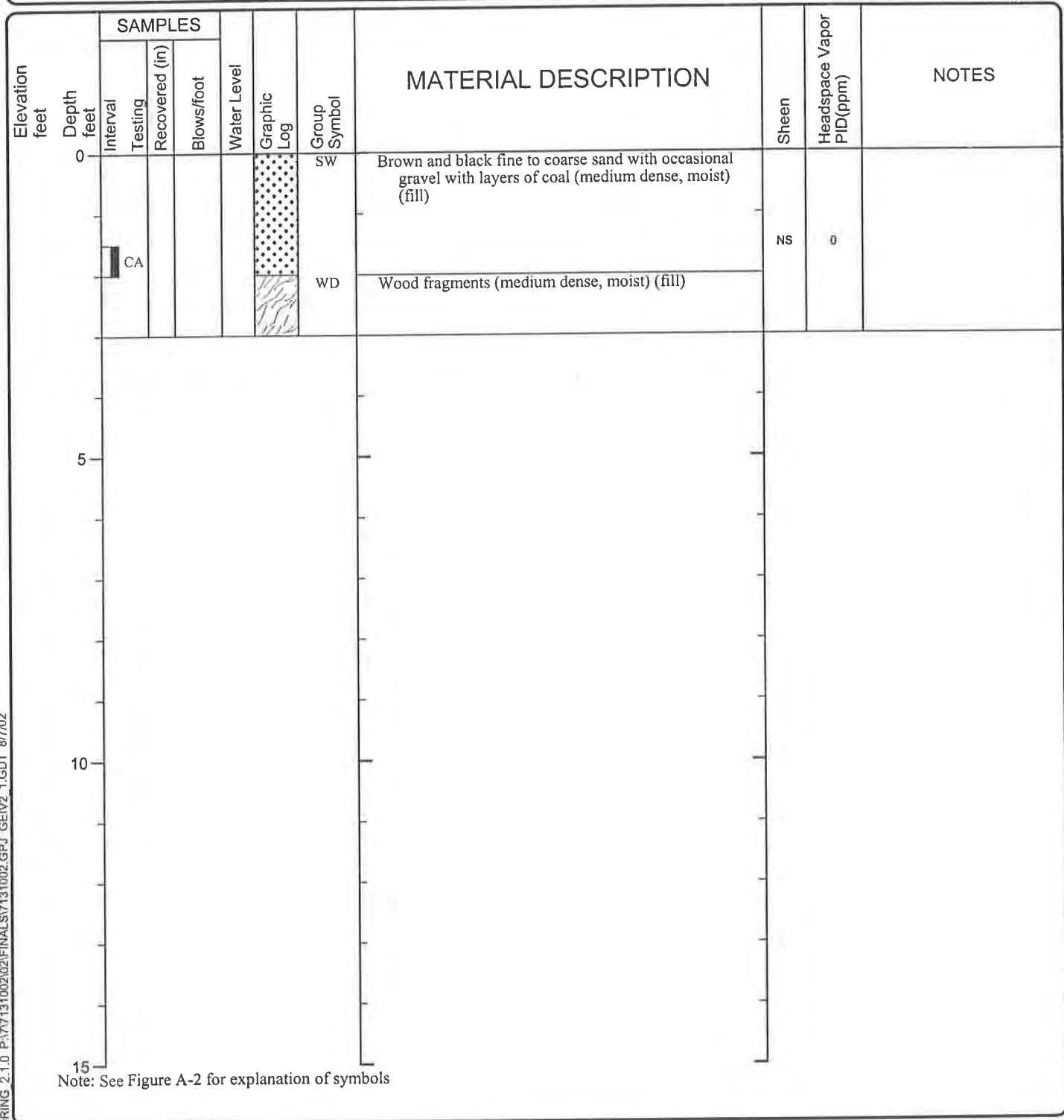
LOG OF GEOPROBE BORING P-11



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

Figure: A-13
 Sheet 1 of 1

Date(s) Drilled	06/12/02	Logged By	JAR	Checked By	BPP
Drilling Contractor	ESN	Drilling Method	Direct push	Sampling Methods	Split Spoon
Auger Data		Hammer Data		Drilling Equipment	Geoprobe
Total Depth (ft)	3	Surface Elevation (ft)	Not measured	Ground Water Level (ft. bgs)	None
Datum/System	N/A				



LOG OF GEOPROBE BORING P-12



Project: Lake Union, I LLC-Tech II Site
 Project Location: Seattle, Washington
 Project Number: 7131-002-03

7131-002-03_GEL_ENVBORING_2.1.0_P171713100202\FINALS\7131002.GPJ_GEIV2_1.GDT_8/7/02

BORING LOG

SCS ENGINEERS

Environmental Consultants

2950 Northup Way
Bellevue, Wa 98004

(206) 822-5800
FAX (206) 889-2267

PROJECT: CITY OF SEATTLE

HOLE/WELL #: MW-1

LOCATION: WESTLAKE

DIAMETER: 6 1/4" I.D.

JOB NUMBER: 0489021.02

TOTAL DEPTH: 19' 10"

GEOLOGIST/ENGINEER: D. VENCHIARUTTI

DATE STARTED: 1/28/91

DRILLER: HOKKAIDO

DATE COMPLETED: 1/28/91

DRILL RIG: MOBIL B - 61

SAMPLING DEVICE: SPLIT SPOON

DRILLING METHOD: HOLLOW STEMAUGER PAGE: 1

OF: 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/18'	USCS SYMBOL	DESCRIPTION	
0						Asphalt	
1							
2						Gm	Gravel fill, 1/2" - 1" gravel, brown silt.
3							
4							
5				19630	14	Gm	Sandy gravel, 1/2" - 1" gravel, silty brown soil, some grey clay. HNu 0 ppm.
6				19631			
7							
8							
9							
10				19632	11	SC	Silty grey clay, with med. coarse sand. HNu 0 ppm.
11				19633			
12							Water level
13						SC	Sand, med. coarse, silty with grey clay. Wet. HNu 0 ppm.
14							
15							
16							
17						SC	Medium coarse sand with some clay, grey, plastic. HNu 0 ppm.
18							
19				19634		OH	Grey plastic clay. Decomposed wood and peat. HNu 0 ppm.
20			19635				

BORING LOG

**SCS
ENGINEERS**

Environmental Consultants

2950 Northup Way
Bellevue, Wa 98004

(206) 822-5800
FAX (206) 889-2267

PROJECT: CITY OF SEATTLE

HOLEWELL #: MW-2

LOCATION: WESTLAKE

DIAMETER: 6 1/4" I.D.

JOB NUMBER: 0489021.02

TOTAL DEPTH: 14' 4"

GEOLOGIST/ENGINEER: D. VENCHIARUTTI DATE STARTED: 1/30/91

DRILLER: HOKKAIDO

DATE COMPLETED: 1/30/91

DRILL RIG: MOBIL B - 61

SAMPLING DEVICE: SPLIT SPOON

DRILLING METHOD: HOLLOW STEM AUGER PAGE: 1 OF: 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/18"	USCS SYMBOL	DESCRIPTION	
0		<p>2" PVC Blank Casing</p> <p>Cement</p> <p>Chip Bentonite</p> <p>2" PVC Screen .010 Slot Size</p> <p>Sand Filter Pack</p> <p>Sediment Trap</p>			Gm	Asphalt	
1						Gm	Silty gravel soil, cobbles to 1". Some organic debris.
2							
3							
4							
5				19284 19285	30	Gm	Dark green silt, with cobbles and assorted debris. Dry. HNu 0 ppm
6							
7							▽ Water level
8				19286 19287	35	Sm	Wet, clay rich green silt with some coarse sand. Concrete debris occur.
9							
10							
11							
12							
13							
14			19288	25	SC	Concrete debris still present. Less sandy, more clay rich, plastic. Very wet. HNu 0 ppm	
15							
16							
17							
18							
19							
20							

BORING LOG

SCS ENGINEERS

Environmental Consultants

2950 Northup Way
Bellevue, Wa 98004

(206) 822-5800
FAX (206) 889-2267

PROJECT: CITY OF SEATTLE

HOLE/WELL #: MW-3

LOCATION: WESTLAKE

DIAMETER: 6 1/4" I.D.

JOB NUMBER: 0489021.02

TOTAL DEPTH: 17'

GEOLOGIST/ENGINEER: D. VENCHIARUTTI DATE STARTED: 1/29/91

DRILLER: HOKKAIDO

DATE COMPLETED: 1 / 29 / 91

DRILL RIG: MOBIL B - 61

SAMPLING DEVICE: SPLIT SPOON

DRILLING METHOD: HOLLOW STEM AUGER PAGE: 1

OF: 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 18"	USCS SYMBOL	DESCRIPTION	
0					OL	Grass; on brown clayish silt. 10% gravel to 1".	
1							
2							
3							
4							
5				19641 19642	17	OL	Green brown silt with some gray clay. Wood chips. 10% pebbles to 1". HNu 0 ppm.
6							
7							
8							Green-grey plastic clay, with minor silt. Wet. HNu 0 ppm.
9							
10				19643 19644	11	OH	Water level
11							
12							
13							
14							
15							
16							
17			19645	19	OH	Wet green, gray plastic clay. HNu 0 ppm.	
18							
19							
20							

BORING LOG

SCS ENGINEERS

Environmental Consultants

2950 Northup Way
Bellevue, Wa 98004

(206) 822-5800
FAX (206) 889-2267

PROJECT: CITY OF SEATTLE

HOLE/WELL #: MW-4

LOCATION: WESTLAKE

DIAMETER: 6 1/4" I.D.

JOB NUMBER: 0489021.02

TOTAL DEPTH: 15'

GEOLOGIST/ENGINEER: D. VENCHIARUTTI DATE STARTED: 1/29/91

DRILLER: HOKKAIDO

DATE COMPLETED: 1 / 29 / 91

DRILL RIG: MOBIL B - 61

SAMPLING DEVICE: SPLIT SPOON

DRILLING METHOD: HOLLOW STEM AUGER PAGE: 1

OF: 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS / 18"	USCS SYMBOL	DESCRIPTION	
0					GC	Concrete	
1						GC	Grey silty clay, some gravel. Petro hydrocarbon vapors. HNu 20 - 25 ppm.
2							
3							
4							
5				19636	14	GC	Gravel and cobbles to 6", with grey silty clay. Strong gas odor. HNu 50 - 100 ppm.
6							
7							
8						SC	Water level
9							Grey, silty medium sand. Wet. HNu 300 ppm.
10				19637	6		
11				19638			
12							
13							
14							
15			19639	4	OH	Plastic, grey silty clay. Some decomposed wood. Wet. HNu < 5 ppm.	
16			19640				
17							
18							
19							
20							

BORING LOG

**SCS
ENGINEERS**

Environmental Consultants

2950 Northup Way
Bellevue, Wa 98004

(206) 822-5800
FAX (206) 889-2267

PROJECT: CITY OF SEATTLE

HOLE/WELL #: MW-5

LOCATION: WESTLAKE

DIAMETER: 6 1/4" I.D.

JOB NUMBER: 0489021.02

TOTAL DEPTH: 17' 4"

GEOLOGIST/ENGINEER: D. VENCHIARUTTI DATE STARTED: 1/31/91

DRILLER: HOKKAIDO

DATE COMPLETED: 1/31/91

DRILL RIG: MOBIL B - 61

SAMPLING DEVICE: SPLIT SPOON

DRILLING METHOD: HOLLOW STEM AUGER PAGE: 1 OF: 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/18"	USCS SYMBOL	DESCRIPTION	
0						Asphalt	
1							
2						CL	Green clay rich fill. Sand, silt and gravel mix. HNu 10 ppm.
3							
4							
5				19289	38	OH	Green-grey clay, very plastic. Some organic debris. Dry, some petro hydrocarbon vapors. HNu 5 - 7 ppm.
6				19290			
7							
8							
9							
10				19291	8	OH	Green/grey plastic clay. Some sand. Organics present. Dry. HNu 250 ppm.
11				19292			Water level
12							
13							
14							
15							
16							
17			19294	11	OH	Very wet. Residual sand, with clay washed away. Smell of petroleum hydrocarbons. Wood debris common.	
18							
19							
20							

BORING LOG

SCS ENGINEERS

Environmental Consultants

2950 Northrup Way
Bellevue, Wa 98004

(206) 822-5800
FAX (206) 889-2267

PROJECT: CITY OF SEATTLE

HOLEWELL#: BH-4

LOCATION: WESTLAKE

DIAMETER: 6 1/4" I.D.

JOB NUMBER: 0489021.02

TOTAL DEPTH: 8'

GEOLOGIST/ENGINEER: D. VENCHIARUTTI DATE STARTED: 1/30/91


DRILLER: HOKKAIDO

DATE COMPLETED: 1/230/91

DRILL RIG: MOBIL B - 61

SAMPLING DEVICE: SPLIT SPOON

DRILLING METHOD: HOLLOW STEM AUGER PAGE: 1 OF: 1

DEPTH (FEET)	SAMPLE	COMPLETION DETAIL	SAMPLE #	BLOW COUNTS/18"	USCS SYMBOL	DESCRIPTION
0						Asphalt
1					Gm	Brown silty soil with 1" - 2" gravel.
2						
3						
4						
5			19279 19280	25	OL	Green clay rich silt with cobbles and some organics. HNu 0 ppm.
6						
7						
8			19281 19282	29	OL	<div style="text-align: center;">  Water level </div> Same as above, but with more sandy silt, less clay. Some organics. HNu 0 ppm.
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE GRAINED SOILS MORE THAN 50% RETAINED ON NO. 200 SIEVE	GRAVEL MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVEL	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL
			GP	POORLY-GRADED GRAVEL
		GRAVEL WITH FINES	GM	SILTY GRAVEL
			GC	CLAYEY GRAVEL
	SAND MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE	CLEAN SAND	SW	WELL-GRADED SAND, FINE TO COARSE SAND
			SP	POORLY-GRADED SAND
		SAND WITH FINES	SM	SILTY SAND
			SC	CLAYEY SAND
FINE GRAINED SOILS MORE THAN 50% PASSES NO. 200 SIEVE	SILT AND CLAY LIQUID LIMIT LESS THAN 50	INORGANIC	ML	SILT
			CL	CLAY
	SILT AND CLAY LIQUID LIMIT 50 OR MORE	INORGANIC	MH	SILT OF HIGH PLASTICITY, ELASTIC SILT
			CH	CLAY OF HIGH PLASTICITY, FAT CLAY
	ORGANIC	OL	ORGANIC SILT, ORGANIC CLAY	
		OH	ORGANIC CLAY, ORGANIC SILT	
HIGHLY ORGANIC SOILS			PT	PEAT

NOTES:

- Field classification is based on visual examination of soil in general accordance with ASTM D2488-84.
- Soil classification using laboratory tests is based on ASTM D2487-85.
- Descriptions of soil density or consistency are based on interpretation of blowcount data, visual appearance of soils, and/or test data.

SOIL MOISTURE MODIFIERS:

- Dry - Absence of moisture, dusty, dry to the touch
- Moist - Damp, but no visible water
- Wet - Visible free water or saturated, usually soil is obtained from below water table

LABORATORY TESTS:

CA Chemical Analysis

FIELD SCREENING TESTS:

Headspace vapor concentration data given in parts per million

Sheen classification system:

NS No Visible Sheen

SS Slight Sheen

MS Moderate Sheen

HS Heavy Sheen

NT Not Tested

SOIL GRAPH:



SM Soil Group Symbol
(See Note 2)

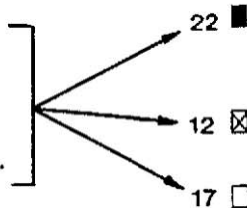
Distinct Contact Between Soil Strata

Gradual or Approximate Location of Change Between Soil Strata

▽ Water Level
Bottom of Boring

BLOW-COUNT/SAMPLE DATA:

Blows required to drive a 2.4-inch I.D. split-barrel sampler 12 inches or other indicated distances using a 300-pound hammer falling 30 inches.

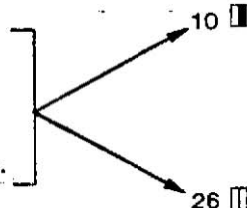


Location of relatively undisturbed sample

Location of disturbed sample

Location of sampling attempt with no recovery

Blows required to drive a 1.5-inch I.D. (SPT) split-barrel sampler 12 inches or other indicated distances using 140-pound hammer falling 30 inches.



Location of sample obtained in general accordance with Standard Penetration Test (ASTM D-1586) procedures

Location of SPT sampling attempt with no recovery

☐ Location of grab sample

"P" indicates sampler pushed with weight of hammer or against weight of drill rig.

NOTES:

1. The reader must refer to the discussion in the report text, the Key to Boring Log Symbols and the exploration logs for a proper understanding of subsurface conditions.
2. Soil classification system is summarized in Figure A-1.

GEI 121-90

MONITORING WELL NO. MW-32A

WELL SCHEMATIC

Casing Elevation (ft.): 20.70
 Casing Stickup (ft.): -0.28

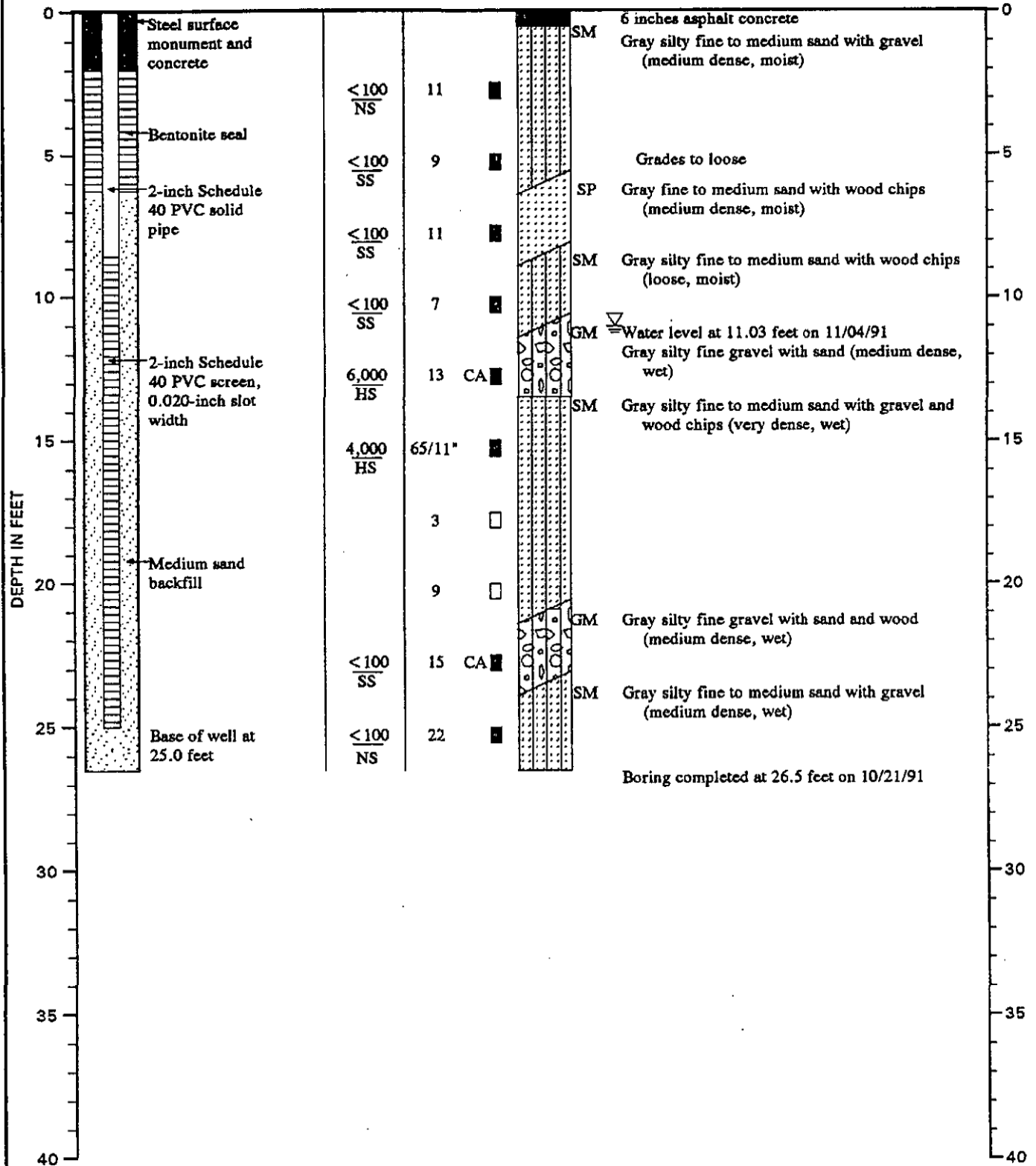
Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 20.98



Note: See Figure A-2 for explanation of symbols

MONITORING WELL NO. MW-33

WELL SCHEMATIC

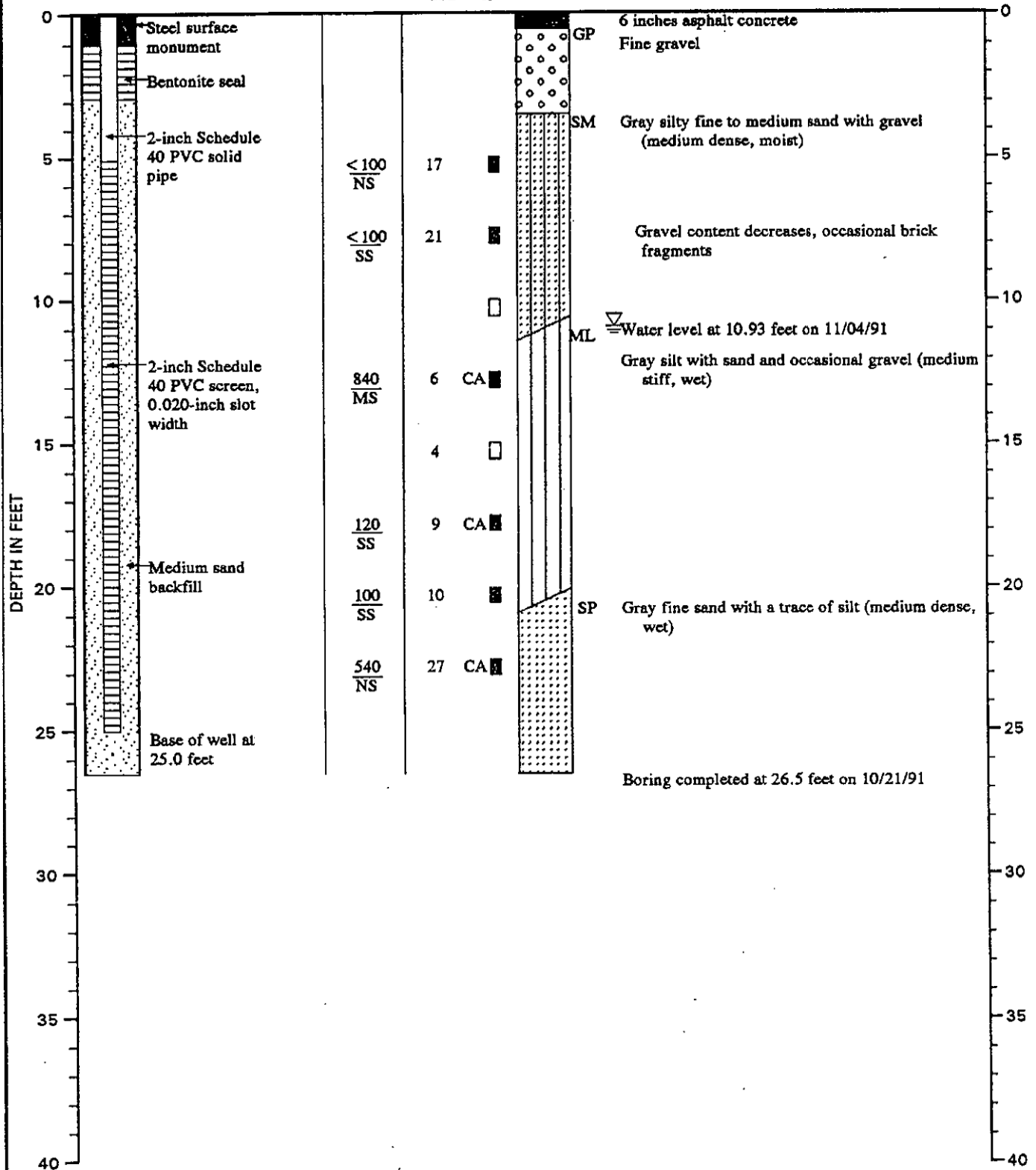
Casing Elevation (ft.): 20.75
 Casing Stickup (ft.): -0.14

Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples
 Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 20.89



Note: See Figure A-2 for explanation of symbols

MONITORING WELL NO. MW-34

WELL SCHEMATIC

Casing Elevation (ft.): 21.42
 Casing Stickup (ft.): -0.28

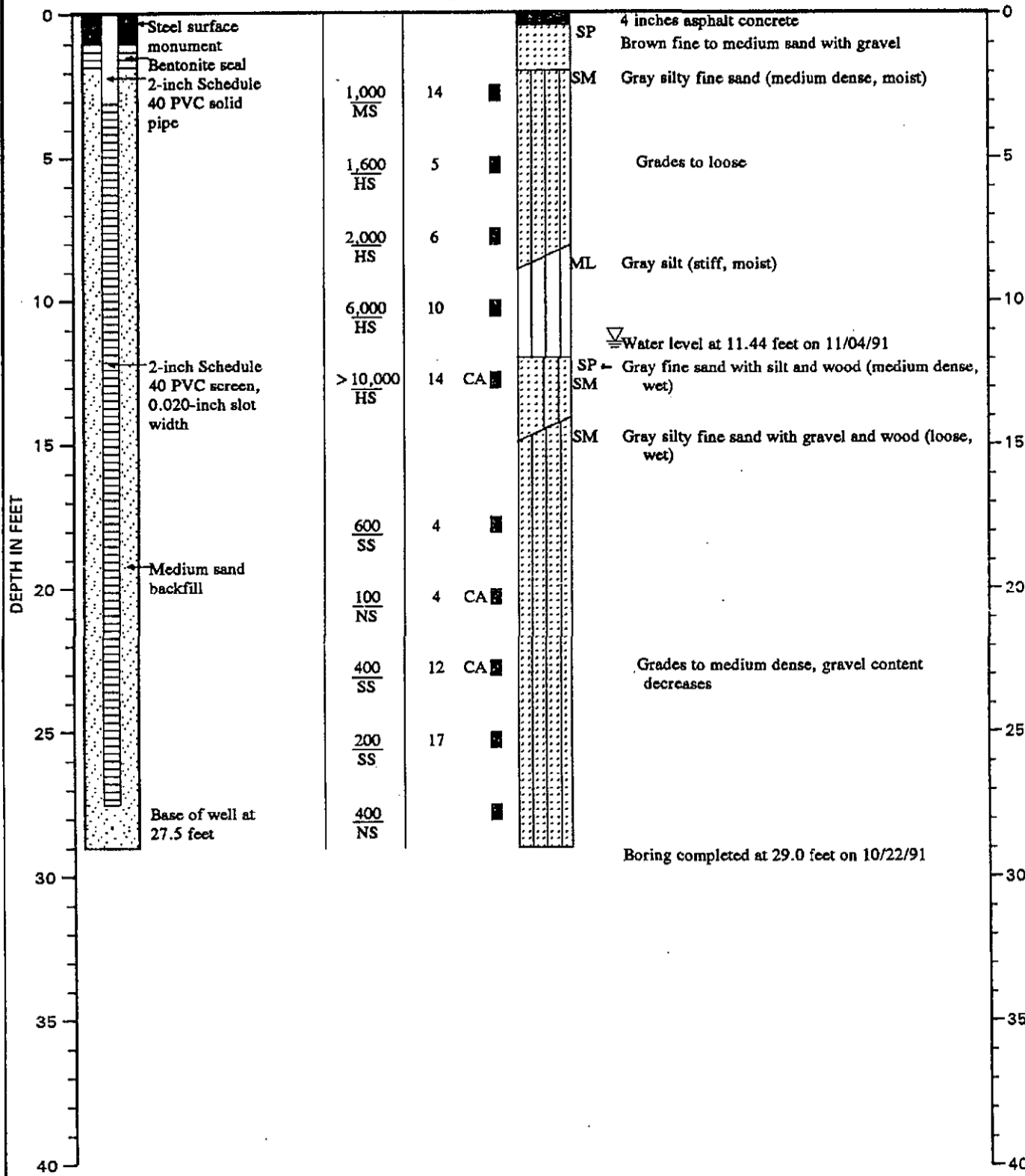
Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 21.70



Note: See Figure A-2 for explanation of symbols

LOG OF MONITORING WELL

FIGURE A-5



:WAP:LJB:DAC:CBK:CMS 6/24/92

0161-013-R09

MONITORING WELL NO. MW-35

WELL SCHEMATIC

Casing Elevation (ft.): 20.10
 Casing Stickup (ft.): -0.17

Vapor
 Conc. (ppm)
 Sheen

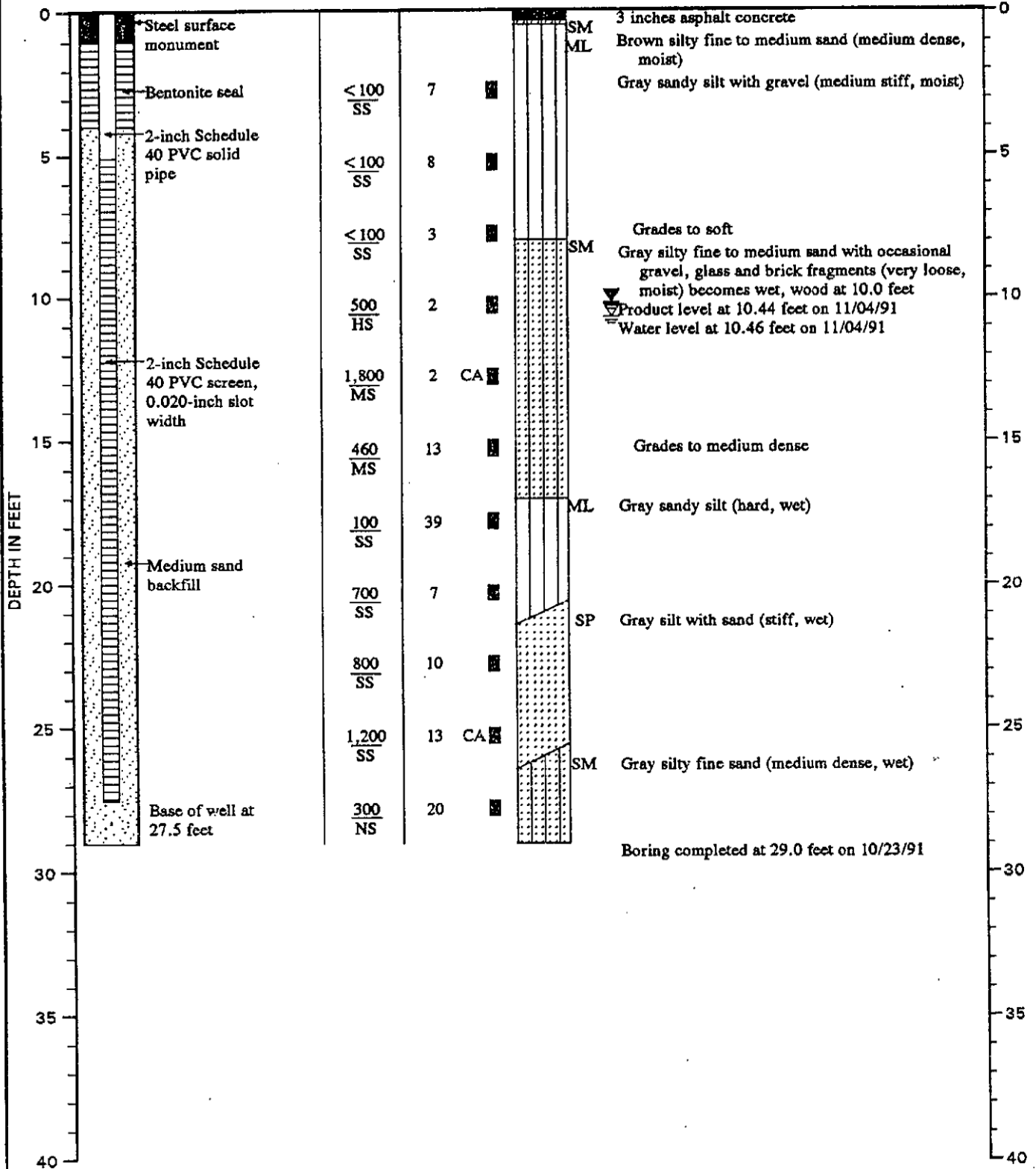
Blow
 Count

Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 20.27



Note: See Figure A-2 for explanation of symbols

0161-013-R69 ;WAF:LJB:DAC:CBK:CMS 6/24/92

MONITORING WELL NO. MW-36

WELL SCHEMATIC

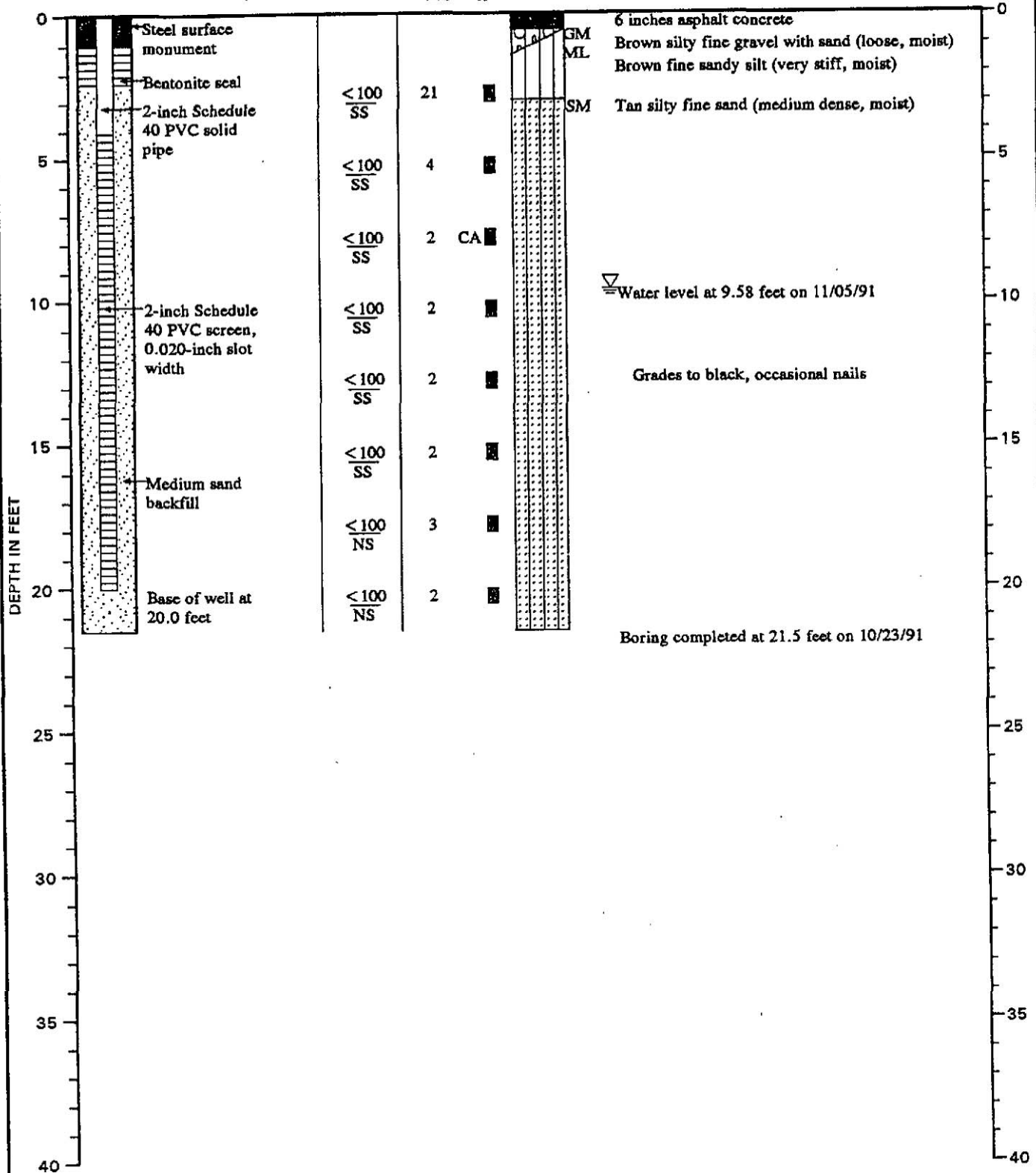
Casing Elevation (ft.): 17.80
 Casing Stickup (ft.): -0.24

Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples
 Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 18.04



Note: See Figure A-2 for explanation of symbols

0161-013-R69 :WAF:LJB:DAC:CBK:CMS 6/24/92

MONITORING WELL NO. MW-37

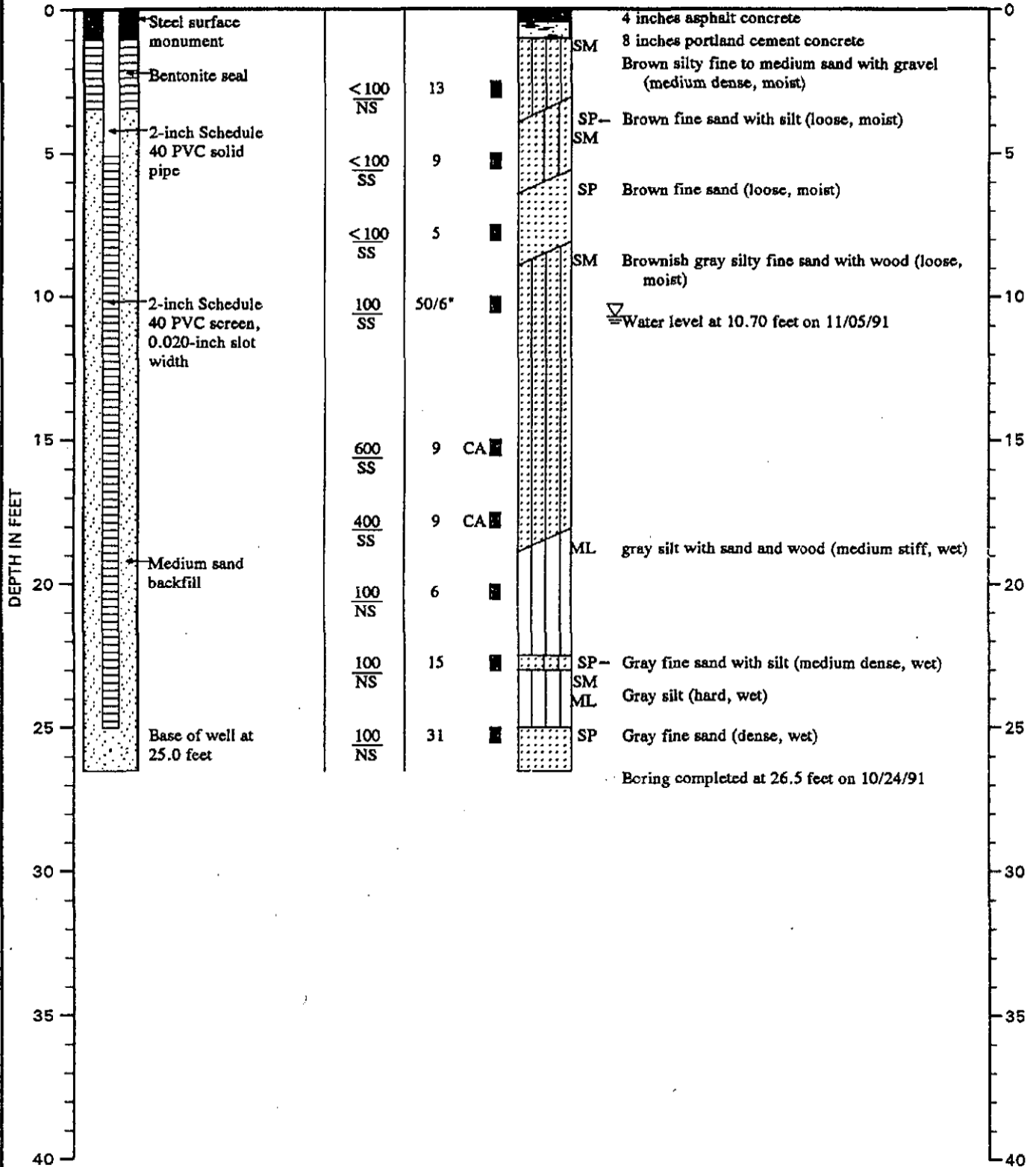
WELL SCHEMATIC

Casing Elevation (ft.): 21.01
 Casing Stickup (ft.): -0.17

Vapor
 Conc. (ppm)
 Sheen

DESCRIPTION

Surface Elevation (ft.): 21.18



Note: See Figure A-2 for explanation of symbols

LOG OF MONITORING WELL



FIGURE A-8

0161-013-R69 :WAP:LJB:DAC:CBK:CMS 6/24/92

MONITORING WELL NO. MW-38

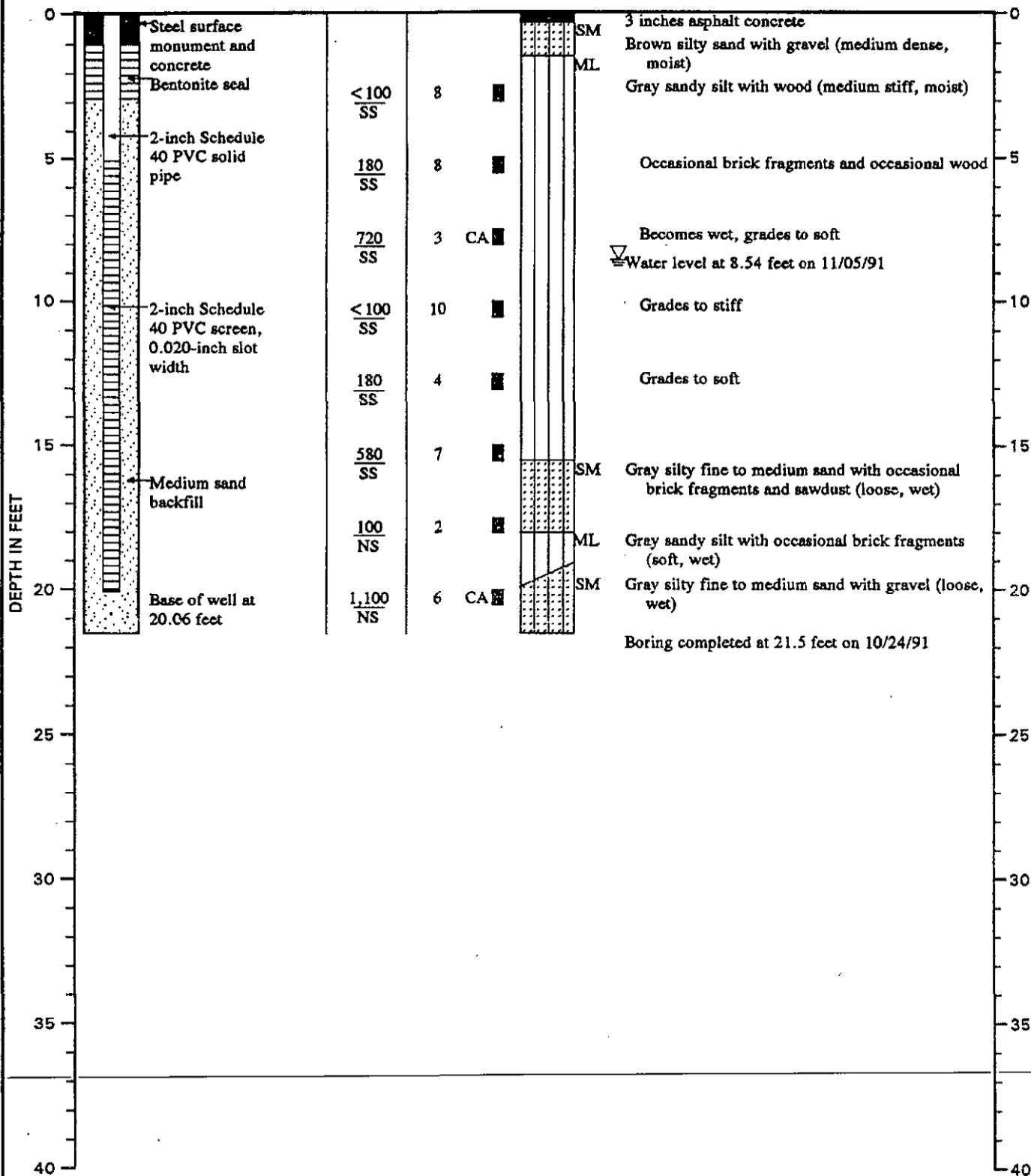
WELL SCHEMATIC

Casing Elevation (ft.): 16.52
 Casing Stickup (ft.): -0.31

Vapor
 Conc. (ppm)
 Sheen

DESCRIPTION

Surface Elevation (ft.): 16.83



Note: See Figure A-2 for explanation of symbols



LOG OF MONITORING WELL

FIGURE A-9

:WAP:LJB:DAC:CBK:CMS 6/24/92

0161-013-R69

MONITORING WELL NO. MW-39

WELL SCHEMATIC

Casing Elevation (ft.): 24.47
 Casing Stickup (ft.): -0.38

Vapor
 Conc. (ppm)
 Sheen

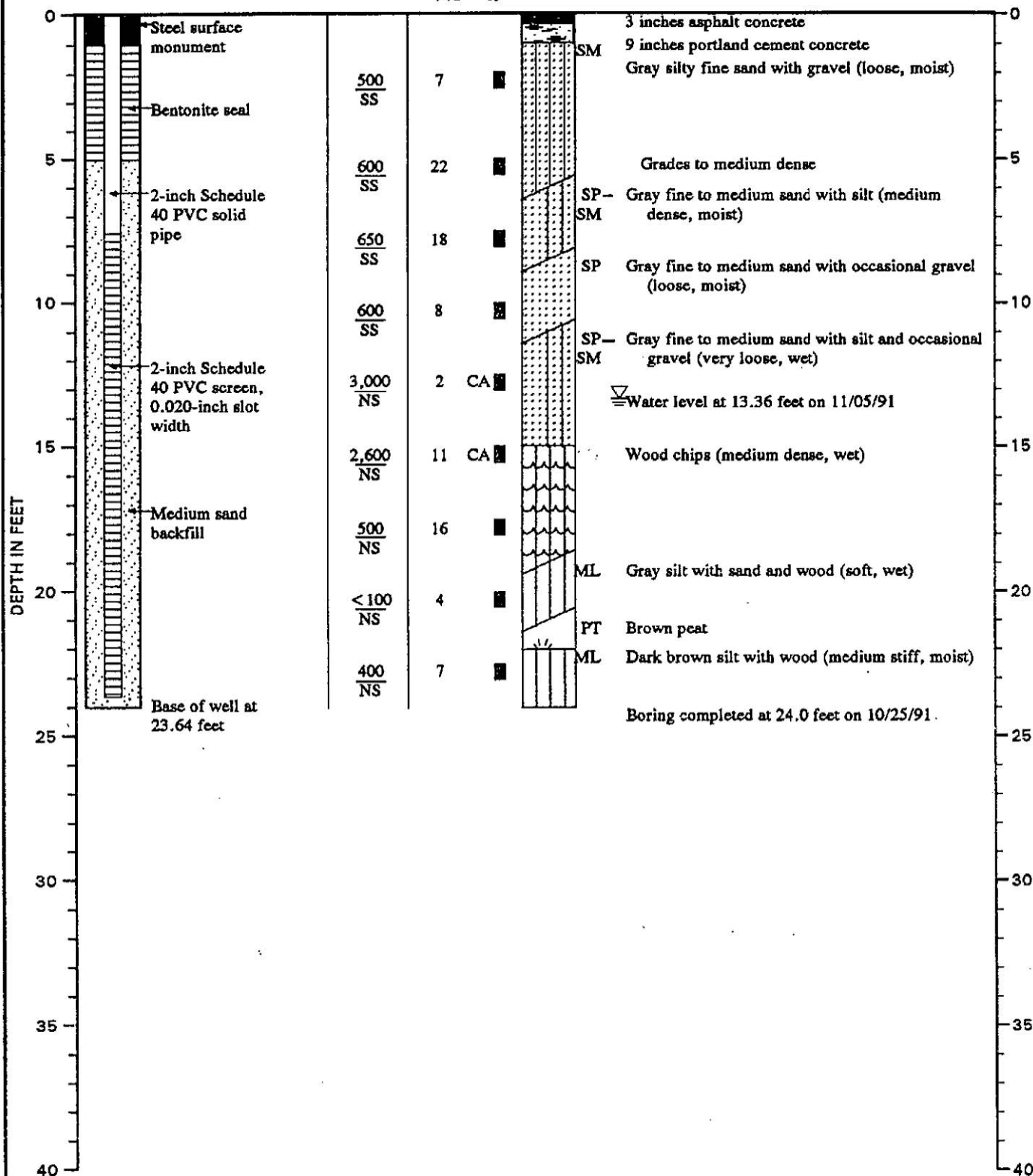
Blow
 Count

Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 24.85



Note: See Figure A-2 for explanation of symbols

LOG OF MONITORING WELL

FIGURE A-10

MONITORING WELL NO. MW-40

WELL SCHEMATIC

Casing Elevation (ft.): 20.89
 Casing Stickup (ft.): -0.23

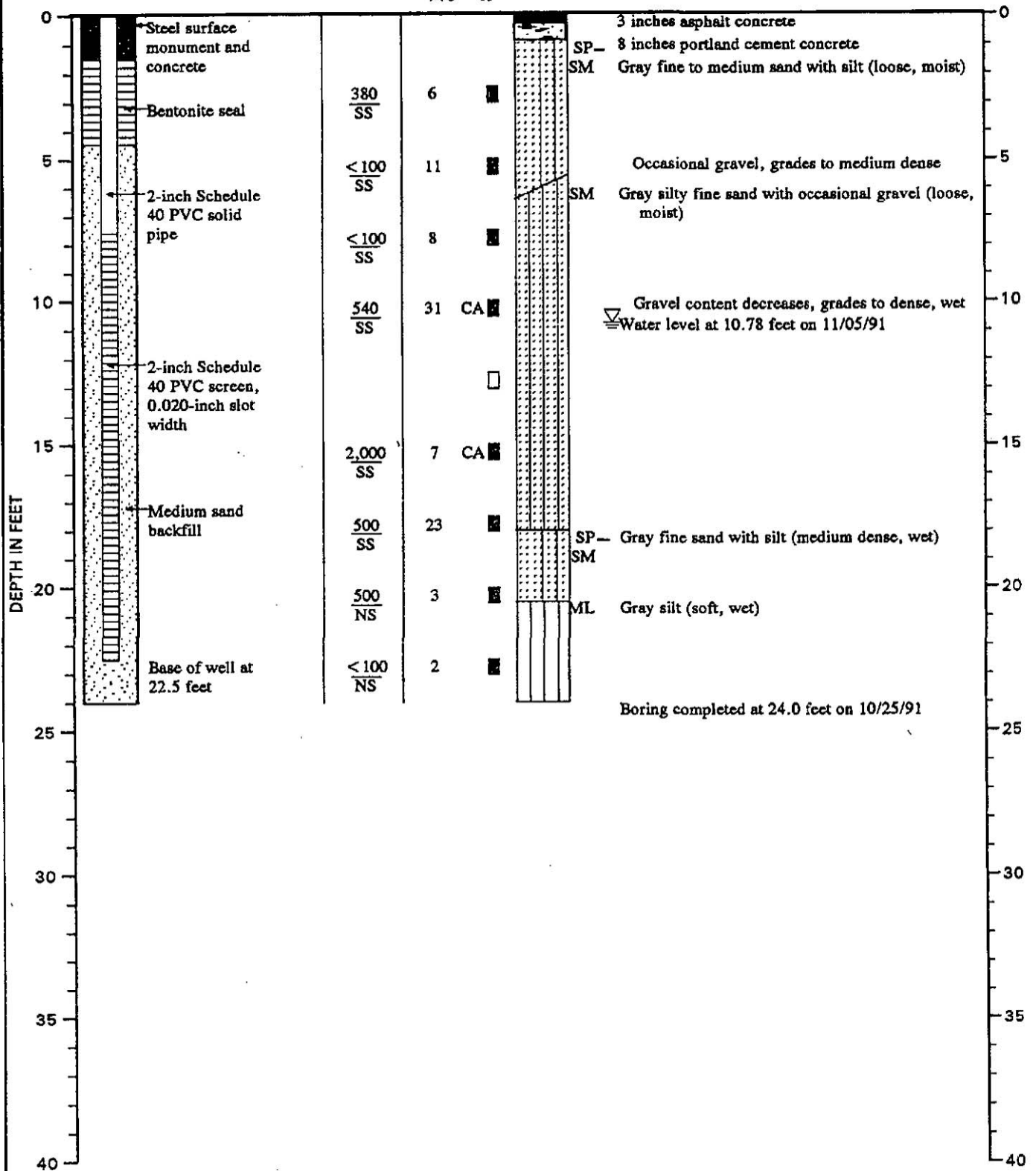
Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 21.12



Note: See Figure A-2 for explanation of symbols

MONITORING WELL NO. MW-41

WELL SCHEMATIC

Casing Elevation (ft.): 27.00
 Casing Stickup (ft.): -0.2

Vapor
 Conc. (ppm)
 Sheen

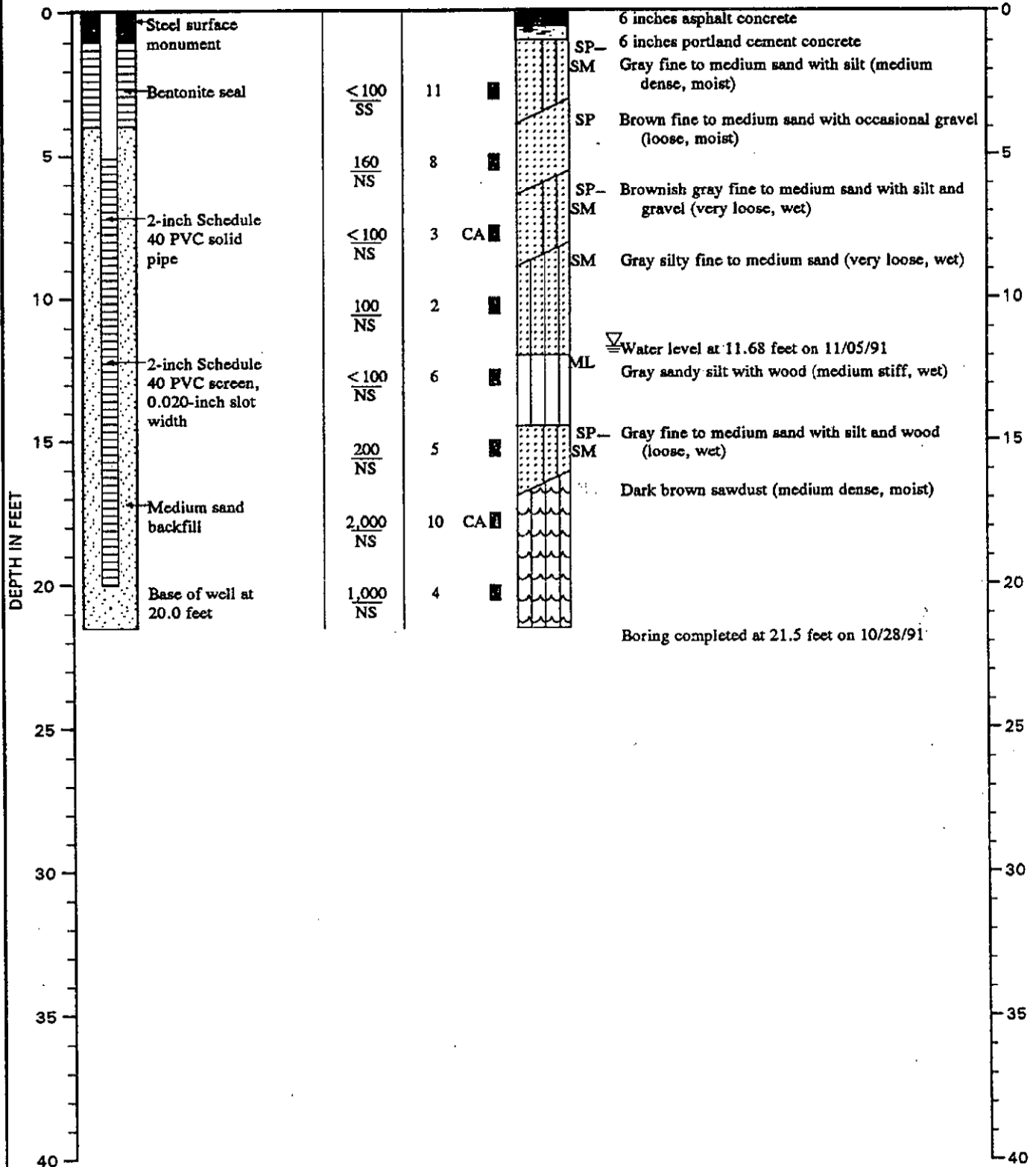
Blow
 Count

Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 27.20



Note: See Figure A-2 for explanation of symbols

MONITORING WELL NO. MW-42

WELL SCHEMATIC

Casing Elevation (ft.): 20.32
 Casing Stickup (ft.): -0.02

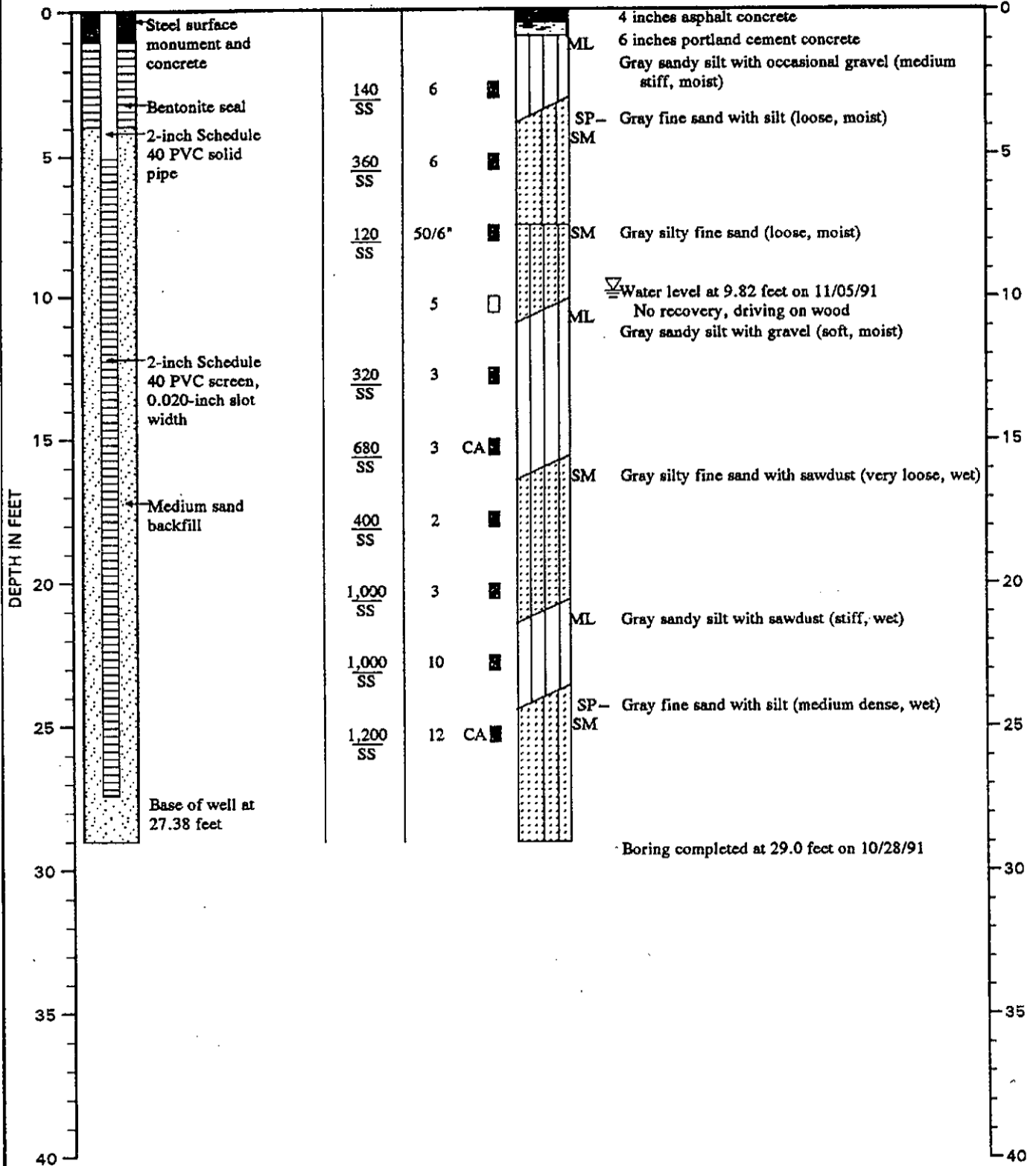
Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 20.34



Note: See Figure A-2 for explanation of symbols

MONITORING WELL NO. MW-43

WELL SCHEMATIC

Casing Elevation (ft.): 21.04
 Casing Stickup (ft.): -0.25

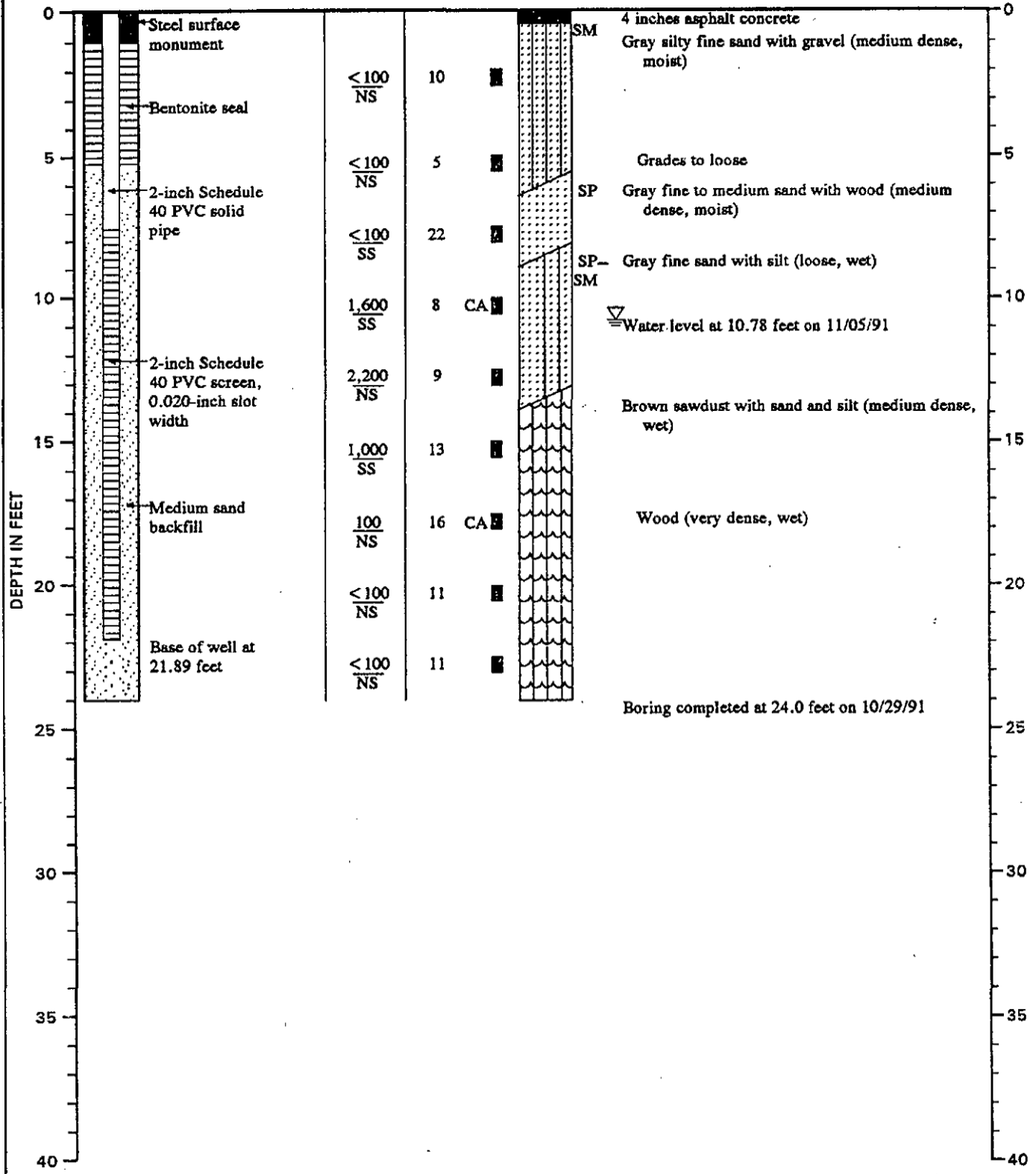
Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 21.29



Note: See Figure A-2 for explanation of symbols

MONITORING WELL NO. MW-44

WELL SCHEMATIC

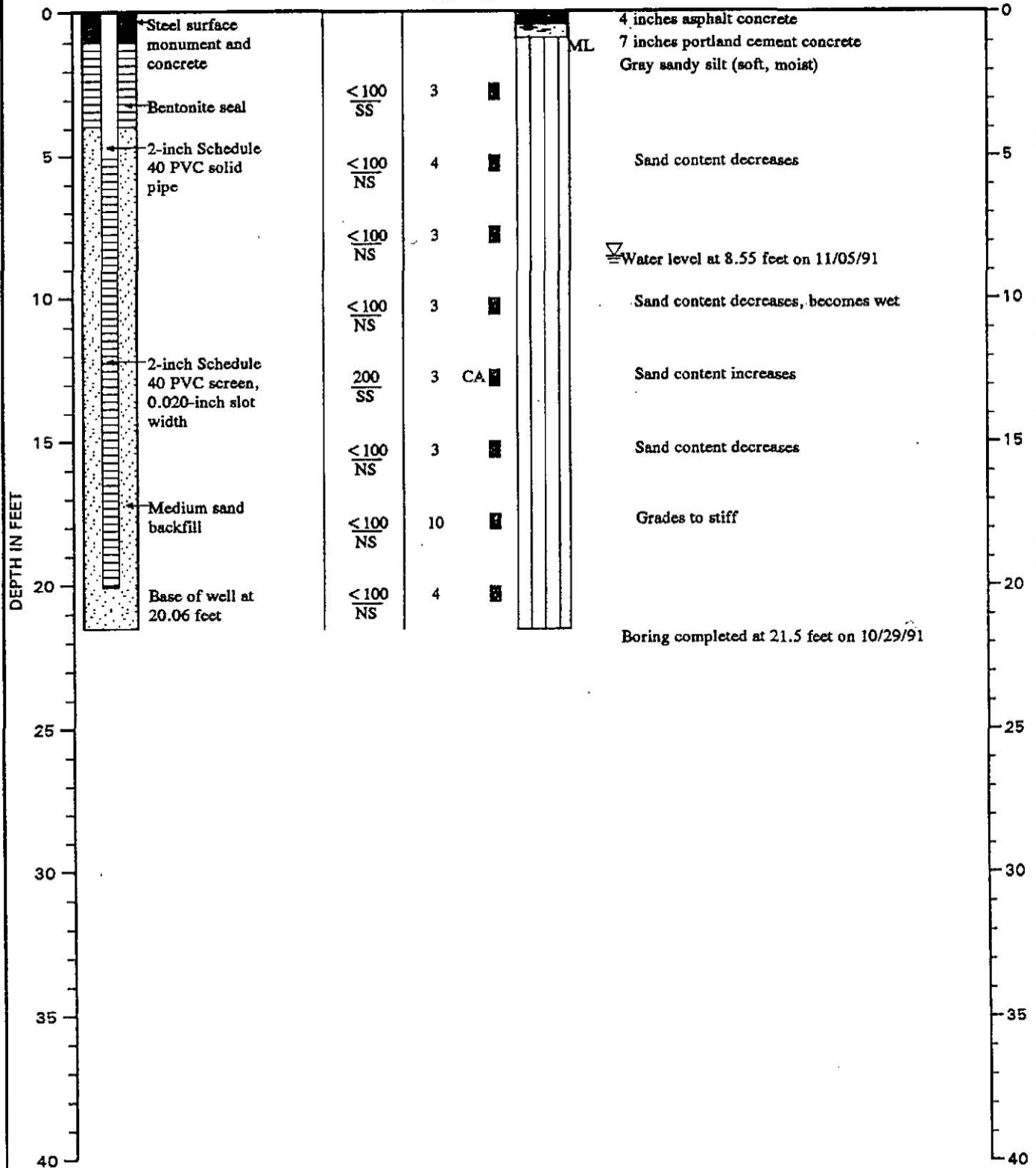
Casing Elevation (ft.): 18.73
 Casing Stickup (ft.): -0.17

Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples
 Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 18.92



Note: See Figure A-2 for explanation of symbols

MONITORING WELL NO. MW-45

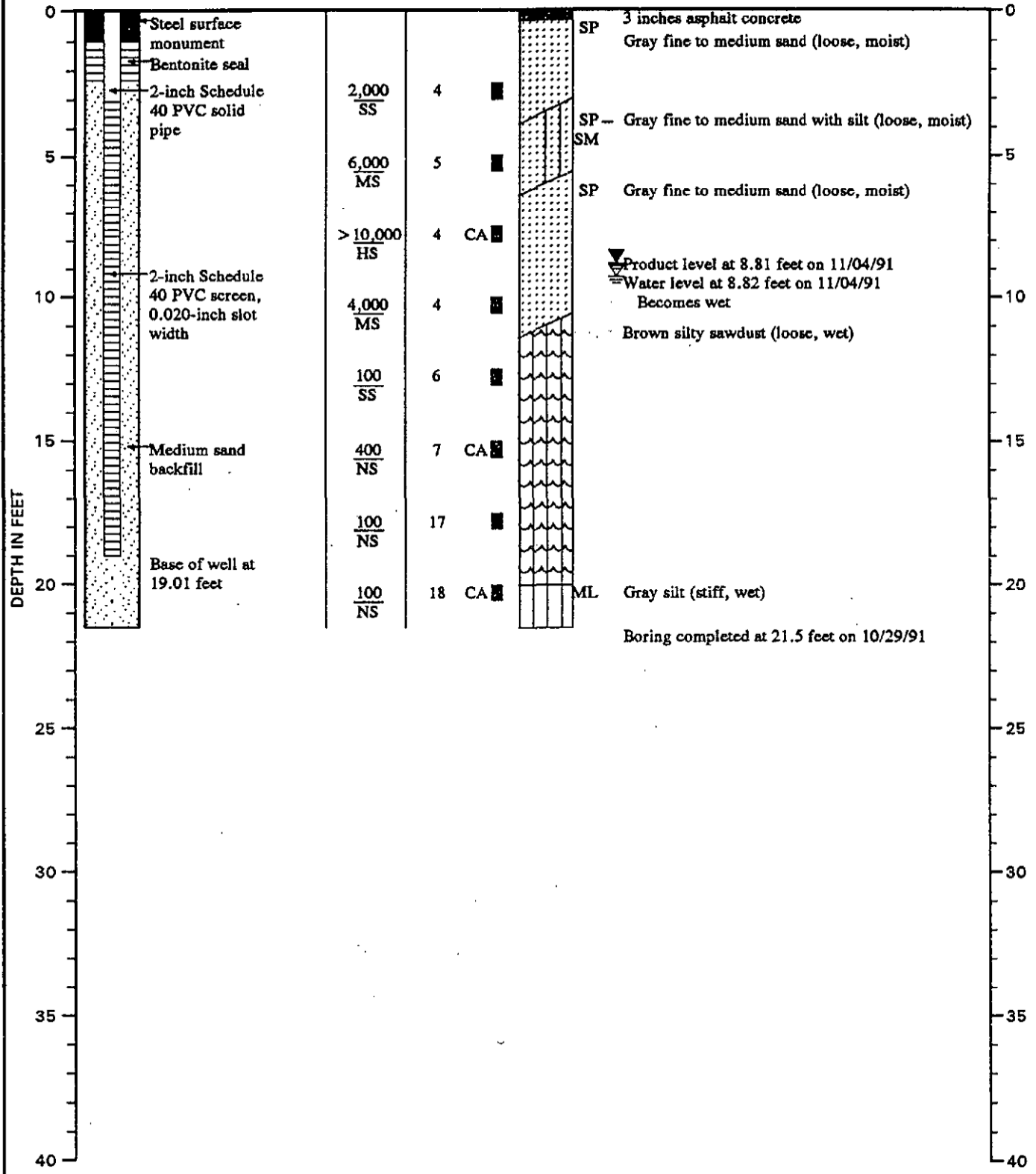
WELL SCHEMATIC

Casing Elevation (ft.): 18.15
 Casing Stickup (ft.): -0.26

Vapor
 Conc.(ppm)
 Sheen

DESCRIPTION

Surface Elevation (ft.): 18.41



Note: See Figure A-2 for explanation of symbols



LOG OF MONITORING WELL

FIGURE A-16

:WAP:LJB:DAC:CBK:CMS 6/24/92

0161-013-R69

MONITORING WELL NO. MW-46

WELL SCHEMATIC

Casing Elevation (ft.): 16.91
 Casing Stickup (ft.): -0.40

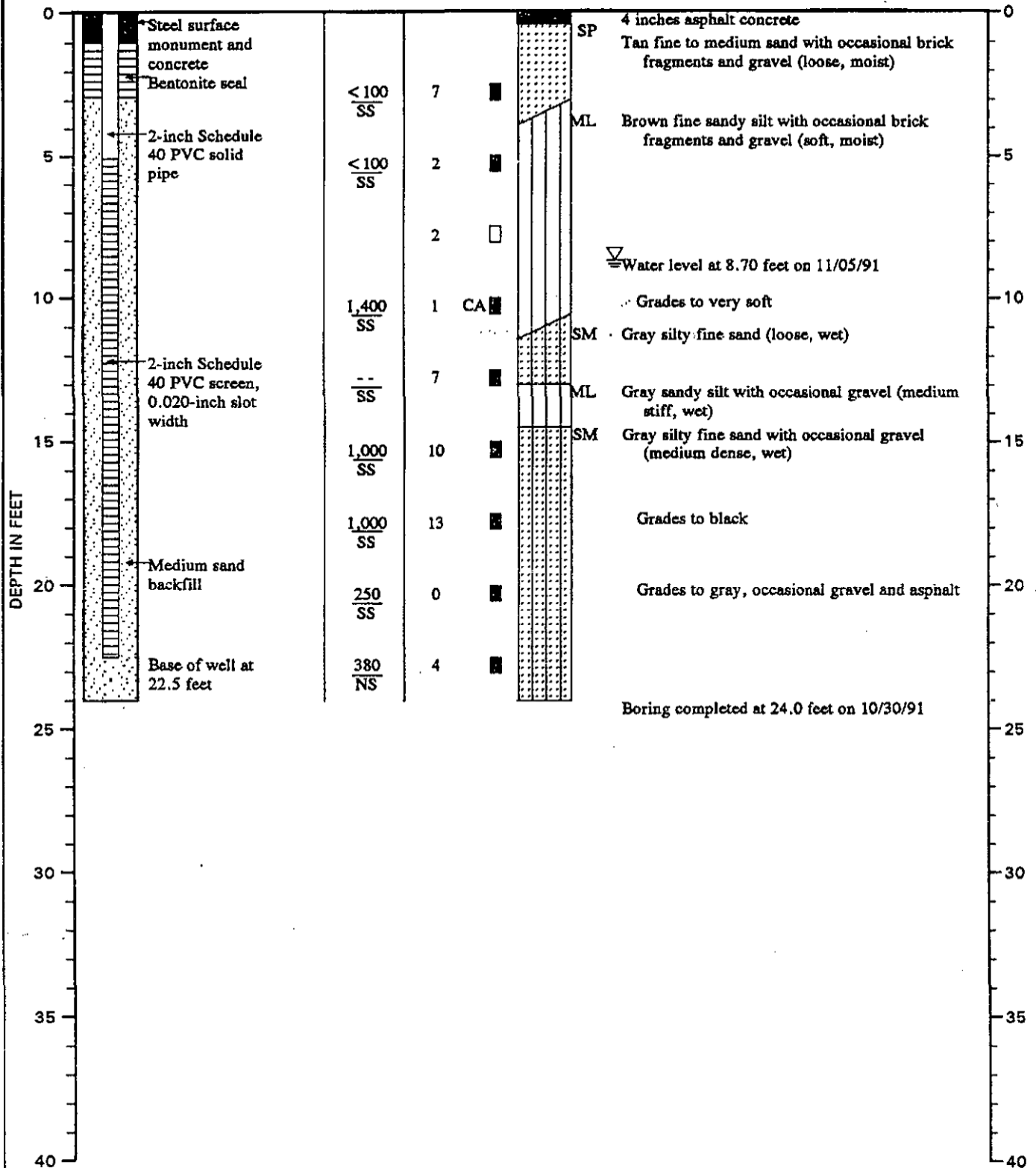
Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 17.31



Note: See Figure A-2 for explanation of symbols

MONITORING WELL NO. MW-47

WELL SCHEMATIC

Casing Elevation (ft.): 19.83
 Casing Stickup (ft.): -0.21

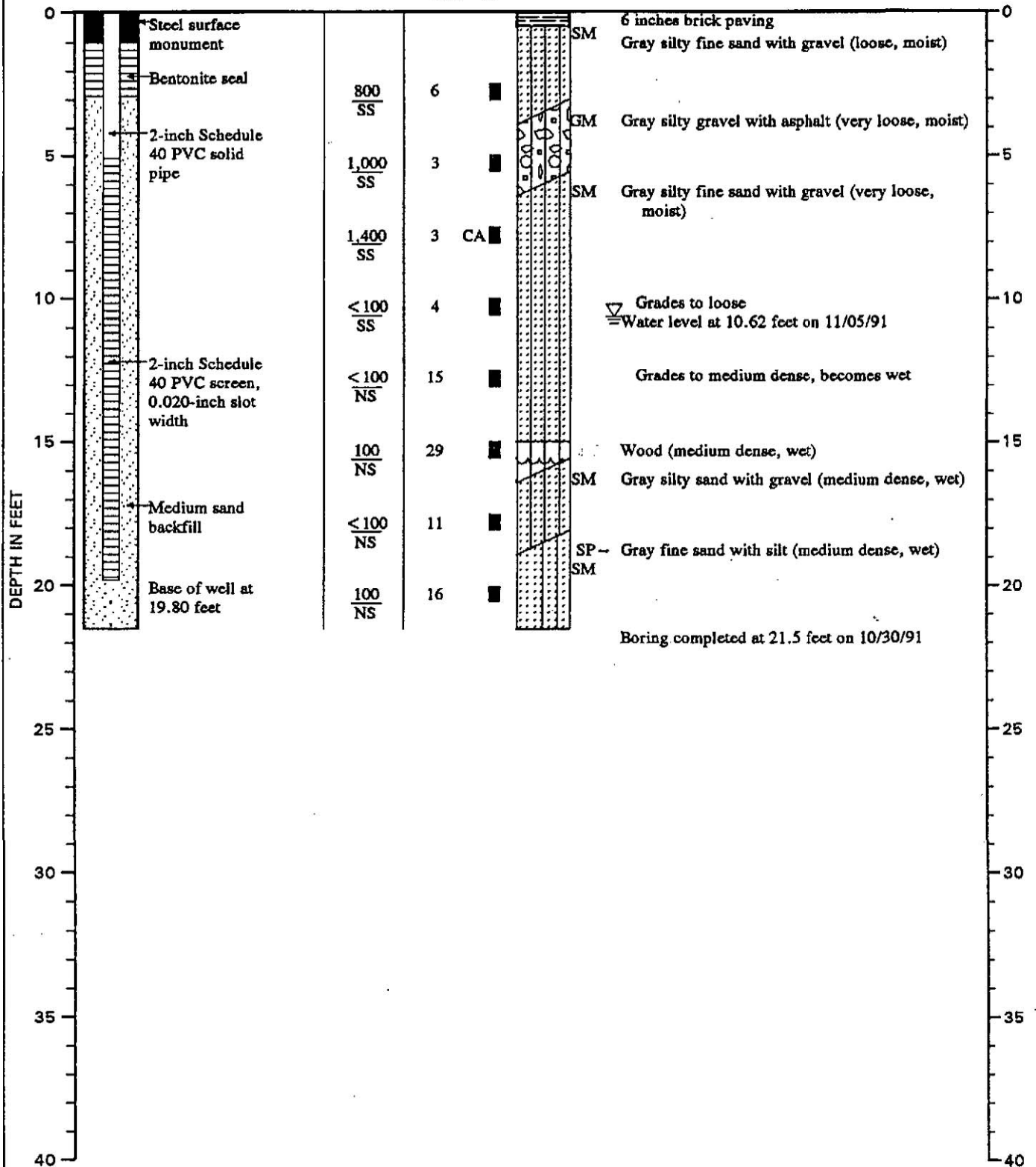
Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 20.04



Note: See Figure A-2 for explanation of symbols

MONITORING WELL NO. MW-48

WELL SCHEMATIC

Casing Elevation (ft.): 18.49
 Casing Stickup (ft.): -0.19

Vapor
 Conc.(ppm)
 Sheen

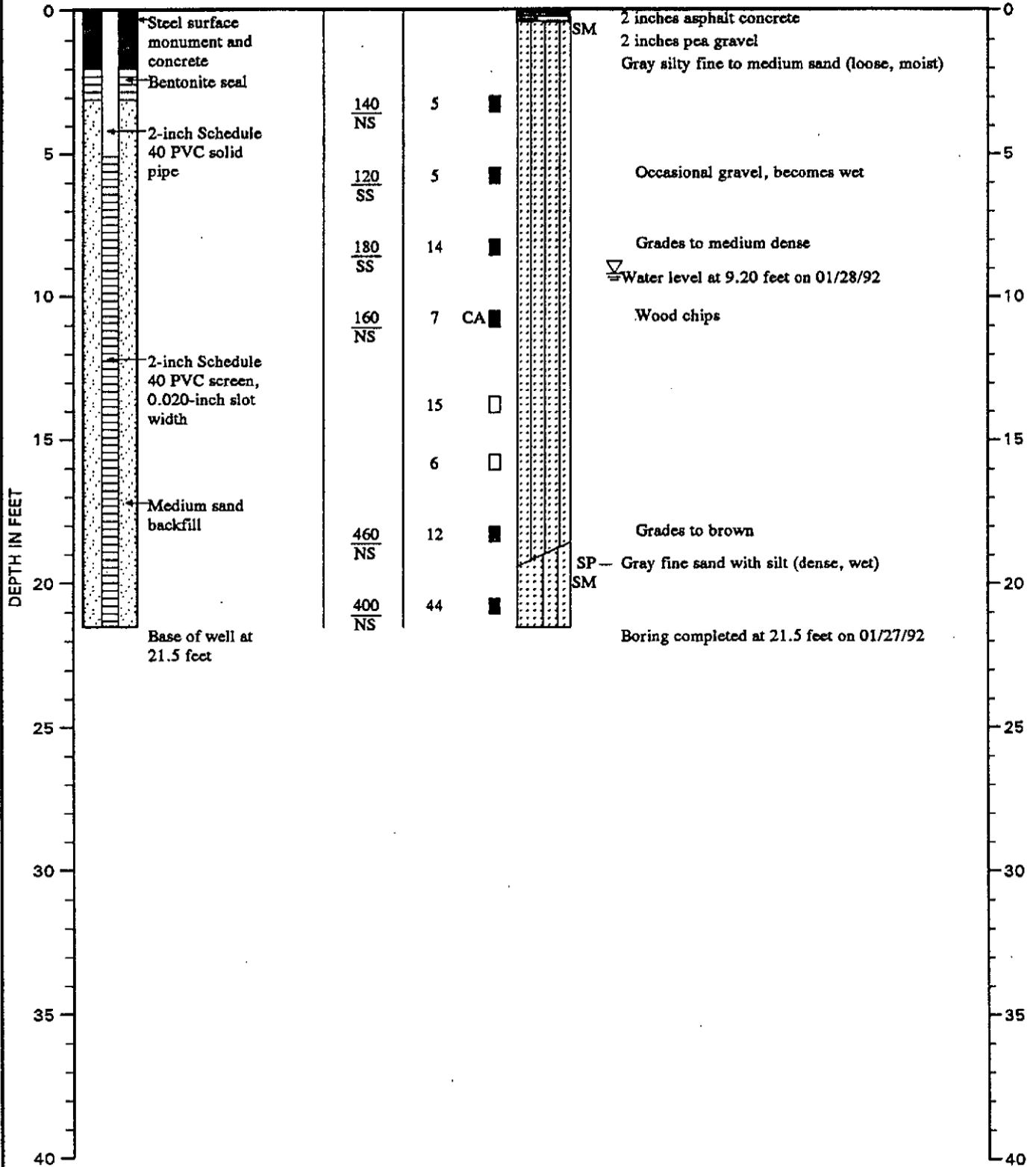
Blow
 Count

Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 18.68



Note: See Figure A-2 for explanation of symbols

MONITORING WELL NO. MW-49

WELL SCHEMATIC

Casing Elevation (ft.): 12.61
 Casing Stickup (ft.): -0.82

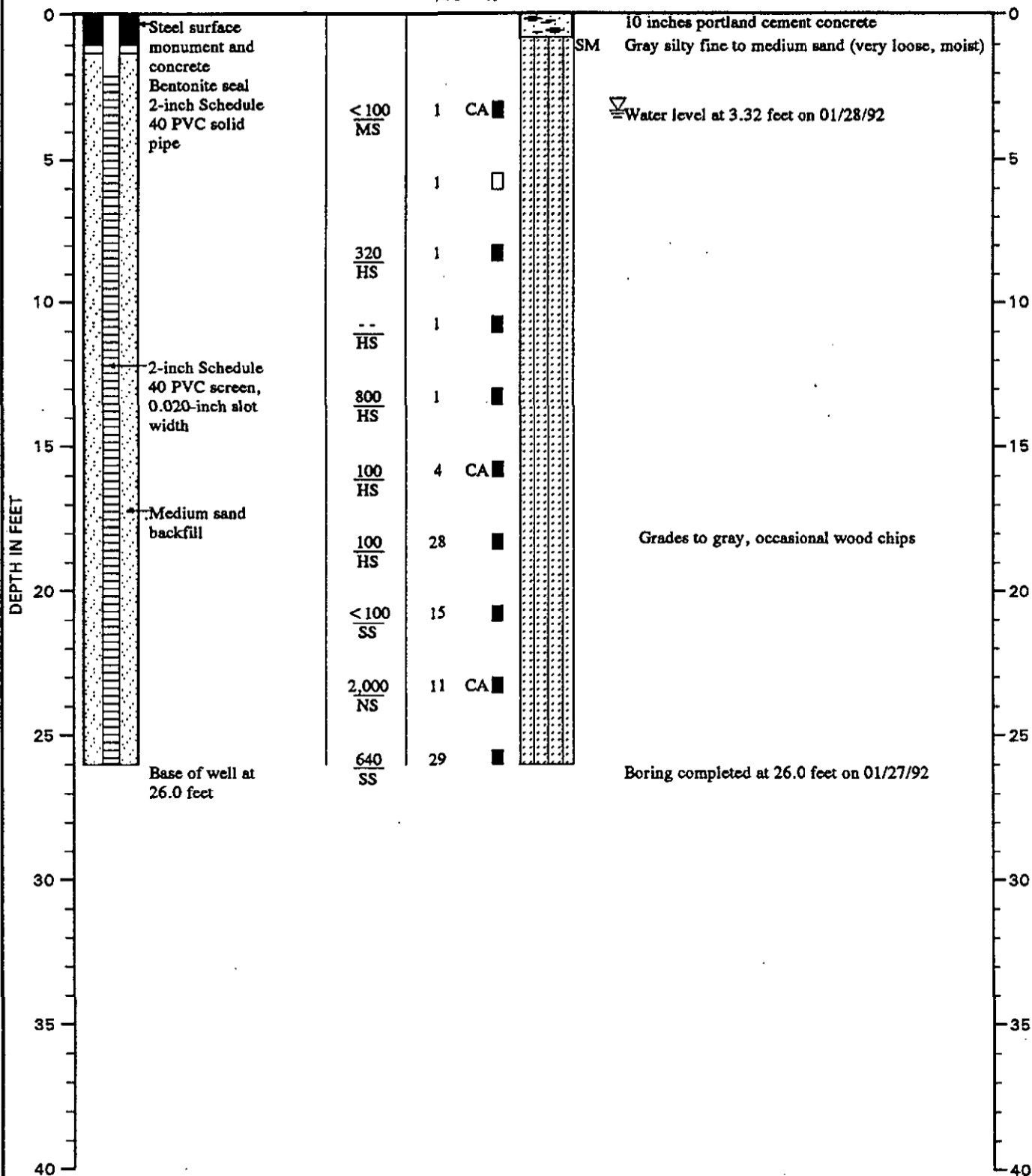
Vapor
 Conc. (ppm)
 Sheen

Blow
 Count
 Samples

Group
 Symbol

DESCRIPTION

Surface Elevation (ft.): 13.43



Note: See Figure A-2 for explanation of symbols



LOG OF MONITORING WELL

FIGURE A-20

:WAP:LJB:DAC:CBK:CMS 6/24/92

0161-013-R69

SEACOR

BORING LOG

BORING: MW-3
PAGE 1 OF 3

PROJECT CIRCLE K LOCATION 12660 1ST AVE. S. SEATTLE, WA
 SURFACE ELEVATION - CASING TOP ELEVATION -
 START 4/19/94 7:59 FINISH 4/19/94 11:35
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC. 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 15' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			0	Ashluc Concrete		
10/32/35		10.2	5	Mottled Light Brownish Gray (10YR 5/2) Medium to Fine SAND With Some Silt Trace Medium to Fine Rounded Gravel Trace Clay, Medium Dense to Dense Moist (5,60 30 5) Till	SM	
15/27/37		14.3	10			
50-5"		10.5	15			
32/50		13.5	20	Slight increase in Gravel		
100-3"		13.9	25			
34/80		12.4	30			
			35			

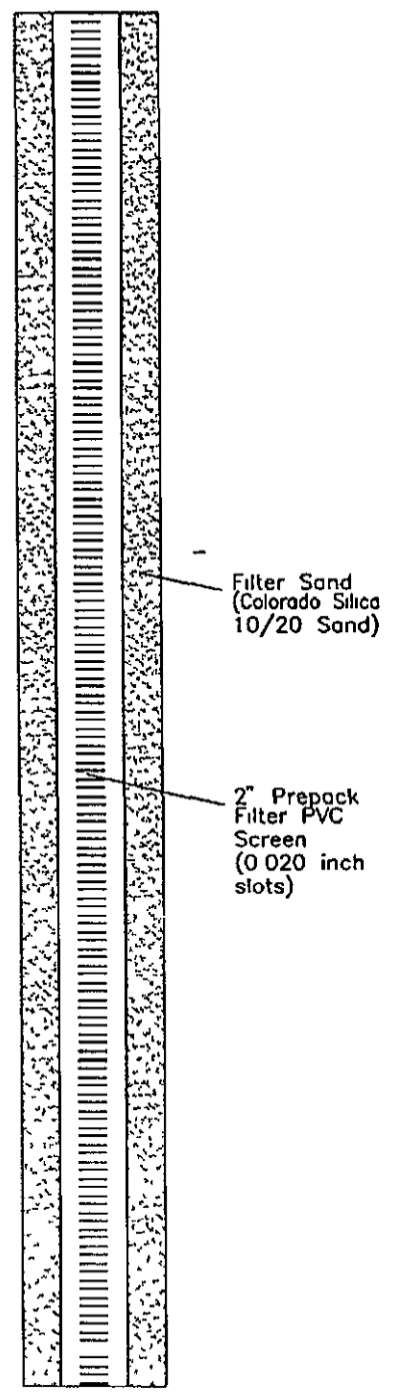
SEACOR

BORING LOG

BORING: MW-3
PAGE 2 OF 3

PROJECT CIRCLE K #1436 LOCATION 12660 1ST AVE. S. SEATTLE, WA
 SURFACE ELEVATION - CASING TOP ELEVATION -
 START 4/19/94 7:59 FINISH 4/19/94 11:35
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC. 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 1.5' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			30			
60		12 9	35			
35/50		11 1	40			
75		NS	45	No Sample--Rock in Shoe		
100		NS	50	No Sample--"Pushing a Rock" Drill Past		
100-2"		10 9	55	Rock in Shoe--Small Sample		
50/50		11 4	60	Slight increase in Silt		
			65			



SEACOR

BORING LOG

BORING: MW-3
PAGE 3 OF 3

PROJECT CIRCLE K #1476 LOCATION 12660 1ST AVE. S. SEATTLE, WA
 SURFACE ELEVATION - CASING TOP ELEVATION -
 START 4/19/94 7:59 FINISH 4/19/94 11:35
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 1 5' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
35/50	12.0	12.0	65	Grayish Brown (10YR 5/2) Coarse to Fine Sand with Some Silt. A Little Coarse to Fine Sub-rounded Gravel. Trace Silt Dense, Wet (10YR 5/2)		<p>Filter Sand (Colorado Silica 10/20 Sand)</p> <p>2" Prepack Filter PVC Screen (0.020 inch slots)</p> <p>Bottom Cap</p>
50/50	10.4	70	Grayish Brown (10YR 5/2) Coarse to Fine Sand A Little Silt Trace Gravel Dense, Moist (5-70 250) Light Gray (10YR 7/2) Grayish Brown (10YR 5/2) Silt. Thinly Laminated Trace Sand Dry (0 10 90 0)			
100	9.9	75	Grayish Brown (10YR 5/2) Coarse to Fine Sand A Little Silt Trace Gravel Dense, Moist (5-70 25 0)			
			Boring terminated at 75 feet Sampler advanced to 76 feet Groundwater encountered at approximately 65 feet during drilling Boring converted to a groundwater monitoring well on 4/19/94			
			80			
			85			
			90			
			95			

SEACOR

BORING LOG

BORING: MW-4

PAGE 1 OF 3

PROJECT CIRCLE K
 LOCATION 12660 1ST AVE. S. SEATTLE, WA
 SURFACE ELEVATION _____ CASING TOP ELEVATION _____
 START 4/19/94 1.54 FINISH 4/19/94
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC. 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 1.5' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			0	Asphaltic Concrete		
27/50		20 6	5	Grayish Brown (10YR 5/2) Medium to Fine Sand Some Silt Dense, Moist (0.75,25.0)		
50		18 4	10	Light Grayish Brown (10YR 6/2) Medium to Fine Sand Some Silt. Rare Fine Rounded Gravel Dense, Moist (5.70,25.0) Till	SM	
16/50		19 8	15	Light Grayish Brown (10YR 6/2) Medium to Fine Sand Some Silt. A Little Fine Gravel Trace Clay Dense, Moist, (12.50,35.3)		
50-2"		12 0	20	Slight Decrease in Gravel		
27/50		9 0	25			
35/50		17 7	30			
			35			

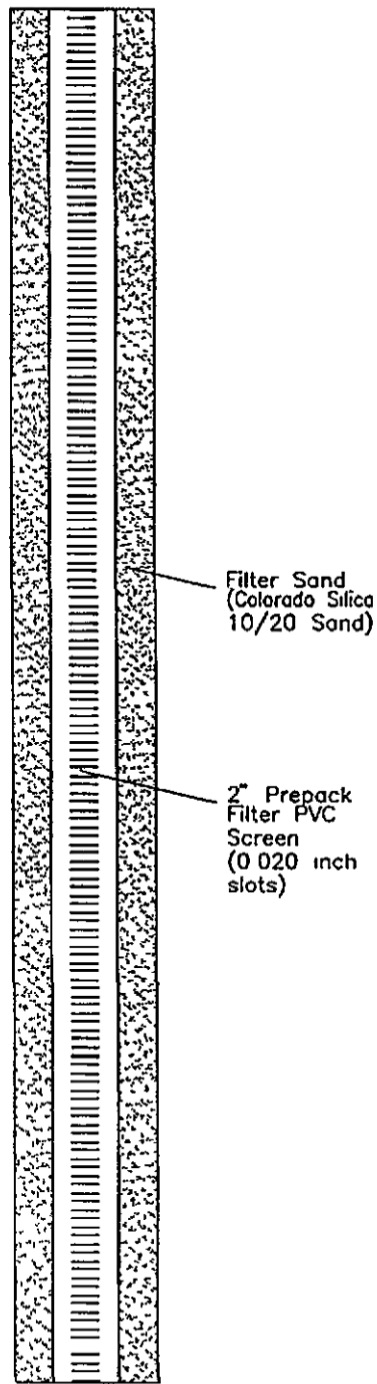
SEACOR

BORING LOG

BORING: MW-4
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PROJECT CIRCLE K LOCATION 12660 1ST AVE. S. SEATTLE, WA
 SURFACE ELEVATION - CASING TOP ELEVATION -
 START 4/19/94 1:54 FINISH 4/19/94
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC. 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 1.5' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			30			
50		9.3	35			
50		9.3	40			
50		10.6	45			
100		12.2	50			
70		9.4	55	Grayish Brown (10YR 5/2) Coarse to Fine Rounded Sand Some Silt. Trace Coarse to Fine Rounded Gravel Trace Clay Dense, Moist. (10 57,30.3)		
60		9.8	60			
			65			

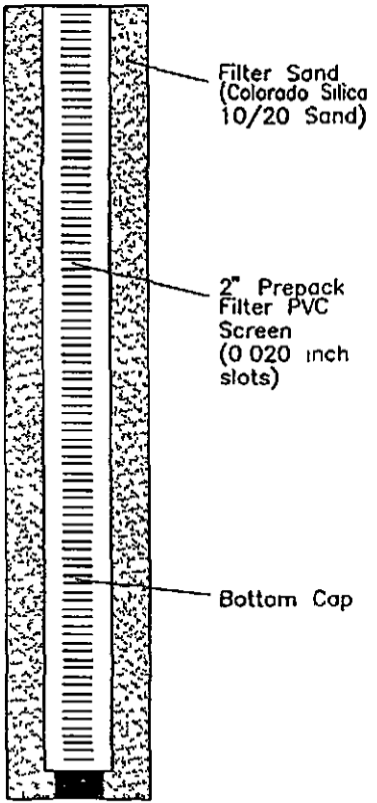


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BORING LOG

BORING: MW-4
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PROJECT CIRCLE K #1476 LOCATION 12660 1ST AVE S. SEATTLE, WA
 SURFACE ELEVATION - CASING TOP ELEVATION -
 START 4/19/94 7:59 FINISH 4/19/94 11:35
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC. 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 1.5' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			60			 <p>Filter Sand (Colorado Silica 10/20 Sand)</p> <p>2" Prepack Filter PVC Screen (0.020 inch slots)</p> <p>Bottom Cap</p>
55		10.9	65			
50		9.8	70	Grayish Brown (10YR 5/2) Coarse to Fine Rounded Sand Some Silt. Trace Coarse to Fine Rounded Gravel Trace Clay Dense Moist (10,57,30,3)		
50		10.7	75	Grayish Brown (10YR 5/2) Coarse to Fine Sand With Some Silt. Trace Clay Dense, Moist (0,80,18.2)		
35/50		12.4	80	Boring terminated at 80 feet Sampler advanced to 81 feet Boring converted to a groundwater monitoring well on 4/19/94		
			85			
			90			
			95			

SEACOR

BORING LOG

BORING MW-5
PAGE 1 OF 3

PROJECT CIRCLE K #1476 LOCATION 12660 1ST AVE. S. SEATTLE, WA
 SURFACE ELEVATION - CASING TOP ELEVATION -
 START 4/20/94 12 30 FINISH 4/20/94
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 1.5' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
						BLOWS 6" / 6" / 6"
			0	Ashotic Concrete		Monument Wellhead Concrete
27/50	5 - 5.5	81	5	Grayish Brown (10YR 5/2), Coarse to Fine Sand with some SILT. Trace Coarse to Fine Rounded Gravel, Trace SILT. Very Dense. Moist (10,45,40 5) TR.	SM	Bentonite Seal
50	10 - 10.5	10.1	10			
48/50	15 - 15.5	130	15			
60	20 - 20.5	98	20	Slight increase in Gravel		Filter Sand (Colorado Silica 10/20 Sand)
50	25 - 25.5	127	25			2" Prepack Filter PVC Screen (0.010 inch slots)
50	30 - 30.5	105	30			
			35			

SEACOR

BORING LOG

BORING MW-5
PAGE 2 OF 3

PROJECT CIRCLE K #1476 LOCATION 12660 1ST AVE S. SEATTLE, WA
 SURFACE ELEVATION - CASING TOP ELEVATION -
 START 4/20/94 12:30 FINISH 4/20/94
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC. 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 1.5' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			30			
73		>2500	35	Slight increase in Fines. Hydrocarbon-like odor		
100/100		976 284 >2500	40	Sheen Test Negative		
100		>2500	45			
100		>2500	50	Increase in Sand		
100		>2500	55	Gray (10YR 6/1) Medium to Fine Sand with some Silt. Trace Medium to Fine Rounded Gravel. Very Dense, Moist (10 60 30 0) Hydrocarbon-like odor		
80		1236	60			
			65			

Filter Sand (Colorado Silica 10/20 Sand)

2" Prepack Filter PVC Screen (0.010 inch slots)

SEACOR

BORING LOG

BORING: MW-5

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PROJECT CIRCLE K #1476 LOCATION 12660 1ST AVE. S. SEATTLE, WA
 SURFACE ELEVATION _____ CASING TOP ELEVATION _____
 START 4/20/94 FINISH 4/20/94
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC. 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 1.5' LONG SPLIT SPOON

PENETRATION RESULTS BLOWS 6"/6"/6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			60			<p>Filter Sand (Colorado Silica 10/20 Sand)</p> <p>2" Prepack Filter PVC Screen (0.010 inch slots)</p> <p>Bottom Cap</p>
75		1216	65	Coarse to Fine Sand (10 70,20.0)		
100		>2500	70	Slight Increase in Silt. (10 55,35.0)		
100		>2500	75	Very Dark Gray (10YR 3/1) Medium to Fine Sand. Trace Silt. Very Dense, Very Moist. (0 90,10.0)		
66		>2500	80			
75		28.5	85			
75		>36	90			
			95	Boring terminated at 90 feet Sampler advanced to 90.75 feet Groundwater encountered at approximately 80 feet during drilling Boring converted to a groundwater monitoring well on 4/20/94		

SEACOR

BORING LOG

BORING MW-6
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PROJECT CIRCLE K #1476 LOCATION 12660 1ST AVE S. SEATTLE, WA
 SURFACE ELEVATION - CASING TOP ELEVATION -
 START 4/20/94 7:21 FINISH 4/20/94
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC. 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 15' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			0	Asphaltic Concrete		Monument Wellhead Concrete
24/50		6.8	5	Gray (10YR 5/1) Coarse to Fine Sand with Some Silt, a Little Rounded Gravel Very Dense, Moist, (12.50, 28.0) Till	SM	Bentonite Seal
16/50		8.1	10	Grayish Brown (10YR 5/2)		
60		4.1	15			Filter Sand (Colorado Silica 8/12 Sand)
77		4.3	20			
50		11.5	25			2" Prepack Filter PVC Screen (0.020 inch slots)
62		7.1	30	Gray (10YR 5/1), Medium to Fine Sand With Some Silt Trace Coarse to Fine Rounded Gravel Trace Clay Very Dense Moist (10.65 20.5)		
			35			

SEACOR

BORING LOG

BORING: MW-6

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PROJECT CIRCLE K #1476

LOCATION 12660 1ST AVE. S. SEATTLE, WA

SURFACE ELEVATION -

CASING TOP ELEVATION -

START 4/20/94 7:21

FINISH 4/20/94

SAMPLER DJD

MONITORING DEVICE MICROTIP PID

SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC. 10-1/4" HSA

COMMENTS SAMPLE EVERY 5' WITH 3" X 1.5' LONG SPLIT SPOON

PENETRATION RESULTS BLOWS 6"/6"/6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
52		184	35	Same as Above		<p>Filter Sand (Colorado Silica 8/12 Sand)</p> <p>2" Prepack Filter PVC Screen (0.020 inch slots)</p> <p>Bottom Cap</p>
60		>2500	40	Same as Above, Hydrocarbon-like Odor, Sheen Test Negative		
60		1215	45	Same as Above, Hydrocarbon-like Odor		
58		730	50	Same as Above, Very Small Headspace Sample for PID Reading		
58		512	55	Same as Above		
50		1234	60	SAND and SILT, Gray (10YR 6/1), Medium to Fine, Trace Medium to Fine Rounded Gravel, Trace Clay, Very Dense, Wet, (10 53 45 2)		
61		319	65	Same as Above		
				Same as Above		
				Boring terminated at 70 feet Sampler advanced to 70.5 feet Groundwater encountered at approximately 65 feet during drilling		
52		184	70	Boring converted to a groundwater monitoring well on 4/21/94		

SEACOR

BORING LOG

BORING AI-1
PAGE 1 OF 3

PROJECT CIRCLE K #1476 LOCATION 12660 1ST AVE S. SEATTLE, WA
 SURFACE ELEVATION - CASING TOP ELEVATION -
 START 4/21/94 7:07 FINISH 4/20/94
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC. 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 1 5' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			0	Ashlatic Concrete		
17/20/32		244	5	Gray (10YR 5/1) Medium to Fine Sand and Silt, Trace Fine Rounded Gravel Dense, Moist, (10.50 40 0) TM.	SM	
35/50		516	10			
65-2"		488	15	Rock In Shoe		
75		>2500	20	Mottled, Very Dense, Some as Above, Hydrocarbon-like Odor		
75		648	25			
90		2120	30			
			35			

SEACOR

BORING LOG

BORING: AI-1
PAGE 2 OF 3

PROJECT CIRCLE K #1476

LOCATION 12660 1ST AVE. S SEATTLE, WA

SURFACE ELEVATION -

CASING TOP ELEVATION -

START 4/21/94 7:07

FINISH 4/21/94

SAMPLER DJD

MONITORING DEVICE MICROTIP PID

SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC 10-1/4" HSA

COMMENTS SAMPLE EVERY 5' WITH 3" X 1 5' LONG SPLIT SPOON

PENETRATION RESULTS BLOWS 6" / 6" / 6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
100-2"		>2500	35			<p>Bentonite Seal</p> <p>Filter Sand (Colorado Silica 8/12 Sand)</p> <p>2" Prepack Filter PVC</p> <p>Screen (0.020 inch slots)</p>
100		>2500	40	Hydrocarbon-like Odor		
100		76.6	45	No Odor Detected		
50		24.5	50			
100		10.4	55	Very Dark Gray, (10YR 3/1), Silt and Medium to Fine Sand, Trace Clay, Trace Gravel, Dense, Moist. (5 25.65 5)		
38/50		189	60	Grayish Brown (10YR 5/2) Coarse to Fine Sand, Trace Medium to Fine Rounded Gravel, Trace Silt, Very Dense Wet.		
62		190	65			
			70			

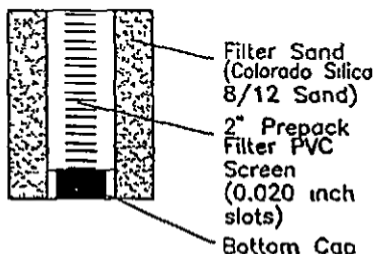
SEACOR

BORING LOG

BORING: AI-1

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PROJECT CIRCLE K #1476 LOCATION 12660 1ST AVE S. SEATTLE, WA
 SURFACE ELEVATION - CASING TOP ELEVATION -
 START 4/21/94 7.07 FINISH 4/21/94
 SAMPLER DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC 10-1/4" HSA
 COMMENTS SAMPLE EVERY 5' WITH 3" X 1.5' LONG SPLIT SPOON

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
75-3"		68	70	Grayish Brown, (10YR 5/2) Medium to Fine Sand and Silt, Trace Fine Rounded Gravel, Very Dense, Very Moist, (10 50 40.0)		 <p>Filter Sand (Colorado Silica 8/12 Sand) 2" Prepac Filter PVC Screen (0.020 inch slots) Bottom Cap</p>
60		68	75	Grayish Brown, (10YR 5/2) Coarse to Fine Sand, Trace Medium to Fine Rounded Gravel, Trace Silt, Very Dense, Moist, (15 70 15 0) Boring terminated at 70 feet Sampler advanced to 70.5 feet Groundwater encountered at approximately 60.5 feet during drilling Boring converted to a groundwater monitoring well on 4/21/94		
			80			
			85			
			90			
			95			
			100			
			105			

SECOR

BORING LOG

BORING MW-7
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PROJECT CIRCLE K STORE #1476 LOCATION 12680 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION - CASING TOP ELEVATION 97.17**
 START 10/26/94 0643 FINISH 10/26/94 0835
 SAMPLER RM/DJD MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5" I.D. X 1.5' LONG SPLIT SPOON SAMPLER
LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6"/6"/6"	Diagram
			0	Asphalt			Monument Wellhead
			0-5				Concrete
100		27	5	Silty Sand, brown, (10YR 5/3), very fine to fine grained, (D 80 20,0)** Moist	SM		
100		24	10	Occasional gravel			Bentonite Seal
200		11 2	15	Occasional cobbles (2,80,18,0)			
150		27 4	20	Sand with Silt, gray (10YR 5/1), very fine to fine grained well graded, moist (D 90,10,0)	SP-SM		2" Blank PVC Casing
100		18 5	25	Occasional gravel			
130		14 1	30	Silty Sand, grayish brown, (10YR 5/2), very fine to fine grained (D 80 20,0)	SM		
			35				

SECOR

BORING LOG

BORING MW-7

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PROJECT CIRCLE K STORE #1476

LOCATION 12680 1ST AVENUE SOUTH SEATTLE, WASHINGTON

SURFACE ELEVATION -

CASING TOP ELEVATION 97.17**

START 10/26/94 0643

FINISH 10/26/94 0835

SAMPLER RM/DJD

MONITORING DEVICE MICROTIP PID ML-2000

SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA

COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5" I.D. X 1.5' LONG SPLIT SPOON SAMPLER

LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6" / 6" / 6"	
130	35-40	15 1	35	Occasional gravel and occasional cobbles (3 80 17 0)	SM		
110	40-45	13 1	40	Sand with Silt, grayish brown, (10YR 5/2), very fine to medium grained, occasional gravel moist, (3,80,7,0)			
110	45-50	10 7	45				
125	50-55	11 7	50	Wet	SW/SM		
130	55-60	11 6	55				
110	60-65	13 5	60	Sand with Silt and Clay, grayish brown, (10YR 5/2), very fine to fine grained, occasional gravel moist, (3 85 12,10)	SP-SM/SG		
115	65-70	11 3	65	Silt with Sand, gray (10YR 6/1) very fine to fine sand moist (0,10,90,0)	ML		
			70				Filter Sand (RMC Lonestar #2/12)

SECOR

BORING LOG

BORING MW-7

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PROJECT CIRCLE K STORE #1476 LOCATION 12880 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION - CASING TOP ELEVATION 97.17**
 START 10/26/94 0843 FINISH 10/26/94 0835
 SAMPLER RM/DJD MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC., CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5' I.D. X 1.5' LONG SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS BLOWS 6" / 6" / 6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
110	70-75	15.3	70		ML	
90	75-80	15.8	75	Silty Sand, brown, very fine to fine grained, occasional gravel, moist (3 80 17,0)	SM	
90	80-85	13	80	Saturated		
95	85-90	9.9	85			
				Boring terminated at 88 feet		
				Groundwater encountered at approximately 80 feet during drilling Boring converted to a groundwater monitoring well on 10/26/94		
				* Munsell (1990) Soil Color Charts		
				** Percentage of soil types shown in this order (0,50,45,5), gravel sand, silt, and clay		
						** Note Casing top elevation relative to SECOR temporary benchmark with an assigned elevation of 100.00 feet

SECOR

BORING LOG

BORING MW-8

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PROJECT CIRCLE K STORE #1476 LOCATION 12680 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION - CASING TOP ELEVATION 98.82**
 START 10/27/94 1021 FINISH 10/27/94 1221
 SAMPLER RM/DJD MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5" I.D. X 1.5' LONG SPLIT SPOON SAMPLER
LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6" / 6" / 6"	Diagram
			0	Asphalt			Monument Wellhead
90	0 - 5	85	5	Silty Sand, grayish brown, (10YR 5/2)*, very fine to fine grained, moist (0,80,20,0)**			Concrete
140	5 - 10	17	10				Bentonite Seal
110	10 - 15	54	15	Occasional Gravel, subangular-subrounded	SM		
120	15 - 20	98	20				
160	20 - 25	72	25	Wet, no gravel			
140	25 - 30	52	30				2" Blank PVC Casing
			35				

SECOR

BORING LOG

BORING MW-8

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PROJECT CIRCLE K STORE #1476 LOCATION 12660 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION - CASING TOP ELEVATION 98.82**
 START 10/27/94 1021 FINISH 10/27/94 1221
 SAMPLER RM/DJD MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5' I.D. X 1.5' LONG SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS BLOWS 6" / 6" / 6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
145	35-40	4.0	35	(7.75,20,0)			
140	40-45	4.0	40				
110	45-50	3.2	45	Occasional rounded cobbles	SM		Bentonite Seal
95	50-55	3.8	50	(5.75,20,0)			
75	55-60	1.1	55	Sand with Silt, grayish brown, (10YR 5/2) fine grained, poorly graded, wet, (0.90,10,0)	SP-SM		
85	60-65	2.7	60	Silty Sand grayish brown (10YR 5/), fine grained, occasional gravel, moist (5.75,20,0)			
85	65-70	2.2	65	Occasional subrounded cobbles	SM		2" Blank PVC Casing
			70				

PROJECT CIRCLE K STORE #1476 LOCATION 12660 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION - CASING TOP ELEVATION 98.82**
 START 10/27/94 1021 FINISH 10/27/94 1221
 SAMPLER R. MILLER MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME; 75 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5" I.D. X 15' LONG SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						Blows 6"/6"/6"	Diagram
90	70-75	25	70	Silt, brown, trace sand, moist		2" Blank PVC Casing	<p>2" PVC Screen (0.010 inch slots)</p> <p>Filter Sand (RMC Lonestar #2/12)</p> <p>Bottom Cap</p>
65	75-80	211	75	Sandy Silt brown, occasional gravel, (0 20,80,0)	ML		
60	80-85	625	80	Sand with Silt brownish gray wet, (0 90 10 0) hydrocarbon-like odor			
60	85-90	879	85	Saturated	SP-SM		
60	90-95	263	90	Sand with Silt, grayish brown (10YR 5/2) very fine to fine grained, poorly graded no odor (0 90 10 0)			
Boring terminated at 95 feet Groundwater encountered at approximately 83 feet during drilling Boring converted to a groundwater monitoring well on 10/28/94 * Munsell (1990) Soil Color Charts ** Percentage of soil types shown in this order (0 50 45 5) gravel sand silt and clay						** Note Casing top elevation relative to SECOR temporary benchmark with an assigned elevation of 100.00 feet	

SECOR

BORING LOG

BORING MW-9

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PROJECT CIRCLE K STORE #1476

LOCATION 12660 1ST AVENUE SOUTH SEATTLE, WASHINGTON

SURFACE ELEVATION _____

CASING TOP ELEVATION 99.57**

START 10/25/94 0931

FINISH 10/25/94 1445

SAMPLER DJD

MONITORING DEVICE MICROTIP PID ML-2000

SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA

COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5" I.D X 1.5' LONG SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval feet	PID Reading (ppm)	Depth Below Surface feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6"/6"/6"	Diagram
			0	Asphaltic concrete		Monument Wellhead	
60	0 - 5	6.0	5	Silly Sand, light grayish brown (10YR 6/2)*, fine to medium grained sand moist (0.75 25.0)**		Concrete	
100	5 - 10	7.7	10			Bentonite Seal	
50/65	10 - 15	8.4	15	Light gray, (10YR 6/1) occasional fine gravel	SM		
100	15 - 20	4.6	20				
75	20 - 25	9.6	25				
75	25 - 30	6.2	30				
			35				2" Blank PVC Casing

SECOR

BORING LOG

BORING MW-9

PAGE 2 OF 3

PROJECT CIRCLE K STORE #1476 LOCATION 12660 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION _____ CASING TOP ELEVATION 89.57**
 START 10/25/94 0931 FINISH 10/25/94 1445
 SAMPLER R. MILLER MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2 5" I.D. X 1.5' LONG SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6"/6"/6"	
75		45	35				
85		48	40	Silty Sand with Gravel, grayish brown, (10YR 5/2), fine to coarse rounded gravel, fine to medium sand, moist, (20,50,30.0)			Bentonite Seal
90		89	45		SM		2" Blank PVC Casing
80		67	50				
90		57	55	Slight increase in gravels			
85		67.4	60				
No blow count recorded		NS	65	No sample recorded			Filter Sand (RMC Lonestar #2/12)
			70				2" PVC Screen Casing (0.010 inch slots)

PROJECT CIRCLE K STORE #1478 LOCATION 12660 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION _____ CASING TOP ELEVATION 99.57**
 START 10/25/94 0931 FINISH 10/25/94 1445
 SAMPLER DJD MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME: 75 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5" I.D X 1.5' LONG SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6" / 6" / 6"	Diagram
65		NS	70				2" Blank PVC Casing
70		376	75	Silty Sand, grayish brown, (10YR 5/2), fine to medium grained moist, (0,85,15,0).	SM		
80		125	80	Occasional cobble			2" PVC Screen (0.010 inch slots)
65		>2500	85	Sand, grayish brown (10YR 5/2) fine to coarse grained, occasional silt saturated, (0,98,2,0) hydrocarbon-like odor	SW		Filter Sand (RMC Lonestar #2/12)
55		225	90				
70		742	95	Boring terminated at 95 feet Sampler advanced to 96.5 feet Groundwater encountered at approximately 85 feet during drilling Boring converted to a groundwater monitoring well on 10/25/94 * Munsell (1990) Soil Color Charts ** Percentage of soil types shown in this order: (0.50 45.5) gravel, sand, silt, and clay			Bottom Cap

** Note
Casing top elevation relative to SECOR temporary benchmark with an assigned elevation of 100.00 feet

SECOR

BORING LOG

BORING MW-10

PAGE 1 OF 3

PROJECT CIRCLE K STORE #1478 LOCATION 12880 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION _____ CASING TOP ELEVATION 100.66**
 START 10/27/94 0628 FINISH 10/27/94 0835
 SAMPLER R. MILLER MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5" I.D. X 1.5' LONG SPLIT SPOON SAMPLER
LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30' STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6" / 6" / 6"	Diagram
			0	Asphaltic concrete			Monument Wellhead
			5	Silty Sand, light grayish brown, (10YR 5/2)*, very fine to fine grained sand, moist (0,80,20)**	SM		Concrete
65		101					
			10				Bentonite Seal
120		7.6					
			15				2" Blank PVC Casing
93		7.3					
			20				
100		7.8					
			25				
132		4.5					
			30				
100		4.8					
			35				

SECOR

BORING LOG

BORING MW-10
PAGE 2 OF 3

PROJECT CIRCLE K STORE #1476 LOCATION 12880 1ST AVENUE SOUTH SEATTLE WASHINGTON
 SURFACE ELEVATION _____ CASING TOP ELEVATION 100.56**
 START 10/27/94 0628 FINISH 10/27/94 0835
 SAMPLER R. MILLER MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5' I.D. X 1.5' LONG SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30' STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6" / 6" / 6"	
20/20	0 - 5	8.0	35				
200	5 - 10	4.5	40	Wet			
90	10 - 15	5.1	45	Occasional subrounded cobble and gravel	SM		
110	15 - 20	4.8	50				
200	20 - 25		55				
130	25 - 30		60				
200	30 - 35	6.9	65				
			70				

The well construction details show a vertical shaft with a cross-hatched pattern representing the casing. A horizontal line at approximately 40 feet depth is labeled 'Bentonite Seal'. Another horizontal line at approximately 65 feet depth is labeled '2" Blank PVC Casing'.

PROJECT CIRCLE K STORE #1476 LOCATION 12660 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION _____ CASING TOP ELEVATION 100.56**
 START 10/27/94 0628 FINISH 10/27/94 0835
 SAMPLER R. MILLER MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5" I.D. X 1.5' LONG SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6"/6"/6"	
120	70-75	71	70		SM		Bentonite Seal
							2" Blank PVC Casing
120	75-80	311	75	Sand with Silt, grayish brown (10YR 5/2), very fine to fine grained, poorly graded moist, (0.90,10.0)			
90	80-85	7.7	80		SP-SM		2" PVC Screen (0.010 inch slots)
				Saturated			Filter Sand (RMC Lonestar #2/12)
60	85-90	105	85				
60	90-95	28	90				
70	95-100	26	95	Boring terminated at 95 feet. Sampler advanced to 95.5 feet Groundwater encountered at approximately 82.5 feet during drilling. Boring converted to a groundwater monitoring well on 10/28/94 * Munsell (1990) Soil Color Charts ** Percentage of soil types shown in this order (0.50.45.5), gravel, sand, silt, and clay			Bottom Cap
			100				** Note Casing top elevation relative to SECOR temporary benchmark with an assigned elevation of 100.0 feet
			105				

SECOR

BORING LOG

BORING MW-11
PAGE 1 OF 3

PROJECT CIRCLE K STORE #1476 LOCATION 12880 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION _____ CASING TOP ELEVATION 99.72**
 START 10/26/94 1103 FINISH 10/26/94 1415
 SAMPLER R MILLER MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5' I.D. X 1.5' LONG SPLIT SPOON SAMPLER
LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6" / 6" / 6"	Diagram
			0	Asphalt			Monument Wellhead
75	0 - 5	18	5	Silty Sand, grayish brown (10YR 5/2), very fine grained, occasional cobbles moist, (0,80,20,0)**			Concrete
150	5 - 10	19 1	10				Bentonite Seal
150	10 - 15	25 4	15	With gravel and cobbles	SM		
150	15 - 20	24 4	20				
150	20 - 25	NR	25	No Recovery			
No blow count recorded	25 - 30	NR	30	No recovery			
175	30 - 35	13 6	35				2" Blank PVC Casing

SECOR

BORING LOG

BORING MW-11

PAGE 2 OF 3

PROJECT CIRCLE K STORE #1476 LOCATION 12660 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION _____ CASING TOP ELEVATION 99.72**
 START 10/26/94 1103 FINISH 10/26/94 1415
 SAMPLER R. MILLER MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5" I.D. X 1.5' LONG SPLIT SPOON SAMPLER
LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details	
						BLOWS 6"/6"/6"	
200	35-40	13.5	35	Silty Sand, very fine to fine grained, occasional gravel, moist. (10 50 40 0)			
200	40-45	12.7	40	Silty Sand, grayish brown, (10YR 5/2), very fine to medium grained, occasional rounded gravel and cobbles, (0,70,30 0)	SM		Bentonite Seal
160	45-50	9.8	45	Increase in gravels			2" Blank PVC Casing
170	50-55	12.2	50				
170	55-60	12.2	55				
160	60-65	9.8	60	(5,70,25,0)			
115	65-70	20.9	65				Filter Sand (RMC Lonestar #2/12) 2" PVC Screen (0.010 inch slots)

PROJECT CIRCLE K STORE 31476 LOCATION 12880 1ST AVENUE SOUTH SEATTLE, WASHINGTON
 SURFACE ELEVATION _____ CASING TOP ELEVATION 98.72**
 START 10/26/94 1103 FINISH 10/26/94 1415
 SAMPLER R MILLER MONITORING DEVICE MICROTIP PID ML-2000
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 75; 8-1/4 OD HSA
 COMMENTS SAMPLED EVERY 5 FEET WITH A 2.5" I.D. X 1.5' LONG SPLIT SPOON SAMPLER
LINED WITH BRASS SLEEVES DRIVEN BY A 140 LB. HAMMER, 30" STROKE

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface feet	Lithologic Description	Unified Soil Classification	Well Construction Details
95		11.5	70		SM	<p>2" Blank PVC Casing</p> <p>2" PVC Screen (0.010 inch slots)</p> <p>Filter Sand (RMC Lonestar #2/12)</p> <p>Bottom Cap</p>
100		44.8	75	Sand with silt, grayish brown, (10YR 5/2), very fine to medium grained, occasional large rounded cobbles occasional gravel (2,90.8.0)	SW-SM	
90		42.3	80	Saturated		
80		10.8	85			
80		12.3	90			
				Boring terminated at 90 feet Sampler advanced to 90.5 feet Groundwater encountered at approximately 80 feet during drilling Boring converted to a groundwater monitoring well on 10/26/94 * Munsell (1990) Soil Color Charts ** Percentage of soil types shown in this order (0.50.45.5) gravel, sand, silt, and clay	** Note Casing top elevation relative to SECOR temporary benchmark with an assigned elevation of 100.00 feet	

SECOR

BORING LOG

BORING MW-12

PAGE 1 OF 2

PROJECT CIRCLE K STORE #1476

LOCATION 12880 1ST AVE. S.
SEATTLE, WASHINGTON

SURFACE ELEVATION -

CASING TOP ELEVATION 91.63**

START 4/18/95 0945

FINISH 4/18/95 1135

SAMPLER E. CHAPMAN

MONITORING DEVICE MICROTIP PID

SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING, INC.; CME 75; 8.25" O.D. HSA

COMMENTS BORING SAMPLED EVERY 5' USING A DAMES & MOORE TYPE SPLIT SPOON

SAMPLER LINED WITH BRASS SLEEVES

ECOLOGY WELL #ABZ 493

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			0	2" Asphalt		
6/7/8		2 8		Silly Sand with Gravel, dark brown (10YR 4/3)*, wood debris, loose dry (fill)	SM	Monument Wellhead Concrete
65 for 6"		4 3	10	Gravelly Sand with Silt, dark grayish brown (2.5Y 4/2) medium subrounded gravel, fine sand dry (30,50,20 0)**		
80 for 6"		5 2				
95 for 6"		3 6	20	Decreased gravel (20 60 20 0)		
80 for 6"		4 3		Sand with Gravel and Silt, dark gray (2.5Y 4/2), poorly graded coarse to medium gravel fine sand, dry (20 70 10 0)	SP-SM	Bentonite Seal
92 for 6"		5 2	30			
72 for 6"		4 8		Dark grayish brown (2.5Y 4/2)		2" Blank PVC Casing
68 for 6"		4 2	40	Silty Sand with Gravel, dark gray (2.5Y 4/2) medium to fine gravel, fine sand, very dense dry (25,60,15,0)	SM	
93 for 6"		5 7				
			50	Sand with Gravel, dark gray (2.5Y 4/2), poorly graded, medium to fine gravel, fine sand, trace silt, dry (15,80 5 0)	SP	

PROJECT CIRCLE K STORE #1476 LOCATION 12000 1ST AVE. S. SEATTLE, WASHINGTON
 SURFACE ELEVATION - CASING TOP ELEVATION 81.63**
 START 4/18/95 0945 FINISH 4/18/95 1135
 SAMPLER E. CHAPMAN MONITORING DEVICE MICROTIP PID
 SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING, INC.; CME 75:8.25' O.D. HSA
 COMMENTS BORING SAMPLED EVERY 5' USING A DAMES & MOORE TYPE SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES ECOLOGY WELL #ABZ 493

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface feet	Lithologic Description	Unified Soil Classification	Well Construction Details
93 for 6"	58-63	58	50			
82 for 6"	53-58	18		Dark grayish brown (2.5Y 4/2) medium gravel medium sand, (30 65 5 0)	SP	Bentonite Seal
86 for 6"	48-53	15	60	Molst		2" Blank PVC Casing
85 for 6"	43-48	68		Dry		
81 for 6"	38-43	NR	70	Driller notes change in penetration rate		
62 for 6"	33-38	85		Sand with Gravel very dark gray (2.5Y N3/0), well graded coarse to fine gravel, coarse to fine black speckled sand trace silt wet (30 65 5 0)	SW	Filter Sand (RMC Lonstar 2/12 Sand)
78 for 6"	28-33	75*	80			2" PVC Screen (0.010 inch slots)
82 for 6"	23-28	NR				
82 for 6"	18-23	NR	90			
Blow counts not recorded		NR				Bottom Cap

*Sample recovered below minimum required for laboratory analysis

Boring terminated at 95 feet
 Groundwater encountered at approximately 69 77 and 82 feet during drilling
 Boring converted to a groundwater monitoring well on 4/18/95
 • Munsell (1990) Soil Color Charts
 ** Percentage of soil types shown in this order: (0 50 45 5) gravel, sand, silt, and clay based on field observations.

**Note: casing top elevation relative to SECOR temporary benchmark with an assigned elevation of 100.00 feet

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-1/DAS-6
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/7/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.									Asphalt (6")
						1			Air-knifed/vac-cleared to 5' on 6/7/05
						2			(Sand with gravel fill material, compacted)
						3			
						4			
					16	5			
			Moist	0.2	19	6		SM	Silty SAND with Gravel; grey, 70% medium to coarse sand, 15% silt, 15% gravel
					23	7			
					4	8			(grades less gravel, brown-gray in color)
			Moist	59.1	7	9			
					3	10			
					4	11		ML	SILT with Sand; grey, 70% silt, 25% sand, 5% gravel, moderate plasticity, sheen
			Moist	496	2	12		SP-SM	Poorly Graded SAND with Silt and Gravel; trace brick fragments and glass shards
					1	13			(fibrous wood debris at 13')
		▽ 9:30 6/7/05	Wet	9.1	1	14		SM	Silty SAND; grey, 60% well-graded sand, 30% clayey silt, 10% gravel, moderate plasticity
			Wet	3.5	2	15			
			Moist		1	16			
					16.5	17		WDFill	Wood debris; dark brown
					4	18			(grades finer (sawdust), light brown)
			Sat	0.9	3	19			
					3	20			
			Sat	3.3	2	21			
					2	22			
			Sat	1.7	6				
									BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-2
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/8/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
								Asphalt (4")
					1			Air-knifed/vac-cleared to 20" on 6/6/05.
					2	Conc.		Encountered concrete at 20"; cored on 6/7/05.
					3			Air-knifed/vac-cleared to 5'.
					4			(Compact sand and gravel fill)
				2	5		ML	SILT; brown-grey, 95% silt, 5% fine sand, firm, non-plastic
		Moist	0.0	2	6			
				3	7			
		Moist	0.0	4	8			(grades more brown in color with trace gravel, 90% silt, 5% fine sand, 5% gravel)
				4	9			
		Moist	0.1	10	10		SP-SM	Poorly Graded SAND with Silt; brown-grey; 85% fine to medium sand, 10% silt, 5% gravel
			0.5	4	11			(grades more gravel (10%))
		Wet		4	12			(Urban Redevelopment's PID reads 8.5 ppm)
		Sat	0.1	3	13			(Driller missed sample at 12.5 ft to 14 ft)
				4	14			
		Wet		-	15			
				1	16			
				2	17		WDFill	Wood debris; coarse, approx. 2" to 3" fragments
		Sat	3.2	100/2"	18			(Shoe sample-direct PID screen, could not remove from shoe)
				36	19			(Wood debris grades to sawdust, brown, soft)
				15	20		SP	Poorly Graded SAND; grey, 100% fine sand
		Sat	0.9	12	21			BOTTOM OF HOLE @ 20'
				3	22			
				4				
				8				

Conc.

BENTONITE

▽
13:25
6/8/05

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-3A/DAS-7
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/8/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 21.5'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION NORTHING EASTING

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing								Asphalt (4")
					1			Air-knifed/vac-cleared to 5'
					2			
					3			
					4			
					5			
		Damp	5.0	3	5			
				3	6		ML	SILT; grey, 95% silt, 5% trace sand, firm, non-plastic
				4	6			
				4	7			
		Damp	2.0	6	7			(grades green-grey in color)
				4	8			
				5	8			
		Damp	17	7	9			
		Wet		8	8			Well Graded GRAVEL; brown, with peat and sand, wet
				8	10			
		Damp	338	7	7		SP	Poorly Graded SAND; green-grey, with light brown sand lenses, 100% fine to medium sand
				4	11			(grades grey medium sand, visible sheen)
		Wet	32	2	12			(grades trace coarse gravel (subrounded))
				22	13			(as above, grades more fine gravel)
		Wet	9	50/6"	13			
				100/3"	14			(no recovery)
				70/6"	14			
				15	15			
				50/4"	16			
				44	17			
				13	18			
				15	19			
				4	20		SP	Poorly Graded SAND; grey
				6	21			PEAT; dark brown (2" thickness)
				7	21		SP	Poorly Graded SAND; grey
					22			
								BOTTOM OF HOLE @ 21.5'

15:05
6/8/05

Conc.

BENTONITE

SAND

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-4
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/7/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 21.5'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
Conc.								Asphalt (4")
					1			Air-knifed/vac-cleared to 5'
					2			
					3			
					4			
					5		SM	Silty SAND; brown, 60% well-graded sand, 25% silt, 10% gravel, 5% wood debris, slight plasticity
		Moist	0.6	3	3			
					6			
					7			
		Moist	3.5	2	8		SW	Well Graded SAND; black, with sawdust, 60% sand, 30% sawdust, 10% gravel-subrounded
					9		SM	Silty SAND; brown-grey, 50% well graded sand, 30% silt, 10% gravel, 10% clay fines
		Moist	103.8	1	10			
		Wet	11.7	1	11		WDFill	Wood debris (sawdust); black, with trace sand
		Sat	3.5	2	12			
					13			(grades coarser wood debris) (trace reddish-brown silt at 13.8')
		Sat	0.6	2	14			
					15			(grades finer wood debris (sawdust), reddish-brown at 15.3')
		Sat	0.7	8	16			
					17			
		Sat	0.3	4	18		SP	Poorly Graded SAND with Gravel; grey, 85% medium sand, 15% gravel, loose
					19		SM	Well Graded SAND; grey, with clayey silt (grades less clay)
		Sat	0.6	13	20		SP	Poorly Graded SAND; gray, 80% fine sand, 20% medium sand
					21			
			0.5	11	22			
								BOTTOM OF HOLE @ 21.5'

▽
13.50
6/7/05

BENTONITE

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-5
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/7/2005	Location Map: See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
								Asphalt (4")
					1			Air-knifed/vac-cleared to 5'
					2			
					3			
					4			
		Moist	9.6	3	5	SW-SM		Well Graded SAND with Silt; brown, 70% well graded sand, 25% silt, 5% wood debris, non-plastic
				4	6			
				3	7			
		Moist	23.3	4	8	SM		Silty SAND with Gravel; grey, 60% well graded sand, 20% gravel, 20% silt
				4	9			
			12.4	2	10	ML		SILT; grey, with trace brick fragments, hard (grades more sand)
		Sat	0.3	5	11	SP		Poorly Graded SAND with wood debris
				4	12			
		Sat	0.6	2	13	WDFill		Wood debris (sawdust) (grades finer to coarser in texture) (grades darker to lighter in color)
				3	14			
		Wet	2.7	21	15			(as above, with 15% fine sand, 5% silt)
				28	16			
		Sat	2.7	8	17			
				4	18			
		Sat	3.8	7	19	SW		Well Graded SAND; grey, with trace brown silt, 95% well-graded sand, 5% silt
				7	20	SP		Poorly Graded SAND; grey
		Sat	18.2	9	21			
				10	22			
		Sat	0.6	18				
				12				
								BOTTOM OF HOLE @ 20'

Conc.

BENTONITE

▽
13:50
6/7/05

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-6/VE-6
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/8/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 15.5'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 13'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt (4")
						2				Air-knifed/vac-cleared to 5' on 6/7/05
						3				
						4				
						5				
			Moist Wet	4.0	1	6			SM	Silty SAND; brown, 80% sand, 20% silt
					2	7				
			Moist	5.2	3	8			SP	(~2" thick wood debris at 7', coarse) Poorly Graded SAND; brown, 100% medium sand
			Moist	198	4	9			SM	Silty SAND; brown, with trace gravel, 60% fine sand, 35% silt, 5% coarse gravel, mild sheen
					3	10			SP	(grades grey in color at 9') Poorly Graded SAND; grey, 95% medium sand, 5% silt
		8:00 6/8/05	Moist Sat	11.0	3	11			SM	Silty SAND; brown-grey, soft
			Sat	0.8	4	12				
					8	13				
					4	14				
			Moist	0.2	5	15			WDFill	Wood debris
					2	16				BOTTOM OF HOLE @ 15.5'
					6	17				
						18				
						19				
						20				
						21				
						22				

Delta

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PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-7
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/8/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
								Asphalt (4")
					1			Air-knifed/vac-cleared to 5'
					2			
					3			
					4			
					5			
		Moist	22.1	2	5			
				2	6		SM	Silty SAND; grey with trace roots, 60% fine to medium sand, 40% silt
				3	6			(grades finer sand with trace coarse gravel-subrounded)
		Moist	29.4	3	7			
				3	7			
		Moist	5.3	2	8			
				3	8			
		Moist	0.1	1	10			
				1	10			
		Moist	1.0	3	11			
		Sat		2	11			
				1	12			
				2	12		WDFill	Wood debris
				1	13			
			0.1	2	13			
				4	14			
				8	14			
		Wet	0.1	10	15			(as above)
				7	15			
		Sat	0.0	9	16			(as above, grades more sand (30%))
				21	16			
		Sat	0.0	11	17			
				3	17			
		Sat	0.0	6	18			
				6	18			
		Sat	0.0	6	19		SP	Poorly Graded SAND; grey, 100% fine sand
				2	19			
				3	20		ML	SILT; clayey with 10% fine sand, soft, wet
					20			
					21			BOTTOM OF HOLE @ 20'
					22			

Conc.

BENTONITE

▽
10:00
6/8/05

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-8
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/9/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
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Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing								Asphalt (4")
					1			Air-knifed/vac-cleared to 5'
					2			
					3			
					4			
				2	5		ML	SILT; grey, 95% silt, 5% fine sand, firm, non-plastic
		Damp	5.9	4	6			
				5	7			(grades trace cobble)
		Damp	7.2	5	8			
				6	9			(grades 10% medium sand, slight plasticity)
		Moist	2.1	5	10			
				6	11			
		Moist	3.7	12	10		SP-SM	Poorly Graded SAND with silt; grey, 80% medium sand, 10% silt, 10% well graded gravel
				10	11			
	7:50 6/9/05	Wet		3	12			
				5	13			
			3.0	6	14		SP	Poorly Graded SAND with gravel; grey, 80% medium to coarse sand, 20% well graded gravel, loose
				3	15			
		Sat Wet	2.1	13	14		SP-SM	Poorly Graded SAND with silt and gravel; grey, 70% fine to medium sand, 10% silt, 20% gravel
				23	15		WDFill	Wood debris and cobble (~3"), subrounded; dark brown to tan
			3.3	4	16			
				7	17			(grades no cobble, finer to coarser wood debris)
		Damp	36.7	10	18			
				9-50/6"	19			
		Damp	63.8	36	20			
				27	21			
		Damp	9.0	7	22			
				7				
				7				
								BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO:	WA255-3510-1	CLIENT:	ConocoPhillips	BORING/WELL NO:	SB-9/DAS-8
LOGGED BY:	C. Fleming	LOCATION:	600 Westlake Ave N, Seattle, WA	PAGE	1 OF 1
DRILLER:	CDI	DATE DRILLED:	6/9/2005	Location Map: See Figure 2	
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"		
SAMPLING METHOD:	SS	HOLE DEPTH:	20'		
CASING TYPE:	PVC	WELL DIAMETER:	2"		
SLOT SIZE:	0.020	WELL DEPTH:	20'		
GRAVEL PACK:	2-12	CASING STICKUP:	Flush		

ELEVATION	NORTHING	EASTING
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1			Concrete (6")
					2			Air-knifed/vac-cleared to 5'
					3			
					4			
					5			
		Dry	1.5	3	5			
				4	6		SP	Poorly Graded SAND; light brown, 90% fine sand, 5% coarse sand, 5% silt
				3	6			
		Damp	3.2	6	7			
				4	8		ML	SILT; brown-grey, trace roots, non-plastic, firm
				6	8			
		Dry	3.2	3	9		SP	Poorly Graded SAND; light brown, 90% fine sand, 5% coarse sand, 5% silt
				3	9			
				4	10			
		Moist	5.8	7	11		ML	Sandy SILT; brown-grey; 60% silt, 40% fine sand, 5% gravel (~3/4")
				8	11			
		Wet	333	6	12		SP	Poorly Graded SAND; grey, 100% medium sand
	▽ 12:25 6/9/05			3	12			
		Wet	187.0	2	13		SM	Silty SAND; grey, 70% sand, 20% silt, 10% gravel, moderate to heavy visible sheen
				6	13			
		Wet	49.0	5	14			
				6	14			
		Wet	64.8	5	15		SP	Poorly Graded SAND with Gravel; 85% medium sand, 15% gravel
				6	15			
				8	16			
		Wet	27.0	7	17		SM	Silty SAND with Gravel; grey, 70% sand, 50% silt, 15% well graded gravel
				8	16			
		Wet	9.0	30	18		SP-SM	Poorly Graded SAND with Silt; grey, wood debris, 50% sand, 10% silt, 5% gravel, 35% wood debris
		Sat		17	18			
				5	19		WDFill	Wood debris
		Sat	3.0	2	19		SP-SM	Poorly Graded SAND with Silt; as above
				1	20			
					20			BOTTOM OF HOLE @ 20'
					21			
					22			

Conc.

BENTONITE

SAND

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-10/DAS-9
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/9/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Concrete (8")
						2			Air-knifed/vac-cleared to 5'
						3			
						4			
						5			
			Dry	1.0	3	5		ML	SILT; brown, 95% silt, 5% fine sand, firm to hard
					3	6			
					9	7		SM	Silty SAND; brown, 80% fine sand, 20% silt
			Moist	2.0	12	8		SP	Poorly Graded SAND; brown, trace gravel, 90% medium sand, 5% silt, 5% gravel
					10	9			(peat lense, dark brown, ~1" thickness)
					2	10		SP	Poorly Graded SAND; brown-grey, fine sand, soft
			Damp	17.0	3	11			
					3	12			(as above, with gravel)
					2	13			
					5	14		WDFill	Wood debris, timber, coarse
			Wet	203	8	15		SP	Poorly Graded SAND; grey, 85% medium sand, 5% silt, 5% coarse gravel, 5% coarse sand
					3	16			
					3	17		WDFill	(wood debris)
					4	18		ML	SILT; grey, with wood debris
			Sat Wet	2.0	11	19		WDFill	(grades saturated at wood debris/silt interface)
					4	20			Wood debris
					6	21			(wood debris)
			Wet	0.7	8	22			BOTTOM OF HOLE @ 20'
					3				
					7				
					11				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-11/DAS-10
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/10/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
Conc.					1			Asphalt (3")
					2			Air-knifed/vac-cleared to 5'
					3			
					4			
		Dry	0.0	2	5			
				4	6		ML	SILT; brown, 95% silt, 5% fine sand
				4	7			
		Dry	0.0	21	8			
				16	9		SW	Well Graded SAND with Gravel; brown, 80% sand, 20% gravel
		Damp	0.0	5	9		SM	Silty SAND with Gravel; grey, 70% fine sand, 15% silt, 15% gravel, hard
				8	10			
		Damp	0.4	5	11		SW	Well Graded SAND with Gravel; brown
				3	12			
		Wet	198	7	12		SW-SM	Poorly Graded SAND with Silt; grey, 80% medium sand,
				3	13		WDFill	10% silt, 10% gravel, wood debris at 12.6' to 13'
		Wet	247	4	13		SW-SM	Poorly Graded SAND with Silt; grey, 80% medium sand,
			2	6	14			10% silt, 10% gravel
			8.2	80/6"	14			
		Sat	1.2	10	15		SM	Silty SAND with Gravel; grey, 65% medium-fine sand, 20% silt, 15% gravel
				12	16			
			2.7	28	17		WDFill	Wood debris
				53/6"	17			
		Wet	32	100/6"	18			Wood debris; brown, with fine sand and trace silt, 85% wood debris, 10% fine sand, 5% silt
		Sat	7.9		19			
					20			
					21			BOTTOM OF HOLE @ 20'
					22			

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-12/DAS-10
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/10/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Asphalt (3")
						2			Air-knifed/vac-cleared to 5'
						3			
						4			
						5			
			Moist	0.2	2	5			
					2	6	sw-SM		Well Graded SAND with Silt and Gravel; brown, 60% sand, 30% gravel, 10% silt
				0.4	3	7			
					4	7			
				1.2	4	8	SM		Silty SAND with Gravel; brown-grey, 70% fine to medium sand, 15% silt, 15% gravel, slight to moderate plasticity
					2	8			
					3	9			
				272	4	9			
					5	10			(grades no gravel, grey, hard from 10.3' to 10.5')
		9:50 6/10/05		180	6	11	SP		Poorly Graded SAND; grey, 85% fine to medium sand, 5% silt, 5% wood debris, 5% gravel
			Wet	330	3	12			
				78	12	12			(visible sheen)
					21	13			
			Sat	87	8	14			Poorly Graded SAND with Gravel and wood debris; grey, 50% fine to medium sand, 40% wood debris, 15% gravel, 5% silt
					2	14			
			Sat	147	4	15			(grades less wood debris (30%), brown-grey)
					4	16			(as above, grading more clayey silt (~10%))
			Sat	83	4	17			
					4	17			
			Wet	9	3	18	WDFill		Sawdust (4" thickness)
					3	18			
			Wet	22.8	5	19	SP		Poorly Graded SAND; grey, with wood debris
			Sat	16	9	20			
						20			
						21			BOTTOM OF HOLE @ 20'
						22			

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-13
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/10/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
								Asphalt (4")
					1			Air-knifed/vac-cleared to 5'
					2			
					3			
					4			
				1	5			
				3				
		Moist	1.0	4	6		ML	SILT with sand; grey, 80% silt, 20% sand, low plasticity
				21				
		Moist	1.2	18	7		SP-SM	SAND with silt; grey, 80% fine to medium sand, 10% silt, 10% fine gravel
				8	8			(wood debris at 7.5' to 7.7')
			2.2	4	9		SM	Silty SAND; grey, 80% well-graded sand, 20% silt
				4				
		Moist	1.9	2	10			(grades 10% gravel with brown fine sand lenses)
				2				
		Wet	1.8	3	11			
				2	12			(as above, with fine wood debris (3" lense), brown)
				2				
		Sat	1.1	1	13		WDFill	Wood debris; coarse (~3" fragments), timber with saturated grey sand and silt
		Wet		8	14			Wood debris; reddish-brown, fine, wet, decomposed
		Sat		3				
		Moist	0.2	2	15		SM	Silty SAND with wood debris; 60% well graded sand, 30% silt, 10% wood debris
				5			WDFill	Wood debris; tan, coarse sawdust
				3	16			
		Sat	1.1	2	17		SM	Silty SAND with wood debris; 40% well graded sand, 30% silt, 30% wood debris
				1				
		Moist	1.7	4	18		WDFill	Wood debris; reddish-brown, fine, moist
				10			SP	Poorly Graded SAND; grey, 95% fine to medium sand, 5% silt
		Wet		10	19			
		Moist	1.1	14			SP-SM	Poorly Graded SAND with silt; grey
				15	20		SP	Poorly Graded SAND; grey, 95% fine to medium sand, 5% silt
					21			BOTTOM OF HOLE @ 20'
					22			

Conc.

BENTONITE

▽
14:30
6/10/05

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-14/VE-7
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/13/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 15'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1			Asphalt (2")
					2			Air-knived/vac-cleared to 5'
					3			
					4			
					5			
		Moist	3.4	1	5			Clayey SILT; grey, slightly mottled orange, 5-10% clay, trace organics, moderate plasticity, dense, moist
				1	6			
		Moist	3.4	2	6			(as above, with increased organics, trace coarse sand)
				3	7			
				3	8		CL-ML	
		Moist	16.0	3	8			Clayey SILT; dark grey, changes to wood at 8.3'
				2	9		SP	Silty SAND; 5% silt, coarse sand, with wood fragments
		Moist	399	3	9		SM	SAND; grey, fine to medium, with 5-10% silt, moist, wet at 10.5' depth
	▽ 7:57 6/13/05	Wet		3	10			
		Wet	25.0	1	10			Silty SAND; grey, fine sand, 5-10% silt, loose, wet
				3	11			
		Wet	5.9	7	11			(as above, with wood fragments)
				5	12			
		Wet	19.9	4	12			(as above, bottom 4" degraded wood, peat)
				5	13			
		Moist	6.0	3	13		PT	PEAT; degraded wood/peat (poor recovery)
				10	14			
		Moist	24.1	10	14			Wood fragments with silt
				12	15			
				5	16		WDFill	Wood fragments; changes to peat at 19'
				7	17			
			2.5	7	17			
				8	18			
				8	19			
					20			
					21			BOTTOM OF HOLE @ 20'
					22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-15/DAS-12
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/13/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Asphalt (2")
						2			Air-knived/vac-cleared to 8'
						3			
						4			
						5			
						6			
						7			
						8		SP	SAND; grey-brown, fine, trace medium, with <5% silt, trace fine gravel, loose, dry
			Dry	0.0	4	9			
						10		SM	(as above, changes to sandy silt at 10.0', blue-grey, 10-15% fine to medium sand, trace coarse sand and organics, dense, plastic, moist)
			Moist	9.5	6	11			
		10:25 6/13/05				12			(as above, with large wood fragment (>6"), loose, wet)
			Wet	87.7	2	13			Silty SAND; blue-grey, 10-15% silt, fine to medium sand, wood fragments, trace fine gravel, loose, wet
						14			
			Wet	146	5	15			Silty SAND; as above
						16			
			Wet	1.3	2	17			Silty SAND; blue-grey, fine sand, 5-10% silt, loose, non-plastic, wet
						18			
			Wet	0.0	5	19			(as above, sand slightly coarser with increasing fine gravel)
						20		PT	(as above, changes to peat with wood fragments at 19.25')
						21			
						22			BOTTOM OF HOLE @ 20'

BENTONITE

SAND

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-17
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/14/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing					Recovery	Interval		
									Asphalt (2")
					1				Air-knifed/vac-cleared to 5'
					2				
					3				
					4				
					5				
		Moist	0	2	5				Sandy Gravelly SILT; greys and browns, mottled, 15-20% fine to medium sand, with coarse sand, fine to medium gravel, dense, non-plastic, moist
				2	6				
				3	6				
		Moist	0	6	7			GM	(as above, grading siltier with depth; grades to wood debris at 7.75')
				6	7			SM	
				7	7				
		Moist	0	12	8			SM	Sandy Gravelly SILT; as above, with organics, grades to clayey silt at 9.0, blue-grey, with fine sand, moderate plasticity, dense, moist
				8	9				
				9	9			CL-ML	(as above, sand decreases to <5% at ~10.5')
		Moist	0	2	10				
				2	10				
		Moist	0	2	10				
				2	11				
		Moist	0	100/2"	11				(no recovery, large flake of wood only)
					12				
					13				
		Moist	5.8	4	13			WDFill	(no recovery, wood debris)
				4	13				(slow drilling in wood/log)
				4	14				
		Moist	4.7	50/6"	14				(poor recovery, wood fragment)
					15				
					16				(poor recovery, wood debris, water)
		Wet		100/5"	16				
					17				
		Wet		100/3"	17				Wood debris with trace Sandy Silt; as above
					18				
					19				
		Wet		21	19				Wood debris with Sandy Silt; wet
				11	19				
				6	20				
					21				
					22				BOTTOM OF HOLE @ 20'

Conc.

BENTONITE



Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-18
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/14/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION

NORTHING

EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.									Asphalt (2")
						1			Air-knifed/vac-cleared to 5'
						2			
						3			
						4			
					2	5		SM	Silty SAND; grey, 15-20% silt, fine to medium sand, grades to sandy silt at 5.75', with organic fragments, moderate plasticity, dense, moist
			Moist	19	2	6		SM	(as above, grades to silty sand, 5-10% silt at 7.75', with charred organic fragments, loose)
			Moist	0.8	3	7			
					4	8			(as above, changes to sandy clayey silt at 9.25')
			Moist	0.0	4	9			
		▽			3	10		CL-ML SM	Silty SAND; grey/brown, 10-15% silt, fine to medium sand, with fine to coarse gravel, non-plastic, loose, wet
			Wet	0.0	3	11			(as above, bottom in wood at 12.25')
			Wet	0.4	10	12			
					7	13		PT-WDFill	(no recovery)
			Wet		3	14			(no recovery)
					4	15			
			Wet		1	16		WDFill	Wood debris with Silt; grey, wet
			Wet	2.2	5	17			Wood debris/PEAT; wet
					35	18			
			Wet	0.0	4	19			(as above, grades to clayey silt, silty sand at 19', bottom in fine to medium silty sand, 5-10% silt)
					4	20			
			Wet	2.0	6	21			
					12	22			
					30				BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1 CLIENT: ConocoPhillips
 LOGGED BY: C. Fleming LOCATION: 600 Westlake Ave N, Seattle, WA
 DRILLER: CDI DATE DRILLED: 6/7/2005
 DRILLING METHOD: HSA HOLE DIAMETER: 8"
 SAMPLING METHOD: SS HOLE DEPTH: 20'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.020 WELL DEPTH: 20'
 GRAVEL PACK: 2-12 CASING STICKUP: Flush

BORING/WELL NO: MW-54
 PAGE 1 OF 1

Location Map

See Figure 2

ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
									Asphalt (4") (4" asphalt layer at 8" below surface grade)
						1			
						2			Air-knifed/vac-cleared to 5' (sand fill with broken concrete, bricks, and other debris)
						3			
						4			
						5			
			Moist	0.0	3	6		SP	Poorly Graded SAND; brown, with trace wood debris, (charcoal-like) and brick fragments at 7.5' to 8'
					4	7			
			Moist	0.1	3	8			
					3	9			(grades more well-graded, subrounded gravel, no charcoal)
		▼	Wet	0.1	2	10			(as above, with 5%-10% sandy silt lenses)
				0.3	2	11			
			Sat	0.0	4	12			
					3	13			
			Sat	0.1	3	14		WDFill	Wood debris; brown
					4	15			(grades finer wood debris (sawdust))
			Sat	0.1	5	16			(grades coarser wood debris)
					4	17			
			Sat	0.6	2	18			
				0.0	6	19		SP	Poorly Graded SAND; grey, fine sand
					8	20			
			Sat	0.1	9	21			
					9	22			
					21				BOTTOM OF HOLE @ 20'
					17				

Conc.
BENT.

SAND

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3510-1
 LOGGED BY: C. Fleming
 DRILLER: CDI
 DRILLING METHOD: HSA
 SAMPLING METHOD: SS
 CASING TYPE: PVC
 SLOT SIZE: 0.020
 GRAVEL PACK: 2-12

CLIENT: ConocoPhillips
 LOCATION: 600 Westlake Ave N, Seattle, WA
 DATE DRILLED: 6/8/2005
 HOLE DIAMETER: 8"
 HOLE DEPTH: 20'
 WELL DIAMETER: 2"
 WELL DEPTH: 20'
 CASING STICKUP: Flush

BORING/WELL NO: MW-55
 PAGE 1 OF 1

Location Map:

See Figure 2

ELEVATION NORTHING EASTING

Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
					1			Asphalt (4")
					2			Air-knifed/vac-cleared to 5' (Medium sand and concrete debris)
					3		SP	Poorly Graded SAND; tan
					4			
		Moist	2.0	2	5		ML	SILT with Sand; grey, 80% silt, 20% fine sand, firm, non-plastic
				3	6			
				4	6		SP	Poorly Graded SAND with Gravel; brown-grey, 85% fine to medium sand, 15% well-graded gravel, subrounded
		Moist	16.8	5	7			
				4	8			
		Damp	26.0	4	8		WDFill	Wood debris; fibrous with cedar odor
				20	9			
				17	10			
				11	11			
		Moist	33.3	16	12		SP-SM	(grades coarser wood debris fragments (timber)) Poorly Graded SAND with Silt; grey, 90% fine sand,
		Wet		11	13		WDFill	10% silt, soft
		Moist	0.0	8	13			(grades finer wood debris (sawdust-like), reddish-brown))
				4	14			
		Damp	0.0	6	15			
				8	15			
				3	16			
				2	16			
				3	17			(grades tan sawdust with trace fine sand and silt)
		Moist	0.0	3	17			
				7	18		SM	Silty SAND; brown, with gray medium sand lenses, 80% medium sand, 20% silt, soft
				10	18			
				3	19			
			0.0	6	19		WDFill	Wood debris (sawdust)
				6	20			
					20			
					21			
					22			

Conc.
BENT.

SAND

7:25
6/9/05

BOTTOM OF HOLE @ 20'

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-56
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/9/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20"	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20"	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
								Asphalt (4")
					1			Air-knifed/vac-cleared to 5'
					2			
					3			
					4			
		Dry	7.3	1	5			
				3	6		ML	SILT; grey-green, 85% silt, 5% fine sand, 10% coarse gravel, firm, non-plastic
		Dry	11.5	4	7			(grades trace fine gravel)
				4	8			
		Dry	38.0	3	9		SP	Poorly Graded SAND with Gravel; dark brown
		Moist	21.0	4	10		SW	Well Graded SAND with Gravel; grey, 80% well graded sand, 20% well-graded gravel
				5	11			
		Moist		7	12			
		Wet	7.0	3	13			(as above)
				3	14			
		Wet	3.2	1	15			(as above)
				4	16			
		Sat		26	17		WDFill	(grades brown, decomposed organic (wood debris) at 15.5')
		Wet	4.8	6	18			(wood debris, grades sawdust)
				7	19			
		Wet	3.8	8	20			Poorly Graded SAND; grey, fine sand
				3	21		SP-OL	Wood debris; peat-like, organic soil
				3	22		SP-SM	Poorly Graded SAND with Silt; brown, some wood debris
		Sat	2.4	1				(trace fine sand at bottom)
				1				
				6				
								BOTTOM OF HOLE @ 20'

▽
12:25
6/9/05

SAND

BENT. Conc.

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-57
LOGGED BY: C. Fleming	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/10/2005	Location Map: See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20"	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20"	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
								Asphalt (4")
					1			Air-knifed/vac-cleared to 5'
					2			
					3			
					4			
					5			
		Moist	2.0	2	5			
				2	6		SP-SM	Poorly Graded SAND with Silt and Gravel; light brown, 60% sand, 30% well-graded gravel, moderate plasticity
				2	7			
		Moist	0.3	3	7			
				3	8			
		Dry	38.0	15	8			
				14	9		WDFill	Wood debris; dark brown, decomposed with larger fragments
		Wet	11.0	25	9			
				25	10			
			21.1	15	10		SM	Silty SAND with wood debris and trace brick fragment; brown-gray, 50% sand, 25% silt with clay fines, 25% wood debris
				11	11			
		Wet	259.0	14	11			(grades trace wood debris, cobble)
				3	12			
		Wet	30.0	6	12			(grades gray in color with 15% fine gravel, moderate plasticity)
				4	13			
		Wet	39.0	5	13		WDFill	Wood debris and Gravel with Sand; coarse gravel
				36	14			
		Wet		6	14			(no recovery)
				3	15			
				4	16			
		Wet	9.1	7	16			Wood debris with Poorly Graded SAND
				4	17			
		Wet	1.0	6	17			
				6	18			
				6	19			
				8	19		SW-SM	Well Graded SAND with Silt; grey, wood fibers and reddish-brown sawdust
					20			
					21			
					22			
								BOTTOM OF HOLE @ 20'

BENT Conc.

SAND

12:25
6/10/05

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-16/MW-58
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/13/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
									Asphalt (2")
						1			Air-knifed/vac-cleared to 5'
						2			
						3			
						4			
			Moist	0.2	4	5		SM	Silty SAND; grey-brown, fine sand, 5-10% silt, 2" thick dense silt lense at 5.75' to 5.95', loose, moist
			Moist	0.1	4	6		SM	SAND/Silty SAND; grey-brown, fine sand, 5-10% silt, loose, moist
			Moist	0.0	3	7		SM	(as above)
			Moist	9.6	3	8		SM	(as above)
			Wet	455	3	9			(as above to 10.8', changes to blue-grey clayey silt, wood fragments at 10.5' to 11.0')
		12:00 6/10/05	Moist	178	3	10			Sandy Gravelly SILT; dark brown to grey, fine to medium sand, fine to medium gravel, 10-15% organics, trace brick fragments, loose, wet
			Wet	281	6	11			SAND; fine with metal debris (pulley)
			Wet	253	7	12			Silty SAND; grey/mottled, wood fragments, poor recovery
			Wet	15.4	3	13			(as above, poor recovery)
			Wet	3.0	3	14			(as above, changes to wood fragments at 17.75', coarse, angular wood fragments with silt)
					3	15		PT	Wood fragments and PEAT with trace fine sand and silt
					3	16			
					3	17			
					3	18			
					3	19			
					3	20			
						21			BOTTOM OF HOLE @ 20'
						22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: CanocoPhillips	BORING/WELL NO: MW-59
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/14/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1			Asphalt (2")
					2			Air-knifed/vac-cleared to 5'
					3			
					4			
		Moist	2.0	4	5		SM	Sandy SILT; grey/mottled, 10-15% sand, with fine to coarse gravel, with organic, dense, moist
				2	6			
		Moist	0.1	1	7			(as above, sand decreasing)
				2	8			
		Moist	0.5	2	9		PT	(as above, changes to peat at 8.5', dark brown/red)
				6	10		SM	Silty SAND; grey, 15-20% silt, fine sand, trace fine gravel, dense, moist
		Moist	0.0	4	11			
				2	12			(as above, fine sand, 15-20% silt, dark grey, moist to wet at 12')
		Wet	87	3	13			(as above, silt decreasing, loose, saturated, slight visible sheen)
				4	14			(as above)
		Wet	281	6	15			
				8	16			(as above, with gravel and concrete debris, loose, visible sheen)
		Wet	4	5	17			
				2	18			SAND; greys, coarse, 5-10% silt, fine to coarse gravel, silt lense 5" thick, gravelly SAND, fine to coarse, loose, wet, with concrete
		Wet	188	3	19			Wood debris with SILT; grades to sandsilt/silt at 19.25', thinly bedded, non-plastic, loose, wet
				5	20			
		Wet	8.5	7	21			
				13	22			
		Wet	0.8	7				
				4				
				7				
								BOTTOM OF HOLE @ 20'

BENTONITE

SAND

▽
15:50
6/10/05

Delta






















Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-60
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 6/14/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.020	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: Flush	

ELEVATION	NORTHING	EASTING
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt (2")
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
						5			SM	Sandy SILT; grey/mottled, 10-15% fine to medium sand, fine to medium gravel, moderate plasticity, dense, moist
			Moist	0.0	3	6				(as above, gravel increasing)
			Moist	1.9	3	7				
					5	8				(as above, increasing plasticity, sand decreasing, 5-10% clay, bottom in wood debris)
			Moist	5.2	4	9				
					76/6"	10			WDFill	Wood debris/Brick; ash fragments, grey, grades to fine sandy silt, low plasticity, dense, moist
			Moist	143	7	11			SM	(as above, grades to silty sand, grey, 5-15% silt, fine to coarse sand, with brick fragments, loose, wet, visible sheen)
		▽ 11:40 6/14/05	Wet	244	7	12			SM	Silty SAND; grey, fine to coarse sand, 5-10% silt, with fine to coarse gravel, loose, wet
			Wet	205	5	13				(as above, silt increasing to 10-15%, with gravel, wet, visible sheen)
			Wet	270	2	14				
					2	15				
			Wet	9.0	1	16				Silty SAND; grey, fine to medium sand, 10-15% silt, with fine to coarse gravel, loose, wet
					56/6"	17				Wood/PEAT with cobble
			Wet	52	8	18			WDFill	
					8	19			WDFill	Wood debris
			Wet	4.2	12	20				
					17	21				
					8	22				
										BOTTOM OF HOLE @ 20'

SOIL CLASSIFICATION GRAPHIC SYMBOLS

MAJOR DIVISIONS	SYMBOLS	TYPICAL SOIL DESCRIPTIONS
GRAVELS	<p>GW </p> <p>GP </p> <p>GM </p> <p>GC </p>	<p>Well graded gravels or gravel-sand mixtures, little or no fines</p> <p>Poorly graded gravels or gravel-sand mixtures, little or no fines</p> <p>Silty gravels, gravel-sand-silt mixtures</p> <p>Clayey gravels, gravel-sand-clay mixtures</p>
SANDS	<p>SW </p> <p>SP </p> <p>SM </p> <p>SC/SM </p> <p>SC </p>	<p>Well graded sands or gravelly sands, little or no fines</p> <p>Poorly graded sands or gravelly sands, little or no fines</p> <p>Silty sands, sand-silt mixtures</p> <p>Clayey sands with a touch of gravel</p> <p>Clayey sands, sand-clay mixtures</p>
SILTS & CLAYS LL<50	<p>ML </p> <p>CL </p> <p>OL </p>	<p>Inorganic silts and very fine sands, rock flour, silty or clayey sands or clayey silts with slight plasticity</p> <p>Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays</p> <p>Organic silts and organic silty clays of low plasticity</p>
SILTS & CLAYS LL>50	<p>MH </p> <p>CH </p> <p>OH </p>	<p>Inorganic silts, micaceous or diatomaceous fine sandy or silty soils elastic silts</p> <p>Inorganic clays of high plasticity, fat clays</p> <p>Organic clays of medium to high plasticity, organic silty clays, organic silts</p>
HIGHLY ORGANIC SOILS	PT	Peat and other highly organic soils
FILL MATERIAL	FILL 	
ASPHALT/Concrete		
BENTONITE		
SAND		
	 	<p>Water Level - First Encounter</p> <p>Static Water Level</p>

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3514-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-19
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 7/21/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc.						1				Asphalt (3")
						2				Concrete (10") Air-knifed/vac-cleared to 5'
						3				SILT with Gravel; dense
						4				SAND with Silt; medium sand
			Moist	0.6		5				Silty SAND; gray/brown, sand fine, with fine to coarse gravel, 10-15 % silt, loose, moist, ~10" recovery
			Moist	4.9	5	6		SM		Clayey SILT; gray, poor recovery, with fine sand, loose/ moist
			Moist	6.1	5	7		SM		Silty SAND; gray, sand fine to medium, trace fine gravel, dense, moist
		▽		0.0	2	8				(As above, moisture increases at ~10')
			Wet	178	2	9				Silty SAND; dark gray, sand fine to coarse, with fine to medium gravel, 5-10% silt, loose, wet
			Wet	49	2	10				(As above, with wood debris at ~13.5', increasing silt and clay at ~13.5' dense, wet)
			Wet	18	7	11				(1" recovery, gravel)
			Wet	3.3	5	12				Wood Debris with Silty SAND; sand fine to medium, 5-10% silt, loose, wet, poor recovery
			Wet	2.4	5	13				(As above, poor recovery)
			Wet	1.6	2	14				(Poor recovery, wood with sand/silty sand, fine to medium, loose, wet)
					4	15				
					6	16				
						17				
						18				
						19				
						20				
						21				
						22				

BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3514-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-20
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 7/21/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
Conc.					1			Asphalt (3")
					2			Concrete (10") Air-knifed/vac-cleared to 5'
					3			Gravelly SAND; gray
					4			Silty CLAY; gray
		Moist	0.7	2	5		CL	Clayey SILT; gray, with fine to coarse sand and fine to coarse gravel, dense, moist
		Moist	0.6	4	6		CL/ML	(As above, poor recovery)
			0.4	3	8		ML	Silty SAND; gray, 10-15% silt, sand fine to coarse, dense, wet at 9'
		Wet	2.3	3	10		ML	(As above, grading finer with depth to fine silty sand/sandy silt, gray, dense, wet)
		Wet	0.0	4	11		GM	(As above, gravel coarsening, loose, wet)
		Wet	2.1	4	12		GM	(Poor recovery, gravel, all fines washed out)
		Wet	0.2	4	14		GM	(As above, few bits of gravel, 1" recovery)
		Wet	0.1	6	16		GM	(As above, poor recovery, most fines gone, with wood fragments. [Driller reports voids])
		Wet	0.0	11	17			Silty Sandy GRAVEL; gray, 10-15% fine silt, gravel fine to coarse, loose, wet
		Wet	0.2	8	19			SAND; gray, medium to coarse, with trace fine gravel and 5% silt, loose, wet
				12	20			
					21			
					22			BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3514-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-21
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 7/21/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc.						1				Asphalt (3") Concrete (10") Air-knifed/vac-cleared to 5'
						2				Silty SAND/Sandy SILT; gray, with some gravel
						3				
						4				Silty CLAY; gray
			Moist	31	3	5			CL/ML	Clayey SILT; gray, with fine to coarse sand, trace fine gravel, dense, moist
			Moist	5.0	3	6				(As above)
		▽	Moist		2	7				
			Wet	140	2	8			SM	(As above, sand increasing, clay decreasing, loose, wet)
			Wet	12	7	9			SM	Silty SAND; gray, with wood fragments, sand fine to coarse, dense, wet
			Wet	11	3	10				Silty SAND; gray, 5-10% silt, sand fine to coarse, trace fine to medium gravel, loose, wet
			Wet	4	5	11			SM	(As above)
			Wet		2	12				
			Wet		3	13			SM	(As above, with brick and trace wood fragments)
			Wet		3	14			SM	(As above, gray, 10-15% silt, sand fine to medium, loose, wet, trace fine gravel)
			Wet		4	15			SM	(As above, poor recovery ~ 8")
			Wet		3	16			SM	
			Wet		5	17			SM	
			Wet		2	18			ML	Sandy SILT; gray, 20-30% silt, loose wet
			Wet		3	19				
			Wet		2	20				
					2	21				BOTTOM OF HOLE @ 20'
					2	22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3514-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-22
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 7/21/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION

NORTHING

EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc.						1				Asphalt (3")
						2				Concrete (10") Air-knifed/vac-cleared to 5'
						3				Silty SAND with Gravel; gray
						4				Silty SAND; gray
			Moist		3	5			SM	Sandy SILT; gray, sand fine to medium, trace coarse gravel loose, moist, poor recovery
			Moist		3	6				Clayey SILT; gray, wood fragments in shoe, with fine sand, dense, moist
			Moist		3	7				Silty SAND; gray, with wood debris, 10-15% silt, sand fine, loose, moist
			Wet		3	8				(As above)
			Wet		7	9				Wood debris; with silt and fine sand, poor recovery (~ 4")
			Wet		11	10				(Wood filled shoe, no other recovery)
			Wet		50/6"	11				Wood debris; coarse with silt and sand, dense, wet
			Wet		10	12				(Wood filled shoe)
			Wet		6	13				Sandy SILT; with wood debris
			Wet		6	14				(As above)
			Wet		4	15				
			Wet		3	16				
			Wet		3	17				
			Wet		3	18				
			Wet		7	19				
			Wet		10	20				
			Wet		6	21				
			Wet		12	22				
			Wet		8					
			Wet		5					
			Wet		7					
			Wet		7					
										BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3513-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-1R	
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: CDI	DATE DRILLED: 7/22/2005	Location Map See Figure 1	
DRILLING METHOD: HSA	HOLE DIAMETER: 8"		
SAMPLING METHOD: SS	HOLE DEPTH: 20'		
CASING TYPE: NA	WELL DIAMETER: NA		
SLOT SIZE: NA	WELL DEPTH: NA		
GRAVEL PACK: NA	CASING STICKUP: NA		
ELEVATION		NORTHING	EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt (3")
						2				Air-knifed/vac-cleared to 5'
						3				
						4			SM	Silty SAND; gray 10-15% silt, sand fine to medium, loose, wet (from surface H2O drag down)
			Moist	0		5				
						5				
			Moist	0	2	6				Silty SAND; gray/brown, 15-20% silt, sand fine to medium, with fine to medium sand, loose, moist to wet
					3	7				
			Moist	0	3	8				Sandy SILT; gray, sand fine to medium, 15-25% silt, low plasticity, dense, moist
					2	9				
				12	2	10				Sandy SILT; gray, sand fine to coarse, with fine to coarse gravel, low plasticity, dense, moist
					3	11				(As above)
			Wet	120	2	12				(As above)
					1	13				
			Wet	72	2	14			PT	(As above, changes to peat at 14')
					1	15				Slough/wood debris; chips with dust, poor recovery
			Wet	18	3	16				
					3	17				Wood debris; trace fine to medium gravel, wet
			Wet	3.4	5	18				(As above, chips and sawdust)
					7	19				
			Wet	3.2	50-0"	20				(As above, 2" recovery)
					4	21				
			Wet	2.8	3	22				BOTTOM OF HOLE @ 20'
					4					
					5					

Conc.
BENTONITE



Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3513-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-4R	
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: CDI	DATE DRILLED: 7/21/2005	Location Map See Figure 1	
DRILLING METHOD: HSA	HOLE DIAMETER: 8"		
SAMPLING METHOD: SS	HOLE DEPTH: 20'		
CASING TYPE: NA	WELL DIAMETER: NA		
SLOT SIZE: NA	WELL DEPTH: NA		
GRAVEL PACK: NA	CASING STICKUP: NA		
ELEVATION		NORTHING	EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.									Asphalt (3")
						1			
						2			Air-knived/vac-cleared to 5'
						3			
						4			
			0.3		3	3		SM	Silty SAND/Sandy SILT; gray, 10-20% silt, sand fine to medium, trace coarse and fine gravel, loose, moist
					3	5			
					3	6		CL/ML	Clayey SILT; gray/blue gray, with fine to medium sand and fine gravel, dense, moist
			0.2		2	3			
					3	7			(As above, with wood fragments, grades into silty sand at ~7.5', brown, loose, wet)
			0.4		1	3		PT	PEAT; dark brown, with fine to medium sand and fine to medium gravel, loose, wet
					3	9			
			1.2		3	8			
					1	10			(As above, poorly degraded wood fragments/wire, poor recovery, very loose, wet)
			0.4		1	11			(Overdrilled 1' between samples)
					6	12			
			4.5		10	13			(As above, with fine to medium gravel, loose, wet)
					6	14			Wood debris; pale orange, poorly degraded, large fragments to sawdust, loose, wet
			0.2		4	15			(As above, more degraded; grades to fine sand at ~15.5', loose, wet)
					5	16			
			7.1		1	17		SM	Silty SAND; gray; sand fine, trace medium and coarse, loose, wet
					2	18			(As above)
			0.2		6	19			
					5	20			
			0.1		11	21			
			0.2		13	22			
									BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3513-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-5R
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 7/21/2005	Location Map See Figure 1
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION

NORTHING

EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt (3")
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
			Moist	0.6		4				
						5			CL	Clayey SILT; gray, with fine to coarse gravel and sand, ~20% silt, dense, moist
						6				(As above, poor recovery)
			Moist	4.9	16	6				
						7				(As above, with wood debris, poorly degraded, loose, moist)
			Moist	6.1		7				
						8				(As above (wood), grades to clayey silt at ~9', gray, dense, with fine sand and gravel, moist)
						9				
						10			CL	Clayey SILT; with fine to medium gravel and wood fragments, wet, poor recovery
			Wet	2.6	5	10				
						11			PT	PEAT with fine Sand; dark brown, loose, wet, poor recovery
			Wet	1.3	4	12				
						13				Wood debris; poorly degraded, loose, wet, poor recovery
			Wet	1.0	1	13				
						14				(As above, all wood debris, wet, loose, 6" recovery)
			Wet	0	4	15				
						16			SM	Silty SAND; with wood debris, 10-15% silt, loose, wet, poor recovery (~8")
			Wet	0	2	16				
						17				Silty SAND; gray, 10-15% silt, sand fine to coarse, loose, wet
			Wet	0	7	18				
						19				(As above)
			Wet	0	12	19				
						20				
			Wet	0	10	20				
						21				
						22				
										BOTTOM OF HOLE @ 20'

Conc.

BENTONITE



Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3513-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-54R
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 7/22/2005	Location Map See Figure 1
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	






















ELEVATION	NORTHING	EASTING
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt (3")
						2				Air-knifed/vac-cleared to 5'
						3				
			Moist	0.0	3	4			SM	Silty SAND; gray/brown, with fine to medium gravel, sand fine to medium, 10-15% silt, loose, moist
					4	5				
			Moist	0.0	4	6			SM	(As above)
					2	7				(As above)
				0.1	2	8			SM	(As above)
		▽	Wet	0.0	3	9			SM	(As above, silt increases to 25% then decreases at ~9.5' to ~10%, gravel increases, sand coarse, loose, wet)
			Wet	0.0	3	10			SM	(As above, wood fragments at ~11')
					2	11				
			Wet	0.0	6	12			PT	Silty SAND/GRAVEL, changes to wood/peat at ~12'
					5	13				(2" recovery, sawdust)
			Wet	0.0	9	14				(6" recovery; 100% wood fragments, sawdust and chips)
					4	15				(As above, 6" recovery)
			Wet	0.0	4	16				(As above, 6" recovery)
					6	17				(As above, more degraded peat, dark orange/brown, 6" recovery)
			Wet	0.0	8	18				(As above, more degraded peat, dark orange/brown, 6" recovery)
					5	19			SM	(As above, changes to fine silty sand at ~19', 10% sand, loose, wet)
			Wet	0.0	11	20				
					9	21				
					5	22				
					7					BOTTOM OF HOLE @ 20'

Conc.

BENTONITE

SOIL CLASSIFICATION GRAPHIC SYMBOLS

MAJOR DIVISIONS	SYMBOLS	TYPICAL SOIL DESCRIPTIONS
GRAVELS	<p>GW </p> <p>GP </p> <p>GM </p> <p>GC </p>	<p>Well graded gravels or gravel-sand mixtures, little or no fines</p> <p>Poorly graded gravels or gravel-sand mixtures, little or no fines</p> <p>Silty gravels, gravel-sand-silt mixtures</p> <p>Clayey gravels, gravel-sand-clay mixtures</p>
SANDS	<p>SW </p> <p>SP </p> <p>SM </p> <p>SC/SM </p> <p>SC </p>	<p>Well graded sands or gravelly sands, little or no fines</p> <p>Poorly graded sands or gravelly sands, little or no fines</p> <p>Silty sands, sand-silt mixtures</p> <p>Clayey sands with a touch of gravel</p> <p>Clayey sands, sand-clay mixtures</p>
SILTS & CLAYS LL<50	<p>ML </p> <p>CL </p> <p>OL </p>	<p>Inorganic silts and very fine sands, rock flour, silty or clayey sands or clayey silts with slight plasticity</p> <p>Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays</p> <p>Organic silts and organic silty clays of low plasticity</p>
SILTS & CLAYS LL>50	<p>MH </p> <p>CH </p> <p>OH </p>	<p>Inorganic silts, micaceous or diatomaceous fine sandy or silty soils elastic silts</p> <p>Inorganic clays of high plasticity, fat clays</p> <p>Organic clays of medium to high plasticity, organic silty clays, organic silts</p>
HIGHLY ORGANIC SOILS	PT	Peat and other highly organic soils
FILL MATERIAL	FILL 	
ASPHALT/Concrete		
BENTONITE		
SAND		
	 	<p>Water Level - First Encounter</p> <p>Static Water Level</p>

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-61
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/10/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION 30.24	NORTHING 231529.4	EASTING 1269264.7
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt/Concrete (16")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
			Moist	0	4	5			SP	Sandy GRAVEL; brown-gray, rounded pebbles, coarse to fine sand
					3	6				(As above, with wood debris)
			Moist Wet	0	2	7			SM	Silty SAND; gray-green, fine
					1	8				
				0	2	9				
					3	10				
			Moist	0	2	11				Sandy SILT; green, with rounded gravel
					3	12			ML	SILT; gray-green, stiff, moist
			Moist	0	2	13				
					1	14			GW	Sandy GRAVEL; round pebbles, with silt
			Moist	0	2	15				
					1	16				(As above, with wood debris)
			Sat	0	1	17				(Poor recovery)
					2	18				
			Sat	0	1	19				Sandy GRAVEL; gray with white, coarse to fine sand, angular
					1	20				
				0	2	21				BOTTOM OF HOLE @ 20'
					2	22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1 CLIENT: ConocoPhillips BORING/WELL NO: MW-62
 LOGGED BY: M. Smith/L. Brock LOCATION: 600 Westlake Ave N, Seattle, WA PAGE 1 OF 1
 DRILLER: Cascade Drilling, Inc. DATE DRILLED: 10/10/2005 Location Map
 DRILLING METHOD: HSA HOLE DIAMETER: 8.5"
 SAMPLING METHOD: SS HOLE DEPTH: 20'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010" WELL DEPTH: 20'
 GRAVEL PACK: 2-12 CASING STICKUP: 0

See Figure 2

ELEVATION 29.74 NORTHING 231582.3 EASTING 1269266.0

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Asphalt/Concrete (~16")
Bent.						2			Air-knived/vac-cleared to 5'
						3			
						4			
				2.1	2	5		SM	Silty SAND; brown to gray, fine
					3	6			
					4	8			
		▽		1.8	4	7		SP	SAND; gray, fine
					6	8			
				2.1	3	9			(As above)
					3	10		SC	SAND with Clay; gray, fine sand
				0	2	11		SP	SAND; brown, fine to medium
		▽		0	3	12			(As above, grades to gray, fine sand with clay)
					3	13		SC	Clayey SAND; gray, fine to medium
				2.5	1	14		sc-sm	SAND and SILT with Clay; gray, fine sand, wood fragments, wet
					2	15			(Grades fine to medium sand, saturated)
			Wet	11	10	16		SP	SAND; gray, fine, wood fibers, some silt, saturated
					14	17			
				13.2	23	18			(As above, grades to coarse sand)
					13	19		SW	SAND; coarse to fine, wet
				5.1	4	20		ML	Clayey SILT; reddish brown, firm
			Wet Dry	17.2	6	21		Wood	Wood fragments
					4	22			BOTTOM OF HOLE @ 20'

Delta

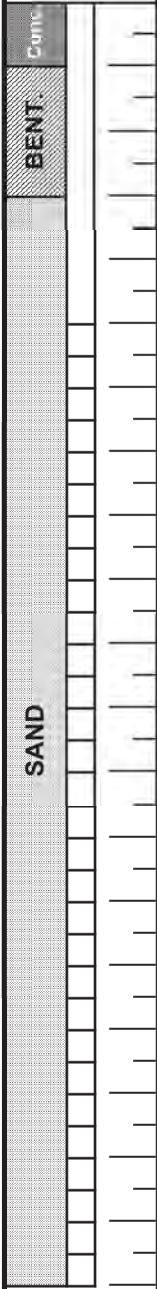
Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1 CLIENT: ConocoPhillips BORING/WELL NO: MW-63
 LOGGED BY: B. Pletcher LOCATION: 600 Westlake Ave N, Seattle, WA PAGE 1 OF 1
 DRILLER: CDI DATE DRILLED: 10/11/2005 Location Map
 DRILLING METHOD: HSA HOLE DIAMETER: 8.5"
 SAMPLING METHOD: SS HOLE DEPTH: 20'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010" WELL DEPTH: 20'
 GRAVEL PACK: 2-12 CASING STICKUP: 0

See Figure 2

ELEVATION 29.43 NORTHING 231635.8 EASTING 1269267.3

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt/Concrete (18")
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
			Moist	6.7	2	5			SM	Silty SAND; brown, fine, with gravel and 6-inch cobbles, stiff
					2	6				
					2	7				(As above)
			Moist	14.5	1	8				
					3	9				
			Moist	12.7	2	10			ML	Clayey SILT; brown, trace fine sand, stiff
					1	11				Sandy SILT; gray, fine sand, wood debris
			Wet	12.5	1	12				
					1	13				
			Sat	13.5	3	14				Wood debris; loose, porcelain chips in dark gray silty sand
					3	15				
					4	16				
			Sat	14.1	4	17			SM	Silty SAND; dark gray, coarse to fine, angular, few rounded pebbles
					5	18				
					2	19				(As above)
			Sat	10.2	3	20				
					2	21				
			Sat	11.3	1	22				
					2					
			Sat	13.5	1					
					2					
			Sat	0.1	4					
					8					
					8					
										BOTTOM OF HOLE @ 20'



Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-64
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/11/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION
28.73

NORTHING
231704.6

EASTING
1269268.9

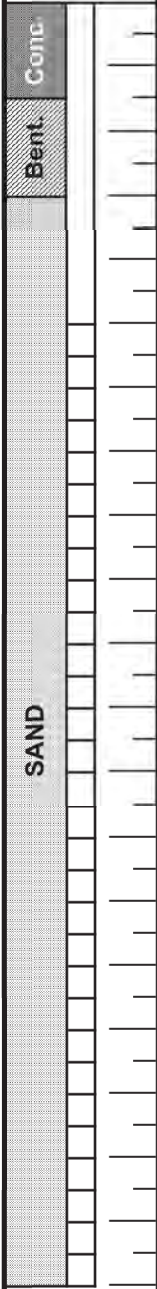
Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt/Concrete (~18")
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
						5			SC	SAND with Clay; greenish-gray, fine sand
			Moist	0	4	6				(As above, medium sand, thin layers, moist)
				0	2	7				(As above, increasing clay content)
			Moist	0	2	8				
				0	6	9				
				0	1	10				SAND with Clay; gray, fine sand, moist
			Wet	0	7	11				(As above, fine to medium sand)
				0	7	12			SP	SAND; gray, fine to medium
			Wet	0	2	13				
				0	2	14				SAND; fine, with increasing clay, wet
			Wet	0	1	15				(As above, with small wood fragments)
			Sat	0	3	16				SAND; gray, fine to medium, saturated
				0	3	17				(As above, fine sand)
			Sat	0	3	18				(As above, with wood fragments)
			Sat	0	4	19				
				0	8	20				
				0	8	21				BOTTOM OF HOLE @ 20'
				0	4	22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-65
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/11/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	
ELEVATION 27.67		NORTHING 231697.1
		EASTING 1269624.9

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Concrete (18")
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
			Moist	0	2	5			CL	Silty CLAY; green-gray, stiff, few rounded pebbles
				1	1	6				
				0	3	7				(As above)
						8				
					5	9			Wood	Wood debris
						10				(Auger drilling at an angle due to wood debris, unable to sample)
						11				
						12				(Wood plug put in bottom of auger to advance boring to 20')
						13				
						14				
						15				
						16				
						17				
						18				
						19				
						20				
						21				BOTTOM OF HOLE @ 20'
						22				



Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-66	
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: CDI	DATE DRILLED: 10/11/2005	Location Map See Figure 2	
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"		
SAMPLING METHOD: SS	HOLE DEPTH: 22'		
CASING TYPE: PVC	WELL DIAMETER: 2"		
SLOT SIZE: 0.010"	WELL DEPTH: 22'		
GRAVEL PACK: 2-12	CASING STICKUP: 0		
ELEVATION 28.65		NORTHING 231609.1	EASTING 1269623.0

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
									Concrete (18")
						1			
						2			Air-knived/vac-cleared to 5'
						3			
						4			
						5		SP	SAND; tan to medium brown, medium to fine
				0	2	6			(As above with pea gravel)
					4	7			SAND; tan to light brown, medium, with pea gravel
				0	4	8			
					7	9			SAND; brown, medium, with pea gravel
				0	9	10			(As above, dark brown, less gravel, with clay)
					9	11			SAND; brown, medium to fine, with wood fragments
				0	12	12			
					10	13			SAND; medium to fine, with increasing silt
				0	27	14		CL	Silty CLAY; 10% sand, medium to fine, moist
					10	15			(As above)
				0	10	16			(As above, sand increasing to 20%)
					4	17		Wood	Wood fragments
					9	18		CL	Silty CLAY; medium brown, with wood fragments
				0	11	19			(As above, dark brown, with increasing wood)
					2	20		SP	(As above, grades to light gray, fine sand)
				0	6	21			SAND; gray, medium
					7	22			(Continued drilling to 22', sampling terminated at 20')
				0	27				
									BOTTOM OF HOLE @ 22'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-67
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/12/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION 27.64	NORTHING 231654.7	EASTING 1269625.6
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Concrete						1			Concrete (18")
						2			Air-knived/vac-cleared to 5'
						3			
						4			
			Moist	0.5	6	5		CL	CLAY; gray, stiff, blocky, with silt and fine sand
			Moist	0.6	6	6			(As above)
			Moist	0.6	6	7			(As above)
			Wet	0.5	5	8			(As above)
			Wet	0.5	7	9		SP	SAND; brown, with gravel, wet (As above, with wood fragments)
			Wet	0.5	2	10			
				0.6	6	11		GP	GRAVEL; brown, wet
				0.8	7	12		Wood	Wood fragments and sawdust
				0.5	4	13			
				0.5	4	14			Sawdust, brown, unweathered
				16.2	50/6"	15			(As above)
				5.9	13	16			Wood fragments, poor recovery
				2.4	6	17			
					13	18			
					20	19		SP	Wood Chips SAND; gray, fine to medium
					22	20			
					35	21			BOTTOM OF HOLE @ 20'
						22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1 CLIENT: ConocoPhillips BORING/WELL NO: MW-68
 LOGGED BY: M. Smith/L. Brock LOCATION: 600 Westlake Ave N, Seattle, WA PAGE 1 OF 1
 DRILLER: CDI DATE DRILLED: 10/11/2005 Location Map
 DRILLING METHOD: HSA HOLE DIAMETER: 8.5"
 SAMPLING METHOD: SS HOLE DEPTH: 20.5'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010" WELL DEPTH: 20.5'
 GRAVEL PACK: 2-12 CASING STICKUP: 0

See Figure 2

ELEVATION 29.23 NORTHING 231536.4 EASTING 1269584.8

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
									Concrete (18")
						1			
						2			Air-knifed/vac-cleared to 5'
						3			
						4			
						5		SC	SAND; gray, fine, with clay
			1.0	4	4	6			
						7			(As above, with rocks)
			1.2	6	7	7			
						8		SP	SAND; gray, fine
			Moist	17	19	9		Wood	Wood fragments
				1.8	9	10		SP-SM	SAND; gray, with clay and silt
				1.2	5	6			
			Wet		6	11		SP	SAND; dark gray to brown, fine
				0.6	50/6"	12			(As above, saturated)
			Sat			13			(Grades gray with large wood fragments)
				17.1	7	14			
						14		Wood	Wood fragments
				21.9	70/3"	15			
						16			(As above)
				65.8	37	17			
						18		SP	SAND; brown, fine, with wood fragments
				3.6	50/4"	19			(As above, with wood fragments)
				1.0	9	20			SAND; gray, fine
						20			
						21			BOTTOM OF HOLE @ 20.5'
						22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-69	
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: CDI	DATE DRILLED: 10/11/2005	Location Map See Figure 2	
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"		
SAMPLING METHOD: SS	HOLE DEPTH: 20'		
CASING TYPE: PVC	WELL DIAMETER: 2"		
SLOT SIZE: 0.010"	WELL DEPTH: 20'		
GRAVEL PACK: 2-12	CASING STICKUP: 0		
ELEVATION 27.67		NORTHING 231756.2	EASTING 1269585.8

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Concrete (~18")
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
			Moist	1.5	3	5		CL		Silty CLAY; green-gray, few pebbles, some rounded gravel, stiff
					2	6				
				1.3	3	7				(As above)
			Moist		3	8				
				1.4	3	9				(As above)
			Moist		2	10				
			Wet	4.3	1	11				(As above)
					1	12		SM		Silty SAND; green-gray, coarse to fine sand, with round pebbles
			Sat	2.5	1	13				
				1.3	2	14		SP		Gravelly SAND; gray, well-graded angular sands, with silt, with rounded 1/4"-1" gravel
			Sat		3	15				
				1.2	2	16				
			Sat		2	17				(As above, with less gravel, more silt)
				1.5	1	18				(As above, with wood chips)
			Sat		3	19				
				2.2	3	20		Wood		Wood chips
			Sat		3	21				
				1.3	2	22				
			Sat		2					
										BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-70
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/11/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION	NORTHING	EASTING
31.14	231395.4	1269300.3

Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
					1			Asphalt/Concrete (18")
					2			Air-knived/vac-cleared to 5'
					3			(Silty sand fill, light brown, with round cobbles)
		Moist			4			
		Moist	11.7	4	5		SP	SAND; greenish gray, fine to very fine, angular, trace silt
		Moist		9	6			
		Moist	10.1	4	7			(As above, few round 1" gravel)
		Moist		5	8			(As above, grades to light brown)
		Moist	30.8	3	9			
		Wet	625	2	10		Wood	Wood debris, with coarse sand
		Wet	684	3	11			Wood debris
		Moist	179	2	12		ML	Clayey SILT; green
		Damp	10.4	3	13		Wood	Wood debris
		Sat	21.2	1	14		SM	Silty SAND; gray, medium to fine, angular, with wood debris
		Sat	39.3	2	15			
		Sat	20.7	5	16		SP	SAND; medium to fine, trace silt, wood debris
				4	17			
				3	18			
				3	19			
				1	20			
				3	21			
					22			

BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-71
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/12/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION 30.42	NORTHING 231418.9	EASTING 1269362.6
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt/Concrete (~12")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
						5				
				2.8	4	5			SP	SAND; gray, fine to medium
					8	6				
					14	7				
				3.4	14	8				(As above with some clay)
					14	9				
			Moist	3.8	16	10				SAND; gray, fine to medium
					16	11				
					12	12				
			Wet	3.2	14	13				SAND; gray to brown, fine, some greenish clay
					16	14				
					14	15				
				42.7	20	16				SAND; gray, fine to medium
					26	17				
			Wet		32	18			Wood	Wood fragments, coarse
					12	19				
					12	20				
					12	21				
				102.1	14	22				
					18	23				
					10	24				
				15.4	10	25				Wood fragments, coarse
					21	26				
					60/5"	27				(As above)
				11.9		28				
						29				
						30				
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BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-72
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/12/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION 30.32	NORTHING 231417.7	EASTING 1269418.6
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt/Concrete (12")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
			Moist	2.2	4	5			SM	Silty SAND; light brown and gray, medium to fine, angular
				2.4	4	6				
				2.4	4	7				(As above)
				3.7	5	8				(As above)
				2.1	4	9				(As above)
			Wet	2.1	3	10				(As above, grades gray)
			Sat	1.8	5	11				Silty SAND; gray, medium to fine, angular
			Sat	3.5	5	12				
			Sat	1.4	2	13				
			Sat	1.2	3	14			Wood	Wood chips
			Sat	1.6	3	15				
			Sat	0.7	2	16				Wood chips, poor recovery
					3	17				
					2	18				Wood
					2	19				Wood debris, gray, silty
					3	20			PT	PEAT
						21				BOTTOM OF HOLE @ 20'
						22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-73
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/12/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION 30.11	NORTHING 231415.5	EASTING 1269478.3
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Comp.						1			Asphalt/Concrete (12")
Bent.						2			Air-knived/vac-cleared to 5'
						3			
						4			
						5		SP	SAND; gray, fine to medium, with some rocks
			7.3			6			
						7			(As above)
			3.4			8			(No recovery)
						9			
		▽				10			SAND; gray to black, fine
			495			11			
						12			SAND; gray, fine, with pebbles
			15.9			13		Wood	Wood fragments
						14			(As above, saturated)
						15			(As above)
			3.7			16			
						17			Wood fragments, brown
			1.3			18		SP	SAND; gray, fine
						19		Wood	Wood fragments, brown
			1.8			20		SP	SAND; gray, fine
						21			BOTTOM OF HOLE @ 20'
						22			

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-74
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/12/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION	NORTHING	EASTING
30.35	231388.2	1269577.3

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			
Bent.						2			Air-knifed/vac-cleared to 5'
						3			
						4			
			Moist			5		SP	SAND; light brown, medium to fine, trace silt, angular
				1.3	3	6			
					4	7			(As above)
				1.0	5	8			
					6	9			(As above)
				1.5	6	10			
		▽	Wet		7	11			(As above, grades to gray)
				2.4	3	12			(As above)
					3	13		Wood	Wood debris/wood chips
				572	2	14			
			Sat		1	15			Wood chips
				13.1	2	16			
			Wet		4	17		PT	PEAT
				4.4	3	18			
			Wet		2	19		SP	SAND; greenish-gray, fine to very fine, angular, saturated
				3.4	1	20		PT	PEAT
			Wet		2	21		SP	SAND
				3.6	3	22		OH	CLAY; gray, plastic, stiff, with trace organics
			Sat		4				BOTTOM OF HOLE @ 20'
				2.1	2				
					2				
					2				

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-75
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/13/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION 28.11	NORTHING 231943.9	EASTING 1269319.9
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Grass
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
						5				(No recovery)
					3	5			Fill	(Fill material: gravel and brick with gray silt and fine sand)
			Moist	2.3	3	5				
						6				(As above)
			Moist	1.6	4	8				
						7				
						8				
						9			PT	PEAT
			Sat	1.4	2	2			SM	Silty SAND; gray, fine, few pebbles
						10				
			Sat	1.2	2	2				(As above)
						11				
			Sat	1.1	1	1				(As above)
						12				
			Sat	1.0	1	1				(As above)
						13				
			Sat	1.1	2	1				(As above, with less silt, more sand)
						14				
			Sat	1.1	1	1				
						15				
			Sat	1.1	2	1				
						16				
			Sat	1.1	1	1				
						17				
			Sat	1.1	2	1				Silty SAND; gray, coarse to fine angular sand, with rounded pebbles and wood debris
						18				
						19				
						20				(As above)
						21				BOTTOM OF HOLE @ 20'
						22				

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-76
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/13/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION 27.08	NORTHING 231928.3	EASTING 1269395.0
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Grass
						2				Air-knived/vac-cleared to 5'
						3				
						4				
			Moist	5.2	2	5			SM	Silty SAND; medium to fine, angular, with brick
					1	6				
			Wet	1.3	1	7				(As above)
					2	8				
			Wet	1.1	1	9				(As above)
					1	10				(As above, gray, less silt, wood debris)
			Wet	1.0	1	11				
			Sat	1.2	3	12			SP	SAND; with brick and wood debris (Mostly wood)
					5	13				
			Sat	0.8	6	14			SM	Silty SAND; gray, coarse to fine, with brick and wood fragments
					3	15				(As above, with less debris)
			Sat	1.0	3	16				
					4	17				Silty SAND; coarse to fine, few pebbles, less debris
			Sat	1.2	5	18				
					5	19				(As above)
			Sat	0.7	4	20				
					2	21				
			Sat	0.8	2	22			ML	Sandy SILT; dry
			Dry							BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-77	
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: CDI	DATE DRILLED: 10/13/2005	Location Map See Figure 2	
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"		
SAMPLING METHOD: SS	HOLE DEPTH: 20'		
CASING TYPE: PVC	WELL DIAMETER: 2"		
SLOT SIZE: 0.010"	WELL DEPTH: 20'		
GRAVEL PACK: 2-12	CASING STICKUP: 0		
ELEVATION 26.53		NORTHING 231937.2	EASTING 1269453.9

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing									
Conc.						1				Grass
Bent.						2				Air-knifed/vac-cleared to 5'
						3				
						4				
				0	12	5			SP	SAND; brown, fine to medium
				0	18	6				
				0	15	7				(As above, with pebbles, some clay)
				0	12	8			SM	Silty SAND; brown, fine, moist
			Moist	0	3	9				(As above, grades gray)
			Moist	0	3	10			SP	SAND; gray, fine, some clay, moist
				0	1	11				(As above)
			Wet	0	1	12				(As above, with medium sand)
			Wet	0	3	13				(As above)
				0	2	14				(As above, increasing clay, some wood fragments)
				0	3	15				
				0	4	16				(As above)
				0	1	17				(As above)
				0	1	18				
				0	3	19				(As above, sand more consolidated)
				0	6	20				
				0	6	21				BOTTOM OF HOLE @ 20'
				0	7	22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-78
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/13/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION	NORTHING	EASTING
26.45	231935.1	1269537.3

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc						1			Grass
Bent.						2			Air-knifed/vac-cleared to 5'
						3			
						4			
						5		SP-SC	SAND; light gray to tan, fine, stiff, some clay
			0.0	5		6			
						7		SP-SM	SAND; light gray to tan, fine, some silt, some organic material
			0.0	5		8			(As above)
						9			(As above)
		▽	Wet	0.0	9	9			(As above)
						11			(As above)
			Wet	0.0	3	10			(As above, grades to gray sand)
						3			SAND; gray, fine, with silt
			Sat	0.0	1	11			
						2			
						2			
						3			
						6			
						6			(As above, grades dark gray to black sand)
						4			(As above, grades tan to gray with some medium sand and pebbles)
			0.0	4		15			(As above)
						4			
						6			
			0.0	4		16			(As above, with some clay and wood fragments)
						13			
						4			
						3			
						10			(As above, with pebbles)
			0.0	4		19			
						14			
						16			
						20			
						21			BOTTOM OF HOLE @ 20'
						22			

Delta

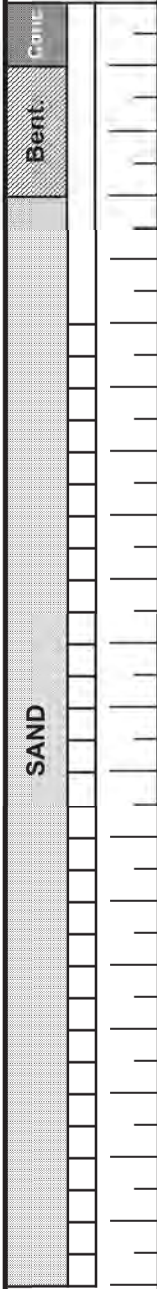
Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1 CLIENT: ConocoPhillips BORING/WELL NO: MW-79
 LOGGED BY: M. Smith/L. Brock LOCATION: 600 Westlake Ave N, Seattle, WA PAGE 1 OF 1
 DRILLER: CDI DATE DRILLED: 10/14/2005 Location Map
 DRILLING METHOD: HSA HOLE DIAMETER: 8.5"
 SAMPLING METHOD: SS HOLE DEPTH: 20'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010" WELL DEPTH: 20'
 GRAVEL PACK: 2-12 CASING STICKUP: 0

See Figure 2

ELEVATION 26.80 NORTHING 231942.0 EASTING 1269585.5

Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing					Recovery	Interval		
									Grass
					1				
					2				Air-knived/vac-cleared to 5'
					3				
					4				
					5			SP	SAND; fine to medium, with Gravel
		0.4	10		6				
			12		7				(As above, grades fine gravel)
		0.4	23	23	8			SW	SAND and GRAVEL; fine to medium sand
			26	22	9				
		0.3	17		10				(As above, salt & pepper)
			19		11				(As above, saturated)
			26		12				
		*	23		13				(As above)
			16		14				SAND and GRAVEL; fine gravel
			18		15				(As above, increasing clay)
			17		16			SC	Clayey SAND with Gravel
			30		17				
			32		18				(As above)
			72/6"		19				
					20				
					21				BOTTOM OF HOLE @ 20'
					22				*PID malfunctioned 10' to 20'



Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-80
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/14/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION 26.34	NORTHING 232000.0	EASTING 1269583.8
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc.						1				Grass
Bent.						2				Air-knived/vac-cleared to 5'
						3				
						4				
						5			SM	Silty SAND; brown, 40% silt, coarse sand, with brick and gravel
			Moist	1.1	1	2				
						6				
						7				
			Wet	4.8	1	1				
						8				(As above, grades gray)
						9				(As above, with less silt)
			Sat	2.5	5	6				
						10				Silty SAND, gray-black, 15-20% silt, coarse to fine sand, with brick and wood debris
			Sat	1.0	1	1				
						11				
						12				
			Moist	1.2	1	3				
						13			ML	Clayey SILT; green-gray, with trace fine sand, stiff, damp
						14				
			Sat	0.4	7	6				
						15			GP/SW	Gravelly SAND; black-gray, coarse to medium sand
			Sat	0.5	2	1				
						16				
			Sat	1.5	1	1			SM	Silty SAND; green-gray, 20% silt, coarse to fine sand, few 1/2"-1" gravels
						17				
						18				
						19				
			Sat	0.3	3	3				
						20				(As above)
						21				
						22				
										BOTTOM OF HOLE @ 20'

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-81
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/14/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION 26.21	NORTHING 232055.9	EASTING 1269588.3
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Grass
Bent.						2			Air-knifed/vac-cleared to 5'
						3			
						4			
						5		SW	SAND; brown, coarse to fine, angular, trace pebbles, with wood debris
			Moist	1.0	2	5			
						6			
						7			(As above, grades gray)
			Wet	0.2	1	7			
						8			
						9		ML	Clayey SILT; gray, with brick, stiff
			Moist	1.0	1	9			
						10			
						11			
						12			SILT; gray, coarse to fine, with gravel, pebbles and wood debris
			Sat	0.9	1	12			
						13			
			Sat	1.0	2	13			
						14			
						15		SW	Gravelly SAND; very coarse to medium sand, with brick and wood, trace silt
			Sat	0.9	2	15			
						16			
			Sat	1.1	3	16			
						17			
			Sat	0.7	2	17			
						18			
						19			
						20			
						21			BOTTOM OF HOLE @ 20'
						22			

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-82
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/14/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 18'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION 23.70	NORTHING 231760.7	EASTING 1269537.6
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing					Recovery	Interval		
									Concrete (6")
					1				
					2				Air-knifed/vac-cleared to 5'
					3				
					4				
					5			SP	SAND; gray, fine to medium
		Moist	2,000	4	6				
				2	7				(As above)
			1,795	4	8				
				7	9				
			940	2	10			Wood	SAND; gray, fine to medium, with <20% peat/organics/ wood fragments at bottom of sample interval
		Sat		5	11				Wood fragments with Sand
			105	4	12				
				7	13				Wood fragments
			145	16	14				
				4	15				Wood fragments with sand and sawdust
			133	6	16				
				8	17				Sawdust
			51	2	18			SP	SAND; salt & pepper
			23.7	4	19			Wood	Wood fragments and sawdust
				10	20			SP	SAND; salt & pepper
				7	21				(grades finer sand and gray in color)
				50/6"	22				SAND; gray, fine
					23				
					24				
					25				
					26				
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BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-84	
LOGGED BY: K.Johnson/B.Hogenson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/17/2005	Location Map See Figure 2	
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"		
SAMPLING METHOD: SS	HOLE DEPTH: 20'		
CASING TYPE: PVC	WELL DIAMETER: 2"		
SLOT SIZE: 0.010"	WELL DEPTH: 20'		
GRAVEL PACK: 10-20	CASING STICKUP: 0		
ELEVATION 28.51		NORTHING 231756.8	EASTING 1269309.9

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc.						1				Asphalt/Concrete (12")
Bent.						2				Air-knived/vac-cleared to 5'
						3				
						4				
			Damp	13.6	2	5			ML	Sandy Clayey SILT; grey mottled with some brown, soft
					2	6				
					3	7				
		▽	Damp	19.6	2	8			SM	Silty SAND; gray, medium, firm, some 1"-2" rounded gravel
					3	9				
					3	10				
			Moist	11.1	2	11				
					2	12				
			Moist	11.5	2	13			ML	Sandy SILT; gray, some 1/2" pebbles, firm
					2	14				Clayey SILT; gray, some sand, firm
			Moist	10.3	2	15				(As above, with wood chips)
					3	16				
			Moist	9.4	5	17				
		▽	Sat	9.5	8	18			GP	Sandy GRAVEL; 1"-2" gravel, medium sand, some silt
					9	19				
					11	20				
					7	21				
					14	22				
					20					BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-85
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/17/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION	NORTHING	EASTING
28.29	231813.2	1269298.8

Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing					Recovery	Interval		
					1				Asphalt/Concrete (~18")
					2				Air-knifed/vac-cleared to 5'
					3				
					4				
					5				
			8.5	4	6			SP	SAND and CLAY; gray, fine sand, with wood fragments
				12	7				
			10.6	2	8				SAND; gray, fine, with Clay
				4	9			CL	CLAY; gray, with fine sand
		Moist	9.2	2	10				
				5	11			SC	(grading more moist with more fine sand)
			6.6	3	12				
		Moist	8.3	5	13				
				9	14				
		Wet	6.8	8	15				SAND with CLAY; salt & pepper
				8	16				(As above, saturated)
		Sat	7.8	7	17				(As above with wood fragments)
				8	18				
			8.2	4	19				(As above, increasing clay)
				4	20			CL	CLAY; gray, with trace sand and wood fragments
			7.3	8	21				
				8	22				
			6.8	6					BOTTOM OF HOLE @ 20'
				5					

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1 CLIENT: ConocoPhillips BORING/WELL NO: MW-86
 LOGGED BY: K.Johnson/B.Hogenson LOCATION: 600 Westlake Ave N, Seattle, WA PAGE 1 OF 1
 DRILLER: Cascade Drilling, Inc. DATE DRILLED: 10/17/2005 Location Map
 DRILLING METHOD: HSA HOLE DIAMETER: 8.5"
 SAMPLING METHOD: SS HOLE DEPTH: 20'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010" WELL DEPTH: 20'
 GRAVEL PACK: 10-20 CASING STICKUP: 0

See Figure 2

ELEVATION 27.55 NORTHING 231852.5 EASTING 1269416.4

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
									Concrete (14")	
						1				
						2			Air-knifed/vac-cleared to 5'	
						3				
						4				
			Dry	59.3	3	5		SM	Silty SAND; gray, fine to medium, firm	
					3	6				
					3	7				
			Damp	41.7	2	8		ML	Sandy SILT; gray, fine sand, firm, damp	
					2	9				
			Moist	32.5	2	10		SM	Silty SAND; fine, soft, moist	
					2	11				
			Sat	39.7	3	12			(As above, saturated)	
					4	13				
					5	14			(As above, grades to medium sand)	
					2	15				
					2	16			(As above)	
					2	17			(As above)	
					2	18			(As above)	
					2	19			(As above)	
					2	20			(As above)	
					1	21				
					2	22				
									BOTTOM OF HOLE @ 20'	

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-87
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/17/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION 26.74	NORTHING 231849.9	EASTING 1269501.9
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc						1				Concrete (14")
Bent.						2				Air-knifed/vac-cleared to 5'
						3				
						4				
						5			SC	SAND; gray, fine, with clay
				11.6	5	5				
					7	6				
					5	7				(As above)
			Moist		5	7				
					2	8				
			Wet		1	9				(As above, increasing clay)
				15.6	2	9				
					6	10				
			Wet	7.5	9	10				
					9	11				
					5	11				
				10.9	5	12		Wood		Sawdust
					6	12				
					5	13				(As above)
				11.1	9	13				
					10	14				
					2	14				
				10.2	6	15				(As above)
					11	15				
					6	16				
				8.5	12	16				
					16	16				
					6	17		SP		SAND; gray, fine, with pebbles
				7.1	9	17				
					13	18				
					6	19				
				7.3	8	19				SAND; gray, fine, with sawdust and gravel
					8	20				
						21				BOTTOM OF HOLE @ 20'
						22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1 CLIENT: ConocoPhillips BORING/WELL NO: MW-88
 LOGGED BY: M. Smith/L. Brock LOCATION: 600 Westlake Ave N, Seattle, WA PAGE 1 OF 1
 DRILLER: CDI DATE DRILLED: 10/17/2005 Location Map
 DRILLING METHOD: HSA HOLE DIAMETER: 8.5"
 SAMPLING METHOD: SS HOLE DEPTH: 20'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010" WELL DEPTH: 20'
 GRAVEL PACK: 10-20 CASING STICKUP: 0

See Figure 2

ELEVATION 27.28 NORTHING 231832.3 EASTING 1269554.4

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt/Concrete (16")
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
						5			SC	SAND with Clay; salt & pepper sand, fine
				20.5	4	6				CLAY with Sand; gray, fine sand
					6	7			SP	SAND; salt & pepper, fine
				2,000	7	7				(grades brown in color)
					18	8				(As above, grading trace clay and pebbles)
			Moist		10	9				
				1,530	10	10				SAND; brown mixed with salt & pepper sand, trace clay
					4	11				(As above)
			Wet		6	12				
				273	6	13			SC	Clayey SAND; brown mixed with salt & pepper sand
					2	14				
					4	15			SP	SAND; fine, some small gravel
					8	16				(As above, increasing gravel)
				20.4	8	17				
					11	18				SAND and GRAVEL; fine gravel
					6	19				
				11.4	6	20				SAND; salt & pepper, trace gravel
					9	21				
				12.8	9	22				
					2					
				7.3	3					
					5					
										BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1 CLIENT: ConocoPhillips BORING/WELL NO: MW-89
 LOGGED BY: K.Johnson/B.Hogenson LOCATION: 600 Westlake Ave N, Seattle, WA PAGE 1 OF 1
 DRILLER: Cascade Drilling, Inc. DATE DRILLED: 10/18/2005 Location Map
 DRILLING METHOD: HSA HOLE DIAMETER: 8.5"
 SAMPLING METHOD: SS HOLE DEPTH: 19.5'
 CASING TYPE: PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010" WELL DEPTH: 18"
 GRAVEL PACK: 10-20 CASING STICKUP: 0

See Figure 2

ELEVATION 23.02 NORTHING 231666.1 EASTING 1269468.1

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Concrete (7")
Berrt.						2			Air-knifed/vac-cleared to 5'
						3			
						4			
		▽	Sat	10.2	1	5		SM	Silty SAND; some clay, some wood debris, saturated
					2	6			
					1	7			
				27.8	2	8		Wood	Wood debris (large)
					2	9			
				9.2	4	10			(Refusal of spoon due to wood debris)
					50/4"	11			(Drilling to 12' for next sample interval)
					50/1"	12			(Wood, poor recovery)
			Wet	15.5	12	13			
					6	14			
					6	15			
					9	16		CL	Silty CLAY; gray, firm
					4	17			
			Sat	8.5	7	18			
					4	19		SM	Silty SAND; medium, firm
			Sat	8.9	6	20			
					11	21			
				7.1	4	22			
					9				BOTTOM OF HOLE @ 19.5'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-90
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/18/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 18'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION	NORTHING	EASTING
22.90	231737.2	1269498.0

Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
Conc.					1			Concrete (~6")
Bent.					2			Air-knifed/vac-cleared to 5'
					3			
					4			
					5			
			903	1	5	CL	CLAY with SAND; gray	
				1	6	Wood	Wood fragments and debris	
				5	6			
				1	7	SC	SAND and CLAY; gray, with wood fragments	
			224	2	7			
				1	8	Wood	Wood fragments and sawdust	
				0	8			
			75.0	2	9			
					10		Sawdust and gravel	
					11			
				3	11			
			67.8	3	12	SP	SAND; salt & pepper, fine to medium	
				3	12			
				5	13		SAND with Gravel; salt & pepper	
			68.9	4	13			
				4	14		(As above, grading less gravel)	
				50/6"	14			
			72.4		15			
				36/6"	16		(As above, with some wood fragments)	
			50		16			
				17	17		SAND; salt & pepper	
			47.2	30	18		(As above, grades to gray with increasing silt)	
				32	18			
				19	19		(As above)	
			50	23	19			
				29	20			
					21			BOTTOM OF HOLE @ 20'
					22			

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-91	
LOGGED BY: K.Johnson/B.Hogenson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/18/2005	Location Map See Figure 2	
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"		
SAMPLING METHOD: SS	HOLE DEPTH: 18.5'		
CASING TYPE: PVC	WELL DIAMETER: 2"		
SLOT SIZE: 0.010"	WELL DEPTH: 18'		
GRAVEL PACK: 10-20	CASING STICKUP: 0		
ELEVATION 23.13		NORTHING 231688.6	EASTING 1269494.3

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
									Concrete (6")
						1			Air-knifed/vac-cleared to 5'
						2			
						3			
						4			
		▽				5		ML	Clayey SILT; gray, with black wood debris, some sand, soft
			Sat	12.1	3	6			
					1	7		SM	Silty SAND; fine to medium, soft, saturated
			Sat	11.4	3	8			
					4	9		SP	SAND; medium to coarse, trace silt, increasing wood debris (chips)
				12.2	3	10		Wood	(Lower half of split-spoon is wood chips)
					2	11			
				11.8	3	12			Wood Chips
					4	13			
				7.7	5	14			(As above)
					1	15		SM	Silty SAND; gray to brown, fine to medium, firm
				10.1	2	16			(As above, mostly fine)
					3	17			
				9.8	6	18			
					7	19			BOTTOM OF HOLE @ 18.5'
				10.1	7	20			
					7	21			
				9.5	8	22			
					9				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-92
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/18/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION	NORTHING	EASTING
28.98	231777.7	1269364.4

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc.						1				Asphalt (~3")
Brick						2				Air-knifed/vac-cleared to 5'
						3				
						4				
						5			SP	Pebbly SAND; yellow-brown, medium, trace fines, firm, damp
			Damp	9.8	4	9				
						12				
				11.8	14	15				
					16	8				
				11.4	8	8				
					8	9				
			Moist	23.5	4	10				(As above, grades medium to coarse)
					5	11				(As above, with brick)
					50/4"	12				
			Sat	1,500	4	13				(As above, with brick and wood debris)
					8	14				
				826	5	15				SAND; gray, coarse, with fine pebbles
			Sat		6	16			SM	Silty SAND; gray, fine sand, soft
				42.5	2	17				
					1	18				
					2	19				(As above, grades fine to medium sand)
				34.3	1	20			CL	Silty CLAY; brown-gray, firm
					1	21				
				33.0	2	22				
					8				Wood	Wood Chips
					8				SP	SAND; gray, fine, trace silt
				23.4	6					
					4					
					4					
										BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-93
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/18/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 18'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	


ELEVATION 25.74	NORTHING 231803.6	EASTING 1269463.3
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt/Concrete (~6")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
						5			ML	SILT with Clay; gray
		▽	Wet	282	3	5				
					2	6				
					2	7			ML-CL	(grading more clay with some wood and pebbles)
				87	2	7				
					4	8				
					4	9				(2" organic layer at 9', brown, grades to salt & pepper sand)
				95	2	9				
					4	10			SP	SAND; gray and salt & pepper, trace wood fragments
					3	10				
					7	11				(As above, wet)
			Wet		5	11				
					10	12				
					10	12				
					4	13			SC	Clayey SAND; with wood fragments
				9.4	6	13				
					9	14			SP	SAND; salt & pepper, with wood
					4	14				
				8.3	4	15				
					4	15				
					4	16			Wood	Wood fragments
				8.8		16				
						17				(No recovery, wood in augers)
						18				
						19				Wood chips and Sand
				7.3		19				
						20				
						21				BOTTOM OF HOLE @ 20'
						22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-94
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/18/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 18'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	
ELEVATION 21.90	NORTHING 231762.0	EASTING 1269478.3

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill	Casing									
Conc.			Wet Sat			1			Concrete (~6")	
Bent.								2		Air-knifed/vac-cleared to 5'
								3		
								4		
								5	GP	Sandy GRAVEL; with wood fragments
					65	3	3	6		
						2	4	7	SP-SC	SAND with Clay and Gravel; with wood fragments
					55	6	6	8		(As above)
						1	3	9	Wood	Wood fragments
						3	3	10		
					44	2	3	11		Sawdust
						4	4	12		
					25	2	3	13		(As above)
						3	14	14	SM	Silty SAND; gray, fine, with sawdust
					17	3	6	15		
						20	7	16	Wood	Sawdust
						9	9	17	ML	SILT; fine
					11	3	23	18	Wood	Sawdust
						2	8	19	ML	SILT
					12			20	SM	Silty SAND; fine
						7		21	ML	SILT
					23			22	SM	Silty SAND; fine
						23		BOTTOM OF HOLE @ 20'		

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-95
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/19/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 18'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 18'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION 31.99	NORTHING 231351.1	EASTING 1269300.3
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc						1			Asphalt/Concrete (16')
Bent.						2			Air-knifed/vac-cleared to 5'
						3			
						4			
			Dry	18		5		SP	SAND; fine, soft
				15		6			
				2	23	7			(As above)
				2.3	30	8			
					31	9			(As above, grades gray, with some pebbles)
				17		10			
				2.8		11			(As above)
			Moist	0.1	4	12			(As above)
					8	13			(As above, with some wood debris, some silt)
					8	14			
				5		15		SM	Silty SAND; gray, soft
			Wet	0	5	16			
					8	17			(Wood plugged catcher)
				0.1	5	18			
					7	19			BOTTOM OF HOLE @ 18'
					8	20			
						21			
						22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-96
LOGGED BY: M. Smith/L. Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/19/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION 24.98	NORTHING 231776.6	EASTING 1269443.6
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Concrete (~6")
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
						5			CL	CLAY, gray with wood fragments
			40	3		6				
				9		7				Silty CLAY; gray to tan
			150	5		8			SP-SC	SAND; gray, fine, with clay and gravel
				4		9				
		▽	Wet	137		10			SC	SAND and CLAY; gray, with gravel, trace wood (Brown liquid present at 10')
			Sat	4		11			Wood	Wood fragments
			Wet	34		12				
						13			SP	SAND with Gravel; with wood fragments
				28		14				(As above)
				21		15				(As above, poor recovery)
						16				(No recovery)
						17				
						18				
						19			SP	SAND; gray to salt & pepper, fine
				15	23	20				
					60/6"	21				BOTTOM OF HOLE @ 20'
						22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-97
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/19/2005	Location Map See Figure 2
DRILLING METHOD HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD OCS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION 30.35	NORTHING 231488.9	EASTING 1269306.9
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Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
Concrete					1			Concrete (16")
Bent.					2			Air-knifed/vac-cleared to 5'
					3			
					4			
					5			
		Damp	11	50/4"	5		SM	Silty SAND; gray, some gravel, soft, damp
					6			
					7			
					8			
					9			(As above with some wood debris)
		Moist	38	50/4"	8		SP	SAND; gray, some silt, soft
					10			
		Wet	29	50/4"	11			(As above)
					12			
					13			
					14			
					15			(As above, grades blackish, with wood debris)
					16		Wood	
					17			(No recovery, catcher plugged by wood)
					18			
					19			(No recovery, catcher plugged by wood)
					20			(Hammered through wood)
					21			BOTTOM OF HOLE @ 20'
					22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-99
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/20/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION 29.34	NORTHING 231666.6	EASTING 1269309.4
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Concrete (14")
Bent.						2			Air-knived/vac-cleared to 5'
						3			
						4			
						5			
			Damp	0	6	6		SM	Silty SAND; gray-brown, fine, firm, damp
			Moist	0	8	8		ML	Sandy SILT; brown-gray, some pebbles, firm, moist
			Moist	0	13	13		SP	SAND; green-gray, fine, firm, moist
				1,790	10	10			
		▽	Sat		13	13			(As above, saturated)
				54	3	3			
					3	3			
			Wet	7.2	14	14		GP	Sandy GRAVEL; gray, wet
					8	8			
				2.3	13	13		GM	Silty GRAVEL; some wood debris
					13	13			
					15	15		ML	Gravelly SILT; some fine sand, wood debris
				0	10	10			
					11	11			
					11	11			
				0	4	4		SM	Silty SAND; fine, wood debris
					5	5			
					5	5			
				0.1	12	12			(As above)
					8	8			
					8	8			
				0	10	10			(As above)
					10	10			
					8	8			
					20	20			BOTTOM OF HOLE @ 20'
					21	21			
					22	22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-200
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/20/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION	NORTHING	EASTING
29.69	231455.8	1269486.6

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc.						1				Concrete (14")
Bent.						2				Air-knifed/vac-cleared to 5'
						3				
						4				
			Dry			5			SP	SAND; gray, some silt, firm
				28.6		10				
						16				
						8				
				64.6		9				(As above)
						11				
						6				
				165		7				(As above)
						9				
			Moist-Wet			4			SM	Silty SAND; gray, firm, moist to wet
				23.8		4				
						4				(As above)
				16.8		5				
						6			Wood -PT	Wood debris with PEAT
						10				
				12.9		13				(As above)
						15				
						7				
				6.1		13				(As above)
						20				
						17				
				1.0		11				(As above)
						12				
						17				
				0.6		50-2"				
			Wet			18			ML	SILT; brown, dense, wet
						23			SP	SAND; brown-gray, some silt, dense
				0		19				
						24				
						25				
						20				
						21				BOTTOM OF HOLE @ 20'
						22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-201	
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: CDI	DATE DRILLED: 10/20/2005	Location Map See Figure 2	
DRILLING METHOD: HSA	HOLE DIAMETER: 8.25"		
SAMPLING METHOD: SS	HOLE DEPTH: 16'		
CASING TYPE: PVC	WELL DIAMETER: 2"		
SLOT SIZE: 0.010"	WELL DEPTH: 15.5'		
GRAVEL PACK: 10-20	CASING STICKUP: 0		
ELEVATION 29.32		NORTHING 231454.0	EASTING 1269551.8

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Concrete (14")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
						5				
			Dry	7.7	10	5			SP	SAND; gray, some silt, dense, dry
					23	6				
					30	7				(As above)
				9.8	12	8				(As above)
					16	9				(As above)
					17	10				(As above)
				12.0	5	11				(As above)
					7	12				(As above)
					8	13				(As above)
				12.8	8	14				(As above)
					9	15				(As above)
			Sat	10.2	10	16				(As above)
					15	17				(As above)
					16	18				(As above)
				10.2	13	19			Wood	Wood debris
					50/6"	20				(As above)
					50/3"	21				(Refusal at 16' due to wood debris)
						22				BOTTOM OF HOLE @ 16'

Delta

**Environmental
Consultants, Inc.**

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-202	
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: CDI	DATE DRILLED: 10/20/2005	Location Map See Figure 2	
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"		
SAMPLING METHOD: SS	HOLE DEPTH: 20'		
CASING TYPE: PVC	WELL DIAMETER: 2"		
SLOT SIZE: 0.010"	WELL DEPTH: 20'		
GRAVEL PACK: 10-20	CASING STICKUP: 0		
ELEVATION 30.55		NORTHING 231465.2	EASTING 1269635.2

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc.						1				Concrete (~20") sidewalk
Bent.						2				
						3				Air-knifed/vac-cleared to 5'
						4				
						5				
			Dry	4.3	10	6			SP	SAND; gray-brown, some silt, soft
					31	7				(As above, grades to yellow-brown, firm)
				5.2	10	8				
			Damp		12	9				(As above, damp)
				5.3	5	10				
					7	11				
					7	12				
			Moist	38	6	13				
					12	14				
					15	15				(As above, moist)
			Wet	0	21	16				
					23	17				
					23	18				SAND; gray, firm
					6	19				
				0	9	20				
					10	21				
					15	22				
				0	16				PT	Peat
					8	4				
						5				(As above, with wood debris)
						6				
						50/4"				
				0		17				
						18				
						19				(As above, no wood debris)
				0	10	20				
					11	21				
					13	22				
										BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-203
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/21/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION 26.63	NORTHING 231924.1	EASTING 1269640.0
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Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Concrete					1			Gravel (parking lot)
Casing Bent.					2			Air-knifed/vac-cleared to 5'
					3			
					4			
		Dry	0	4	5		SP	SAND; gray, fine, with silt and shells, soft
				5	5			
				6	6			
			0	4	7			
				5	8			
	▽	Wet	0	4	9		GP	Sandy GRAVEL; (possibly pulverized brick), yellow, soft, wet
		Wet	0	4	10		SP	Gravelly SAND; gray, with some shells, soft, wet
				4	11			(As above, grades dark gray, 30% shells)
			0	3	12			(As above, with shells and fine sand)
				6	13			(As above, with shells and fine sand)
			0	4	14			(As above, with shells and fine sand)
				8	15			(Poor recovery/no sample)
			0	10	16			(No recovery)
				4	17			(No recovery)
			0	3	18			(No recovery)
				2	19			(No recovery)
			0	9	20			(No recovery)
				10	21			BOTTOM OF HOLE @ 20'
				7	22			

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-204
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/21/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 10-20	CASING STICKUP: 0	

ELEVATION 28.13	NORTHING 231872.5	EASTING 1269363.1
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Asphalt/Concrete (~12")
Bent.						2			Air-knifed/vac-cleared to 5'
						3			
						4			
						5			(No recovery)
					3	5			
					5	5			
			Damp	2,000	5	6		SP	Gravelly SAND; gray, firm, damp
					6	6			
			Damp-Moist	1,615	4	8		ML	Sandy SILT; gray, some gravel, firm, damp to moist
					4	4			
					4	4			
			Wet	350	5	10			
					4	4			(As above, wet)
					3	11			(No recovery)
					4	1			
				81.5	1	12			
					2	2			
						1			
				34.8	1	13			
					3	3			
					3	14			
					1	15			(Poor recovery, no sample)
				0	2	3			
					3	16			
			Wet	0	4	3		SM	Silty SAND; gray, soft, wet
					3	3			
					3	17			
					3	18			
					3	19			
				0	3	5			
					6	20			
						21			BOTTOM OF HOLE @ 20'
						22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-205
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/24/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION	NORTHING	EASTING
28.08	231784.9	1269335.2

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc						1			Concrete (20") sidewalk
Bentonite						2			Air-knifed/vac-cleared to 5'
						3			
						4			
		▽	Wet	0	4	5		ML	Sandy SILT; gray-brown, fine to coarse sand, with fine to medium gravel, trace wood fragments, loose, wet
			Wet	300	3	6			(As above, with gravel)
			Moist	850	4	7			(Grades to gray silty sand at 7.75')
			Moist	1,150	7	10		SM	Silty SAND; gray, with fine to coarse gravel, trace clay, loose, moist
			Wet	13	5	8			(As above)
			Wet	47	6	9			(As above, with wood fragments)
			Wet	2.5	10	12		SW	SAND; fine to coarse, with trace silt and fine gravel
			Wet	63	8	11			(As above)
			Wet		3	12			SAND; gray, fine to medium, trace silt, loose
			Wet		3	13		SP	Sandy SILT; dark gray, fine, loose, wet
					20	14			
					12	15			
					9	16			
					14	17			
					14	18			
					14	19			
					7	20			
					9	21			
					15	22			
									BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-206
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/24/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION 31.54	NORTHING 231423.0	EASTING 1269226.9
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc						1			Asphalt/Concrete (12")
Bent.						2			Air-knifed/vac-cleared to 5'
						3			
						4			
			Moist	1.5	50/6"	5		SM	Silty SAND; dark gray, sand fine to medium, with fine to coarse gravel and shell fragments, dense, moist
						6			
			Moist	5.4		7			(As above, with clay stringer, cobbles)
						8		SM-CL	Silty SAND; fine to medium, with clay, dense, moist
			Moist	2.3	7	9			
						10			(As above, poor recovery)
			Moist	8.1	14	11			
			Wet	7.4	23	12			(As above, wet)
						13			(As above)
			Wet	8	11	14			
						15		SP	SAND; brown, fine to medium, with wood fragments
			Wet	56	10	16			
						17		PT	PEAT; dark brown, with wood fragments, thin silty sand lenses, very stiff
			Wet	6.2	18	18			
						19			(Poor recovery, wood debris and peat)
			Wet	4.9	30	20			Wood and Peat; dark reddish-brown, wet
						21			BOTTOM OF HOLE @ 20'
			Wet		50/6"	22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-207
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: CDI	DATE DRILLED: 10/24/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010"	WELL DEPTH: 20'	
GRAVEL PACK: 2-12	CASING STICKUP: 0	

ELEVATION	NORTHING	EASTING
30.65	231383.3	1269623.7

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc						1			Asphalt/Concrete (14")
Bent.						2			Air-knifed/vac-cleared to 5'
						3			
						4			
						5			
			Moist	11.5	8	5		SP-SM	SAND; gray, fine to medium, trace silt, loose, moist
					8	6			
			Moist	7.6	13	6			(As above)
					6	7			
			Moist	9.3	10	8			(As above)
					10	8			
			Moist	2.2	15	9			(As above)
					18	9			
			Moist	0	7	10			(As above)
					11	10			
			Wet	0	12	11			(As above, wet)
					14	12			
			Wet	0	20	12			(As above)
					20	13			
			Wet	0	29	13			(As above, grades to peat and wood debris at 14.75')
					30	14			
			Wet	0	5	15		PT/Wood	Peat and wood debris
					19	15			
			Wet	0	8	16			(Large wood debris at 16')
					50/6"	16			Wood fragments; loose, wet
			Wet	0	50/3"	17			(As above, with trace sand and fine gravel, loose)
						17			
			Wet	0	50/2"	18			Wood debris and Silt; poor recovery
						18			
			Wet	0		19			
						19			
						20			
						20			BOTTOM OF HOLE @ 20'
						21			
						22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: MW-208	
LOGGED BY: J. North	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: CDI	DATE DRILLED: 10/25/2005	Location Map See Figure 2	
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"		
SAMPLING METHOD: SS	HOLE DEPTH: 20'		
CASING TYPE: PVC	WELL DIAMETER: 2"		
SLOT SIZE: 0.010"	WELL DEPTH: 20'		
GRAVEL PACK: 2-12	CASING STICKUP: 0		
ELEVATION 30.28		NORTHING 231464.4	EASTING 1269312.1

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc						1			Asphalt/Concrete (14")
Bent.						2			Air-knifed/vac-cleared to 5'
						3			
						4			
						5		SM	Silty SAND; blue-gray, fine to coarse sand, with fine gravel, dense, stiff, moist
			Moist 11.2	11.2	6	5			
					12	6			
			Moist 17.2	17.2	5	7			
					5	5			
			Moist 44.7	44.7	6	8		SP-SM	SAND with Silt; fine to medium sand, trace fine to medium gravel, loose, moist
					5	9			(As above, grades no gravel)
					6	10			Wood fragments; dark brown, loose, moist
			Moist 2,000	2,000	10	11		Wood	
					14	12			(Wood debris with 2" silt stringer)
					10	13			
					12	14			
					15	15			
					16	16			
			Wet 42.5	42.5	29	13		PT	PEAT; with sand stringers, loose, moist to wet (As above, with wood fragments)
					7	14			
			Wet 1.9	1.9	8	15			
					20	16			
					13	17		Wood	Wood
			Wet 22.3	22.3	50/6"	16			(Drilling through wood, unable to sample)
						17			
						18			
			Wet 7.3	7.3	8	19		PT	PEAT; dark reddish-brown, with wood fragments, dense
					16	20			
					16	21			
						22			
									BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-24
LOGGED BY: M. Smith/L.Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/13/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION

NORTHING

EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc.						1				Asphalt/Concrete (~12")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
			Moist	0	3	5			SP	SAND; brown to gray, fine to medium, with pebbles, moist
					3	6				
			Moist	0	2	7				(As above)
					2	8				
				0	1	9				SAND; gray, fine, with increasing clay
					1	10				
			Moist	2,000	2	11				SAND; gray to tan, fine to medium, moist
					3	12				(As above, grades to salt & pepper)
			Wet	860	3	13				(As above, brown-gray, wet)
					3	14				
				140	3	15				(As above, with wood fragments)
					5	16				
				144	3	17				SAND, salt & pepper, fine, angular
					3	18				
			Sat	64	6	19				(As above, fine to medium, saturated)
					9	20				
				0	2	21				(As above, with wood fragments)
					4	22				
				0	6					(As above)
					10					
										BOTTOM OF HOLE @ 20'

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1 CLIENT: ConocoPhillips BORING/WELL NO: SB-25
 LOGGED BY: B. Pletcher LOCATION: 600 Westlake Ave N, Seattle, WA PAGE 1 OF 1
 DRILLER: Cascade Drilling, Inc. DATE DRILLED: 10/13/2005 Location Map
 DRILLING METHOD: HSA HOLE DIAMETER: 8.5"
 SAMPLING METHOD: SS HOLE DEPTH: 20'
 CASING TYPE: NA WELL DIAMETER: NA
 SLOT SIZE: NA WELL DEPTH: NA
 GRAVEL PACK: NA CASING STICKUP: NA

See Figure 2

ELEVATION 30.3 NORTHING 231638.6 EASTING 1269294.0

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
										Asphalt/Concrete (~18")
						1				
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
			Dry			5		SW		SAND; gray, coarse to fine
				1.2		6				
					3	7				(As above)
				1.0	2	8				
			Moist		1	9				
				0.7	3	10		ML		Silty CLAY; gray, with pebbles
					3	11				(As above)
			Wet		2	12		SM		Silty SAND; coarse to fine, with silt
				0.6	3	13				(As above with 2" cobble)
					2	14		ML		(As above, increased silt)
			Moist		1	15		SM		SAND; gray, medium to fine, with silt
				0.5	2	16				(As above, few gravels)
			Sat		2	17				(As above, wood debris, some gravel)
				1.0	2	18				
			Sat		4	19				
				0.5	2	20		Wood		Wood
			Sat		3	21				BOTTOM OF HOLE @ 20'
				0.6	1	22				
			Sat		11					
				0.8	12					
					12					

Conc.
BENTONITE



Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-26
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/13/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION 29.9	NORTHING 231696.1	EASTING 1269295.1
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Asphalt/Concret (18")
						2			Air-knived/vac-cleared to 5'
						3			
						4			
			Moist	0.5	1	5		SM	Silty SAND; greenish-gray, fine
					4	6			(As above, 2" cobble)
					5	7			(As above, wood debris)
			Moist	1.9	4	8		ML	Clayey SILT; gray-green
					2	9			
					3	10			
			Moist	6.7	1	11			
			Wet	1.7	1	12		SM	Silty SAND; coarse to fine
			Sat	1.0	2	13			
					2	14		ML	Clayey SILT; green-gray, with wood debris
			Sat	1.0	2	15		SW	SAND; gray, medium to fine, some silt, with rounded pebbles
					1	16			
					1	17			(As above, with 1" rounded gravel)
					1	18			
					1	19			(As above, with some wood debris)
			Sat	1.6	3	20			
					2	21			BOTTOM OF HOLE @ 20'
					1	22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-27/MW-83	
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: CDI	DATE DRILLED: 10/14/2005	Location Map See Figure 2	
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"		
SAMPLING METHOD: SS	HOLE DEPTH: 20'		
CASING TYPE: PVC	WELL DIAMETER: 2"		
SLOT SIZE: 0.010"	WELL DEPTH: 18'		
GRAVEL PACK: 2-12	CASING STICKUP: 0		
ELEVATION 23.63		NORTHING 231668.2	EASTING 1269390.9

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Concrete (8")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
			Wet	860	2	5		SM		Silty SAND; gray, medium to fine sand, 20% silt, few gravels
			Wet	705	1	6				
					2	7				
			Sat	20	2	8		SW-SM		
					6	9				(As above, with wood debris)
			Sat	11	3	10		Wood		Wood with coarse to fine sand, poor recovery
			Sat	62	2	11				(As above, increasing wood, poor recovery)
			Sat	10	1	12				
					3	13		ML		Clayey SILT; green, few pebbles, with wood debris, soft
			Sat	13	5	14				
					4	15				(As above)
					2	16				(As above)
					2	17				(As above)
			Wet	3.0	1	18				(As above, no wood debris)
			Sat	0.5	3	19		SM		Clayey SILT; green, with fine sand, stiff, wet
					4	20				Silty SAND; gray, medium to fine
					2	21				BOTTOM OF HOLE @ 20'
					6	22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-28
LOGGED BY: M. Smith/L.Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/14/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION 24.6	NORTHING 231816.9	EASTING 1269534.5
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Conc.						1				Concrete (6")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
						5				
				*	2	5			SP	
					2	6				Gravelly SAND; gray
					3	6				
			Wet		2	7				(As above, wet)
					3	7				
					6	8				SAND; black, mud with sheen, may be inorganic, more metallic
					2	8				
					2	9				
					4	9				SAND; gray to salt & pepper
					2	10				
					2	10				
					4	11				(As above)
					1	11				
					1	12				
					1	12				
					1	13				SAND; gray, fine to medium
					1	13				
					2	14				
					9	14				SAND; salt & pepper, fine
					12	15				
					12	15				(As above with some clay)
					8	16				
					8	16				
					7	17				(As above with sawdust)
					9	17				
					11	18				SAND; salt & pepper, fine
					14	18				
					10	19				(As above, <20% wood fragments)
					7	19				
					7	20				
						21				BOTTOM OF HOLE @ 20'
						22				* PID malfunctioned

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-30	
LOGGED BY: B. Pletcher	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/14/2005	Location Map See Figure 2	
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"		
SAMPLING METHOD: SS	HOLE DEPTH: 20'		
CASING TYPE: NA	WELL DIAMETER: NA		
SLOT SIZE: NA	WELL DEPTH: NA		
GRAVEL PACK: NA	CASING STICKUP: NA		
ELEVATION 23.8		NORTHING 231698.2	EASTING 1269409.7

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Concrete (6")
						2			Air-knived/vac-cleared to 5'
						3			
						4			
			Moist	2,000	2	5		ML	Sandy SILT; green-brown, fine sand, with wood debris
			Moist	0.9	3	6		SM	Silty SAND; dark brown, coarse to fine sand, with wood debris
			Moist	0	1	7			
			Moist	0	2	8			
		▽	Wet	0	3	9			(As above)
			Wet	0	5	10			
			Sat	0	4	11		Wood	Wood
			Sat	392	4	12			(Poor recovery, wood debris)
			Sat	0	3	13			
			Sat	0	2	14			(Poor recovery, wood debris)
			Sat	0	2	15			(No recovery, some wood)
			Sat	0	1	16			Sawdust
			Sat	0	1	17			
			Sat	2.9	4	18			
			Sat	2.9	2	19		SM	Silty SAND; gray, medium to fine, 30-40% silt
			Sat	2.9	1	20			
			Sat	2.9	3	21			BOTTOM OF HOLE @ 20'
			Sat	2.9	3	22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1 CLIENT: ConocoPhillips BORING/WELL NO: SB-31
 LOGGED BY: K.Johnson/B.Hogenson LOCATION: 600 Westlake Ave N, Seattle, WA PAGE 1 OF 1
 DRILLER: Cascade Drilling, Inc. DATE DRILLED: 10/17/2005 Location Map
 DRILLING METHOD: HSA HOLE DIAMETER: 8.5"
 SAMPLING METHOD: SS HOLE DEPTH: 20'
 CASING TYPE: NA WELL DIAMETER: NA
 SLOT SIZE: NA WELL DEPTH: NA
 GRAVEL PACK: NA CASING STICKUP: NA

See Figure 2

ELEVATION 29.1 NORTHING 231777.6 EASTING 1269301.1

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
									Concrete (8")	
						1				
						2				Air-knife/vac-cleared to 5'
						3				
						4				
						5				
			Damp	11.0	2	5		CL	CL	Silty CLAY; gray mottled with some brown, 5-10% sand, few rounded pebbles, firm, damp
					3	6				
					3	7		SC	SC	Clayey SAND; gray, medium sand, firm, damp
			Damp	11.8	3	8				
					3	9				
					1	10				
					1	11				
			Moist	11.6	2	10		SM	SM	Silty SAND; gray, medium to coarse, soft
					1	11				
			Sat	11.9	2	11				
					1	12		Wood	Wood	Wood chips
					1	13		SM	SM	Silty SAND; gray, medium to coarse, soft
					4	14				
					4	15				(As above, with some wood chips)
					1	16				
					1	17				
					1	18				
					2	19				
			Sat	10.6	3	16				
					4	17		GP	GP	Poorly-Graded GRAVEL with Sand; gray, soft, fine gravel
					5	18				
					5	19				
					9	20				
					11	19		GW	GW	Well-Graded GRAVEL with Sand; gray (Gravel up to 2" diameter)
					7	20				
					8	21				
						22				
										BOTTOM OF HOLE @ 20'

Conc.

BENTONITE

SAND

Delta

Environmental
Consultants, Inc.

PROJECT NO:	WA255-3515-1	CLIENT:	ConocoPhillips	BORING/WELL NO:	SB-32
LOGGED BY:	K. Johnson/B. Hogenson	LOCATION:	600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1	
DRILLER:	Cascade Drilling, Inc.	DATE DRILLED:	10/17/2005	Location Map See Figure 2	
DRILLING METHOD:	HSA	HOLE DIAMETER:	8.5"		
SAMPLING METHOD:	SS	HOLE DEPTH:	20'		
CASING TYPE:	NA	WELL DIAMETER:	NA		
SLOT SIZE:	NA	WELL DEPTH:	NA		
GRAVEL PACK:	NA	CASING STICKUP:	NA		

ELEVATION	NORTHING	EASTING
24.0	231780.2	1269517.7

Well Completion		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing							
Cone								Concrete (6")
					1			Air-knifed/vac-cleared to 5'
					2			
					3			
					4			
		Moist	1,216		5		SM	Silty SAND; gray, firm, damp, large wood debris
					6			
		Sat	94.0	2	6			(saturated, increasing wood debris)
				4	7			
				2	8		SW	Gravelly SAND; gray, some silt, trace wood debris, soft
			105		9			
				2	10			(Poor recovery due to rock in split-spoon) (Wood debris)
			35.7	3	11		Wood	Wood debris
				3	12			
			22.2		13			
				2	14			(As above)
				4	15			(As above)
			21.9	6	16			(As above)
				7	17			(As above)
				9	18			(As above)
			17.9	7	19			(As above)
				7	20		ML	SILT; gray, with some fine sand, firm
				8	21			BOTTOM OF HOLE @ 20'
			12.2	8	22			
				8				
			8.8	3				
				3				
		Sat	13.9	11				
				6				
				9				
				16				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-33
LOGGED BY: M. Smith/L.Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/18/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION 23.5	NORTHING 231723.9	EASTING 1269426.1
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Conc.						1			Concrete (6")
						2			Air-knifed/vac-cleared to 5'
						3			
						4			
			Moist	500	1	5		CL	CLAY; gray, stiff, moist
					2	6			
			Moist	300	2	7			Silty CLAY; gray, moist
					5	7			
			Sat	15.6	7	8		Wood	Wood fragments (3")
					19	9		CL	Silty CLAY; gray, wood fragments, saturated
					7	10		Wood	Wood fragments, coarse
					42	11			(As above)
					8	12			(As above)
					10	13			(As above)
					17	14			(As above, with sand)
					21	15			
					23	16		ML	SILT; gray
					13	17			
					19	18		SP	SAND; salt & pepper, fine to medium
					22	19			(As above, becoming silty at 20')
					16	20			
					4	21			BOTTOM OF HOLE @ 20'
					11.3	22			
					11.3	23			
					10.8	24			
					6	25			
					6	26			
					12	27			
						28			
						29			
						30			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1 CLIENT: ConocoPhillips BORING/WELL NO: SB-34
 LOGGED BY: K. Johnson/B. Hogenson LOCATION: 600 Westlake Ave N, Seattle, WA PAGE 1 OF 1
 DRILLER: Cascade Drilling, Inc. DATE DRILLED: 10/18/2005 Location Map
 DRILLING METHOD: HSA HOLE DIAMETER: 8.5"
 SAMPLING METHOD: SS HOLE DEPTH: 20'
 CASING TYPE: NA WELL DIAMETER: NA
 SLOT SIZE: NA WELL DEPTH: NA
 GRAVEL PACK: NA CASING STICKUP: NA

See Figure 2

ELEVATION 23.0 NORTHING 231700.0 EASTING 1269459.4

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
										Concrete (7")
						1				
						2				Air-knived/vac-cleared to 5'
						3				
						4				
		▽	Sat			5		SC/SM		Clayey Silty SAND; fine, soft, saturated
				609	1	1				
					1	6				
					1	1				
					1	4		SM		Silty SAND
				942	4	7		PT		PEAT and Wood debris
					6	6				
					6	8				
				507	7	9		Wood		Wood with brick debris
					6	6				
					1	10				
					1	11				Wood chips
					1	11				
				10.3	1	12				Wood chips
					2	12				
					3	12				
				10.1	1	13				
					1	13				
					1	14				
				8.4	1	14				
					0	15		CL		Silty CLAY; gray, soft
					0	15				
				8.4	6	16		SM		Silty SAND; gray, fine, firm
					7	16				
					4	17				
					3	17		SW		SAND; gray, firm
				7.8	8	18				
					12	18				
					4	19				
				7.4	9	19				
					12	20				
						20				
						21				BOTTOM OF HOLE @ 20'
						21				
						22				

Cont.
BENTONITE

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-35
LOGGED BY: M. Smith/L.Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/18/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION	NORTHING	EASTING
27.9	231824.2	1269444.6

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt/Concrete (~8")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
						5			CL	Silty CLAY; gray, some gravel
			15.6	2	2	6				(As above)
				2	3	7				(As above)
			10.5	2	3	8				CLAY
		▽	Moist Wet Sat	310	2	9			SP	SAND; gray to salt & pepper, fine, moist to wet
					3	10				SAND; gray to salt & pepper, fine, some silt, saturated
				17	16	11				(As above)
				31	17	12				(As above)
				15	5	13			SP-SC	(As above, with clay and wood fragments)
				6.7	6	14				SAND; gray, fine, with clay and wood fragments
			Sat		7	15				(As above)
				6.5	7	16				(As above)
					8	17				Wood
				7.2	9	18				Wood fragments
					11	19				Sawdust and wood fragments
				5.9	9	20				
					7	21				
				7.4	12	22				
					14					BOTTOM OF HOLE @ 20'
					17					

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-36
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/18/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION 29.5	NORTHING 231793.2	EASTING 1269384.3
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Cont.						1			Asphalt (2")
						2			Air-knived/vac-cleared to 5'
						3			
						4			
			Moist	12.2	4	5		SP	SAND; yellow-brown, medium, some pebbles, soft
					2	6			
			Moist	21.3	4	7		CL	Silty CLAY; gray, weathered, firm
			Moist		2	8		SP	SAND; medium to coarse, soft
				642	2	9			(Mixed fill: sand, clay, brick debris)
					2	10			(Poor recovery, fill material, moist)
			Moist		50/6"	11			
			Wet	730	1	12		SM	Silty SAND; fine sand, soft
					1	13			
				225	5	14			(As above with wood debris, poor recovery)
					3	15		Wood	Wood debris; with sand and pebbles
				27.2	3	16		SM	Silty SAND; green-gray, fine, some clay, soft
					1	17			
				12.6	1	18			
					1	19			
				17.8	2	20			
					2	21			
				12.9	1	22			
					1				
					2				
									BOTTOM OF HOLE @ 20'

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-37
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/18/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION 29.8	NORTHING 231753.2	EASTING 1269377.2
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Cont.									Asphalt/Concrete (8")
						1			
						2			Air-knived/vac-cleared to 5'
						3			
						4			
						5			
			Moist	202	1	5			
					1	6		SM	Silty SAND; gray, soft, damp
					2	6			
				740	2	7			
					1	7			(As above)
					2	7			
				1,900	2	8			
					2	8			(As above)
					2	8			
				1,380	1	9			
			Sat		2	9			
					3	9			
					1	10			
					2	10			
					3	10			(As above, saturated)
				1,700	1	11			
					2	11			
					2	11			(As above, grades black in color, oily)
				27	2	12			
					1	12			
					2	12			(As above, grades medium brown)
					2	12			
				24	10	13			
					11	13		Wood	Wood debris
					8	13			
				32	2	14			
					2	14		SM	Silty SAND; gray-brown, soft
					2	14			
					2	14			(As above, grades gray, fine sand)
				28	2	15			
					1	15			
					2	15			
				24	2	16			
					2	16			
					2	16			
					2	16			
					1	17			
					2	17			
					2	17			
				24	2	18			
					2	18			
					2	18			
					2	18			
					2	19			
					2	19			
					2	19			
						20			
						20			
						20			
						20			
						21			BOTTOM OF HOLE @ 20'
						21			
						22			

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-39
LOGGED BY: M. Smith/L.Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/19/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION 29.4	NORTHING 231731.4	EASTING 1269370.9
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt/Concrete (~8")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
						5				
				5	7	7				
			Dry		9	6			SP	Gravelly SAND; brown, fine sand, dry
				2	4	7				
				2	4	8				(As above)
				2	3	9				
					2	10				SAND; gray
			Moist-Wet	0.5	3	10				SAND; gray to salt & pepper, with clay, moist to wet
				1	1	11				
			Wet		3	11				SAND; gray to salt & pepper, some clay, wet
				0.5	3	12				
			Wet		4	12				
				0.5	4	13				SAND; gray, fine, wet
					7	14				
			Sat		2	14				SAND; with wood fragments, saturated
					1	15				
					2	15				
				1.6	7	16				
					2	16				
					3	17			Wood	Sawdust (3")
					2	17				
					1	18				(No recovery)
					1	18				
					10	19			SP	SAND; gray to salt & pepper, fine-grained
				2.1	12	19				
					17	20			CL	CLAY (3")
						20				
						21				BOTTOM OF HOLE @ 20'
						22				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-40
LOGGED BY: M. Smith/L.Brock	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/19/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 21.5'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION 29.0	NORTHING 231699.7	EASTING 1269353.4
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						1				Asphalt (~2")
						2				Air-knived/vac-cleared to 5'
						3				
						4				
						5			SP	SAND; gray, fine, with clay and rubble
				0	10	6				
					12	7			CL	CLAY; gray and brown, stiff
				6	5	8				
				6	6	9				
			Moist		9	4				Silty CLAY; gray, moist
				211	4	4				
			Moist		4	9				CLAY; gray, with silt, moist
				615	7	10				
					7	11				Silty CLAY; gray
			Wet		8	17				
				136	17	26				(As above, some sawdust and organics)
					31	31			Wood	Mixed wood debris and sawdust
				18.7	12	13				
					17	14				Sawdust with SAND
				16	23	14				
					17	15				Sawdust and wood fragments
				16	17	15				
					10	16				
				15	9	16				
					14	17				(No recovery, wood in hole)
				15	10	17				
					11	17				(No recovery, wood in hole)
				1.3	55/6"	18				
						19				
				0		19				
						20				Wood
						21				
						22				BOTTOM OF HOLE @ 21.5'

BENTONITE

Delta

Environmental
Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-41
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/20/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION 29.9	NORTHING 231622.9	EASTING 1269308.2
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Cont.									Concrete (12")
						1			
						2			Air-knifed/vac-cleared to 5'
						3			
						4			
			Dry			5		ML	Sandy SILT; brown, firm, dry
				0	16	6			
					18	7		SP	SAND; brown-gray, fine, trace silt, damp
			Damp	0	10	8			
				0	12	9			(As above)
					12	10			(As above, moist)
			Moist	0	5	11			
					7	12		SM	Silty SAND; fine, firm, moist to wet
			Moist- Wet	64.8	8	13			
				4.5	5	14		ML	Sandy SILT; gray, with some pebbles, dense
					6	15			
					8	16		SW	SAND; gray, fine to medium, with some pebbles, soft
			Sat	0	3	17			(As above)
					3	18			
				0	3	19			(As above, with wood debris)
					3	20			
				0	4	21			BOTTOM OF HOLE @ 20'
					8	22			
				0	10				
					10				

Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3515-1	CLIENT: ConocoPhillips	BORING/WELL NO: SB-42
LOGGED BY: K. Johnson	LOCATION: 600 Westlake Ave N, Seattle, WA	PAGE 1 OF 1
DRILLER: Cascade Drilling, Inc.	DATE DRILLED: 10/21/2005	Location Map See Figure 2
DRILLING METHOD: HSA	HOLE DIAMETER: 8.5"	
SAMPLING METHOD: SS	HOLE DEPTH: 20'	
CASING TYPE: NA	WELL DIAMETER: NA	
SLOT SIZE: NA	WELL DEPTH: NA	
GRAVEL PACK: NA	CASING STICKUP: NA	

ELEVATION 29.4	NORTHING 231800.5	EASTING 1269426.8
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Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Cont.						1				Asphalt (2")
						2				Air-knifed/vac-cleared to 5'
						3				
						4				
						5				
			Damp	16.4	2	5				
					3	6			SM	Silty SAND; yellow-brown, soft, damp
					5	6				
			Damp	23.6	4	7			ML	Sandy SILT; dark gray, firm, damp
					5	7				
					6	7				
						8				
			Moist	8.3	3	9				(As above, dark gray, moist)
					2	9				
					3	9				
						10				
			Wet	450	2	10				
					2	10				
					2	10				
						11			SM	Silty SAND; gray, soft, wet
					3	11				
					3	11				
					3	11				
						12				
					2	12				(As above)
					2	12				
					1	12				
						13				(As above)
					2	13				
					2	13				
					1	13				
						14				(As above)
					1	14				
					2	14				
					1	14				
						15				(As above)
					1	15				
					1	15				
						16				(As above)
					1	16				
					1	16				
						17				(As above)
					1	17				
					1	17				
						18				(As above)
					2	18				
						19				(As above)
					1	19				
					2	19				
						20				
						21				BOTTOM OF HOLE @ 20'
						22				



PROJECT NO: WA255-3531 CLIENT: ConocoPhillips BORING/WELL NO: EFR-1
 LOGGED BY: Matthew Miller LOCATION: Westlake- Terry Ave PAGE 1 OF 1
 DRILLER: Cascade DATE DRILLED: 12/5/2006
 DRILLING METHOD: HAS-Limited Access HOLE DIAMETER: 8"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 16.5'
 CASING TYPE: 2" Sch 40 PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010 WELL DEPTH: 15'
 GRAVEL PACK: 2x12 CASING STICKUP: NA



ELEVATION NORTHING EASTING

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1			Brick Surface
SAND					2			
					3			
					4			
		damp	0	2	5		SM	Silty Sand; dark grayish brown, 20-30% fines, very fine sand, 10% fine to coarse sand, trace gravel and brick debris, loose.
BENTONITE				3	6			
				4	7			
					8			
					9			
		moist	4	2	10		CL	Clay, dark gray, low plasticity, trace very fine sand, trace gravel, firm.
				3	11			
				4	12			
					13			
SAND					14			
	▽				15			
		wet	0	1	16			Wood debris
				1	17			
				1	18			
				1	19			
					20			
					21			
					22			



PROJECT NO: WA255-3531 CLIENT: ConocoPhillips
 LOGGED BY: Matthew Miller LOCATION: Westlake- Terry Ave
 DRILLER: Cascade DATE DRILLED: 12/5/2006
 DRILLING METHOD: HAS-Limited Access HOLE DIAMETER: 8"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 15.5'
 CASING TYPE: 2" Sch 40 PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010 WELL DEPTH: 15'
 GRAVEL PACK: 2x12 CASING STICKUP: NA

BORING/WELL NO: EFR-2
 PAGE 1 OF 1

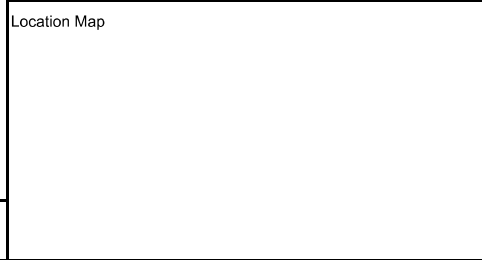
Location Map

ELEVATION NORTHING EASTING

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1			Gravel surface
					2			
					3			
					4			
		damp	0	1	5		CL	Clay, dark gray, high plasticity, trace-10% very fine sand, trace gravel, trace FeO ₂ staining, trace organics (roots), trace brick debris, very soft.
				1	6			
				1	7			
					8			
					9			
		moist	0	3	10		ML	Silt, dark olive gray, moderate, plasticity, clayey, trace-10% very fine to coarse sand, trace gravel, trace organics, stiff.
				4	11			
				7	12			
					13			
					14			
		wet	0		15		ML	Wood debris at 15 feet, very dense.
				50/6	16			
					17			
					18			
					19			
					20			
					21			
					22			



PROJECT NO: WA255-3531 CLIENT: ConocoPhillips
 BORING/WELL NO: EFR-3
 LOGGED BY: Matthew Miller LOCATION: Westlake- Terry Ave
 PAGE 1 OF 1
 DRILLER: Cascade DATE DRILLED: 12/5/2006
 DRILLING METHOD: HAS-Limited Access HOLE DIAMETER: 8"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 16.5'
 CASING TYPE: 2" Sch 40 PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010 WELL DEPTH: 15'
 GRAVEL PACK: 2x12 CASING STICKUP: NA



ELEVATION NORTHING EASTING

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1		ML	Gravel surface
					2			
					3			
					4			
		damp	-	4	5			
				4	6		ML	Sandy silt, light gray, 20% very fine to medium sand, trace gravel, firm
				4	7			
					8			
					9			
		moist	0	2	10			
				2	11		ML	Silt, very dark gray, clayey, moderate plasticity, trace-10% very fine to medium sand, soft
				2	12			
					13			
					14			
		wet	0	2	15			
				2	16		ML	At 15 feet, increasing sand and gravel, abundant wood debris, firm
				3	17			
					18			
					19			
					20			
					21			
					22			



PROJECT NO:	WA255-3531	CLIENT:	ConocoPhillips	BORING/WELL NO:	TSVE-1
LOGGED BY:	Matthew Miller	LOCATION:	Westlake- Terry Ave	PAGE 1 OF 1	
DRILLER:	Cascade	DATE DRILLED:	12/5/2006	Location Map	
DRILLING METHOD:	HAS-Limited Access	HOLE DIAMETER:	8"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	11.5'		
CASING TYPE:	2" Sch 40 PVC	WELL DIAMETER:	2"		
SLOT SIZE:	0.010	WELL DEPTH:	10'		
GRAVEL PACK:	2x12	CASING STICKUP:	NA		

ELEVATION	NORTHING	EASTING
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Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
Backfill Casing									Brick surface
					1				
					2				
					3				
					4				
		damp	0	3	5			SM	Silty sand, dark grayish brown, 20% fines, very fine sand, trace- 5% fine to coarse sand, trace- 5% gravel, caliche, loose
				3	6				
				4	7				
					8				
					9				
		moist	0	4	10			ML	Silt, dark grayish brown, 20-40% very fine to fine sand, trace medium to coarse sand, trace fine gravel, stiff
				5	11				
				8	12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				



PROJECT NO:	WA255-3531	CLIENT:	ConocoPhillips	BORING/WELL NO:	TSVE-2
LOGGED BY:	Matthew Miller	LOCATION:	Westlake- Terry Ave	PAGE 1 OF 1	
DRILLER:	Cascade	DATE DRILLED:	12/5/2006	Location Map	
DRILLING METHOD:	HAS-Limited Access	HOLE DIAMETER:	8"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	11.5'		
CASING TYPE:	2" Sch 40 PVC	WELL DIAMETER:	2"		
SLOT SIZE:	0.010	WELL DEPTH:	10'		
GRAVEL PACK:	2x12	CASING STICKUP:	NA		

ELEVATION	NORTHING	EASTING
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1			Asphalt surface
					2			
					3			
					4			
		moist	0	2	5		SM	Silty sand, dark greenish gray, 20% fines, very fine to fine sand, trace fine to coarse sand, trace fine gravel, loose
				3	6			
				3	6			
					7			
					8			
					9			
		wet	0	3	10		SM	Silty sand, dark greenish gray, 20% fines, very fine to fine sand, trace fine to coarse sand, trace fine gravel, loose
				4	11			
				6	11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			



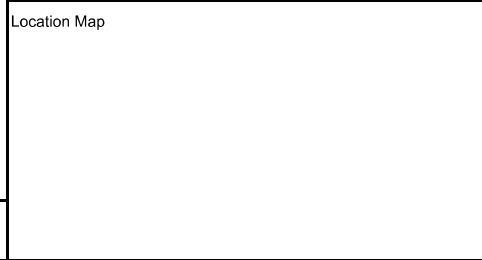
PROJECT NO:	WA255-3531	CLIENT:	ConocoPhillips	BORING/WELL NO:	TSVE-3
LOGGED BY:	Matthew Miller	LOCATION:	Westlake- Terry Ave	PAGE 1 OF 1	
DRILLER:	Cascade	DATE DRILLED:	12/5/2006	Location Map	
DRILLING METHOD:	HAS-Limited Access	HOLE DIAMETER:	8"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	11.5'		
CASING TYPE:	2" Sch 40 PVC	WELL DIAMETER:	2"		
SLOT SIZE:	0.010	WELL DEPTH:	10'		
GRAVEL PACK:	2x12	CASING STICKUP:	NA		

ELEVATION	NORTHING	EASTING
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
									Brick surface
					1				
					2				
					3				
					4				
		damp	0	4	5			SM	Silty sand, olive gray, 30-40% fines, very fine to fine sand, trace medium to coarse sand, 5% gravel trace fe02 staining, medium dense
				4	6				
				7	7				
					8				
					9				
		wet	1537	2	10			ML	Silt, dark gray, low plasticity, 30-40% very fine sand, trace fine to coarse sand, trace gravel, hydrocarbon sheen, on sample, firm
				3	11				
				5	12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				



PROJECT NO: WA255-3531 CLIENT: ConocoPhillips
 BORING/WELL NO: TSVE-4
 LOGGED BY: Matthew Miller LOCATION: Westlake- Terry Ave
 PAGE 1 OF 1
 DRILLER: Cascade DATE DRILLED: 12/6/2006
 DRILLING METHOD: HAS-Limited Access HOLE DIAMETER: 8"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 11.5'
 CASING TYPE: 2" Sch 40 PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010 WELL DEPTH: 10'
 GRAVEL PACK: 2x12 CASING STICKUP: NA



ELEVATION NORTHING EASTING

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1			Asphalt surface
					2			
					3			
					4			
		dry	0	3	5		ML	Silt, very dark gray, low plasticity, trace gravel, stiff
				4	6			
				5	7			
					8			
					9			
		damp	375	3	10		CL	Clay, very dark gray, low plasticity, trace wood debris, stiff, hydrocarbon odor
				5	11			
				5	12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			



PROJECT NO:	WA255-3531	CLIENT:	ConocoPhillips	BORING/WELL NO:	TSVE-5
LOGGED BY:	Matthew Miller	LOCATION:	Westlake- Terry Ave	PAGE 1 OF 1	
DRILLER:	Cascade	DATE DRILLED:	12/5/2006	Location Map	
DRILLING METHOD:	HAS-Limited Access	HOLE DIAMETER:	8"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	11.5'		
CASING TYPE:	2" Sch 40 PVC	WELL DIAMETER:	2"		
SLOT SIZE:	0.010	WELL DEPTH:	10'		
GRAVEL PACK:	2x12	CASING STICKUP:	NA		

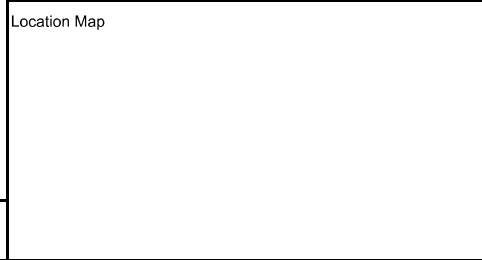
ELEVATION	NORTHING	EASTING
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Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1			Asphalt surface
					2			
					3			
					4			
		moist	0	2	5			
				2	6			
				3	7			Silt, dark gray, low plasticity, 30-40% very fine to fine sand, trace medium to coarse sand, 10% gravel, trace organics, firm
					8			
					9			
		wet	26	3	10			
				4	11			At 10', dark olive gray, 10-20% very fine sand and trace fine to coarse sand, trace gravel, trace organics, stiff
				7	12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			



PROJECT NO: WA255-3531 CLIENT: ConocoPhillips
 LOGGED BY: Matthew Miller LOCATION: Westlake- Terry Ave
 DRILLER: Cascade DATE DRILLED: 12/5/2006
 DRILLING METHOD: HAS-Limited Access HOLE DIAMETER: 8"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 11.5'
 CASING TYPE: 2" Sch 40 PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010 WELL DEPTH: 10'
 GRAVEL PACK: 2x12 CASING STICKUP: NA

BORING/WELL NO: TSVE-6
 PAGE 1 OF 1



ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						1			Gravel surface
						2			
						3			
						4			
			damp	0	1	5			
					1	6			Clay, dark gray, medium to high plasticity, silty, 5-20% very fine to coarse sand, trace gravel and organics, very soft
					1	7			
						8			
						9			
			moist	0	2	10			At 10', low to medium plasticity, trace- 10% very fine to coarse sand, trace feO2, trace organics, firm
					3	11			
					4	12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			
						21			
						22			



PROJECT NO:	WA255-3531	CLIENT:	ConocoPhillips	BORING/WELL NO:	TSVE-7
LOGGED BY:	Matthew Miller	LOCATION:	Westlake- Terry Ave	PAGE 1 OF 1	
DRILLER:	Cascade	DATE DRILLED:	12/5/2006	Location Map	
DRILLING METHOD:	HAS-Limited Access	HOLE DIAMETER:	8"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	11.5'		
CASING TYPE:	2" Sch 40 PVC	WELL DIAMETER:	2"		
SLOT SIZE:	0.010	WELL DEPTH:	10'		
GRAVEL PACK:	2x12	CASING STICKUP:	NA		

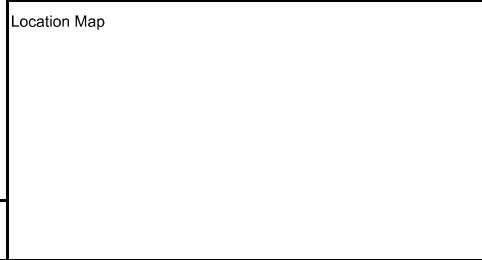
ELEVATION	NORTHING	EASTING
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
					1				Gravel surface
					2				
					3				
					4				
		damp	0	2	5				Clay, dark gray, medium to high plasticity, silty, 10% very fine to coarse sand, trace gravel fe02 staining, organics, trace brick debris, firm
				3	6				
				3	7				
					8				
					9				
		moist	0	4	10				Clay, dark gray, medium to high plasticity, silty, 10% very fine to coarse sand, trace gravel fe02 staining, organics, trace brick debris, firm
				3	11				
				2	12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				



PROJECT NO: WA255-3531 CLIENT: ConocoPhillips
 LOGGED BY: Matthew Miller LOCATION: Westlake- Terry Ave
 DRILLER: Cascade DATE DRILLED: 12/6/2006
 DRILLING METHOD: HAS-Limited Access HOLE DIAMETER: 8"
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 11.5'
 CASING TYPE: 2" Sch 40 PVC WELL DIAMETER: 2"
 SLOT SIZE: 0.010 WELL DEPTH: 10'
 GRAVEL PACK: 2x12 CASING STICKUP: NA

BORING/WELL NO: TSVE-8
 PAGE 1 OF 1



ELEVATION NORTHING EASTING

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1			Asphalt surface
					2			
					3			
					4			
		damp	0	3	5			
				4	6		MC	Silt, dark gray, moderate plasticity, trace very fine sand, trace gravel, stiff, interbedded clay
				5	7			
					8			
					9			
		wet	0	0	10			
					11		SM	Silty sand dark gray, 30-40% fines, very fine medium sand, trace coarse sand, trace gravel, clayey, very soft
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			



PROJECT NO:	WA255-3531	CLIENT:	ConocoPhillips	BORING/WELL NO:	TSVE-9
LOGGED BY:	Matthew Miller	LOCATION:	Westlake- Terry Ave	PAGE 1 OF 1	
DRILLER:	Cascade	DATE DRILLED:	12/6/2006	Location Map	
DRILLING METHOD:	HAS-Limited Access	HOLE DIAMETER:	8"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	11.5'		
CASING TYPE:	2" Sch 40 PVC	WELL DIAMETER:	2"		
SLOT SIZE:	0.010	WELL DEPTH:	10'		
GRAVEL PACK:	2x12	CASING STICKUP:	NA		

ELEVATION	NORTHING	EASTING
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
								Asphalt surface
					1		ML	Silt, dark greenish gray, low plasticity, 10-20% very fine to fine sand, FeO ₂ staining, asphalt debris
					2			
					3			
					4			
		damp	0	3	5			
				3	6		SM	Silty Sand, dark gray, 20-30% fines, very fine to fine sand, trace medium to coarse sand, trace gravel, loose
				4	7			
					8			
					9			
		moist	0	5	10			
				5	11		ML	Silt, dark gray, low plasticity, thin interbedded clay lense (F), 20% very fine sand, trace gravel, stiff, hydrocarbon odor
				7	12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			



PROJECT NUMBER 314749-AA-P3.10	BORING NUMBER P27-B3	SHEET	OF 1
SOIL BORING LOG			

2/4/08

PROJECT Mercer Corridor Phase II LOCATION P27-B3, Parcel 27 Mercer St.
 ELEVATION _____ DRILLING CONTRACTOR Cascade Drilling; Kasey
 DRILLING METHOD AND EQUIPMENT Geoprobe 600, 4' rods w/ 1.5" ID acetelinas
 WATER LEVELS _____ START 0907 FINISH _____ LOGGER N. Badon

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					0-0.7' - concrete	PID
0.7' - 2.7'			24"		0.7' - 2.7' - Olive gray to dark gray, dense moist, fine to medium sand, some fine gravel, little silt (SM)	collected sample P27-B3-204.0 @ 0935 0'-4' 0.1
2.7' - 5.3'			2.6'		transition to greenish gray, dense, moist, fine to medium sand and silt (SM), some fine gravel	4-8' 0.1
5.3' - 8.8'			3.5'		CL Clay and Sand, greenish gray, dense, moist, some fine gravel, angular	8-12' 0.0
8.8' - 11.3'			2.5'		CL, Clay and Sand, greenish gray, dense, moist, some fine to medium subrounded gravel, wet at ~16'	Collected sample P27-B3-13.0-15.0 @ 0950 12'-16' 0.1
11.3' - 12.1'			0.8'		CL, Clay and Sand, fine, greenish gray, dense, wet, trace subangular gravel	16'-20' 0.1
12.1' - 20'						Bottom @ 20'



PROJECT NUMBER 314749.AA.P3.10	BORING NUMBER P27-B2	SHEET 1	OF 1
SOIL BORING LOG			

2/4/08

PROJECT Mercer Corridor Phase II LOCATION Parcel 27, near Mercer + 9th
 ELEVATION _____ DRILLING CONTRACTOR Cascade Drilling, Kasey
 DRILLING METHOD AND EQUIPMENT Geoprobe 6600, 4' rods w/ 1.5" ID acetate liners
 WATER LEVELS _____ START 1107 FINISH 1125 LOGGER N. Badon

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0			3.3'		SC, Sand and Clay, olive gray to greenish gray, dense to hard, moist, fine to medium, some fine gravel	PID Collected P27-B2- 0-4' 2.0-4.0 0.3 @ 11:30 ambient = 0.2
5			2.75'		4.6-5.8' - organics - wood Clay (CL) greenish gray, dense, moist, some fine sand, little coarse, subangular gravel	4'-8' 0.3-0.5
10			1.9'		SC, Sandy clay, greenish gray, dense, moist, fine to medium, some medium subangular gravel, trace wood	8-12' 0.6 ambient = 0.4
15			2.4'		SC, Sandy clay, greenish gray, dense, moist to wet, fine to medium, some fine to medium subangular gravel	Collected P27-B2-13.0-15.0' 12-16' @ 11:27 0.3, 0.4 @ 15' ambient = 0.4
20			0'		No recovery	Driller notes, very soft, not picking up sample w/ rods
25			0'		No recovery	BOH 24'



PROJECT NUMBER 314749-PA-P3.10	BORING NUMBER P27-B4	SHEET 1	OF 1
SOIL BORING LOG			

2/4/08

PROJECT Mercer Corridor Phase II LOCATION Parcel 27, near Mercer St. & 9th Ave
 ELEVATION _____ DRILLING CONTRACTOR Cascade Drilling, Kasey
 DRILLING METHOD AND EQUIPMENT Geoprobe 6000, 4' rods w/ 1.5" acetate liners
 WATER LEVELS _____ START 13385 FINISH 1348 LOGGER N. Baden

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0						
5			2.6'		Sand and Clay, SC, light gray, loose to dense, moist, fine to med. Sand grading to fine to med. Sand and Clay at 1.5', little med. gravel.	P27-B4-2.0-4.0 @ 1400 Notes: driller notes refusal on old fill area will move borings over w/ 1'
5			2.5		Sand and Clay, S, yellowish orange to light gray, dense, moist, fine to medium, little medium subangular gravel.	4-8' 0.0
10			1.05		Sand and Clay, SC, yellowish orange to olive gray, soft, moist to wet, fine to medium, little subangular gravel.	P27-B4-10.0-12.0 @ 14:25 8-12 0.0
15			3.3		Sand and Silt, ML, yellowish orange to olive gray, soft, wet, fine to medium, little fine gravel	12-16' 0.0 ▽ 14'
20			0'		Very wet, no recovery	16-20'
20						20' BOT
25						



PROJECT NUMBER 314749.AA.P3.10	BORING NUMBER P27-B5	SHEET 1 OF 1
SOIL BORING LOG		

2/5/08

PROJECT Mercer Corridor Phase II LOCATION P27-B5 near Broad St and 9th Ave
 ELEVATION _____ DRILLING CONTRACTOR Cascade Drilling, Kasey (owner)
 DRILLING METHOD AND EQUIPMENT Geoprobe 6600, 4' rods w/ 1.5" ID acetate liners
 WATER LEVELS _____ START 0820 FINISH 0830 LOGGER N. Baden

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0						PID
0-4			2.1		SM, Sand and Silt, olive grey, dense, stiff, moist, fine to medium grained, some medium to fine subangular gravel	driller notes odor from borehole
4-8			0.6		SM, Sand and Silt, olive grey to dark grey, wet, loose, some fine to medium subangular gravel.	strong odor from sample
8-9						4-8' 8.9'
10						One soil sample P27-B5-2.0-4.0 @ 0845 Project Manager's direction due to small soil interval above water table
15						- will relocate soil and water FD and HS/MSD per direction of PM
20						
25						



PROJECT NUMBER 314749-AA-P3.10	BORING NUMBER P27-B1	SHEET 1 OF 1
SOIL BORING LOG		

2/5/08

PROJECT Mercer Corridor Phasett LOCATION P27 near corner of ^{Messier Street} 9th Ave
 ELEVATION _____ DRILLING CONTRACTOR Cascade Drilling; Kasey (driller)
 DRILLING METHOD AND EQUIPMENT Geoprobe 6000, 4' rods with 1.5" ID acetate liners
 WATER LEVELS _____ START 1010 FINISH _____ LOGGER N. Baden

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 5'-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					0-0.5' grass and brown fine to medium sand and silt, moist, medium stiff (SM)	PID 0.4' 0.1
5			1.35		0.5'-1.35' SM, sand and silt yellowish orange, loose, slightly moist, some coarse subangular gravel	
			1.85		SM, sand and silt, yellowish orange, moist, medium stiff, fine to medium, trace coarse angular gravel	4-8' 0.1
10			3.0		8-9' - same as 4-8' clay, 9-11' - SC, sand and olive gray moist, stiff, fine to medium, trace medium gravel	Sample P27-B1-10.0-12.0 @1047 8-12' 0.2
15			3.0		same as 9-11'	Sample P27-B1-11.0-13.0 @1105 PID 0.1 13.0-14.0 12-14'
20			1.9		same as 9-11' except wet at 2/3'	PID 0.1 16-20'
25			4.0		20-21.8' - same as 9-11', wet 21.8'-22.3' dark brown decaying wood, moist 22.3'-24' dark brown stiff, moist, fine to medium sand and clay (SC), trace wood fragments	24' BOH 0.0



2/5/08

PROJECT NUMBER 314749.AA.P3.10	BORING NUMBER PI-B1	SHEET 1	OF 1
SOIL BORING LOG			

PROJECT Mercer Corridor Phase II LOCATION Parcel 1, near Dexter and Mercer
 ELEVATION _____ DRILLING CONTRACTOR Cascade Drilling, Kasey (Driller)
 DRILLING METHOD AND EQUIPMENT Geoprobe 6600, 4' rods w/ 1.5" ID acetate liners
 WATER LEVELS _____ START 1305 FINISH 1310 LOGGER N. Badon

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0-3.6			3.6		SM, SAND and SILT, dark brown to olive gray, hard, slightly moist, fine to medium grained, some medium subangular gravel.	PID PI-B1-2.0-4.0 sample @ 13:35 driller notes very stiff soil to drill through
3.6-7.0			3.0'		SM, SAND and SILT, yellowish orange to olive gray, hard slightly moist to dry, fine to medium grained, some medium subangular gravel	0.0 7' BOH Driller refusal @ 7'
7.0-25.0						Note: one soil sample collected @ pt. in direction due to drilling refusal at 7' bgs



PROJECT NUMBER 314749. AA.P3.10	BORING NUMBER PI-B2	SHEET 1 OF 1
SOIL BORING LOG		

2/5/08

PROJECT Mercer Corridor Phase II LOCATION Parcel 1 Mercer St. near 8th Ave
 ELEVATION _____ DRILLING CONTRACTOR Cascade Drilling; Kasey (driller)
 DRILLING METHOD AND EQUIPMENT Geoprobe 6000 4' rods w/ 1.5" ID acetate liners
 WATER LEVELS _____ START 1355 FINISH 1420 LOGGER N. Baden

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0			1.5		SM, SAND and Silt, yellowish orange to olive gray, moist, fine to medium, loose, to medium dense, little medium subangular gravel	PI-B2-2.0-4.0 @ 1425 PID 0.0
5			2.0		same as 0-4'	0.2
10			2.2		same as 0-4' with fine to medium subangular gravel, moist to wet	PI-B2-9.0-11.0 @ 1445 0.2 driller notes water in borehole 12' = BOH
15						
20						
25						



PROJECT NUMBER 314749.AA.P3.10	BORING NUMBER PI-B3	SHEET 1	OF 1
SOIL BORING LOG			

2/6/08

PROJECT Mexes Corridor Phase II LOCATION Parcel 7 Mercer St. near 8th Ave
 ELEVATION _____ DRILLING CONTRACTOR Cascade Drilling, Kasey (driller)
 DRILLING METHOD AND EQUIPMENT Geo probe 6000, 4' rods w/ 1.5" ID acetate liners
 WATER LEVELS _____ START 0730 FINISH 0740 LOGGER N. Boden

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
	0-1.6'					
1.6-3.1'			1.1'	<p>Sand and silt (SM), yellowish orange to greenish gray, fine to medium grained, stiff, moist</p>	0.1	
3.1-7.1'			4'	<p>Sand and silt (SM), little clay, yellowish orange to greenish gray, very stiff, fine to medium grained, moist, some fine, subangular gravel</p>	<p>PI-B3-10.0-12.0 @ 0805 (soil sample) 0.1, 0.2</p>	
7.1-12.0'					<p>Driller notes refusal @ 12' BOT</p>	
12.0-25.0'						



PROJECT NUMBER 3A749. AA.P3.10 BORING NUMBER P24-B1 SHEET 1 OF 1

2/6/08

SOIL BORING LOG

PROJECT Mercer Corridor Phase II LOCATION Parcel 24 near Mercer and 8th Ave.
 ELEVATION DRILLING CONTRACTOR Cascade Drilling, Kasey (driller)
 DRILLING METHOD AND EQUIPMENT Geoprobe 6600, 4' rods and 1.5" ID acetate liners
 WATER LEVELS START 0830 FINISH 0845 LOGGER N. Braden

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
5	↓		3.0'		Sand and Silt (SM) yellowish orange to olive gray, stiff, slightly moist, fine to medium grained, trace fine gravel 0-0.8' (picking lot) medium subangular gravel, gray	PID P24-B1-2.0-4.0 @ 0852 0.1
10	↓		4.0'		Sand and silt (SM) yellowish orange to light gray, stiff to very stiff, fine to medium grained, slightly moist, little medium subangular gravel	0.0
15	↓		3.0		Sand and Silt (SM) olive gray to light gray, very dense, fine to medium grained, slightly moist, little angular to subangular fine gravel	P24-B1-9.0-11.0 0903 0.1
20						Driller notes refusal @ 11' no water

PROJECT NUMBER
3A7A9.AA.P3.10BORING NUMBER
P24-B3

SHEET 1 OF 1

2/6/08

SOIL BORING LOG

PROJECT Meicer Consider Phase II LOCATION Parcel 24 Meicer St. + 9th AveELEVATION _____ DRILLING CONTRACTOR Cascade Drilling, Kasey (driller)DRILLING METHOD AND EQUIPMENT Geoprobe 6600, 4" rods and 1.5" ID acetate linersWATER LEVELS _____ START 1015 FINISH 1035 LOGGER N. Barton

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
			1.8'		0-0.6' dark brown decayed organics 0.6'-4' - ML, silt, some clay, little fine sand, dark brown to light brown, stiff, slightly moist	0.1 PID
5			2.2'		SILT (ML), some clay, yellowish orange, mottled dark brown, stiff little fine sand, stiff, moist.	0.2 P24-B3 - 6.0-8.0 @ 1110 and P24-B3-6.0-8.0-FD @ 1110
10			4.0'		Silt, some clay (ML), yellowish orange mottled light brown, very stiff, moist to slightly moist some medium subangular gravel, little fine sand	0.2
15			0.2'		Silt, some clay (ML), dark brown to olive gray, stiff, little fine to medium sand, trace medium subangular gravel	0.1
20			1.3'		10-16.6' same as 10-16' 16.6'-20' - sand and silt (SM) greenish gray, very stiff, some clay, fine to medium gravel, trace coarse angular gravel, slightly moist. 20-21.2' - dark brown, mottled greenish gray silt and some clay (ML) little fine sand, trace fine subangular gravel	0.1
25					21.2-24.0' sand and silt (SM) greenish gray, fine to medium, slightly stiff, trace fine subangular gravel, wet at 23'	0.3 P24-B3-24-23 @ 1135 and MS/MSD @ 1135



PROJECT NUMBER

3479-AA-P3-10

BORING NUMBER

P24-B2

SHEET

OF

SOIL BORING LOG

2/6/08

PROJECT Mercer Corridor Phase II

LOCATION Parcel 24, on Broadst. b/t 8th and 9th Ave

ELEVATION

DRILLING CONTRACTOR Cascade Drilling, Kasey (driller)

DRILLING METHOD AND EQUIPMENT

Europrobe 6600, 4' rods w/ 1.5" ID acetate liners

WATER LEVELS

START 1340

FINISH

LOGGER N. Baden

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					0-0.5' Topsoil and grass	PID
0.5					0.5'-4' Sand and Silt (SM) yellowish orange to olive gray, medium dense, fine to medium grained, little coarse angular gravel, slightly moist	0.1
5			3.0'		Sand and Silt (SM), medium brown to light brown, loose, fine to medium grained, slightly moist, some fine to medium gravel	collected upper 0.1 sample P24-B2-4.0-6.0 @ from 4.0-6.0 due to lots of rock in 0-4' sample @ 1440
10			3.3		Sand SP some silt, fine to medium grained, loose, yellowish orange to olive gray, slightly moist, trace fine sub-angular gravel	0.0
12			2.8		12-14' Same as above	0.0
15			4.0'		14-16' Same as above with some coarse angular to subangular gravel, dense	0.0
20			3.6'		Sand and Silt (SM) yellowish orange, moist, dense, fine to coarse grained, some coarse angular gravel	P24-B2-18.0-20.0 and P24-B2-18.0-20.0-FD @ 1425
25			4.0		Sand and Silt (SM), yellowish orange to light gray, moist to wet at 21.3', fine to medium grained, some medium sub-angular gravel, dense	0.0

PROJECT: **Former CP 5353 (1396)**
 LOCATION: **600 Westlake Ave N., Seattle WA**
 PROJECT NUMBER: **01CP.01396.60**

WELL / PROBEHOLE / BOREHOLE NO:

MW-209 PAGE 1 OF 1



DRILLING: STARTED **10/10/08** COMPLETED: **10/10/08**
 INSTALLATION: STARTED COMPLETED:
 DRILLING COMPANY: **Cascade Drilling**
 DRILLING EQUIPMENT: **HSA**
 DRILLING METHOD: **Split Spoon**
 SAMPLING EQUIPMENT:

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **8.5 10/14/08** BOREHOLE DEPTH (ft): **20.0**
 STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **20.0**
 WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **14**
 LOGGED BY: **SM** CHECKED BY: **DH**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			SAND ; brown; fill material, concrete and gravel							Concrete
										Bentonite
5		ML	SILTY CLAY FINE GRAVEL ; ML					0	5	
		ML	SANDY CLAY WITH SILT SOME GRAVEL ; ML; gray							
		SM	SAND WITH CLAY SOME SILT ; SM; gray; wet; fine gravel		940 MW-209-7		5 8 10	0		
10		ML	SANDY SILT ; ML; gray; wet; sheen; gravel				5 8 11	0	10	Sand
15		ML	SILT WITH FINE GRAVEL ; ML; gray; wet; sheen				2 3 3	0	15	
20			Borehole terminated at 20 feet.				5 8 10	0	20	
25									25	
30									30	
35									35	

GEO FORM 304 5353 (1396) OCT 08.GPJ SECOR INTL.GDT 12/18/08

PROJECT: **Former CP 5353 (1396)**
 LOCATION: **600 Westlake Ave N., Seattle WA**
 PROJECT NUMBER: **01CP.01396.60**

WELL / PROBEHOLE / BOREHOLE NO:

MW-210 PAGE 1 OF 1



DRILLING: STARTED **10/10/08** COMPLETED: **10/10/08**
 INSTALLATION: STARTED COMPLETED:
 DRILLING COMPANY: **Cascade Drilling**
 DRILLING EQUIPMENT: **HSA**
 DRILLING METHOD: **Split Spoon**
 SAMPLING EQUIPMENT:

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **9 10/14/08** BOREHOLE DEPTH (ft): **20.0**
 STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **20.0**
 WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **14**
 LOGGED BY: **SM** CHECKED BY: **DH**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID Method	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			SAND WITH GRAVEL ; dark gray; fill material, concrete							Concrete
										Bentonite
5		ML	SAND SOME CLAY WITH ROOTS ML		-			0.3	5	
			Wood debris		-			73.9		
10			No recovery - wet		-		9 11 14		10	
										Sand
15		SM	SILTY SAND ; SM; gray; wet		1155 MW-210-15		4 5 5	0	15	
20		SM	SILTY SAND ; SM; gray; wet				5 8 11	0	20	
			Borehole terminated at 20 feet.							
25									25	
30									30	
35									35	

PROJECT: **Former CP 5353 (1396)**
 LOCATION: **600 Westlake Ave N., Seattle WA**
 PROJECT NUMBER: **01CP.01396.60**

WELL / PROBEHOLE / BOREHOLE NO:



MW-211 PAGE 1 OF 1

DRILLING: STARTED **10/10/08** COMPLETED: **10/10/08**
 INSTALLATION: STARTED COMPLETED:
 DRILLING COMPANY: **Cascade Drilling**
 DRILLING EQUIPMENT: **HSA**
 DRILLING METHOD: **Split Spoon**
 SAMPLING EQUIPMENT:

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **9 10/14/08** BOREHOLE DEPTH (ft): **20.0**
 STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **20.0**
 WELL CASING DIAMETER (in): **2** BOREHOLE DIAMETER (in): **14**
 LOGGED BY: **SM** CHECKED BY: **DH**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
			Sandy fill material, concrete & brick							Concrete Bentonite
5		ML	SILT SOME CLAY WITH GRAVEL; ML; gray; dry		-			0	5	
		ML	SILT SOME CLAY; ML; gray; dry		1252 MW-211-7		8 10 10	0		
		SM	SILTY SAND FINE GRAVEL; SM; gray; wet				1			
10		SM	SAND WITH SILT FINE GRAVEL; SM; gray; wet				2 2		10	Sand
15		ML	SILT WITH CLAY FINE GRAVEL; ML; gray; wet		-		6 9 10	0	15	
20		SM	SAND WITH SILT; SM; gray; wet; woody debris @ bottom Borehole terminated at 20 feet.		-		4 5 6	0	20	
25									25	
30									30	
35									35	

PROJECT: COP 1396
 LOCATION: 600 Westlake Avenue N, Seattle
 PROJECT NUMBER: 212302587

DRILLING: STARTED 10/29/10 COMPLETED: 11/2/10
 INSTALLATION: STARTED 10/29/10 COMPLETED: 11/2/10
 DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING EQUIPMENT: Air knife/Hollow stem auger
 DRILLING METHOD: Hollow stem auger
 SAMPLING EQUIPMENT: Split spoon/PID

WELL / PROBEHOLE / BOREHOLE NO: **MWR-1** PAGE 1 OF 1

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): 15 11/2/10 BOREHOLE DEPTH (ft): 18.0
 STATIC DTW (ft): 10 11/4/10 WELL DEPTH (ft): 18.0
 WELL CASING DIAMETER (in): 2 BOREHOLE DIAMETER (in): 8
 LOGGED BY: TP/RM CHECKED BY:



SECOR

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
800		GW	GRAVEL ; GW; brown; fine to coarse-grained; moist; no staining; well graded; no fines, no HC odor (fill material)		805 MWR-1@2.5			1.8		
805									5	
935			No recovery in sampler				14 28 29		10	
940		SP	SAND ; SP; brown; medium-grained; loose; saturated; no staining; poorly graded; non cohesive, no HC odor (fill material)		194 MWR-1@15'			2.0	15	
1000			Hole terminated at 18 feet.				0 1 1			

GEO FORM 304 COP 1396 SEATTLE, WA.GPJ SECOR.INTL.GDT 11/10/10

PROJECT: COP 1396
 LOCATION: 600 Westlake Avenue N, Seattle
 PROJECT NUMBER: 212302587

DRILLING: STARTED 10/29/10 COMPLETED: 11/2/10
 INSTALLATION: STARTED 10/29/10 COMPLETED: 11/2/10
 DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING EQUIPMENT: Air knife/Hollow stem auger
 DRILLING METHOD: Hollow stem auger
 SAMPLING EQUIPMENT: Split spoon/PID

WELL / PROBEHOLE / BOREHOLE NO: **MWR-2** PAGE 1 OF 1


NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): 12 11/2/10 BOREHOLE DEPTH (ft): 17.0
 STATIC DTW (ft): 8 11/4/10 WELL DEPTH (ft): 17.0
 WELL CASING DIAMETER (in): 2 BOREHOLE DIAMETER (in): 8
 LOGGED BY: TP/RM CHECKED BY:



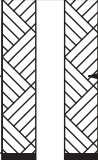




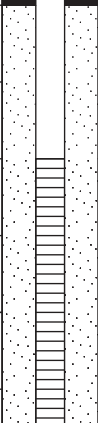


SECOR

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
955		GP	GRAVEL; GP; brown; moist; no staining; poorly graded; <3% sand, no HC odor, perched water @ 2.1' to 2.4' (fill material)		1000				0.8	
1000					MWR-2@2.5				9	
5					1420 NS			0.9	5	
1430		SP	GRAVELLY SAND; SP; brown; loose; non cohesive, no HC odor (fill material)		1430				0.0	
1430					MWR-2@10'				9	
1450			Hole terminated at 17 feet.							

GEO FORM 304 COP 1396 SEATTLE, WA.GPJ SECOR.INTL.GDT 11/10/10

PROJECT: COP 1396	WELL / PROBEHOLE / BOREHOLE NO: MWR-3	PAGE 1 OF 1	 SECOR
LOCATION: 600 Westlake Avenue N, Seattle			
PROJECT NUMBER: 212302587			
DRILLING: STARTED 10/29/10 COMPLETED: 11/2/10	NORTHING (ft):	EASTING (ft):	
INSTALLATION: STARTED 10/29/10 COMPLETED: 11/2/10	LATITUDE:	LONGITUDE:	
DRILLING COMPANY: Cascade Drilling, Inc.	GROUND ELEV (ft):	TOC ELEV (ft):	
DRILLING EQUIPMENT: Air knife/Hollow stem auger	INITIAL DTW (ft): 11 11/2/10	BOREHOLE DEPTH (ft): 17.0	
DRILLING METHOD: Hollow stem auger	STATIC DTW (ft): 10 11/4/10	WELL DEPTH (ft): 17.0	
SAMPLING EQUIPMENT: Split spoon/PID	WELL CASING DIAMETER (in): 2	BOREHOLE DIAMETER (in): 8	
	LOGGED BY: TP/RM	CHECKED BY:	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
800		SM	SILTY SAND ; SM; brown; moist; no staining; <5% fine gravel, no HC odor (fill material)							
820					820 MWR-3@2.5			1.9		
1100		SP	SAND WITH SOME GRAVEL ; SP; brown; loose; moist; no staining; poorly graded; non cohesive, no HC odor (fill material)		1100 MWR-3@5'		8 9 19	1.7	5	
1110					1110 MWR-3@10'		5 6 6	1.1	10	
1125									15	
1130			Hole terminated at 17 feet.							

GEO FORM 304 COP 1396 SEATTLE, WA.GPJ SECOR.INTL.GDT 11/10/10

PROJECT: COP 1396
 LOCATION: 600 Westlake Avenue N, Seattle
 PROJECT NUMBER: 212302587

DRILLING: STARTED 10/29/10 COMPLETED: 11/2/10
 INSTALLATION: STARTED 10/29/10 COMPLETED: 11/2/10
 DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING EQUIPMENT: Air knife/Hollow stem auger
 DRILLING METHOD: Hollow stem auger
 SAMPLING EQUIPMENT: Split spoon/PID

WELL / PROBEHOLE / BOREHOLE NO: **MWR-4** PAGE 1 OF 1

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): 11 11/2/10 BOREHOLE DEPTH (ft): 17.0
 STATIC DTW (ft): 9 11/4/10 WELL DEPTH (ft): 17.0
 WELL CASING DIAMETER (in): 2 BOREHOLE DIAMETER (in): 8
 LOGGED BY: TP/RM CHECKED BY:



SECOR

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
830		GW	GW; brown; fine to coarse-grained; moist; no staining; well graded; no HC odor (fill material)							
840					840 MWR-4@2.5			1.3		
1300		SP	SAND WITH TRACE GRAVEL ; SP; brown; medium-grained; medium dense; moist; no staining; poorly graded; non cohesive, no HC odor (fill material)		1300 MWR-4@5'		15 16 17	1.1	5	
1310					1310 MWR-4@10'		10 12 13	1.0	10	
1325									15	
1330			Hole terminated at 17 feet.							

GEO FORM 304 COP 1396 SEATTLE, WA.GPJ SECOR.INTL.GDT 11/10/10

PROJECT: COP 1396
 LOCATION: 600 Westlake Avenue N, Seattle
 PROJECT NUMBER: 212302587

DRILLING: STARTED 10/28/10 COMPLETED: 11/3/10
 INSTALLATION: STARTED 10/28/10 COMPLETED: 11/3/10
 DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING EQUIPMENT: Air knife/Hollow stem auger
 DRILLING METHOD: Hollow stem auger
 SAMPLING EQUIPMENT: Split spoon/PID

WELL / PROBEHOLE / BOREHOLE NO: **MWR-5** PAGE 1 OF 1


NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): 11 11/3/10 BOREHOLE DEPTH (ft): 17.0
 STATIC DTW (ft): 8 11/4/10 WELL DEPTH (ft): 17.0
 WELL CASING DIAMETER (in): 2 BOREHOLE DIAMETER (in): 8
 LOGGED BY: TP/RM CHECKED BY:

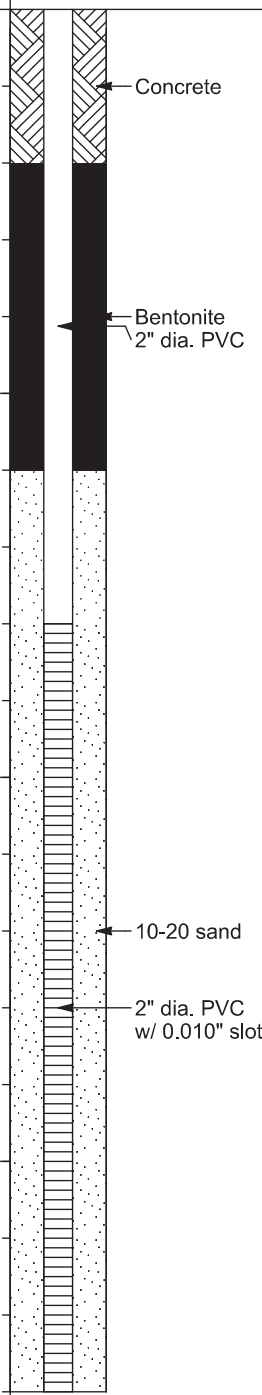


SECOR


Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
930		SM	SILTY SAND ; SM; brown; moist; no staining; poorly graded; <5% coarse sand, no HC odor (fill material)		945 MWR-5@2.5			1.9	930	
945									5	
1010					1010 NS		7 12 13	0.7	5	
1020		SM	SAND WITH SILT ; SM; gray; medium-grained; loose; moist; no staining; poorly graded; non cohesive, HC odor, wood debris (fill material)		1020 MWR-5@10'		1 3 6	22.9	1010	
1020									10	
1030									15	
1040			Hole terminated at 17 feet.						17	



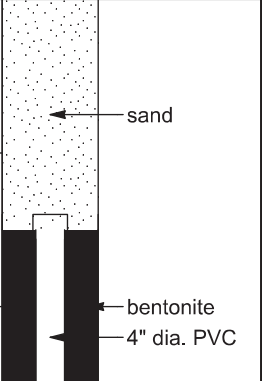


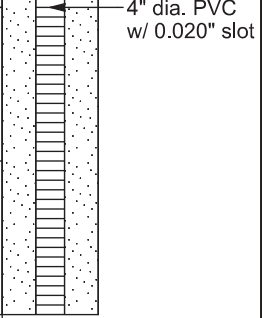
GEO FORM 304 COP 1396 SEATTLE, WA.GPJ SECOR.INTL.GDT 11/10/10

PROJECT: COP 1396	WELL / PROBEHOLE / BOREHOLE NO:	MWR-6 PAGE 1 OF 1	 SECOR
LOCATION: 600 Westlake Avenue N, Seattle			
PROJECT NUMBER: 212302587			
DRILLING: STARTED 10/28/10 COMPLETED: 11/3/10	NORTHING (ft):	EASTING (ft):	
INSTALLATION: STARTED 10/28/10 COMPLETED: 11/3/10	LATITUDE:	LONGITUDE:	
DRILLING COMPANY: Cascade Drilling, Inc.	GROUND ELEV (ft):	TOC ELEV (ft):	
DRILLING EQUIPMENT: Air knife/Hollow stem auger	INITIAL DTW (ft): 14 11/3/10	BOREHOLE DEPTH (ft): 18.0	
DRILLING METHOD: Hollow stem auger	STATIC DTW (ft): 10 11/4/10	WELL DEPTH (ft): 18.0	
SAMPLING EQUIPMENT: Split spoon/PID	WELL CASING DIAMETER (in): 2	BOREHOLE DIAMETER (in): 8	
	LOGGED BY: TP/RM	CHECKED BY:	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
1345		SM	SILTY SAND WITH GRAVEL; SM; orangeish olive gray; medium to coarse-grained; moist; fine to coarse gravel, trace medium stiff clay, black staining, slight HC odor (fill material)							 <p>Concrete</p> <p>Bentonite</p> <p>2" dia. PVC</p> <p>10-20 sand</p> <p>2" dia. PVC w/ 0.010" slot</p>
1400					1400 MWR-6@2.5'			2.0		
900		5		SILTY SAND; gray with black; medium-grained; loose; moist; trace clay, no HC odor, wood debris (fill material)		900 MWR-6@5'		3 3 4	0.7	
910	10	SC	CLAYEY SILT; SC; gray with black; low plasticity; moist; trace sand, no HC odor, wood debris (fill material)		910 MWR-6@10'		2 2 2	7.0	10	
925	15								15	
935			Hole terminated at 18 feet.							

GEO FORM 304 COP 1396 SEATTLE, WA.GPJ SECOR.INTL.GDT 11/10/10

PROJECT: COP 1396	WELL / PROBEHOLE / BOREHOLE NO: SVER-1 PAGE 1 OF 1	
LOCATION: 600 Westlake Avenue N, Seattle		SECOR
PROJECT NUMBER: 212302587		
DRILLING: STARTED 10/28/10 COMPLETED: 11/4/10	NORTHING (ft):	EASTING (ft):
INSTALLATION: STARTED 10/28/10 COMPLETED: 11/4/10	LATITUDE:	LONGITUDE:
DRILLING COMPANY: Cascade Drilling, Inc.	GROUND ELEV (ft):	TOC ELEV (ft):
DRILLING EQUIPMENT: Air knife/Hollow stem auger	INITIAL DTW (ft): NE 11/4/10	BOREHOLE DEPTH (ft): 7.0
DRILLING METHOD: Hollow stem auger	STATIC DTW (ft): NE 11/5/10	WELL DEPTH (ft): 7.0
SAMPLING EQUIPMENT: Split spoon/PID	WELL CASING DIAMETER (in): 4	BOREHOLE DIAMETER (in): 10
	LOGGED BY: TP/RM	CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
1140		SM	SILTY SAND ; SM; brown; fine to medium-grained; moist; trace gray stiff clay, no HC odor							
1150					1150 SVER-1@2.5'			1.9		
1020		ML	SANDY SILT ; ML; gray; fine to medium-grained; low plasticity; soft; moist; well graded sand, no HC odor		1020 SVER-1@5'		2 2 2	0.0	5	
1030			Hole terminated at 7 feet.							

GEO FORM 304 COP 1396 SEATTLE, WA.GPJ SECOR.INTL.GDT 11/10/10

PROJECT: COP 1396
 LOCATION: 600 Westlake Avenue N, Seattle
 PROJECT NUMBER: 212302587
 DRILLING: STARTED 10/28/10 COMPLETED: 11/4/10
 INSTALLATION: STARTED 10/28/10 COMPLETED: 11/4/10
 DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING EQUIPMENT: Air knife/Hollow stem auger
 DRILLING METHOD: Hollow stem auger
 SAMPLING EQUIPMENT: Split spoon/PID

WELL / PROBEHOLE / BOREHOLE NO:

SVER-2 PAGE 1 OF 1



NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): NE 11/4/10 BOREHOLE DEPTH (ft): 7.0
 STATIC DTW (ft): NE 11/5/10 WELL DEPTH (ft): 7.0
 WELL CASING DIAMETER (in): 4 BOREHOLE DIAMETER (in): 10
 LOGGED BY: TP/RM CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
1310		SW	GRAVELLY SAND WITH TRACE CLAY; SW; olive gray; moist; well graded; no HC odor		1320 SVER-2@2.5'			2.0		
1320										
945			SILTY SAND; gray; fine-grained; loose; moist; poorly graded; non cohesive, no HC odor		945 SVER-2@5'		2 3 3	6.0	5	
1000										
			Hole terminated at 7 feet.							

GEO FORM 304 COP 1396 SEATTLE, WA.GPJ SECOR.INTL.GDT 11/10/10

PROJECT: COP 1396
 LOCATION: 600 Westlake Avenue N, Seattle
 PROJECT NUMBER: 212302587
 DRILLING: STARTED 10/28/10 COMPLETED: 11/4/10
 INSTALLATION: STARTED 10/28/10 COMPLETED: 11/4/10
 DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING EQUIPMENT: Air knife/Hollow stem auger
 DRILLING METHOD: Hollow stem auger
 SAMPLING EQUIPMENT: Split spoon/PID

WELL / PROBEHOLE / BOREHOLE NO:

SVER-3 PAGE 1 OF 1



NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): NE 11/4/10 BOREHOLE DEPTH (ft): 7.0
 STATIC DTW (ft): NE 11/5/10 WELL DEPTH (ft): 7.0
 WELL CASING DIAMETER (in): 4 BOREHOLE DIAMETER (in): 10
 LOGGED BY: TP/RM CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
1050		GC	SANDY GRAVEL WITH CLAY ; GC; gray; medium to coarse-grained; moist; Slight HC odor							
1100					1110 SVER-3@2.5'			2.4		
1110		ML	SILT WITH TRACE SAND ; ML; gray; medium-grained; low plasticity; soft; moist; no HC odor, trace iron oxide staining		1110 SVER-3@5'		2 3 4	1.0	5	
1120			Hole terminated at 7 feet.							

GEO FORM 304 COP 1396 SEATTLE, WA.GPJ SECOR.INTL.GDT 11/10/10

PROJECT: COP 1396
 LOCATION: 600 Westlake Avenue N, Seattle
 PROJECT NUMBER: 212302587

DRILLING: STARTED 10/28/10 COMPLETED: 11/4/10
 INSTALLATION: STARTED 10/28/10 COMPLETED: 11/4/10
 DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING EQUIPMENT: Air knife/Hollow stem auger
 DRILLING METHOD: Hollow stem auger
 SAMPLING EQUIPMENT: Split spoon/PID

WELL / PROBEHOLE / BOREHOLE NO:

SVER-4 PAGE 1 OF 1



NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): NE 11/4/10 BOREHOLE DEPTH (ft): 7.0
 STATIC DTW (ft): NE 11/5/10 WELL DEPTH (ft): 7.0
 WELL CASING DIAMETER (in): 4 BOREHOLE DIAMETER (in): 10
 LOGGED BY: TP/RM CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Well Construction
845		SM	SILTY SAND ; SM; brown; fine to medium-grained; moist; poorly graded; <5% gravel, no HC odor		900 SVER-4@2.5'			1.5		
900										
845	5	SM	SANDY SAND ; SM; gray; fine-grained; loose; moist; poorly graded; non cohesive, slight HC odor		845 SVER-4@5'		1 2 2	13.7	5	
900			Hole terminated at 7 feet.							

GEO FORM 304 COP 1396 SEATTLE, WA.GPJ SECOR.INTL.GDT 11/10/10



Cardno ATC Project Name: P66-1396	Drilling Information
Cardno ATC Project Number: 76.75118.1396	Drilling Contractor: <u>CDI</u>
Location: 600 Westlake Avenue	Drilling Method: <u>HS Auger</u>
Seattle, WA	Borehole Diameter: <u>8-inch</u>
	Sampler Type: <u>2.5-inch OD Split Spoon</u>

Event Information

Logged by: <u>Mark Newman</u>	Well/Boring Designation: <u>MW-212</u>
Boring Depth: <u>25 ft bgs</u>	Surface Elevation: _____
GW Encountered: <u>20 ft bgs</u>	Start Date: <u>9/30/14</u>
Static GW Level: <u>15 ft bgs</u>	End Date: <u>9/30/14</u>
Notes: _____	

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/Description	Well Construction
						Surface: 16" Concrete Core	
1						Air knife to 5 ft below ground surface (bgs).	Concrete Bentonite 2" diameter Sch 40 PVC
2							
3							
4							
5			9	0.3	SM	SILTY SAND; dark brown; 60% fine sand, 15% silt, 15% medium sand, 10% small gravel; slight induration; moderately cohesive; moist; no pretroleum-like odor (NPO).	
6			9				Sand 2" diameter Sch 40 PVC with 0.001" slots
			9				
7							
8							
9							
10			4	2.6	SM	As above; low recovery; moist; NPO.	
			16				
11			13				
12							
13							
14							
15	▽						
			5	15.4	SM	SILTY SAND; Dark Brown with organics; 60% fine sand, 20% coarse sand; 20% silt; weak induration; moderately cohesive; moist; NPO.	
16			5				
			7				
17							
18							
19							
20							



Cardno ATC Project Name: P66-1396

Cardno ATC Project Number: 76.75118.1396

Location: 600 Westlake Avenue, Seattle, WA

Date: 9/30/2014

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/Description	Well Construction
21			14 15 16	3.1	SW	MEDIUM SAND; grey/brown; 70% medium sand, 20% fine sand, 10% silt; weak induration; slightly cohesive; wet; NPO.	2" diameter Sch 40 PVC with 0.001" slots
22							
23							
24							
25			4	0.4	ML	SILT with FINE SAND; greenish grey; 60% silts, 30% fine sand, 10% clay; very cohesive; slight induration; saturated; NPO.	
26			3 3				
27						Boring terminated at 25 feet bgs.	
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							



Cardno ATC Project Name: P66-1396	Drilling Information	
Cardno ATC Project Number: 76.75118.1396	Drilling Contractor:	CDI
Location: 600 Westlake Avenue	Drilling Method:	HS Auger
Seattle, WA	Borehole Diameter:	8-inch
	Sampler Type:	2.5-inch OD Split Spoon

Event Information

Logged by: <u>Mark Newman</u>	Well/Boring Designation: <u>MW-213</u>
Boring Depth: <u>20 ft bgs</u>	Surface Elevation: _____
GW Encountered: <u>10 ft bgs</u>	Start Date: <u>10/1/14</u>
Static GW Level: <u>12 ft bgs</u>	End Date: <u>10/1/14</u>
Notes: _____	

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/ Description	Well Construction
						Surface: landscaped soil.	
1						Air knife to 6.0 ft below ground surface (bgs).	2" diameter Sch 40 PVC with 0.001" slots Bentonite Sand
2							
3							
4							
5							
6			14	1.7	SM	SILTY SAND; dark grey; 60% fine sand, 10% coarse sand, 20% gravel, 10% silt; moderate induration; slightly cohesive; moist; NPO.	
7			11				
8			15				
9							
10			8	816	SM	SILTY SAND; light grey; 70% medium sand, 10% fine sand, 20% silt; moderate induration; slightly cohesive; moist; moderate petroleum-like odor (MPO).	
11			10				
12			13				
13							
14							
15			10	14.4	SM	SILTY SAND; dark grey and light brown; 80% fine sand, 10% medium sand, 10% silt; moderate induration; moderately cohesive; wet; MPO.	
16			10				
17			10				
18							
19			4			SILTY SAND; dark grey; 60% fine sand, 10% medium sand, 30% silt; alight induration; very cohesive; saturated; MPO	
20			4	4.2	SM		
			5				

Boring terminated at 20 feet bgs.



Cardno ATC Project Name: P66-1396	Drilling Information	
Cardno ATC Project Number: 76.75118.1396	Drilling Contractor:	CDI
Location: 600 Westlake Avenue Seattle, WA	Drilling Method:	HS Auger
	Borehole Diameter:	8-inch
	Sampler Type:	2.5-inch OD Split Spoon

Event Information

Logged by: <u>Mark Newman</u>	Well/Boring Designation: <u>MW-214</u>
Boring Depth: <u>17 ft bgs</u>	Surface Elevation: _____
GW Encountered: <u>10 ft bgs</u>	Start Date: <u>10/1/14</u>
Static GW Level: <u>12 ft bgs</u>	End Date: <u>10/1/14</u>
Notes: _____	

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/ Description	Well Construction
						Surface: landscaped soil.	
1						Air knife to 6.0 ft below ground surface (bgs).	
2							
3							
4							
5							
6			5	10.8	SM	SILTY SAND; olive grey; 60% fine sand, 10% medium sand, 30% silt; moderate induration; moderately cohesive; moist; NPO.	
7			5				
8							
9							
10			6	2.0	SM	As above; wet; MPO.	
11			6				
12			7				
13							
14							
15			3	0.4	SM	SILTY SAND; olive grey; 60% fine sand, 15% medium sand, 25% silt; moderate induration; moderately cohesive; saturated; NPO.	
16			3				
17			4				
17						Boring terminated at 17 feet bgs.	
18							
19							
20							



Cardno ATC Project Name: P66-1396	Drilling Information	
Cardno ATC Project Number: 76.75118.1396	Drilling Contractor:	CDI
Location: 600 Westlake Avenue Seattle, WA	Drilling Method:	HS Auger
	Borehole Diameter:	8-inch
	Sampler Type:	2.5-inch OD Split Spoon

Event Information

Logged by: <u>Mark Newman</u>	Well/Boring Designation: <u>MW-215</u>
Boring Depth: <u>17 ft bgs</u>	Surface Elevation: _____
GW Encountered: <u>10 ft bgs</u>	Start Date: <u>10/1/14</u>
Static GW Level: <u>12 ft bgs</u>	End Date: <u>10/1/14</u>
Notes: _____	

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/ Description	Well Construction
						Surface: landscaped soil.	
1						Air knife to 6.0 ft below ground surface (bgs).	2" diameter Sch 40 PVC Bentonite
2							
3							
4							
5							
6			3	0.5	SM	SILTY SAND; dark grey; 60% fine sand, 10% medium sand, 25% silt, 5% gravel; moderate induration; moderately cohesive; moist; NPO.	
7			5				2" diameter Sch 40 PVC with 0.001" slots
			6				
8							
9							
10			5	2.1	SM	As above; wet; strong petroleum-like odor (SPO).	
11			5				
12							
13							
14							
15			5	0.1	SM	SILTY SAND with ORGANICS (wood chips); dark brown; 50% fine sand, 15% medium sand, 15% silt, 20% pulverized wood chips; no induration; not cohesive; saturated; NPO.	
16			5				
			5				
17						Boring terminated at 17 feet bgs.	
18							
19							
20							



Cardno ATC Project Name: P66-1396	Drilling Information
Cardno ATC Project Number: 76.75118.1396	Drilling Contractor: <u>CDI</u>
Location: 600 Westlake Avenue	Drilling Method: <u>HS Auger</u>
Seattle, WA	Borehole Diameter: <u>8-inch</u>
	Sampler Type: <u>2.5-inch OD Split Spoon</u>

Event Information

Logged by: <u>Mark Newman</u>	Well/Boring Designation: <u>MW-216</u>
Boring Depth: <u>25 ft bgs</u>	Surface Elevation: _____
GW Encountered: <u>20 ft bgs</u>	Start Date: <u>10/2/14</u>
Static GW Level: <u>15 ft bgs</u>	End Date: <u>10/2/14</u>
Notes: _____	

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/Description	Well Construction
						Surface: 16" Concrete Core	Concrete
1						Air knife to 6 ft below ground surface (bgs).	
2							
3							Bentonite
4							
5							
6			7	0.3	SW	MEDIUM SAND with FINES; brown medium sand with 20% fine sand, 10% silt, 10% gravel; moderate induration; moderately cohesive; moist; NPO	2" diameter Sch 40 PVC
7			7				
8			7				
9							Sand
10			4	0.4	SW	As above; slightly cohesive; dry; NPO.	
11			4				
12			5				2" diameter Sch 40 PVC with 0.001" slots
13							
14							
15	▽		50/5	2.0	SM	SILTY SAND; silty sand with pulverized wood chips; wet; NPO.	
16							
17							
18							
19							
20							



Cardno ATC Project Name: P66-1396

Cardno ATC Project Number: 76.75118.1396

Location: 600 Westlake Avenue, Seattle, WA

Date: 10/2/2014

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/ Description	Well Construction
21			50/6	-		Wood debris, very low recovery.	2" diameter Sch 40 PVC with 0.001" slots
22							
23							
24							
25			4	0.2	ML	SANDY SILT; olive grey; 60% silt, 20% fine sand, 20% medium sand; very cohesive; slight induration; saturated, NPO	
26			5				
26			7				
27						Boring terminated at 25 feet bgs.	
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							



Cardno ATC Project Name: P66-1396	Drilling Information	
Cardno ATC Project Number: 76.75118.1396	Drilling Contractor:	CDI
Location: 600 Westlake Avenue Seattle, WA	Drilling Method:	HS Auger
	Borehole Diameter:	8-inch
	Sampler Type:	2.5-inch OD Split Spoon

Event Information

Logged by: Nasrin Bastami	Well/Boring Designation: MW-217
Boring Depth: 25 ft bgs	Surface Elevation:
GW Encountered: 20 ft bgs	Start Date: 10/3/14
Static GW Level: 15 ft bgs	End Date: 10/3/14
Notes:	

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/ Description	Well Construction
						Surface: 16" Concrete Core	Concrete
1						Air knife to 5 ft below ground surface (bgs).	
2							Bentonite
3							
4							
5			8	0.1	ML	WELL GRADED SANDY SILT; olive grey; 60% silt, 35% fine sand, 5% gravel; low plasticity; moist; NPO.	2" diameter Sch 40 PVC
			12				
6			10				
7							Sand
8							
9							
10			6	0.4	SM	SILTY SAND; greyish brown; 80% fine sand, 20% silt; no plasticity; moist; NPO.	2" diameter Sch 40 PVC with 0.001" slots
			8				
11			10				
12							
13							
14							
15	▽		9	8.2	SM	SILTY SAND; silty sand with pulverized wood chips; wet; NPO. Low recovery.	
16			40				
			7				
17							
18							
19							
20							



Cardno ATC Project Name: P66-1396

Cardno ATC Project Number: 76.75118.1396

Location: 600 Westlake Avenue, Seattle, WA

Date: 10/3/2014

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/ Description	Well Construction
21			14	6.8	SM	SILTY SAND; brown; 40% silt, 20% silt, 40% organics (wood	2" diameter Sch 40 PVC with 0.001" slots
			17				
			10				
22							
23							
24							
25			14	1.1	ML	SANDY SILT; olive grey; 45% silt, 50% fine sand, 5% organics; low plasticity; saturated, NPO	
26			17				
			7				
27						Boring terminated at 25 feet bgs.	
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							



Cardno ATC Project Name: P66-1396	Drilling Information
Cardno ATC Project Number: 76.75118.1396	Drilling Contractor: <u>CDI</u>
Location: 600 Westlake Avenue	Drilling Method: <u>HS Auger</u>
Seattle, WA	Borehole Diameter: <u>8-inch</u>
	Sampler Type: <u>2.5-inch OD</u>
	<u>Split Spoon</u>

Event Information

Logged by: <u>Nasrin Bastami</u>	Well/Boring Designation: <u>MW-218</u>
Boring Depth: <u>25 ft bgs</u>	Surface Elevation: _____
GW Encountered: <u>20 ft bgs</u>	Start Date: <u>10/3/14</u>
Static GW Level: <u>15 ft bgs</u>	End Date: <u>10/3/14</u>
Notes: _____	

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/ Description	Well Construction
						Surface: 16" Concrete Core	Concrete
1						Air knife to 8 ft below ground surface (bgs).	
2							Bentonite 2" diameter Sch 40 PVC
3							
4							
5							
6							
7							
8							
9			11	1221	SM	SILTY SAND; olive grey; 60% fine sand, 35% siltm 5% gravel; no plasticity; moist; SPO.	Sand
10			18				
11			18				
12							2" diameter Sch 40 PVC with 0.001" slots
13							
14							
15	▽		50/5"	31.0	SM	SILTY SAND; olive grey; 35% fine sand, 15% silt, 45% organics (wood chips); no plasticity; wet; SPO.	
16							
17							
18							
19							
20							



Cardno ATC Project Name: P66-1396

Cardno ATC Project Number: 76.75118.1396

Location: 600 Westlake Avenue, Seattle, WA

Date: 10/3/2014

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/Description	Well Construction
21		5/3"	86.0	SM	SILTY SAND; dark brown; 80% organics, 20% silt, 10% sand; NPO; moist; low recovery.	2" diameter Sch 40 PVC with 0.001" slots	
22							
23							
24							
25		5/4"	1.1	ML	Wood chips, very low recovery.		
26							
27					Boring terminated at 25 feet bgs.		
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							



Cardno ATC Project Name: P66-1396	Drilling Information
Cardno ATC Project Number: 76.75118.1396	Drilling Contractor: <u>CDI</u>
Location: 600 Westlake Avenue	Drilling Method: <u>HS Auger</u>
Seattle, WA	Borehole Diameter: <u>8-inch</u>
	Sampler Type: <u>2.5-inch OD Split Spoon</u>

Event Information

Logged by: <u>Felicity Wood</u>	Well/Boring Designation: <u>MW-219</u>
Boring Depth: <u>20 ft bgs</u>	Surface Elevation: _____
GW Encountered: <u>15 ft bgs</u>	Start Date: <u>10/3/14</u>
Static GW Level: <u>14 ft bgs</u>	End Date: <u>10/3/14</u>
Notes: _____	

Depth (ft)	Recovery	Sample Interval	Blow Counts	PID/FID Readings	USCS Classification	Soil Classification/ Description	Well Construction
						Surface 16" Concrete Core.	
1						Water jet/vac truck to 8 ft below ground surface (bgs).	2" diameter Sch 40 PVC Bentonite Sand 2" diameter Sch 40 PVC with 0.001" slots
2							
3							
4							
5							
6							
7							
8			5	26.2	ML	SANDY SILT; dark grey; 60% silt, 40% fine sand, wood chips present; low plasticity; moist; NPO.	
9			6				
			7				
10							
11							
12							
13							
14	▽						
15			50/6			No recovery; NPO; moist. Encountered solid wood.	
16							
17							
18							
19							
20			50/4			No recovery; NPO; wet. Boring terminated at 20 feet bgs.	