Soil Classification System

MAJOR DIVISIONS			GRAPHIC SYMBOL	USCS LETTER SYMBOL[1]	TYPICAL DESCRIPTIONS[2][3]
COARSE-GRAINED SOIL (More than 50% of material is larger than No. 200 sieve size)	GRAVEL AND GRAVELLY SOIL (More than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVEL (Little or no fines)		GW	Well-graded gravel; gravel/sand mixture(s); little or no fines
				GP	Poorly graded gravel; gravel/sand mixture(s); little or no fines
		GRAVEL WITH FINES (Appreciable amount of fines)		GM	Silty gravel; gravel/sand/silt mixture(s)
				GC	Clayey gravel; gravel/sand/clay mixture(s)
	SAND AND SANDY SOIL (More than 50% of coarse fraction passed through No. 4 sieve)	CLEAN SAND (Little or no fines)		SW	Well-graded sand; gravelly sand; little or no fines
				SP	Poorly graded sand; gravelly sand; little or no fines
		SAND WITH FINES (Appreciable amount of fines)		SM	Silty sand; sand/silt mixture(s)
				SC	Clayey sand; sand/clay mixture(s)
FINE-GRAINED SOIL (More than 50% of material is smaller than No. 200 sieve size)	SILT AND CLAY (Liquid limit less than 50)			ML	Inorganic silt and very fine sand; rock flour; silty or clayey fine sand or clayey silt with slight plasticity
				CL	Inorganic clay of low to medium plasticity; gravelly clay; sandy clay; silty clay; lean clay
				OL	Organic silt; organic, silty clay of low plasticity
	SILT AND CLAY (Liquid limit greater than 50)			MH	Inorganic silt; micaceous or diatomaceous fine sand
				CH	Inorganic clay of high plasticity; fat clay
				OH	Organic clay of medium to high plasticity; organic silt
	HIGHLY ORGANIC SOIL			PT	Peat; humus; swamp soil with high organic content

OTHER MATERIALS	GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
PAVEMENT		AC or PC	Asphalt concrete pavement or Portland cement pavement
ROCK		RK	Rock (See Rock Classification)
WOOD		WD	Wood, lumber, wood chips
DEBRIS		DB	Construction debris, garbage

Notes:
1. USCS letter symbols correspond to symbols used by the Unified Soil Classification System and ASTM classification methods. Dual letter symbols (e.g., SP-SM for sand or gravel) indicate soil with an estimated 5-15% fines. Multiple letter symbols (e.g., ML/CL) indicate borderline or multiple soil classifications.
2. Soil descriptions are based on the general approach presented in the *Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)* outlined in ASTM D 2488. Where laboratory index testing has been conducted, soil classifications are based on the *Standard Test Method for Classification of Soils for Engineering Purposes*, as outlined in ASTM D 2487.
3. Soil description terminology is based on visual estimates (in the absence of laboratory test data) of the percentages of each soil type and is defined as follows:

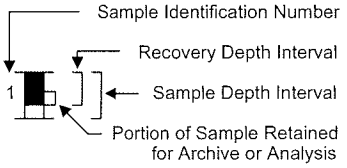
Primary Constituent:	> 50%	- "GRAVEL," "SAND," "SILT," "CLAY," etc.
Secondary Constituents:	> 30% and ≤ 50%	- "very gravelly," "very sandy," "very silty," etc.
	> 15% and ≤ 30%	- "gravelly," "sandy," "silty," etc.
Additional Constituents:	> 5% and ≤ 15%	- "with gravel," "with sand," "with silt," etc.
	≤ 5%	- "trace gravel," "trace sand," "trace silt," etc., or not noted.

Drilling and Sampling Key

SAMPLER TYPE

Code	Description
a	3.25-inch O.D., 2.42-inch I.D. Split Spoon
b	2.00-inch O.D., 1.50-inch I.D. Split Spoon
c	Shelby Tube
d	Grab Sample
e	Single-Tube Core Barrel
f	Double-Tube Core Barrel
g	Other - See text if applicable
1	300-lb Hammer, 30-inch Drop
2	140-lb Hammer, 30-inch Drop
3	Pushed
4	Rotosonic
5	Air Rotary (Rock)
6	Wash Rotary (Rock)
7	Other - See text if applicable

SAMPLE NUMBER & INTERVAL



Field and Lab Test Data

Code	Description
PP = 1.0	Pocket Penetrometer, tsf
TV = 0.5	Torvane, tsf
PID = 100	Photoionization Detector VOC screening, ppm
W = 10	Moisture Content, %
D = 120	Dry Density, pcf
-200 = 60	Material smaller than No. 200 sieve, %
GS	Grain Size - See separate figure for data
AL	Atterberg Limits - See separate figure for data
GT	Other Geotechnical Testing
CA	Chemical Analysis

Groundwater

▽ ATD — Approximate water elevation at time of drilling (ATD) or on date noted. Groundwater levels can fluctuate due to precipitation, seasonal conditions, and other factors.

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Port of Anacortes
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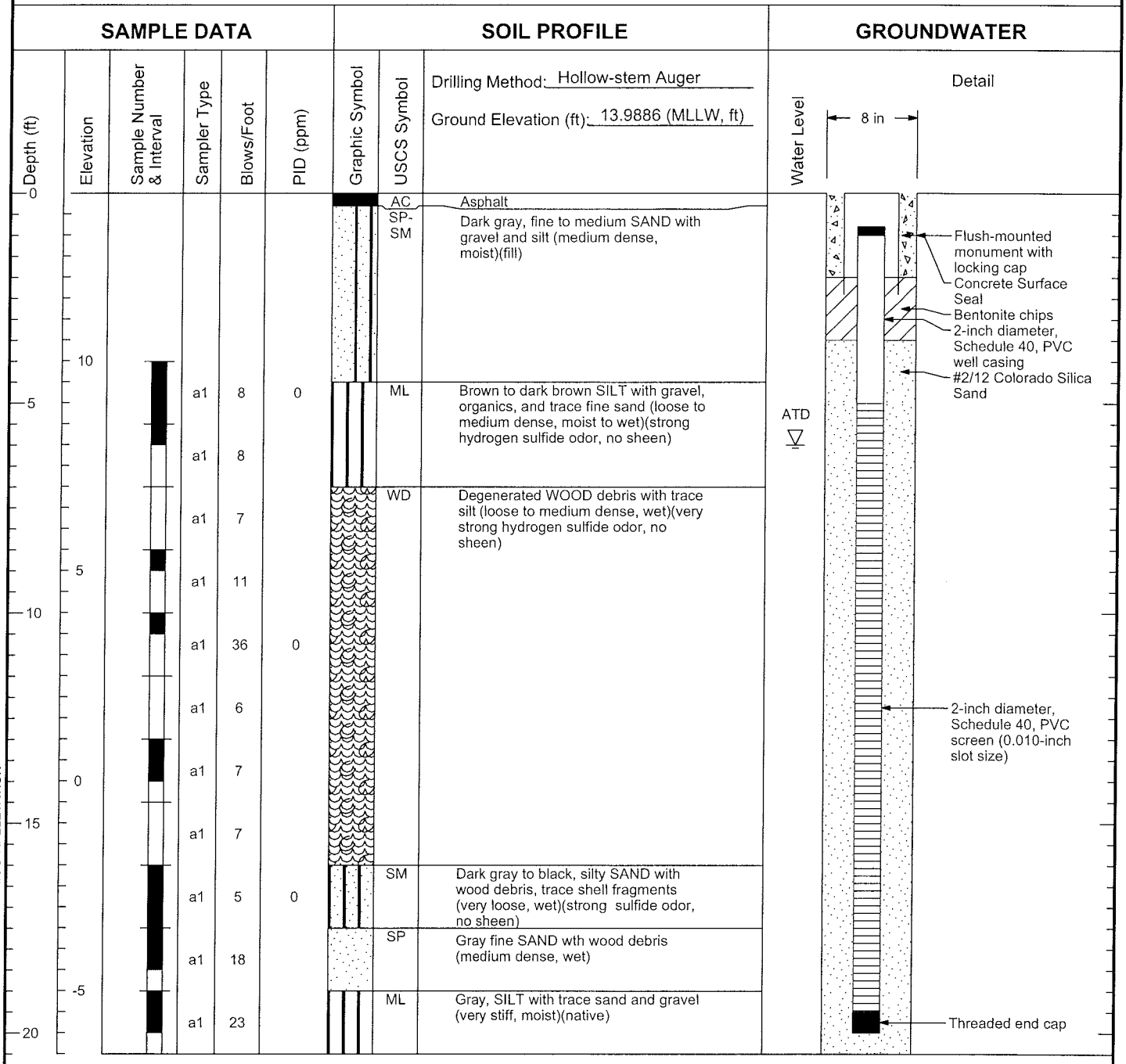
Soil Classification System and Key

Figure H-1

MW-101



Boring Completed 03/29/04
Total Depth of Boring = 20.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

529009, 9/13/06 \\EDMDATA\GINT\GINT7\PROJECTS\529009.GPJ WELL LOG W/ ELEVATION

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Anacortes, WA

Log of MW-101

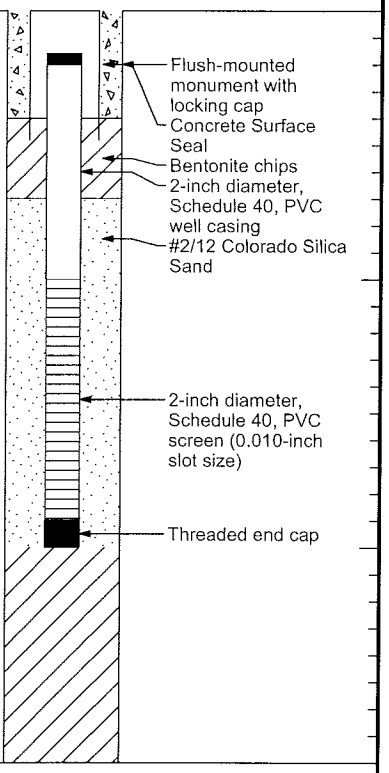
Figure
H-2

MW-102

SAMPLE DATA						SOIL PROFILE			GROUNDWATER
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): 14.40524 (MLLW, ft)	Water Level
0								Bark	
							SM	Dark gray, silty, fine SAND with boulders (medium dense, moist)	
5	10	MW-102 5-6 @1150	a1	11	0		SM	Dark gray, silty, fine SAND with gravel, trace shell fragments (loose, moist) WOOD debris	
			a1	10	0				
	5	MW-102 9-10 @1155	a1	12	0		ML	Gray, SILT, trace wood debris (stiff, moist, wet)	ATD
10			a1	9	0				
			a1	14	0				
			a1	14	0				
15									
20									
25									

Boring Completed 03/30/04
Total Depth of Boring = 14.0 ft.

Detail



Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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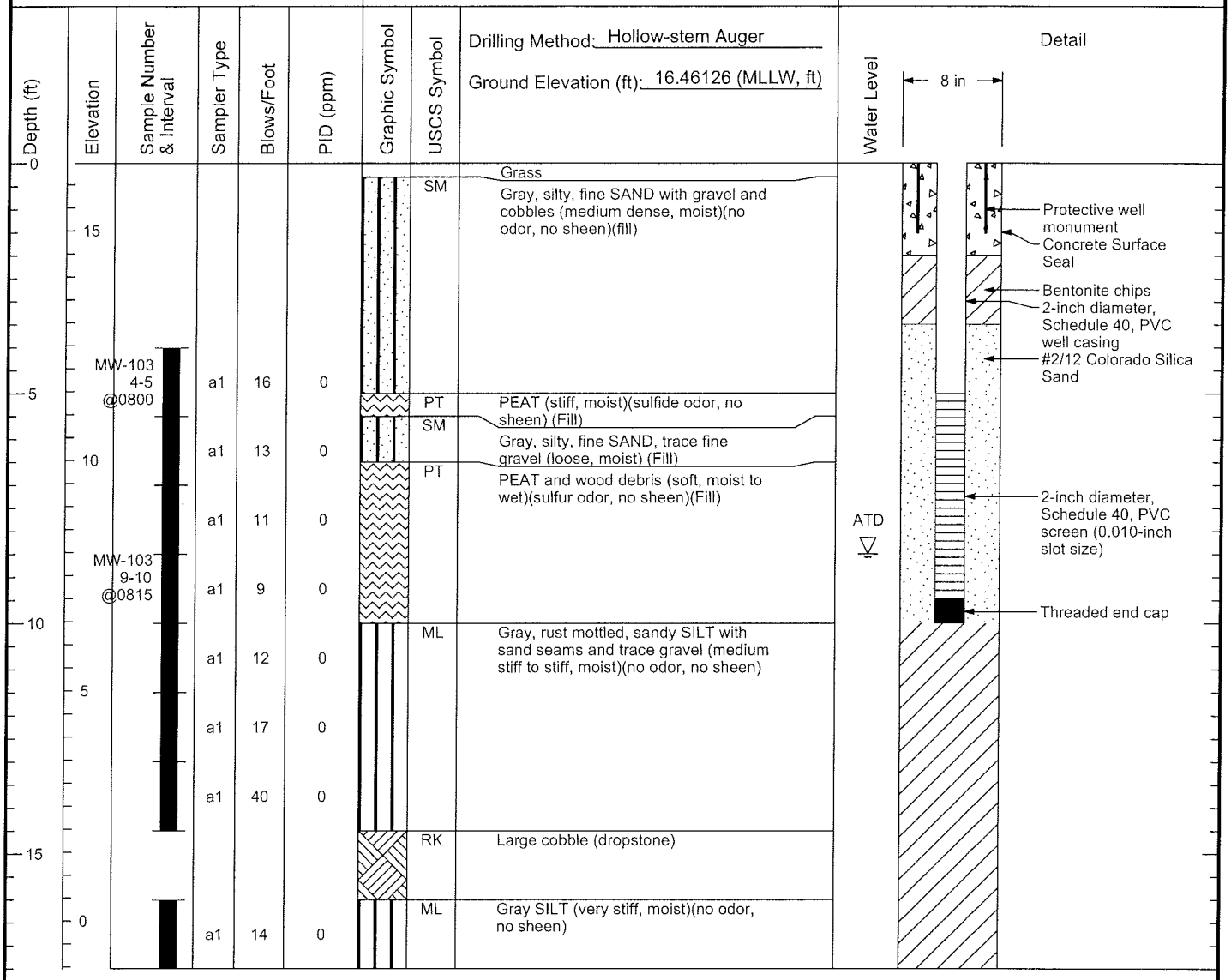
Port of Anacortes Anacortes, WA	Log of MW-102	Figure H-3

MW-103



Boring Completed 03/30/04
Total Depth of Boring = 17.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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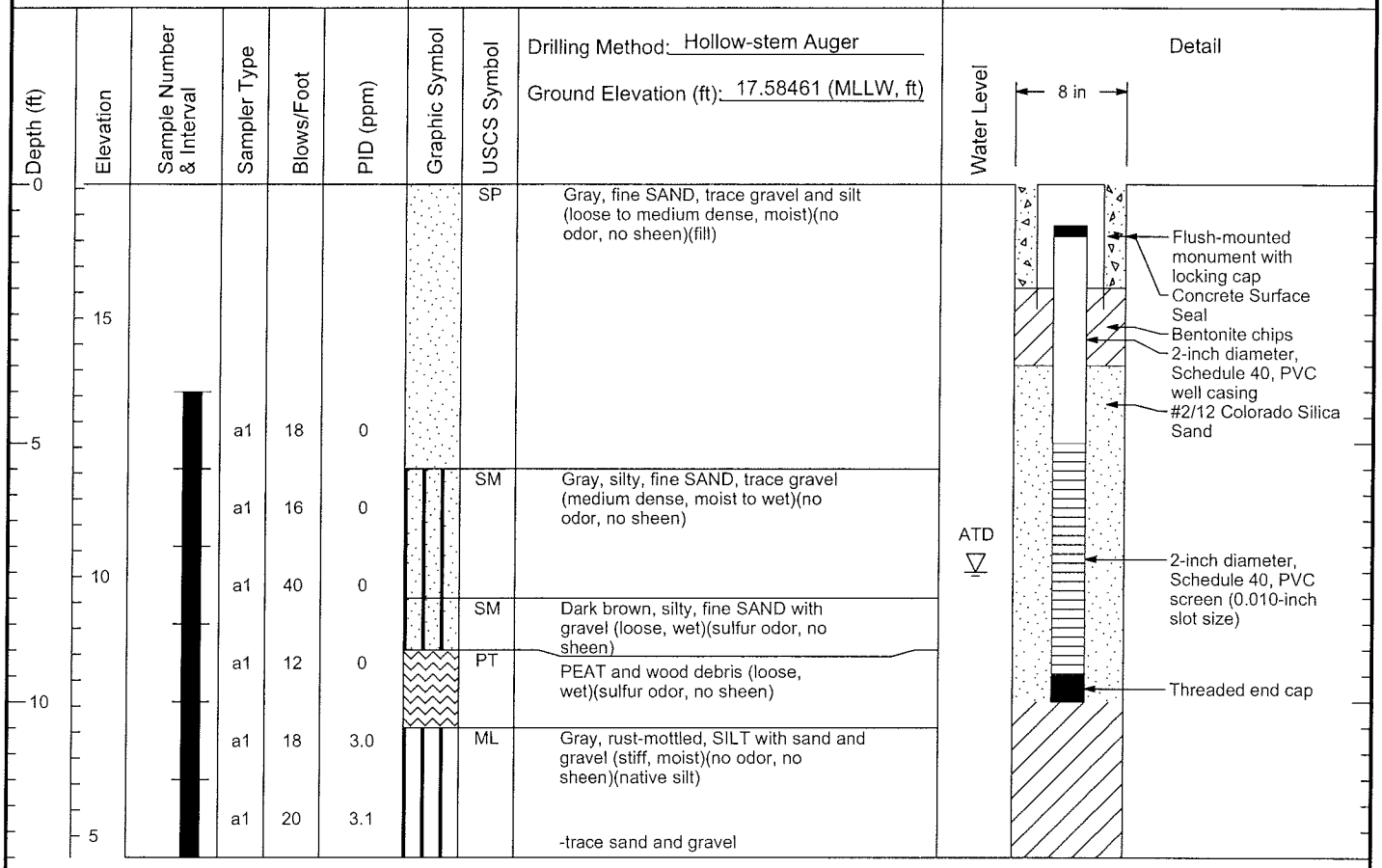
Port of Anacortes Anacortes, WA	Log of MW-103	Figure H-4

MW-104



Boring Completed 03/30/04
Total Depth of Boring = 13.0 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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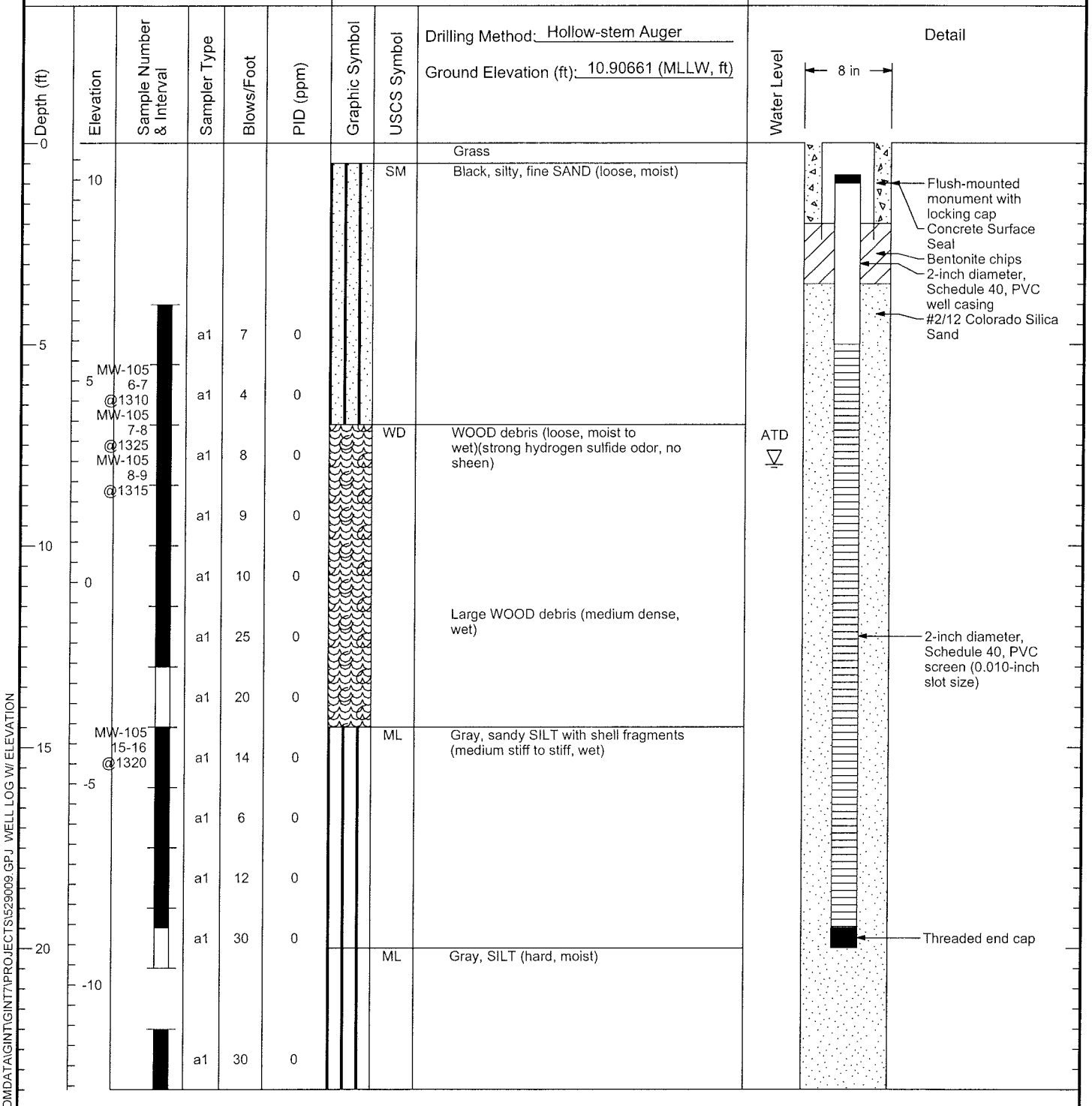
Port of Anacortes Anacortes, WA	Log of MW-104	Figure H-5

MW-105



Boring Completed 03/31/04
Total Depth of Boring = 23.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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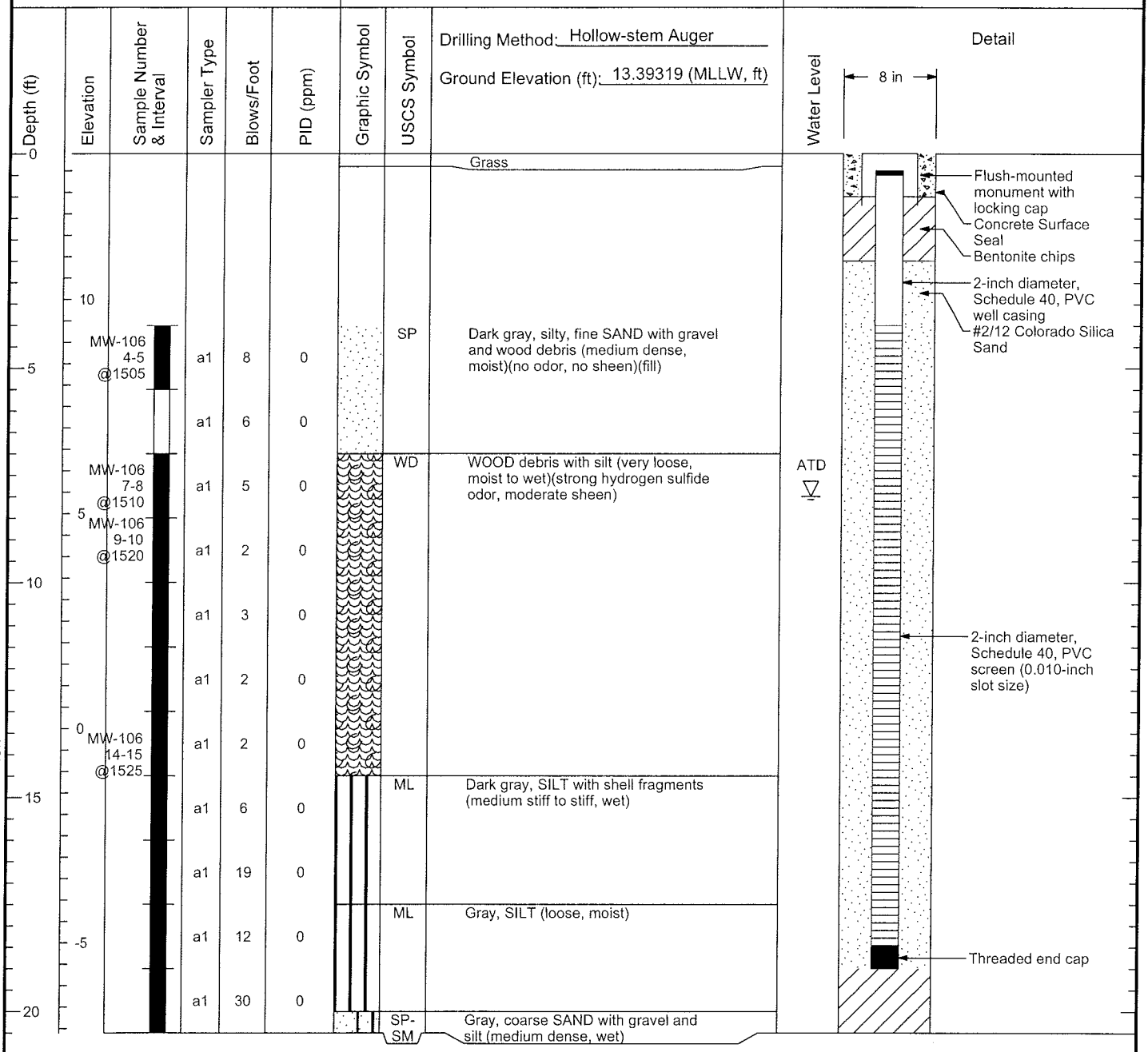
Anacortes, WA

Log of MW-105

Figure
H-6

MW-106



Boring Completed 03/31/04
Total Depth of Boring = 20.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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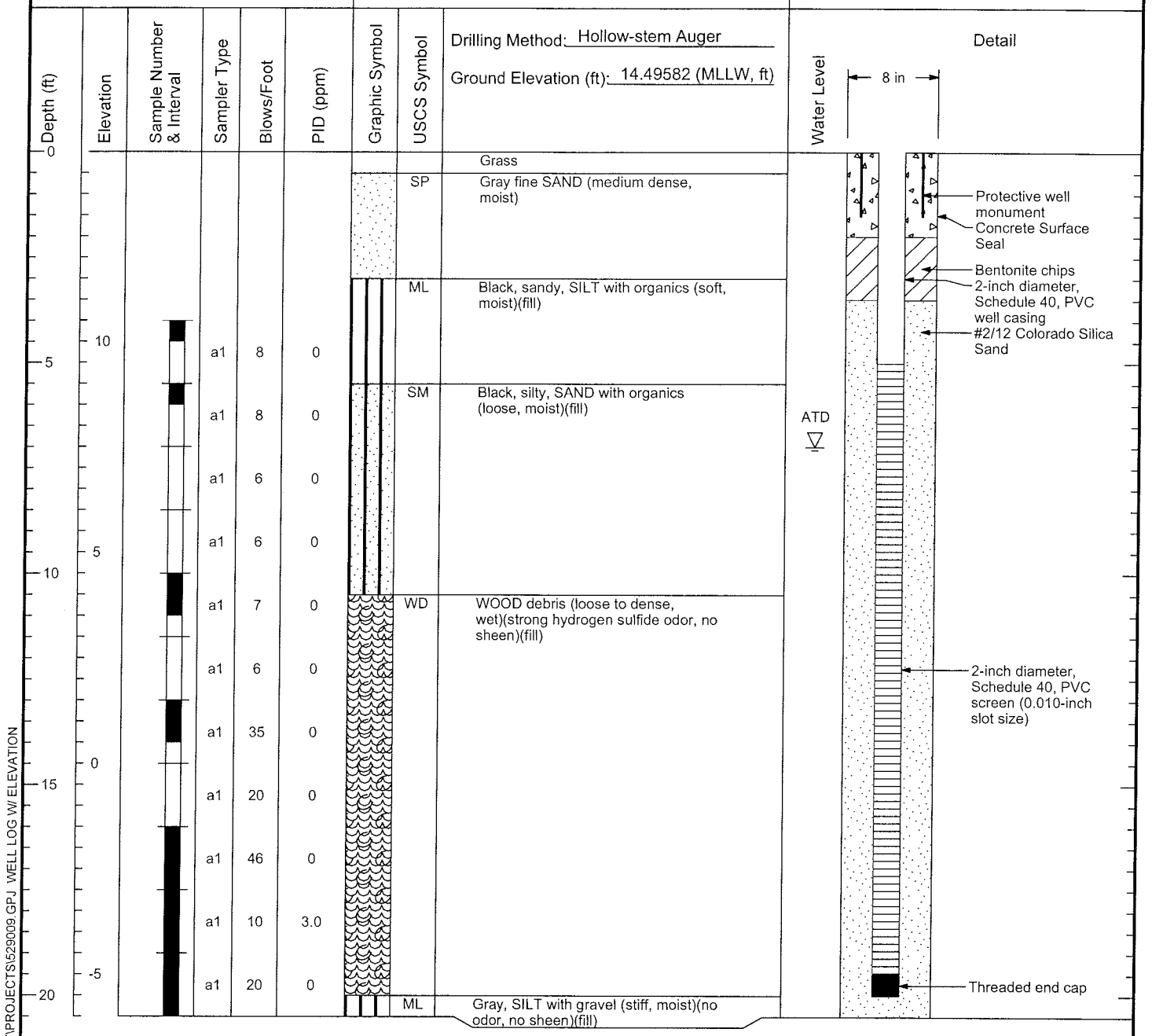
Log of MW-106

Figure
H-7

MW-107



Boring Completed 04/01/04
Total Depth of Boring = 20.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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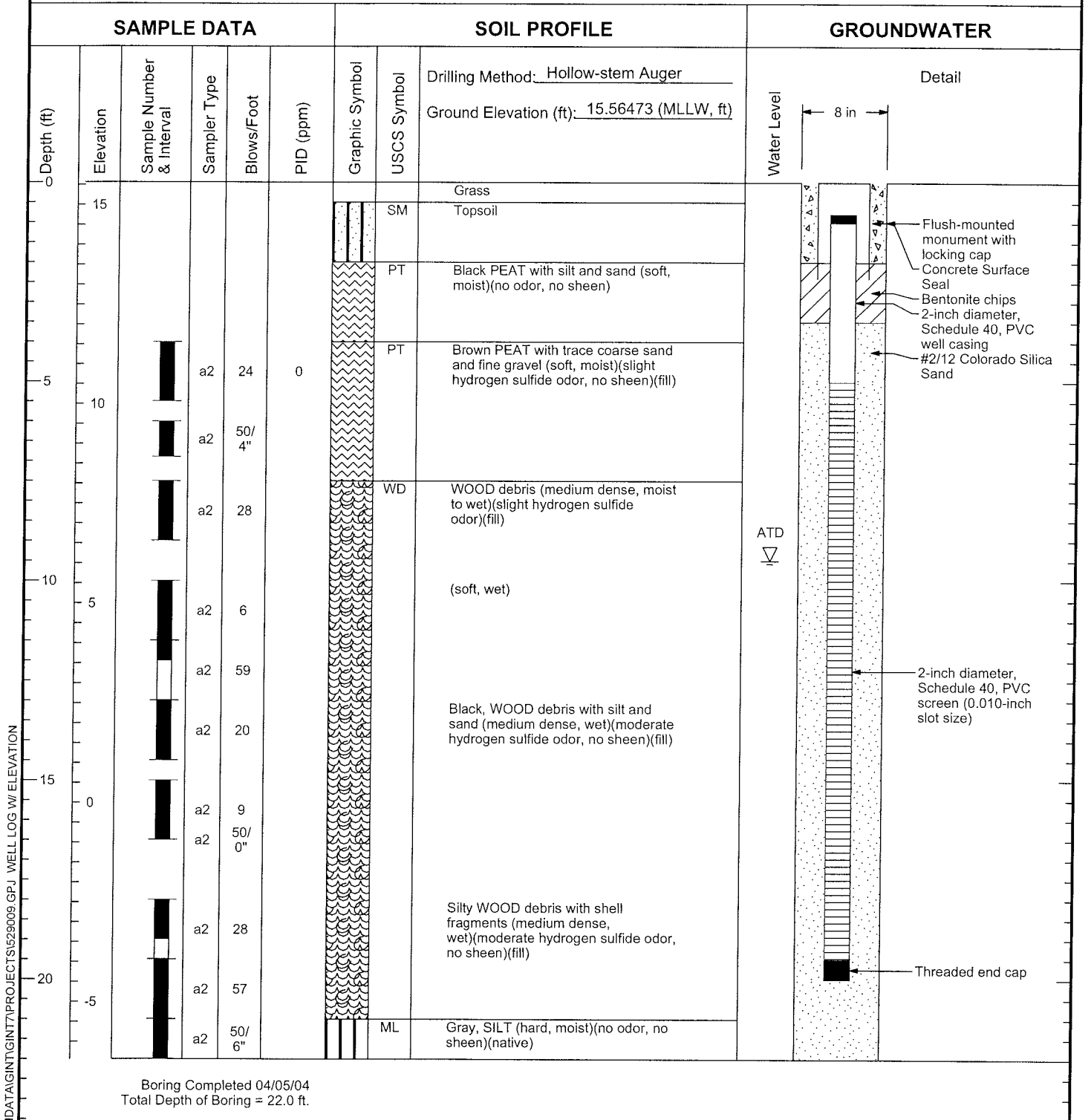
Port of Anacortes Anacortes, WA	Log of MW-107	Figure H-8

MW-108



Boring Completed 04/05/04
Total Depth of Boring = 22.0 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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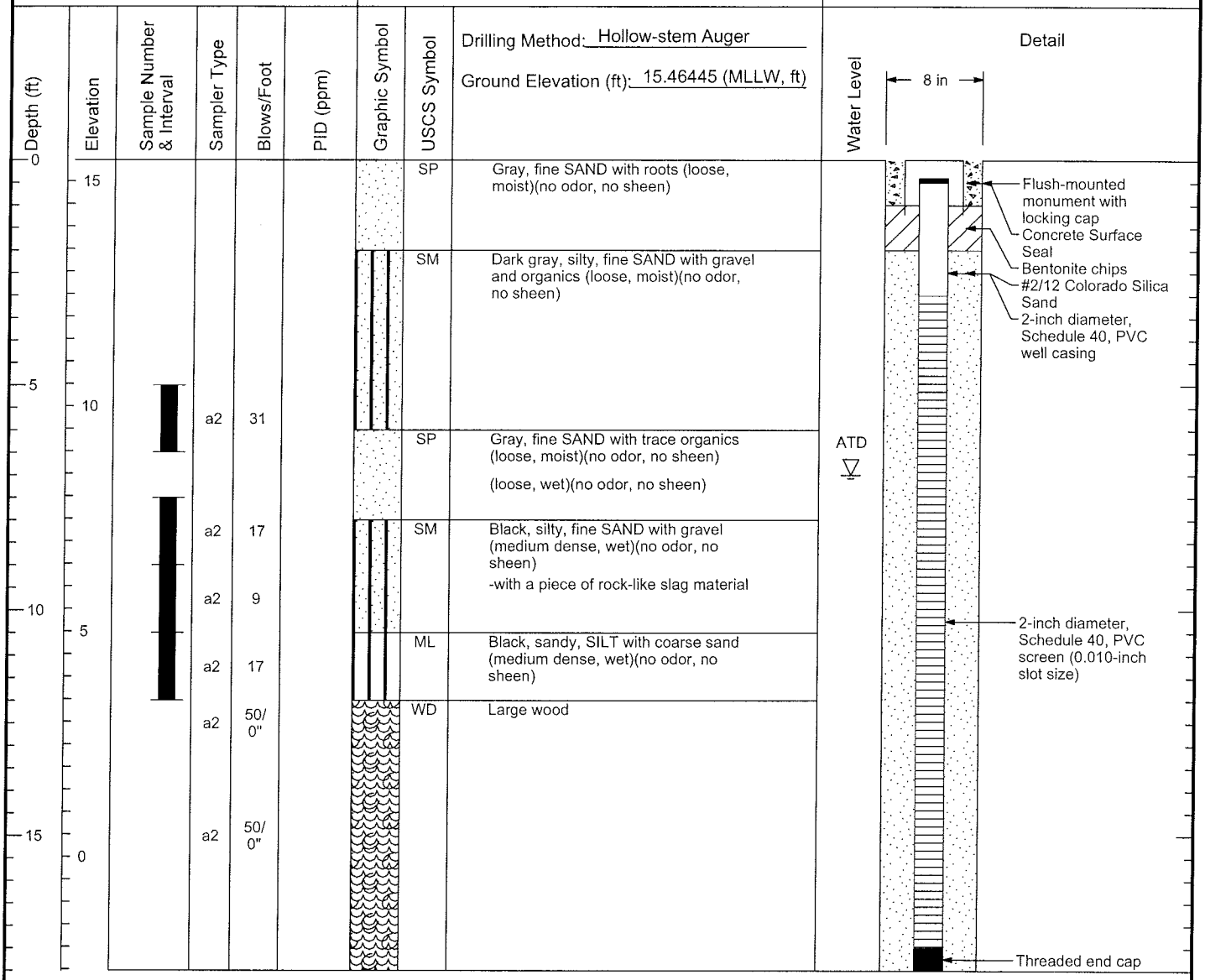
Log of MW-108

Figure
H-9

MW-109



Boring Completed 04/05/04
Total Depth of Boring = 18.0 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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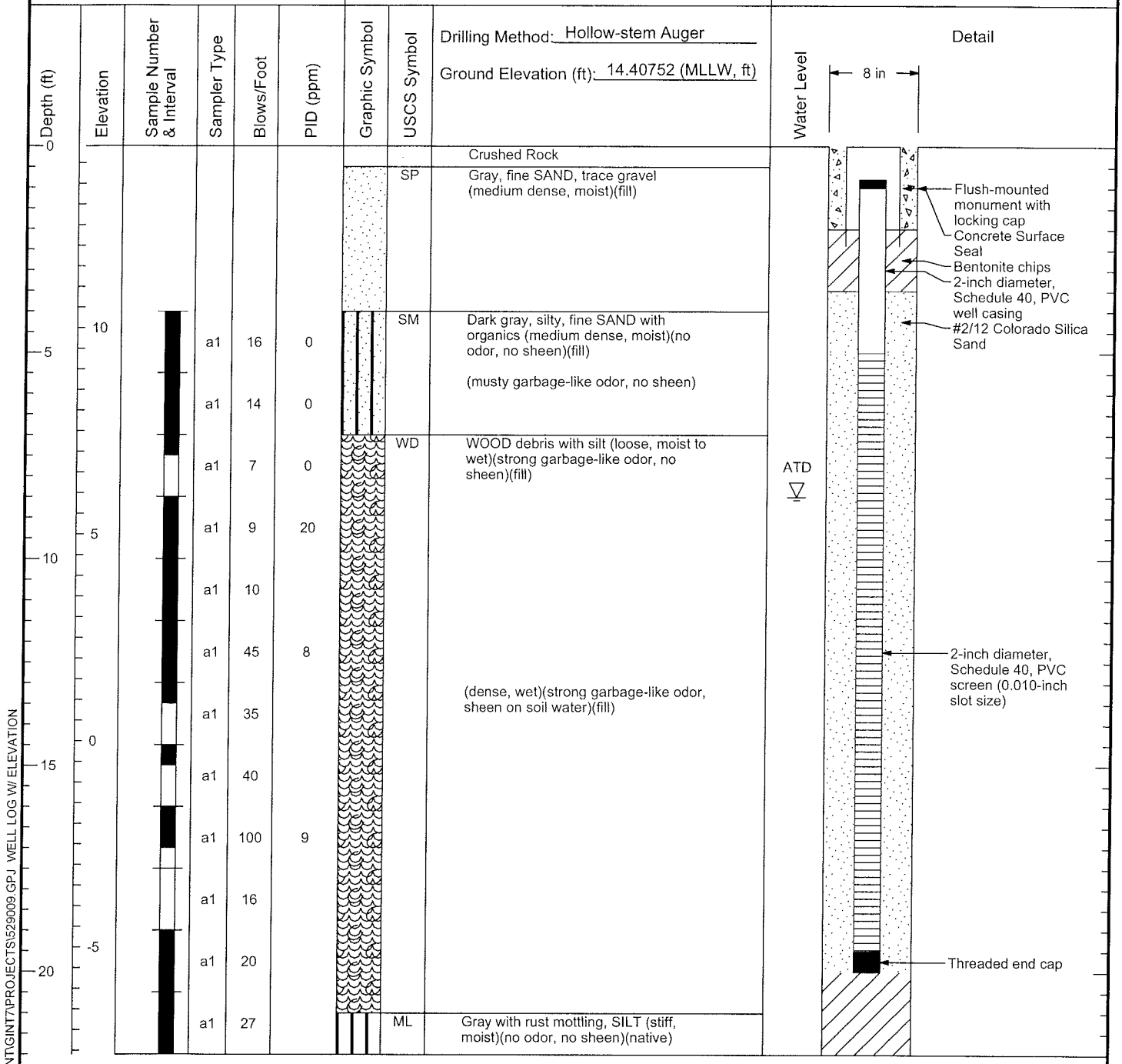
Port of Anacortes
Anacortes, WA

Log of MW-109

Figure
H-10

MW-110



Boring Completed 04/01/04
Total Depth of Boring = 22.0 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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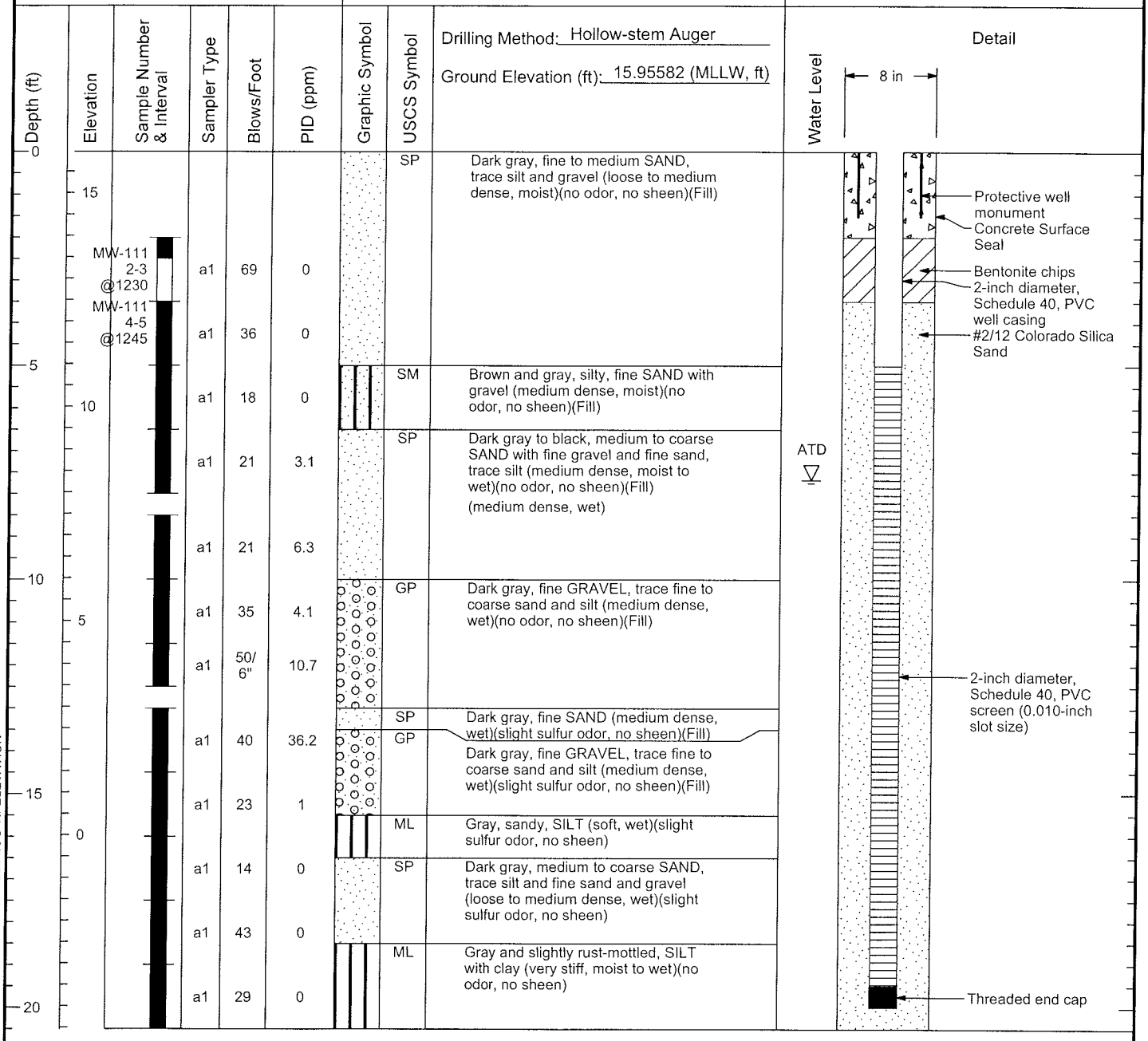
Port of Anacortes Anacortes, WA	Log of MW-110	Figure H-11

MW-111



Boring Completed 03/29/04
Total Depth of Boring = 20.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Port of Anacortes
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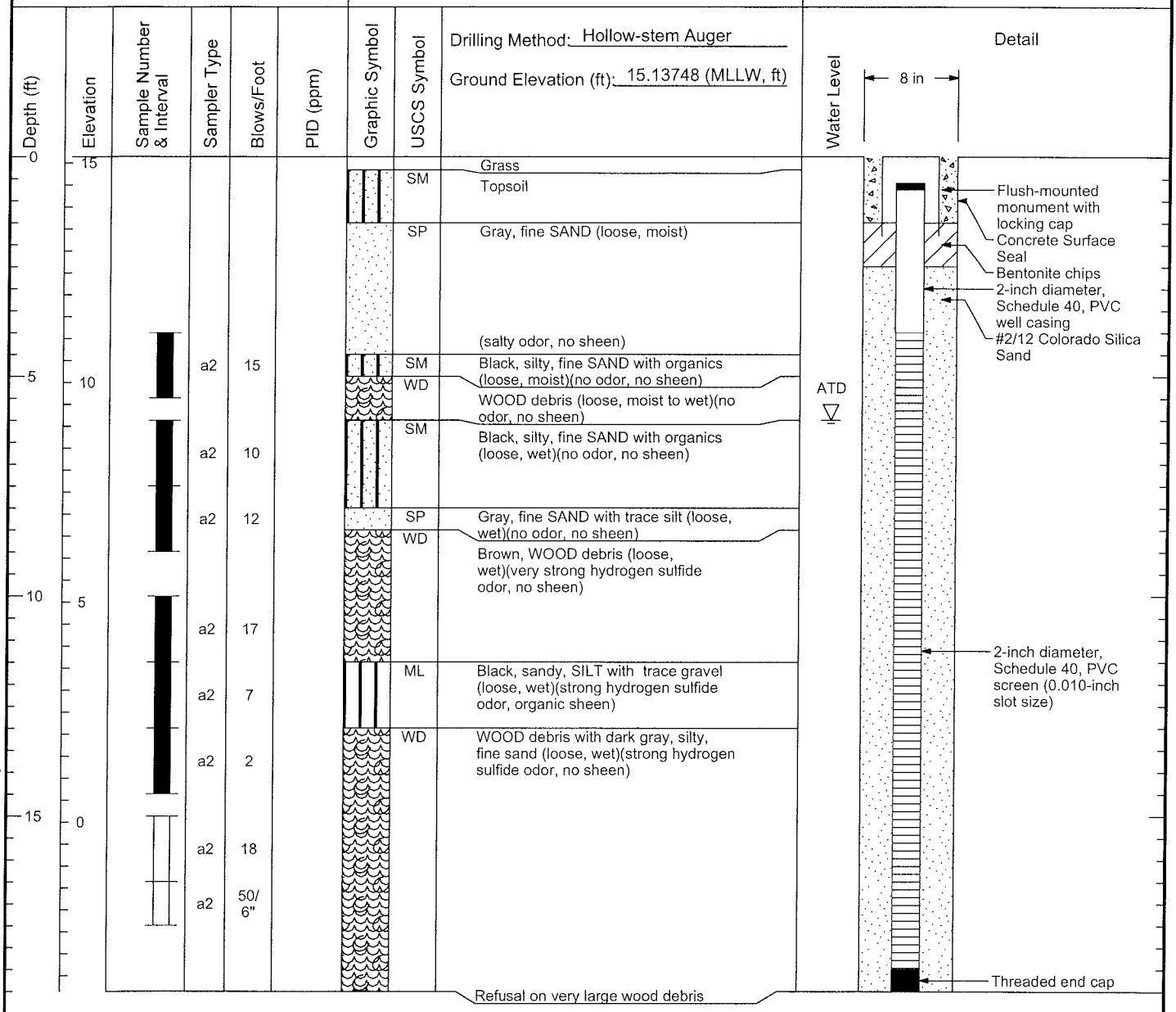
Log of MW-111

Figure
H-12

MW-112



Boring Completed 04/05/04
Total Depth of Boring = 19.0 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

529009. 9/13/06 \\EDMDATA\GINT\GINT7\PROJECTS\529009.GPJ WELL LOG W/ ELEVATION

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Anacortes, WA

Log of MW-112

Figure
H-13

LSB-1

SAMPLE DATA					SOIL PROFILE			GROUNDWATER
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): 12.84724 (MLLW, ft)	Water Level
0								Grass	
	10						SM	Black, silty, fine SAND with gravel and organics (very loose, moist)(no odor, no sheen)	
5		LSB-1 4-4.5 @1345	a1	2	0				
		LSB-1 6-6.5 @1400	a1	21	0				ATD
	5		a1	2			WD	WOOD debris (medium dense to dense, moist to wet)(slight hydrogen sulfide odor, no sheen)(fill)	
10		LSB-1 9-10 @1405	a1	2	0				
			a1	35					
	0		a1	48					
			a1	23					
15			a1	38					
			a1	7					
	-5	LSB-1 18-19 @1410	a1	6	0		ML	Gray, SILT with shell fragments (medium stiff, wet)(no odor, no sheen)(native)	
20			a1	27				-no shell fragments (very stiff, wet)(no odor, no sheen)(native)	
25									
30									
35									

Boring Completed 04/01/04
Total Depth of Boring = 20.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

529009 9/13/06 \\EDMDATA\GINT\GINT7\PROJECTS\529009.GPJ SOIL BORING LOG W/ ELEV

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Port of Anacortes
Anacortes, WA

Log of LSB-1

Figure
H-14

LSB-2

SAMPLE DATA					SOIL PROFILE			GROUNDWATER
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): 12.59516 (MLLW, ft)	Water Level
0							GP	Brown-gray GRAVEL (loose, moist)(no odor, no sheen)	
5	10	LSB-2 4-5 @1500	a1	10	0				
		LSB-2 6-7 @1505	a1	7	0				
	5		a1	9			SM	Black, silty, fine SAND with gravel (loose, moist)(strong oil odor, slight sheen)	ATD
10			a1	52			WD	WOOD debris (hard, moist to wet)(strong hydrogen sulfide odor, no sheen)	
		LSB-2 10-11 @1510	a1	33	0				
	0		a1	43					
15			a1	50/ 2"				Drilled through large wood debris (logs) from 13 to 17 ft.	
	-5	LSB-2 17-18 @1525	a1	25	0			(very stiff, wet)(burnt odor, no sheen) (wet)	
20			a1	24					
			a1	45					
	-10		a1	35			ML	Gray, SILT, trace coarse sand (hard, moist)(no odor, no sheen)	
25			a1						

Boring Completed 04/01/04
Total Depth of Boring = 24.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Port of Anacortes
Anacortes, WA

Log of LSB-2

Figure
H-15

LSB-3

SAMPLE DATA					SOIL PROFILE			GROUNDWATER
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): 13.07696 (MLLW, ft)	Water Level
0							SM	Black, silty, fine SAND (very loose to loose, moist to wet)(no odor, no sheen)(fill)	
5	10	LSB-3 4-5 @1050	a1	6	0				ATD
		LSB-3 6-7 @1100	a1		0		ML	Black, sandy SILT (loose, wet)(no odor, no sheen)(fill)	
	5		a1	50/ 0"			WD	WOOD debris (loose, wet)(hydrogen sulfide odor, no sheen)(fill)	
10			a1	8					
			a1	10					
	0		a1	8					
			a1	9					
15			a1	27	0			(medium dense)	
			a1	7					
	-5		a1	7					
20			a1	25			ML	Gray, SILT with shell fragments (medium stiff, wet)(no odor, no sheen)(native)	
								Gray, SILT, trace coarse sand (very stiff, moist)(no odor, no sheen)(native)	
25									
30									

Boring Completed 04/02/04
Total Depth of Boring = 20.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Port of Anacortes
Anacortes, WA

Log of LSB-3

Figure
H-16

LSB-4

SAMPLE DATA					SOIL PROFILE			GROUNDWATER
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): 14.4011 (MLLW, ft)	Water Level
0								Grass	
							SM	Topsoil	
							SM	Brown, silty, fine SAND with gravel (medium dense, moist)(no odor, no sheen)	
5	10	LSB-4 4-5 @1215	a1	6	0		ML	Black, sandy SILT with organics (medium stiff, moist)(no odor, no sheen)	
		LSB-4 6-7 @1220	a1	5	0				▽ ATD
			a1	4				(medium stiff, wet)	
10	5		a1	8			WD	WOOD debris (loose, wet)(strong hydrogen sulfide odor, no sheen)	
		LSB-4 10-11 @1225	a1	14	0			WOOD debris with silt (loose, wet)(strong hydrogen sulfide odor, no sheen)	
			a1	5					
		LSB-4 14-15 @1230	a1	4					
15	0		a1	12	0				
			a1	6					
			a1						
	-5		a1	24			ML	Gray, SILT, trace coarse sand and shell fragments (medium stiff, moist)(no odor, no sheen)	
20								-no shell fragments (very stiff, moist)(no odor, no sheen)	
25									
30									

Boring Completed 04/02/04
Total Depth of Boring = 20.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

529009. 9/13/06 \\EDMDATA\GINT\GINT7\PROJECTS\529009.GPJ SOIL BORING LOG W/ ELEV

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Anacortes, WA

Log of LSB-4

Figure
H-17

LSB-5

SAMPLE DATA						SOIL PROFILE			GROUNDWATER
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): 14.83549 (MLLW, ft)	Water Level
0							SM	Dark gray, silty, fine SAND with gravel (medium dense, moist)(no odor, no sheen)	
5	10	LSB-5 4-5 @1015	a1	19	0				
			a1	8			SM	Black, silty, fine SAND with gravel (loose, moist)(no odor, no sheen)	
		LSB-5 7-8 @1045	a1	5	0				▽ ATD
		LSB-5 9-10 @1050	a1	6	0			(loose, wet)(no odor, heavy petroleum/creosote sheen)	
10	5	SLB-5 10-11 @1100	a1	8					
			a1	10	0		WD	WOOD debris (loose, wet)(strong hydrogen sulfide odor, heavy sheen)	
		LSB-5 14-15 @1105	a1	12					
15	0		a1	10	0				
			a1	8					
			a1	11					
							ML	Gray, SILT, trace shell fragments (stiff, moist)	
20	-5		a1	11				-with rust mottling	
25									
30									

Boring Completed 03/31/04
Total Depth of Boring = 20.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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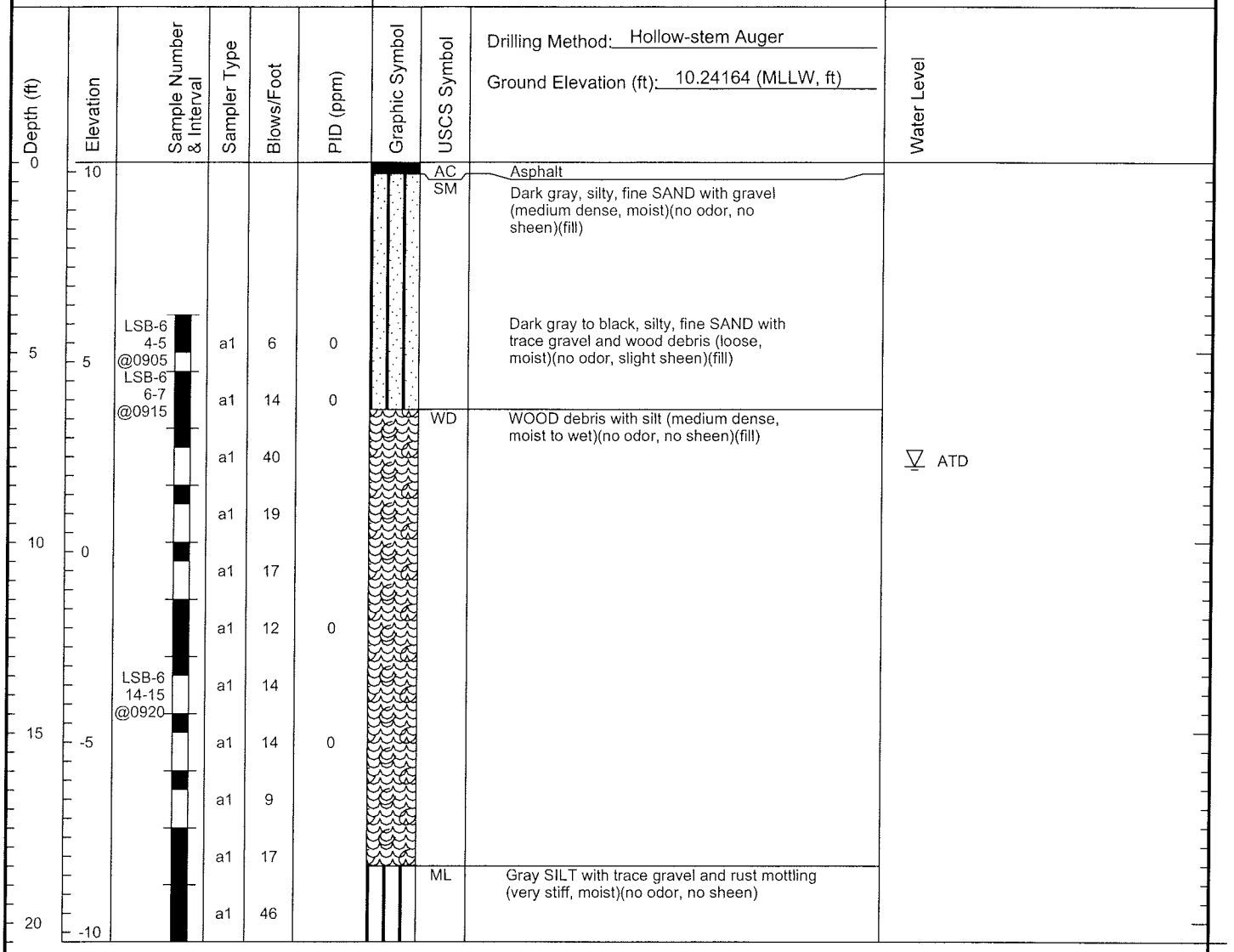
Log of LSB-5

Figure
H-18

LSB-6



Boring Completed 03/31/04
Total Depth of Boring = 20.5 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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LSB-7

SAMPLE DATA					SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: Hollow-stem Auger Ground Elevation (ft): 12.08907 (MLLW, ft)	Water Level
0							Grass	
						SM	Topsoil	
						ML	Black, sandy, SILT, trace gravel (medium stiff, moist)(no odor, no sheen)(fill)	
5	LSB-7 4-5 @0845	a1	7	0				ATD
		a1	7			WD	WOOD debris (loose, wet)(strong hydrogen sulfide odor, no sheen)(fill)	
	LSB-7 7-8 @0850	a1	8	0				
10		a1	15					
		a1	17					
		a1	46					
		a1	30					
15		a1	9	0				
		a1	50/6"					
		a1	9			ML	Gray, SILT (stiff, wet)(no odor, no sheen)(native)	
20		a1	12	0			(stiff, moist)(no odor, no sheen)(native)	

Boring Completed 04/02/04
Total Depth of Boring = 21.0 ft.

Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Log of LSB-7

Figure
H-20

LSB-8

Drilling Method: Hollow-stem Auger

Ground Elevation (ft): 12.08347 (MLLW, ft)

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile	Water Level
0								Grass	
							SM	Topsoil	
	10						SM	Brown, silty, fine SAND with gravel (medium dense, moist)(no odor, no sheen)(fill)	
								Black, silty, fine SAND with gravel (loose, moist to wet)(no odor, no sheen)(fill)	
5		LSB-8 4-5 @0945	a1	8	0		WD	WOOD debris (loose, wet)(slight hydrogen sulfide odor, no sheen)	ATD
		LSB-8 6-7 @0955	a1	11	0		ML	Black, SILT with wood debris (soft, wet)(no odor, no sheen)(fill)	
	5		a1	2					
			a1	4	0				
10			a1	5					
			a1	7			WD	WOOD debris with fine sand (loose, wet)(strong hydrogen sulfide odor, no sheen)(fill)	
	0		a1	5	0				
15			a1	3					
			a1	5					
	-5		a1	8			ML	Gray, SILT with trace gravel and shell fragments (medium stiff to stiff, wet)(no odor, no sheen)(native)	
20			a1	20	0		ML	Gray, SILT with trace coarse sand (very stiff, moist)(no odor, no sheen)(native)	
25									
30									

Boring Completed 04/01/04
Total Depth of Boring = 20.5 ft.

Notes:
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2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Log of LSB-8

Figure
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