

May 9, 2013

Washington State Department of Ecology  
3190 160<sup>th</sup> Avenue SE  
Bellevue, Washington 98008

Attn: Robin Harrover

**RE: DIRECT PUSH DRILLING PROGRAM – CITY OF ALGONA  
DATA SUBMITTAL**

Dear Ms Harrover:

Boeing completed 49 direct-push borings and associated groundwater quality samples in the Algona residential area west of the Boeing Auburn Facility. The field work began on April 3, 2013 and ended on April 30, 2013. Per the approved work plan (Landau Associates 2013), we are submitting a final data table, the validated data packages, and the 49 direct-push boring logs on an expedited basis. Additionally, we are including two figures with the expedited submittal that document boring locations and selected groundwater quality results. A draft technical memorandum summarizing the findings of the investigation will be submitted to Ecology for review by May 28, 2013 in accordance with the schedule outlined in the work plan. If you have any questions about the information contained in this letter, please contact me at (253) 926-2493 or Jim Bet at (206) 679-0433.

LANDAU ASSOCIATES, INC.



Jennifer W. Wynkoop  
Associate Environmental Scientist

JWW/jrc

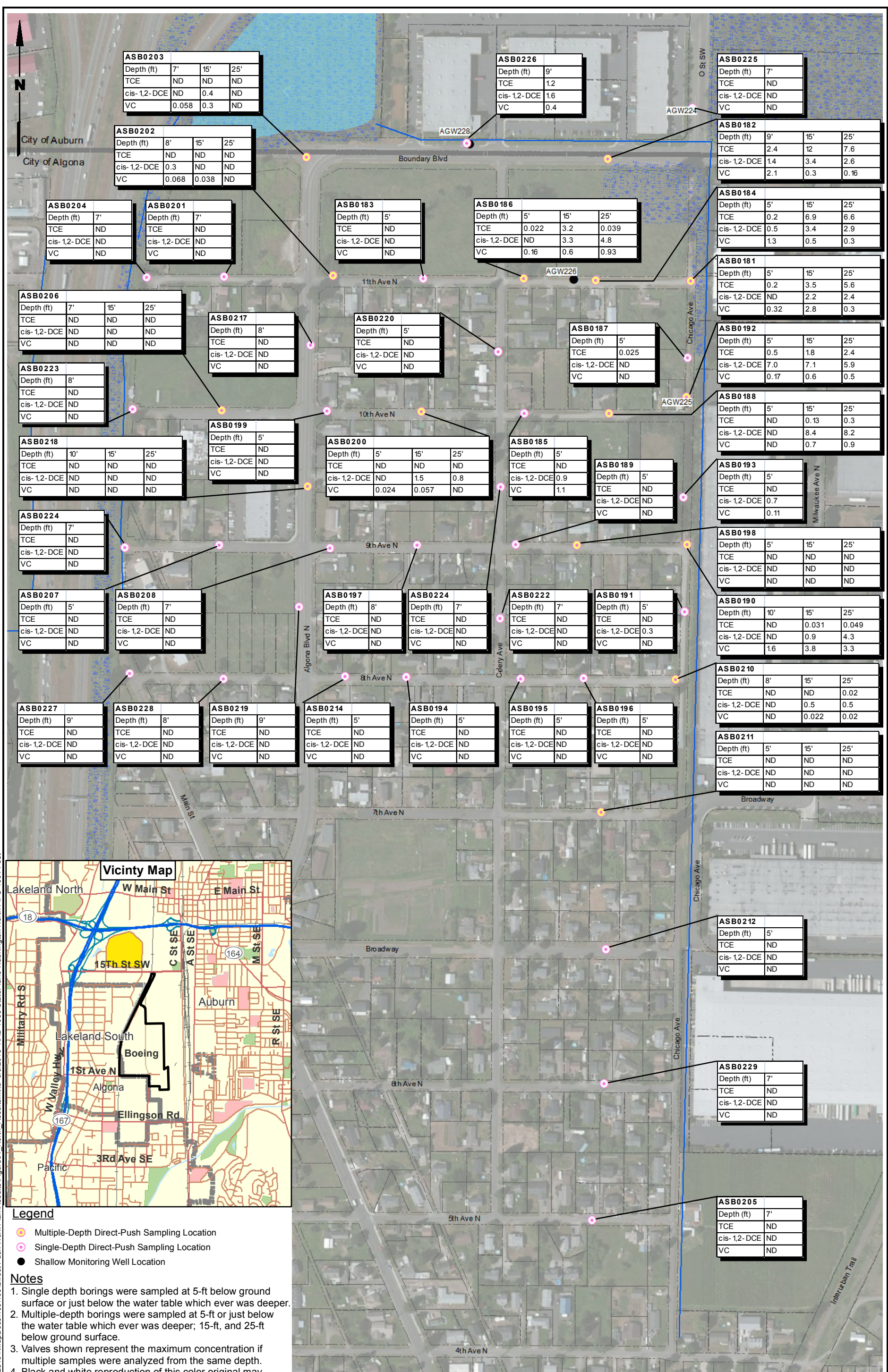
**REFERENCE**

Landau Associates. 2013. Report: *Work Plan, Direct-Push Probe Investigation Winter 2013, Boeing Auburn Facility, Auburn, Washington*. Prepared for: The Boeing Company. March 21.

Attachments: Figure 1: Direct-Push Drilling Results Algona North – April 2013  
Figure 2: Direct-Push Drilling Results Algona South – April 2013  
Table 1: Direct-Push Sample Results – April 2013  
Boring Logs  
Laboratory Data Packages (provided on DVD)

cc: Jim Bet, The Boeing Company (electronic copy only)  
Jim Swortz, The Boeing Company  
Ed Jones, Washington State Department of Ecology (electronic copy only)

Y:\Projects\025164\MapDocs\100109\Direct Push Work Plan\Results\Figure01\_North\_Results.mxd\_5/8/2013\_NAD\_1983\_StatePlane\_Washington\_North\_FIPS\_4601\_Feet



ASB0203			
Depth (ft)	7'	15'	25'
TCE	ND	ND	ND
cis-1,2-DCE	ND	0.4	ND
VC	0.058	0.3	ND

ASB0226			
Depth (ft)	9'		
TCE	1.2		
cis-1,2-DCE	1.6		
VC	0.4		

ASB0225			
Depth (ft)	7'		
TCE	ND		
cis-1,2-DCE	ND		
VC	ND		

ASB0202			
Depth (ft)	8'	15'	25'
TCE	ND	ND	ND
cis-1,2-DCE	0.3	ND	ND
VC	0.068	0.038	ND

ASB0182			
Depth (ft)	9'	15'	25'
TCE	2.4	12	7.6
cis-1,2-DCE	1.4	3.4	2.6
VC	2.1	0.3	0.16

ASB0204			
Depth (ft)	7'		
TCE	ND		
cis-1,2-DCE	ND		
VC	ND		

ASB0201			
Depth (ft)	7'		
TCE	ND		
cis-1,2-DCE	ND		
VC	ND		

ASB0183			
Depth (ft)	5'		
TCE	ND		
cis-1,2-DCE	ND		
VC	ND		

ASB0186			
Depth (ft)	5'	15'	25'
TCE	0.022	3.2	0.039
cis-1,2-DCE	ND	3.3	4.8
VC	0.16	0.6	0.93

ASB0184			
Depth (ft)	5'	15'	25'
TCE	0.2	6.9	6.6
cis-1,2-DCE	0.5	3.4	2.9
VC	1.3	0.5	0.3

ASB0181			
Depth (ft)	5'	15'	25'
TCE	0.2	3.5	5.6
cis-1,2-DCE	ND	2.2	2.4
VC	0.32	2.8	0.3

ASB0192			
Depth (ft)	5'	15'	25'
TCE	0.5	1.8	2.4
cis-1,2-DCE	7.0	7.1	5.9
VC	0.17	0.6	0.5

ASB0188			
Depth (ft)	5'	15'	25'
TCE	ND	0.13	0.3
cis-1,2-DCE	ND	8.4	8.2
VC	ND	0.7	0.9

ASB0193			
Depth (ft)	5'		
TCE	ND		
cis-1,2-DCE	0.7		
VC	0.11		

ASB0198			
Depth (ft)	5'	15'	25'
TCE	ND	ND	ND
cis-1,2-DCE	ND	ND	ND
VC	ND	ND	ND

ASB0190			
Depth (ft)	10'	15'	25'
TCE	ND	0.031	0.049
cis-1,2-DCE	ND	0.9	4.3
VC	1.6	3.8	3.3

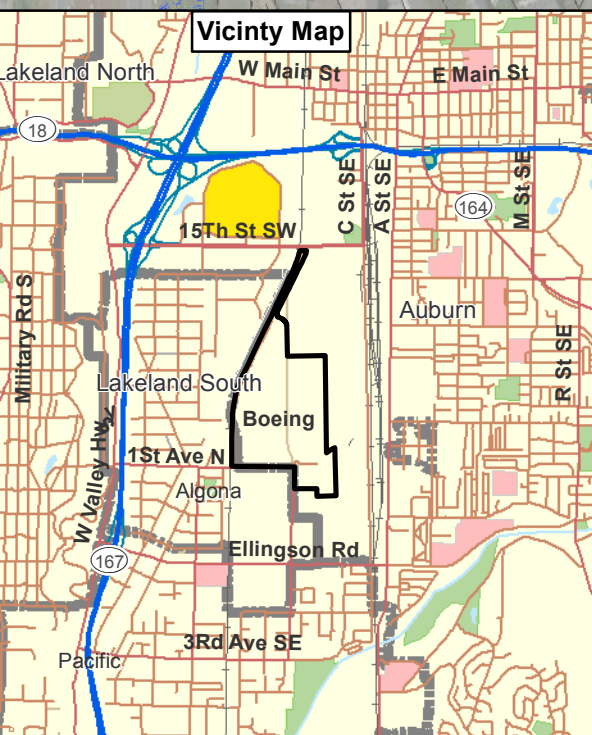
ASB0210			
Depth (ft)	8'	15'	25'
TCE	ND	ND	0.02
cis-1,2-DCE	ND	0.5	0.5
VC	ND	0.022	0.02

ASB0211			
Depth (ft)	5'	15'	25'
TCE	ND	ND	ND
cis-1,2-DCE	ND	ND	ND
VC	ND	ND	ND

ASB0212			
Depth (ft)	5'		
TCE	ND		
cis-1,2-DCE	ND		
VC	ND		

ASB0229			
Depth (ft)	7'		
TCE	ND		
cis-1,2-DCE	ND		
VC	ND		

ASB0205			
Depth (ft)	7'		
TCE	ND		
cis-1,2-DCE	ND		
VC	ND		



**Legend**

- Multiple-Depth Direct-Push Sampling Location
- Single-Depth Direct-Push Sampling Location
- Shallow Monitoring Well Location

**Notes**

1. Single depth borings were sampled at 5-ft below ground surface or just below the water table which ever was deeper.
2. Multiple-depth borings were sampled at 5-ft or just below the water table which ever was deeper; 15-ft, and 25-ft below ground surface.
3. Valves shown represent the maximum concentration if multiple samples were analyzed from the same depth.
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Base map source: Aerial Photo Source: Bing Maps 2010; Parcel Data Source: King County GIS 2010

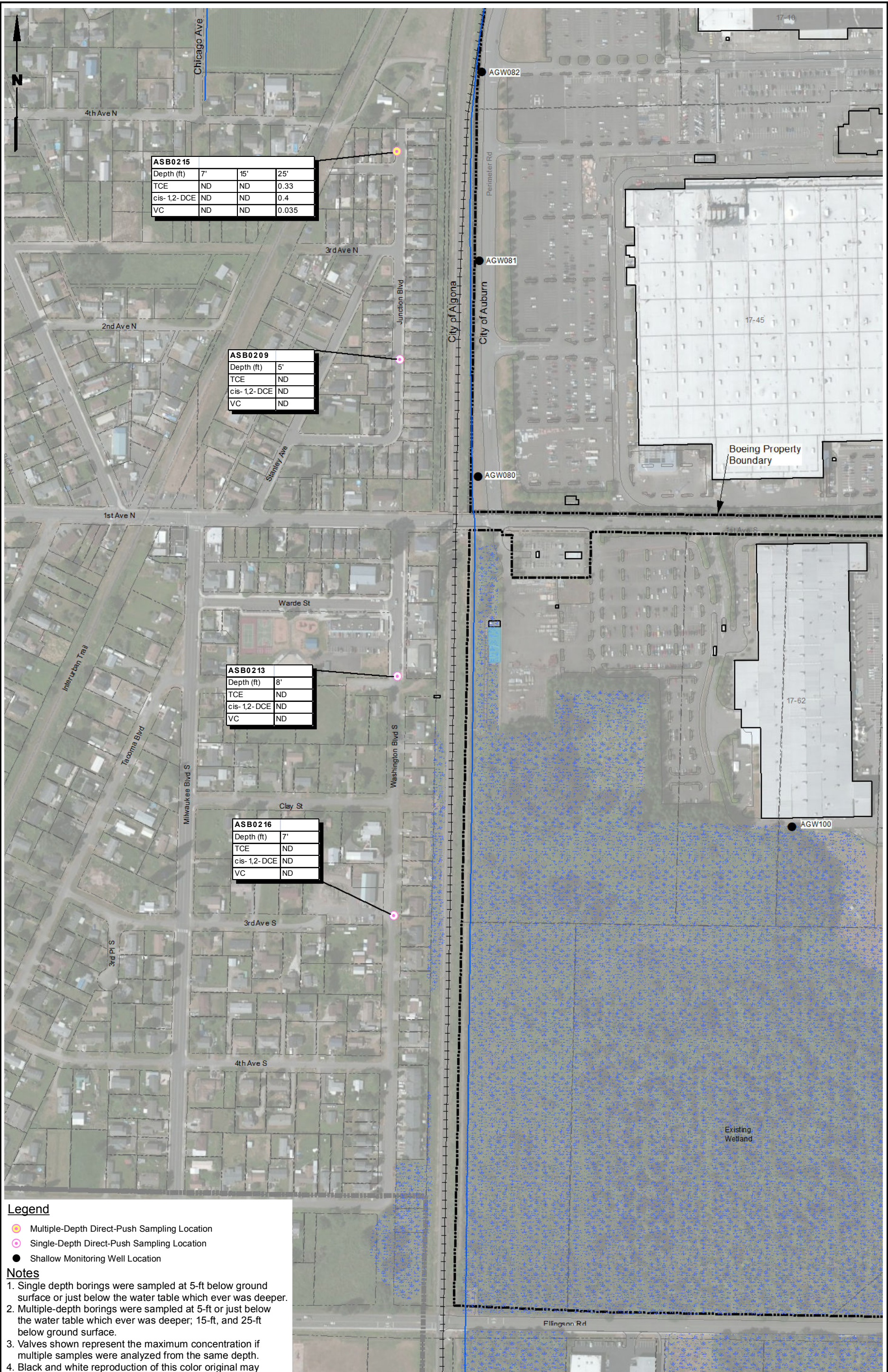


Boeing Auburn  
Auburn, Washington

**Direct-Push Drilling Results**  
**Algona North - April 2013**

Figure  
**1**

Y:\Projects\025164\MapDocs\100109\Direct Push Work Plan\Results\Figure02\_South\_Results.mxd 5/8/2013 NAD\_1983 StatePlane Washington North FIPS 4601 Feet



ASB0215			
Depth (ft)	7'	15'	25'
TCE	ND	ND	0.33
cis-1,2-DCE	ND	ND	0.4
VC	ND	ND	0.035

ASB0209	
Depth (ft)	5'
TCE	ND
cis-1,2-DCE	ND
VC	ND

ASB0213	
Depth (ft)	8'
TCE	ND
cis-1,2-DCE	ND
VC	ND

ASB0216	
Depth (ft)	7'
TCE	ND
cis-1,2-DCE	ND
VC	ND

**Legend**

- Multiple-Depth Direct-Push Sampling Location
- Single-Depth Direct-Push Sampling Location
- Shallow Monitoring Well Location

**Notes**

1. Single depth borings were sampled at 5-ft below ground surface or just below the water table which ever was deeper.
2. Multiple-depth borings were sampled at 5-ft or just below the water table which ever was deeper; 15-ft, and 25-ft below ground surface.
3. Valves shown represent the maximum concentration if multiple samples were analyzed from the same depth.
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Base map source: Aerial Photo Source: Bing Maps 2010; Parcel Data Source: King County GIS 2010



Boeing Auburn  
Auburn, Washington

**Direct-Push Drilling Results**  
**Algona South - April 2013**

Figure  
**2**

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

Location:	ASB0203-7	ASB0203-15	ASB0203-25	ASB0226-9	ASB0182-9	ASB0182-9b
SDG:	1384192	1384192	1384192	1386333	1380643	1380643
Lab ID:	7028205	7028207	7028208	7039100	7011090	7011091
	4/18/2013	4/18/2013	4/18/2013	04/29/2013	4/4/2013	4/4/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.4	0.2 U	1.6	1.4	1.2
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	1.2	2.4	1.8
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.3	0.2 U	0.4	2.1	2.1
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	0.020 U	0.020 U	0.020 U	0.92	1.3	1.4
Vinyl Chloride	0.058	0.22	0.020 U	0.35	1.8	1.7
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

Location:	ASB0182-15	ASB0182-25	ASB0225-7	ASB0204-7	ASB0201-7	ASB0202-8
SDG:	1380643	1380643	1386333	1384192	1383773	1383773
Lab ID:	7011092	7011094	7039099	7028209	7026450	7026451
	4/4/2013	4/4/2013	04/29/2013	4/18/2013	04/17/2013	04/17/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	5.0 UJ	5.0 UJ	<b>6.2</b>	<b>6.5</b>	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	<b>3.4</b>	<b>2.6</b>	0.2 U	0.2 U	0.2 U	<b>0.3</b>
trans-1,2-Dichloroethene	<b>0.4</b>	<b>0.2</b>	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	<b>12</b>	<b>7.6</b>	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	<b>0.3</b>	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	<b>9.0</b>	<b>6.2</b>	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	<b>0.27</b>	<b>0.16</b>	0.020 U	0.020 U	0.020 U	<b>0.068</b>
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

	Dup of ASB0202-8			ASB0183-5	ASB0186-5
Location:	ASB9202-8	ASB0202-15	ASB0202-25	1380643/1382956	1381416/1382956
SDG:	1383773	1383773	1383773	7011095/7022707	7014884/7022706
Lab ID:	7026452	7026453	7026454	4/4/2013	4/8/2013
	04/17/2013	04/17/2013	04/17/2013		
<b>VOLATILES (µg/L)</b>					
<b>Method SW8260C</b>					
Acetone	5.0 U	5.0 U	5.0 U	25 UJ	25 U
Benzene	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
Bromoform	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
2-Butanone	5.0 U	5.0 U	5.0 U	25 UJ	25 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
Chloroform	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
Chloromethane	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	<b>0.3</b>	0.2 U	0.2 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	25 UJ	25 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	25 UJ	25 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
Styrene	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
Toluene	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
Trichloroethene	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U
<b>VOLATILES (µg/L)</b>					
<b>Method 8260C SIM</b>					
Trichloroethene	0.020 U	0.020 U	0.020 U	0.10 U	0.10 U
Vinyl Chloride	<b>0.070</b>	<b>0.038</b>	0.020 U	0.10 U	<b>0.12</b>
<b>VOLATILES (µg/L)</b>					
<b>Method 8260C SIM</b>					
<b>with anti-foaming agent</b>					
Trichloroethene				0.020 U	<b>0.022</b>
Vinyl Chloride				0.020 U	<b>0.16</b>

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

Location:	ASB0186-15	ASB0186-25	ASB0184-5	ASB0184-5b	ASB0184-15	ASB0184-25	ASB0181-5
SDG:	1381416	1381416	1380919	1380919	1380919	1380919	1380303
Lab ID:	7014886	7014887	7012530	7012531	7012533	7012534	7009562
	4/8/2013	4/8/2013	4/5/2013	4/5/2013	4/5/2013	4/5/2013	4/3/2013
<b>VOLATILES (µg/L)</b>							
<b>Method SW8260C</b>							
Acetone	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	25 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
2-Butanone	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	25 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
1,2-Dichloroethane	0.2 U	<b>0.4</b>	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
cis-1,2-Dichloroethene	<b>3.3</b>	<b>4.8</b>	<b>0.5</b>	<b>0.5</b>	<b>3.4</b>	<b>2.9</b>	1.0 U
trans-1,2-Dichloroethene	<b>0.4</b>	<b>0.5</b>	0.2 U	0.2 U	<b>0.4</b>	<b>0.3</b>	1.0 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
2-Hexanone	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	25 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	25 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U
Trichloroethene	<b>3.2</b>	0.2 U	<b>0.2</b>	<b>0.2</b>	<b>6.9</b>	<b>6.6</b>	1.0 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
Vinyl Chloride	<b>0.6</b>	<b>0.9</b>	<b>1.3</b>	<b>1.3</b>	<b>0.5</b>	<b>0.3</b>	1.0 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
<b>VOLATILES (µg/L)</b>							
<b>Method 8260C SIM</b>							
Trichloroethene	<b>2.5</b>	<b>0.039</b>	<b>0.15</b>	<b>0.18</b>	<b>5.6</b>	<b>5.6</b>	<b>0.13</b>
Vinyl Chloride	<b>0.53</b>	<b>0.93</b>	<b>1.1</b>	<b>1.3</b>	<b>0.42</b>	<b>0.27</b>	<b>0.22</b>
<b>VOLATILES (µg/L)</b>							
<b>Method 8260C SIM</b>							
<b>with anti-foaming agent</b>							
Trichloroethene							
Vinyl Chloride							



**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

Location:	ASB0181-5b	ASB0181-15	ASB0181-25	ASB0217-8	ASB0220-5	ASB0187-5
SDG:	1380303	1380303	1380303	1385793	1386002	1381416
Lab ID:	7009563	7009564	7009565	7036402	7037611	7014889
	4/3/2013	4/3/2013	4/3/2013	4/25/2013	4/26/2013	04/08/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	1.0 U	<b>2.2</b>	<b>2.4</b>	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	1.0 U	<b>0.3</b>	<b>0.2</b>	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	1.0 U	<b>3.5</b>	<b>5.6</b>	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	1.0 U	<b>2.8</b>	<b>0.3</b>	0.2 U	0.2 U	0.2 U
m,p-Xylene	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	<b>0.20</b>	<b>2.7</b>	<b>4.3</b>	0.020 U	0.020 U	<b>0.025</b>
Vinyl Chloride	<b>0.32</b>	<b>2.4</b>	<b>0.22</b>	0.020 U	0.020 U	0.020 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

	Location: ASB0187-5r	ASB0187-5b	ASB0223-8	ASB0206-7	ASB0206-15	ASB0206-25
	SDG: 1381416	1381416	1386333	1384423	1384423	1384423
	Lab ID: 7014888	7014890	7039097	7029519	7029521	7029522
	04/08/2013	04/08/2013	04/29/2013	4/19/2013	4/19/2013	4/19/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	<b>8.8</b>	5.0 U	5.0 U	<b>13</b>	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	<b>17</b>	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	0.020 U	<b>0.024</b>	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

Location:	ASB0199-5	ASB0200-5	ASB0200-15	ASB0200-25	ASB0185-5	ASB0188-5
SDG:	1383441	1383441	1383441	1383441	1380919	1381711/1382956
Lab ID:	7024827	7024829	7024830	7024831	7012535	7016095/7022708
	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/5/2013	4/9/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	25 U	10 U	5.0 U	5.0 U	5.0 UJ	25 U
Benzene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
Bromodichloromethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
Bromoform	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
Bromomethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
2-Butanone	25 U	10 U	5.0 U	5.0 U	5.0 UJ	25 U
Carbon Disulfide	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
Carbon Tetrachloride	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
Chlorobenzene	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
Chloroethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
Chloroform	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
Chloromethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
Dibromochloromethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
1,1-Dichloroethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
1,2-Dichloroethane	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
1,1-Dichloroethene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	0.4 U	<b>1.5</b>	<b>0.8</b>	<b>0.9</b>	1.0 U
trans-1,2-Dichloroethene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
1,2-Dichloropropane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
cis-1,3-Dichloropropene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
Ethylbenzene	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
2-Hexanone	25 U	10 U	5.0 U	5.0 U	5.0 UJ	25 U
4-Methyl-2-Pentanone (MIBK)	25 U	10 U	5.0 U	5.0 U	5.0 UJ	25 U
Methylene Chloride	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
Styrene	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
1,1,2,2-Tetrachloroethane	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
Tetrachloroethene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
Toluene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
1,1,1-Trichloroethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
1,1,2-Trichloroethane	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
Trichloroethene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	1.0 U
Trichlorofluoromethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
Vinyl Acetate	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
Vinyl Chloride	1.0 U	0.4 U	0.2 U	0.2 U	<b>1.1</b>	1.0 U
m,p-Xylene	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
o-Xylene	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	0.040 U	0.020 U	0.020 U	0.020 U	0.020 U	0.20 U
Vinyl Chloride	0.040 U	<b>0.024</b>	<b>0.057</b>	0.020 U	<b>0.98</b>	0.20 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						0.020 U
Vinyl Chloride						0.020 U

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

	Dup of ASB0188-15					
Location:	ASB0188-5b	ASB0188-15	ASB9188-15	ASB0188-25	ASB0192-5	ASB0192-5b
SDG:	1381711	1381711	1381711	1381711	1382468	1382468
Lab ID:	7016096	7016097	7016098	7016099	7020169	7020168
	4/9/2013	4/9/2013	4/9/2013	4/9/2013	4/11/2013	4/11/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1.0 U	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	0.2 U	0.2 U
1,1-Dichloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	1.0 U	<b>8.4</b>	<b>8.0</b>	<b>8.2</b>	<b>6.4</b>	<b>7.0</b>
trans-1,2-Dichloroethene	1.0 U	<b>1.1</b>	<b>1.0</b>	<b>1.1</b>	<b>0.4</b>	<b>0.4</b>
1,2-Dichloropropane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	1.0 U	0.2 U	0.2 U	<b>0.3</b>	<b>0.5</b>	<b>0.5</b>
Trichlorofluoromethane	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	1.0 U	<b>0.7</b>	<b>0.7</b>	<b>0.9</b>	0.2 U	0.2 U
m,p-Xylene	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	0.10 U	<b>0.13</b>	<b>0.13</b>	<b>0.26</b>	<b>0.38</b>	<b>0.39</b>
Vinyl Chloride	0.10 U	<b>0.66</b>	<b>0.61</b>	<b>0.82</b>	<b>0.16</b>	<b>0.17</b>
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

Location:	ASB0192-15	ASB0192-25	ASB0218-10	ASB0218-15	ASB0218-25	ASB0221-7
SDG:	1382468	1382468	1385793	1385793	1385793	1386002
Lab ID:	7020171	7020172	7036404	7036405	7036406	7037612
	4/11/2013	4/11/2013	4/25/2013	4/25/2013	4/25/2013	4/26/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	<b>7.1</b>	<b>5.9</b>	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	<b>0.7</b>	<b>0.6</b>	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	<b>1.8</b>	<b>2.4</b>	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	<b>0.6</b>	<b>0.5</b>	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	<b>1.5</b>	<b>1.9</b>	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	<b>0.48</b>	<b>0.43</b>	0.020 U	0.020 U	0.020 U	0.020 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

	Dup of ASB0193-5					
Location:	ASB0193-5	ASB9193-5	ASB0224-7	ASB0207-5	ASB0208-7	ASB0197-8
SDG:	1382468	1382468	1386333	1384423	1384767	1383074
Lab ID:	7020173	7020174	7039098	7029523	7031273	7023175
	4/11/2013	4/11/2013	04/29/2013	4/19/2013	4/22/2013	4/15/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
cis-1,2-Dichloroethene	0.7	0.7	0.2 U	0.2 U	0.2 U	0.4 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.11	0.11	0.020 U	0.020 U	0.020 U	0.020 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

Location:	ASB0189-5	ASB0198-5	ASB0198-15	ASB0198-25	ASB0190-10	ASB0190-10b
SDG:	1381711/1382956	1383074	1383074	1383074	1382121	1382121
Lab ID:	7016100/7022709	7023176	7023177	7023178	7018224	7018225
	4/9/2013	4/15/2013	4/15/2013	4/15/2013	4/10/2013	4/10/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	25 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	25 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	1.0 U	0.4 U	0.2 U	0.2 U	<b>0.2</b>	<b>0.3</b>
1,2-Dichloropropane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	25 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	25 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	1.0 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	1.0 U	0.4 U	0.2 U	0.2 U	<b>0.4</b>	<b>1.6</b>
m,p-Xylene	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	2.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	0.10 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.10 U	0.020 U	0.020 U	0.020 U	<b>0.36</b>	<b>1.3</b>
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene	0.020 U					
Vinyl Chloride	0.020 U					

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

	Location: ASB0190-15	ASB0190-25	ASB0219-9	ASB0222-7	ASB0191-5	ASB0227-9
	SDG: 1382121	1382121	1385793	1386002	1382121	1386673
	Lab ID: 7018226	7018227	7036407	7037613	7018228	7040693
	4/10/2013	4/10/2013	4/25/2013	4/26/2013	4/10/2013	04/30/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	<b>0.9</b>	<b>4.3</b>	0.2 U	0.2 U	<b>0.3</b>	0.2 U
trans-1,2-Dichloroethene	<b>0.5</b>	<b>0.9</b>	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	<b>3.8</b>	<b>3.3</b>	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	<b>0.031</b>	<b>0.049</b>	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	<b>3.4</b>	<b>2.6</b>	0.020 U	0.020 U	0.020 U	0.020 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						



**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

	ASB0228-8	ASB0214-5	Dup of ASB0214-5 ASB9214-5	ASB0194-5	ASB0195-5	ASB0196-5
Location:	ASB0228-8	ASB0214-5	ASB9214-5	ASB0194-5	ASB0195-5	ASB0196-5
SDG:	1386673	1385432	1385432	1382705	1382705	1382705
Lab ID:	7040694	7034083	7034084	7021479	7021481	7021482
	04/30/2013	04/24/2013	04/24/2013	4/12/2013	4/12/2013	4/13/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

Location: ASB0196-5b	ASB0210-8	ASB0210-15	ASB0210-25	ASB0211-5	ASB0211-15	
SDG: 1382705	1384767	1384767	1384767	1385084	1385084	
Lab ID: 7021483	7031276	7031277	7031280	7032620	7032621	
4/12/2013	4/22/2013	4/22/2013	4/22/2013	04/23/2013	04/23/2013	
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Benzene	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
cis-1,2-Dichloroethene	0.2 U	0.2 U	<b>0.5</b>	<b>0.5</b>	0.2 U	
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	0.020 U	0.020 U	0.020 U	<b>0.020</b>	0.020 U	0.020 U
Vinyl Chloride	0.020 U	0.020 U	<b>0.022</b>	<b>0.020</b>	0.020 U	0.020 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

	Location: ASB0211-25	ASB0212-5	ASB0229-7	Dup of ASB0205-7		ASB0215-7
	SDG: 1385084	1385084	1386673	ASB0205-7 1384192	ASB9205-7 1384192	1385432
	Lab ID: 7032622	7032623	7040695	7028210	7028211	7034085
	04/23/2013	04/23/2013	04/30/2013	4/18/2013	4/18/2013	04/24/2013
<b>VOLATILES (µg/L)</b>						
<b>Method SW8260C</b>						
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
Trichloroethene	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
<b>VOLATILES (µg/L)</b>						
<b>Method 8260C SIM</b>						
<b>with anti-foaming agent</b>						
Trichloroethene						
Vinyl Chloride						

**TABLE 1**  
**DIRECT-PUSH SAMPLING RESULTS - APRIL 2013**  
**BOEING AUBURN**

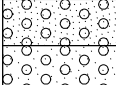
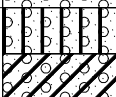

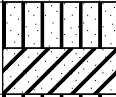
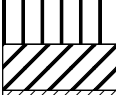


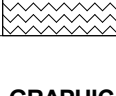

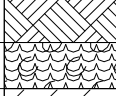
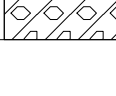
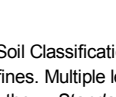
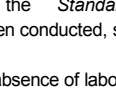
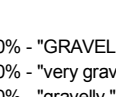
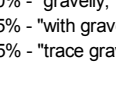
	ASB0215-15	ASB0215-25	ASB0209-5	ASB0213-8	ASB0216-7
Location:	ASB0215-15	ASB0215-25	ASB0209-5	ASB0213-8	ASB0216-7
SDG:	1385432	1385432	1384767	1385084	1385432
Lab ID:	7034086	7034087	7031274	7032624	7034088
	04/24/2013	04/24/2013	4/22/2013	04/23/2013	04/24/2013
<b>VOLATILES (µg/L)</b>					
<b>Method SW8260C</b>					
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	<b>0.4</b>	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	<b>0.4</b>	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
<b>VOLATILES (µg/L)</b>					
<b>Method 8260C SIM</b>					
Trichloroethene	0.020 U	<b>0.33</b>	0.020 U	0.020 U	0.020 U
Vinyl Chloride	0.020 U	<b>0.035</b>	0.020 U	0.020 U	0.020 U
<b>VOLATILES (µg/L)</b>					
<b>Method 8260C SIM</b>					
<b>with anti-foaming agent</b>					
Trichloroethene					
Vinyl Chloride					




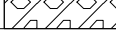
U = Indicates the compound was undetected at the reported concentration.

UJ = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.

Bold = Detected compound.

# Soil Classification System

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

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

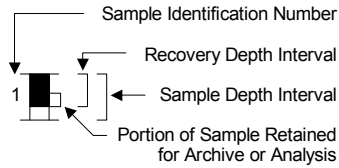
Primary Constituent: > 50% - "GRAVEL," "SAND," "SILT," "CLAY," etc.  
 Secondary Constituents: > 30% and ≤ 50% - "very gravelly," "very sandy," "very silty," etc.  
 > 15% and ≤ 30% - "gravelly," "sandy," "silty," etc.  
 Additional Constituents: > 5% and ≤ 15% - "with gravel," "with sand," "with silt,"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

## Drilling and Sampling Key

### SAMPLER TYPE

### SAMPLE NUMBER & INTERVAL

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



## Field and Lab Test Data

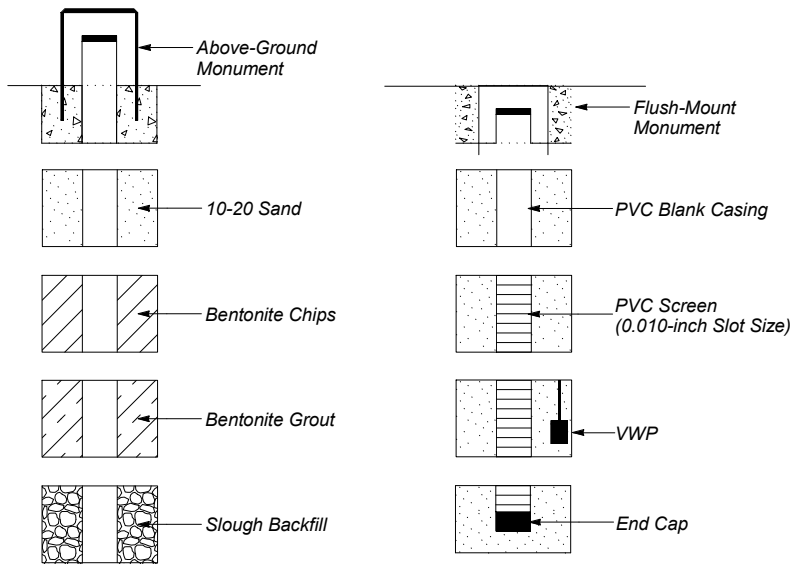
Code	Description
PP = 1.0	Pocket Penetrometer, tsf
TV = 0.5	Torvane, tsf
PID = 100	Photoionization Detector VOC screening, ppm
W = 10	Moisture Content, %
D = 120	Dry Density, pcf
-200 = 60	Material smaller than No. 200 sieve, %
GS	Grain Size - See separate figure for data
AL	Atterberg Limits - See separate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

## Groundwater

- ▽ Approximate water elevation at time of drilling (ATD).
- ▼ Approximate water elevation at other time(s). When multiple water levels are obtained other than ATD, only a representative range is shown. See text for additional information.

**Note:** Groundwater levels can fluctuate due to precipitation, seasonal conditions, and other factors.

## Well Log Graphics

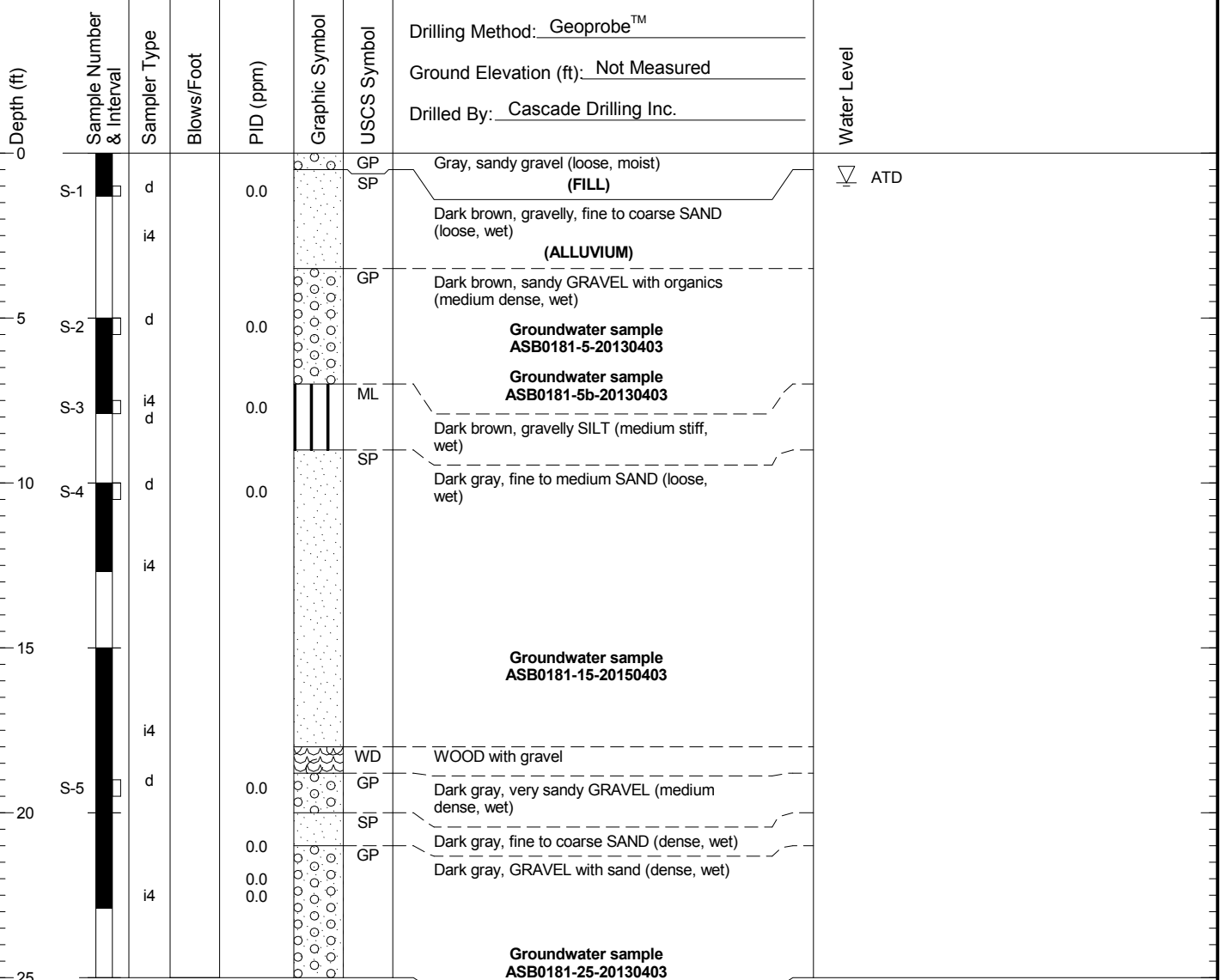


# ASB0181

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/03/13  
Total Depth of Boring = 25.0 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.
  4. Work plan designation P-11.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0181

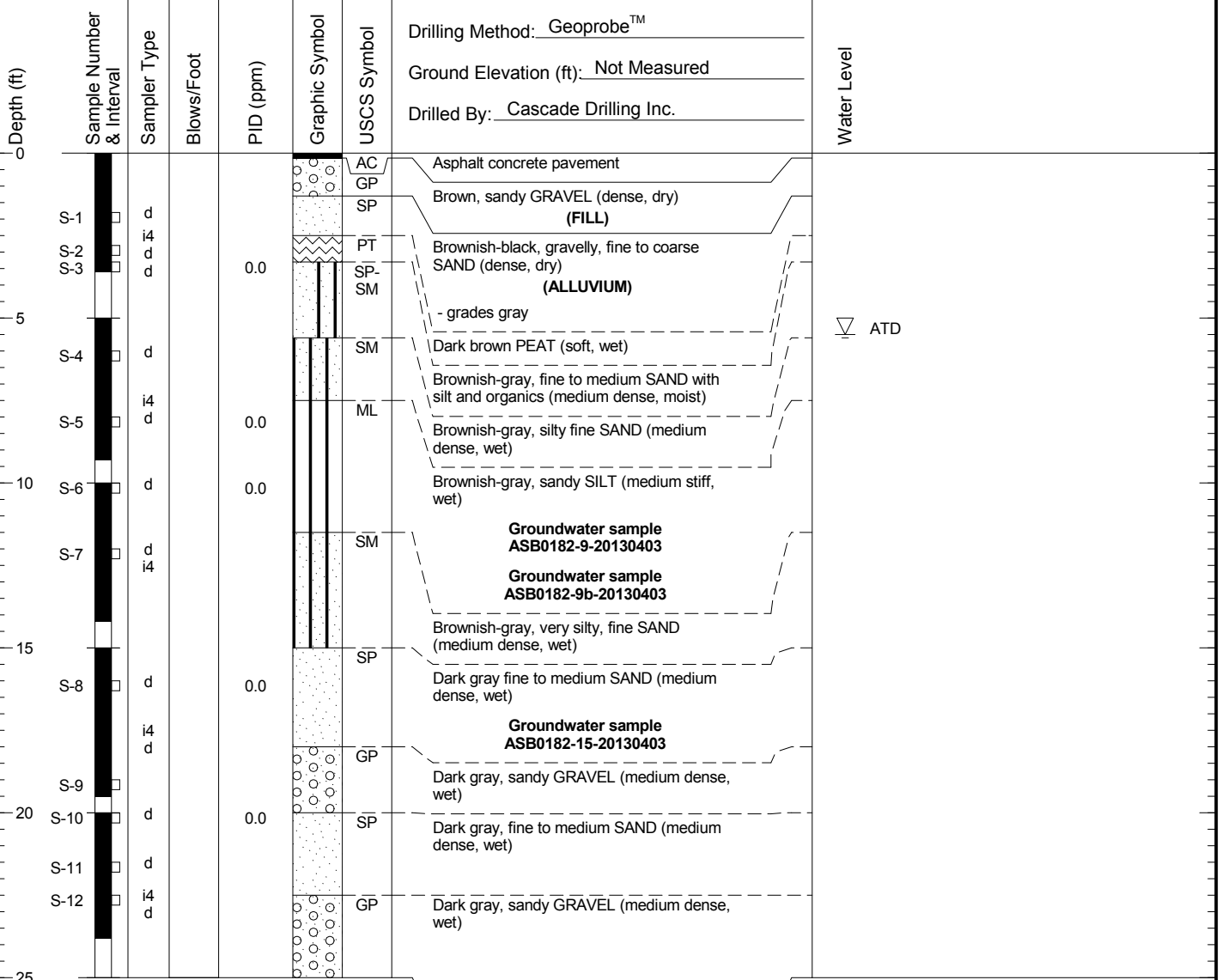
Figure  
**A-2**

# ASB0182

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/04/13  
Total Depth of Boring = 25.0 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.
  4. Work plan designation P-3.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



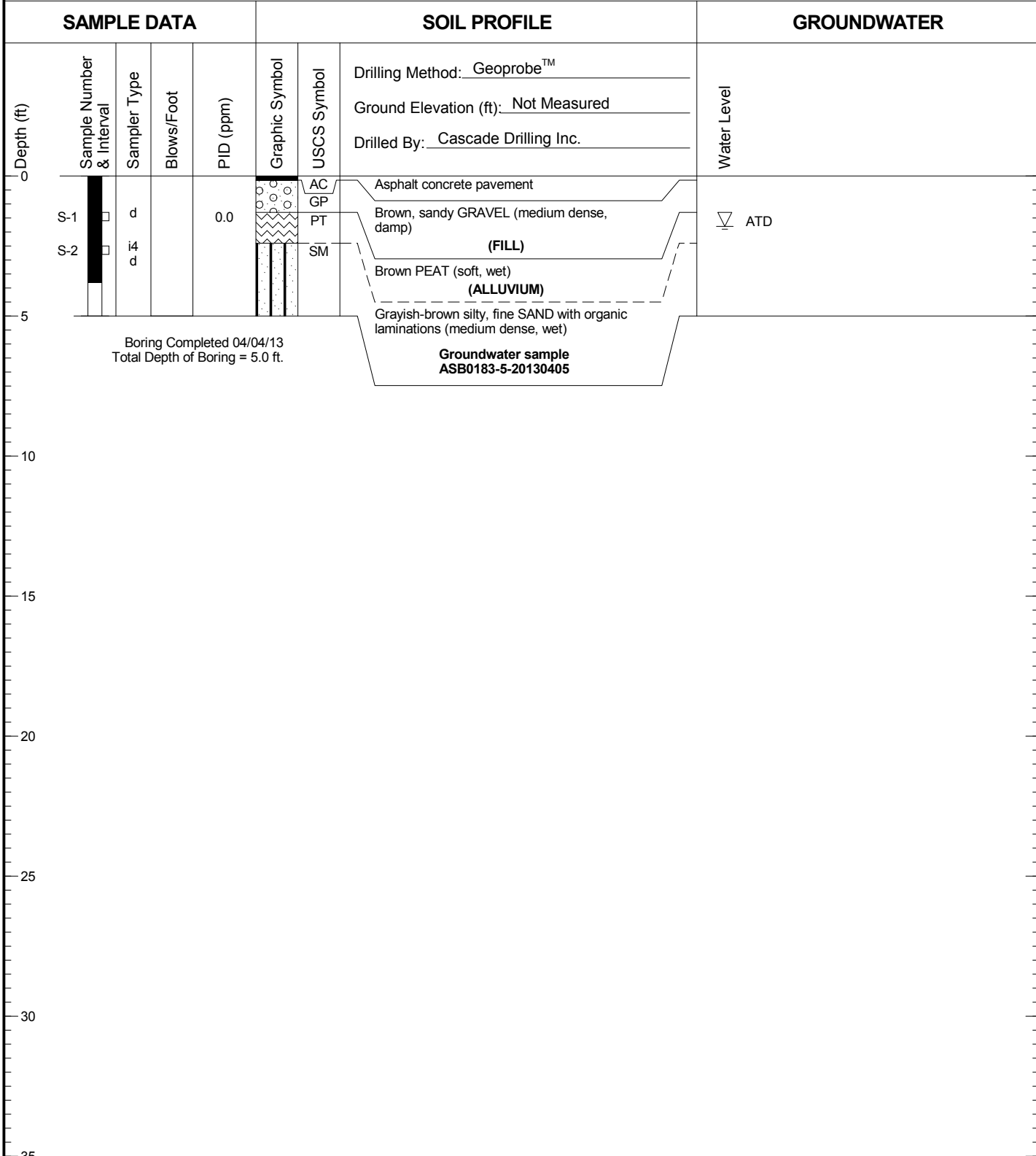
Boeing Auburn  
Auburn, Washington

Log of Boring ASB0182

Figure  
**A-3**



# ASB0183



- 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.
  4. Work plan designation P-8.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0183

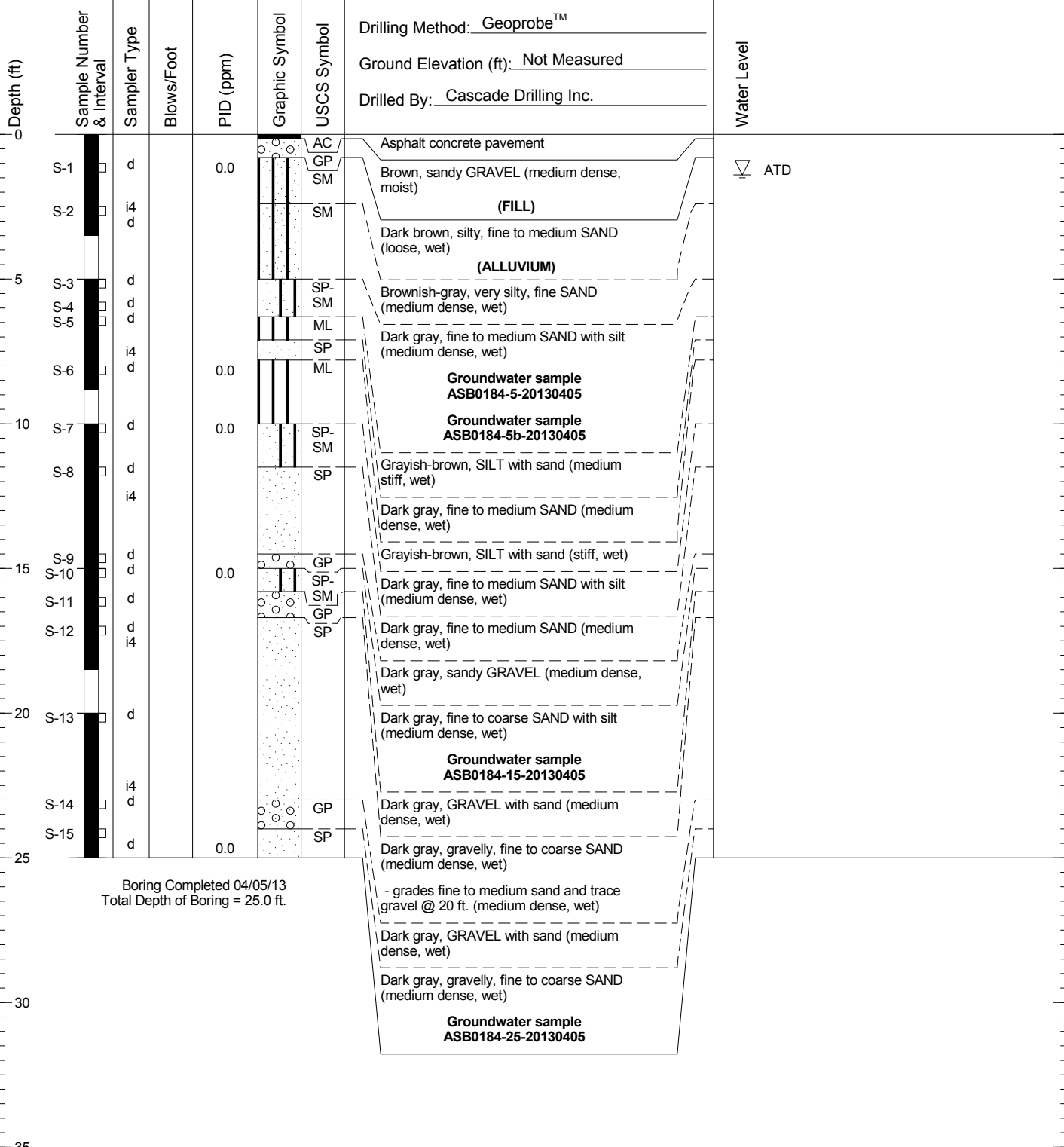
Figure  
**A-4**

# ASB0184

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/05/13  
 Total Depth of Boring = 25.0 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.
  4. Work plan designation P-10.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
 Auburn, Washington

Log of Boring ASB0184

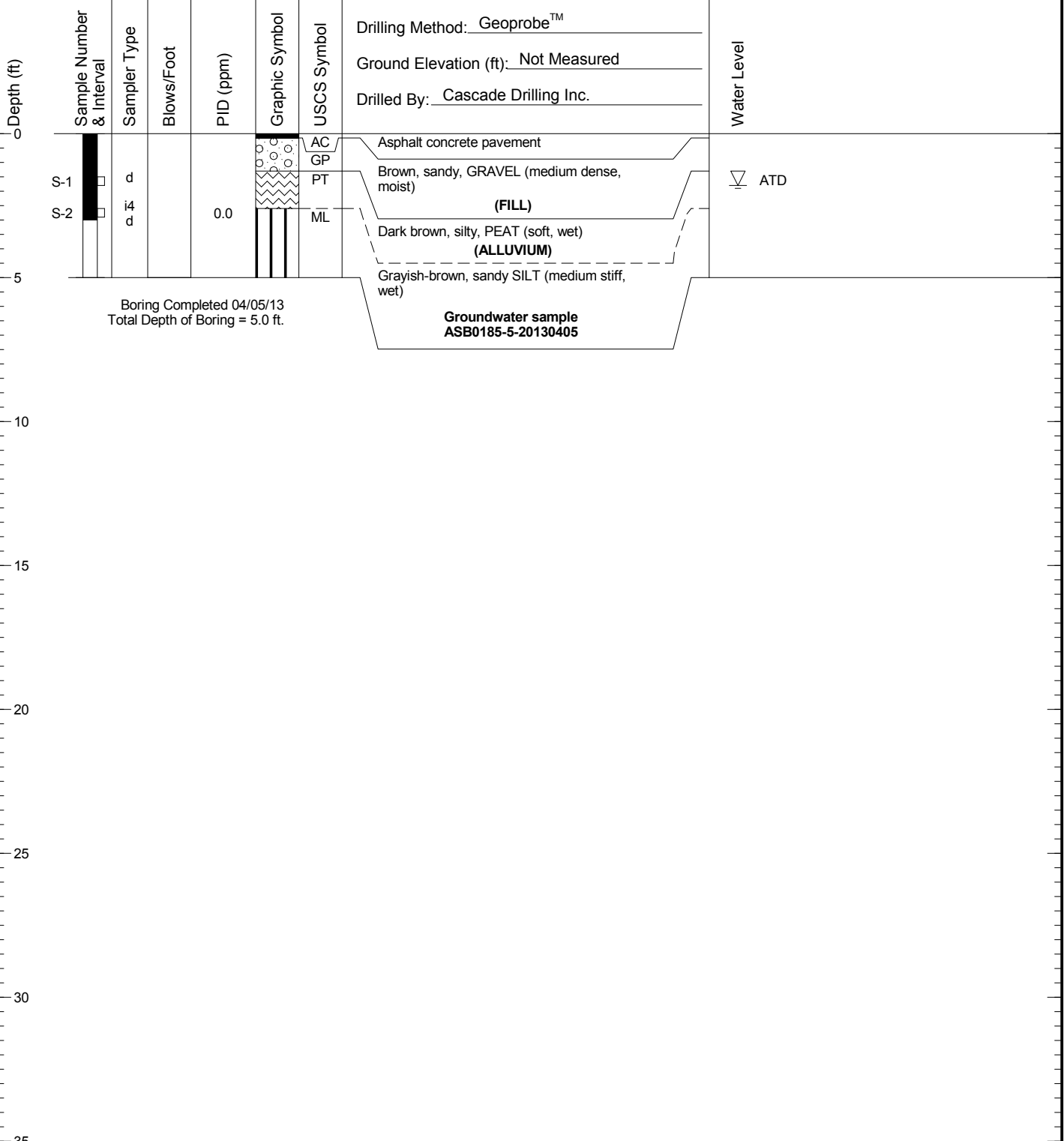
Figure  
**A-5**

# ASB0185

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-19.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
 Auburn, Washington

Log of Boring ASB0185

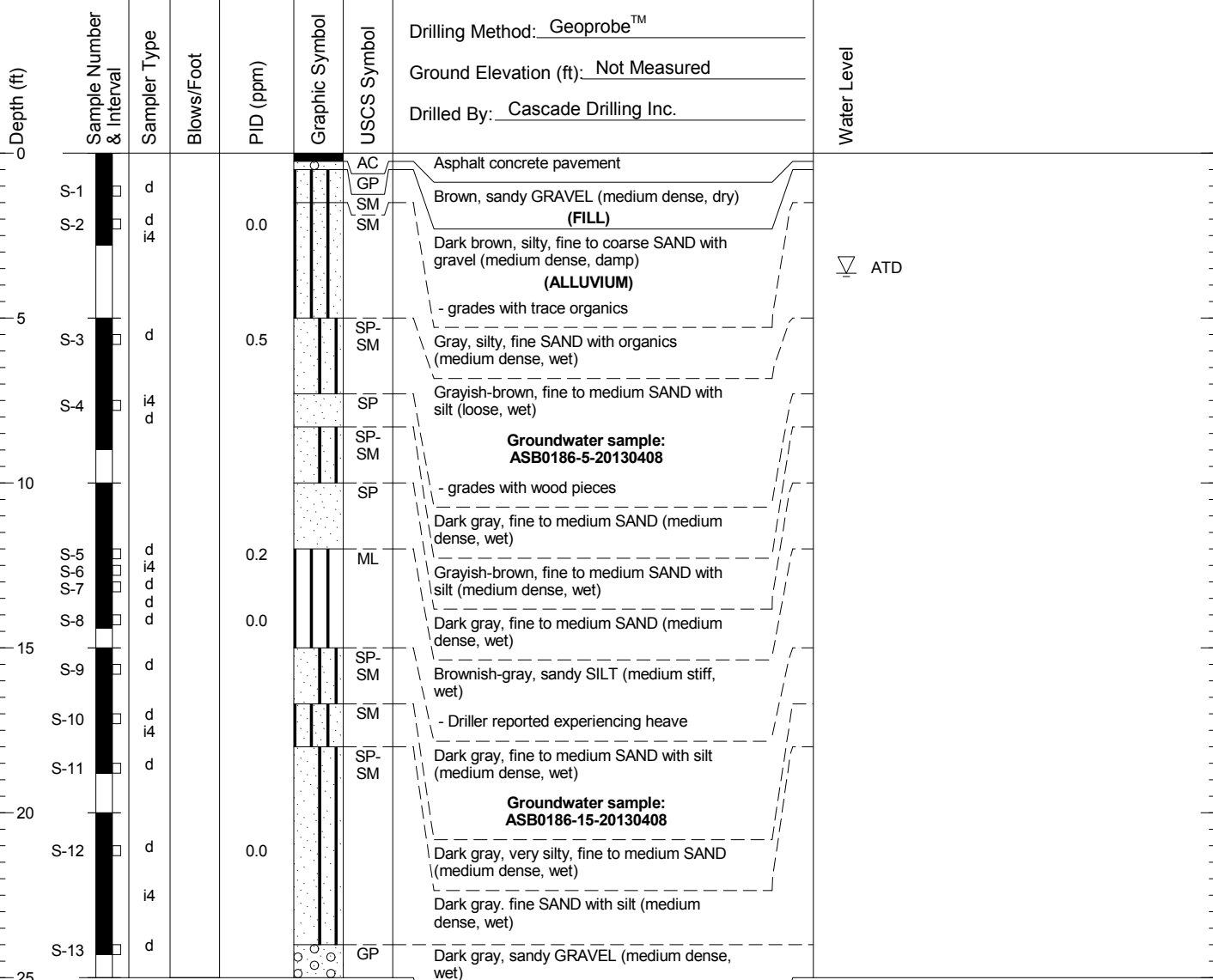
Figure  
**A-6**

# ASB0186

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/08/13  
Total Depth of Boring = 25.0 ft.

Groundwater sample:  
ASB0186-25-20130408

- 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.
  4. Work plan designation P-9.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0186

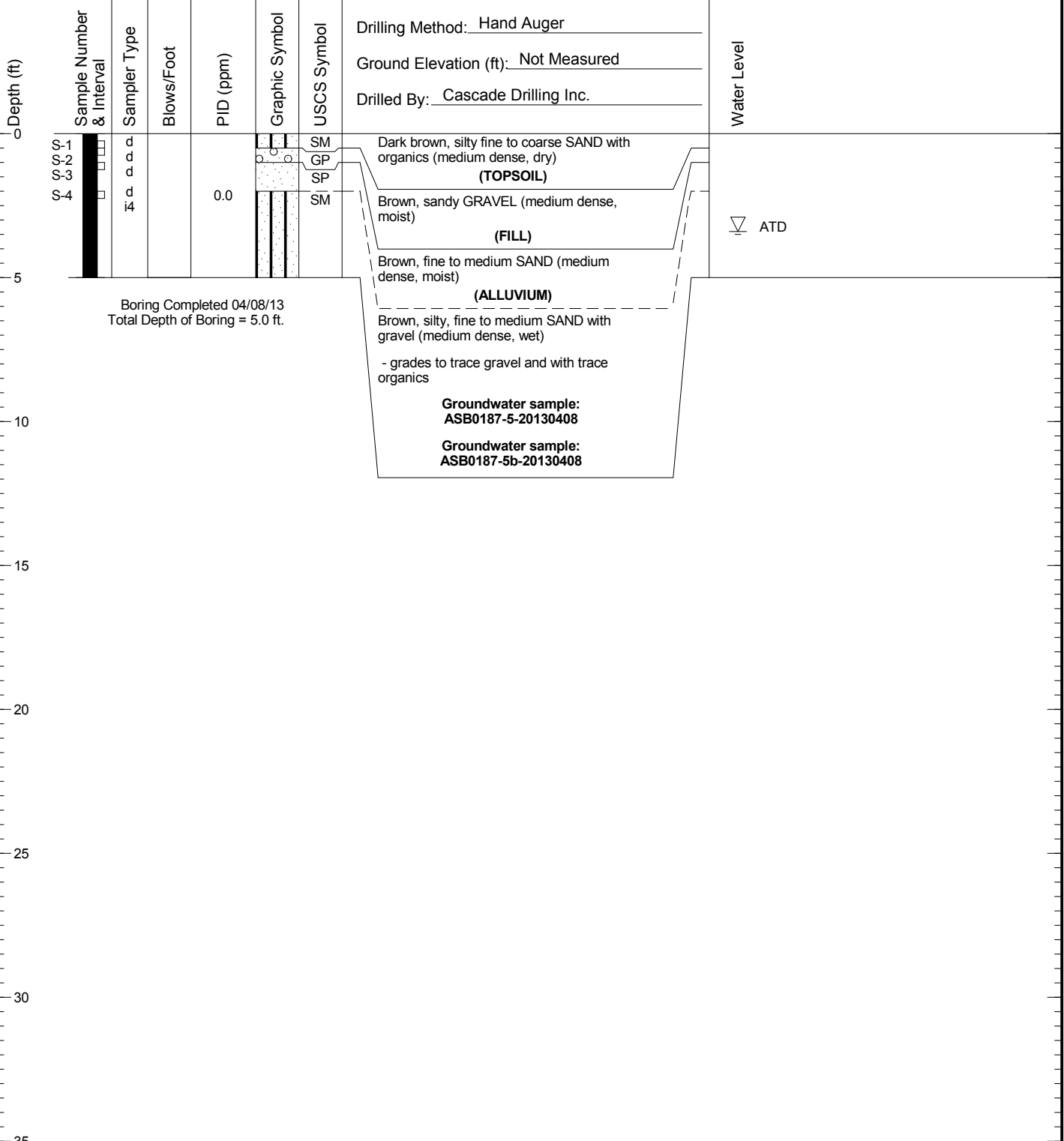
Figure  
**A-7**

# ASB0187

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/08/13  
Total Depth of Boring = 5.0 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.
  4. Work plan designation P-14.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0187

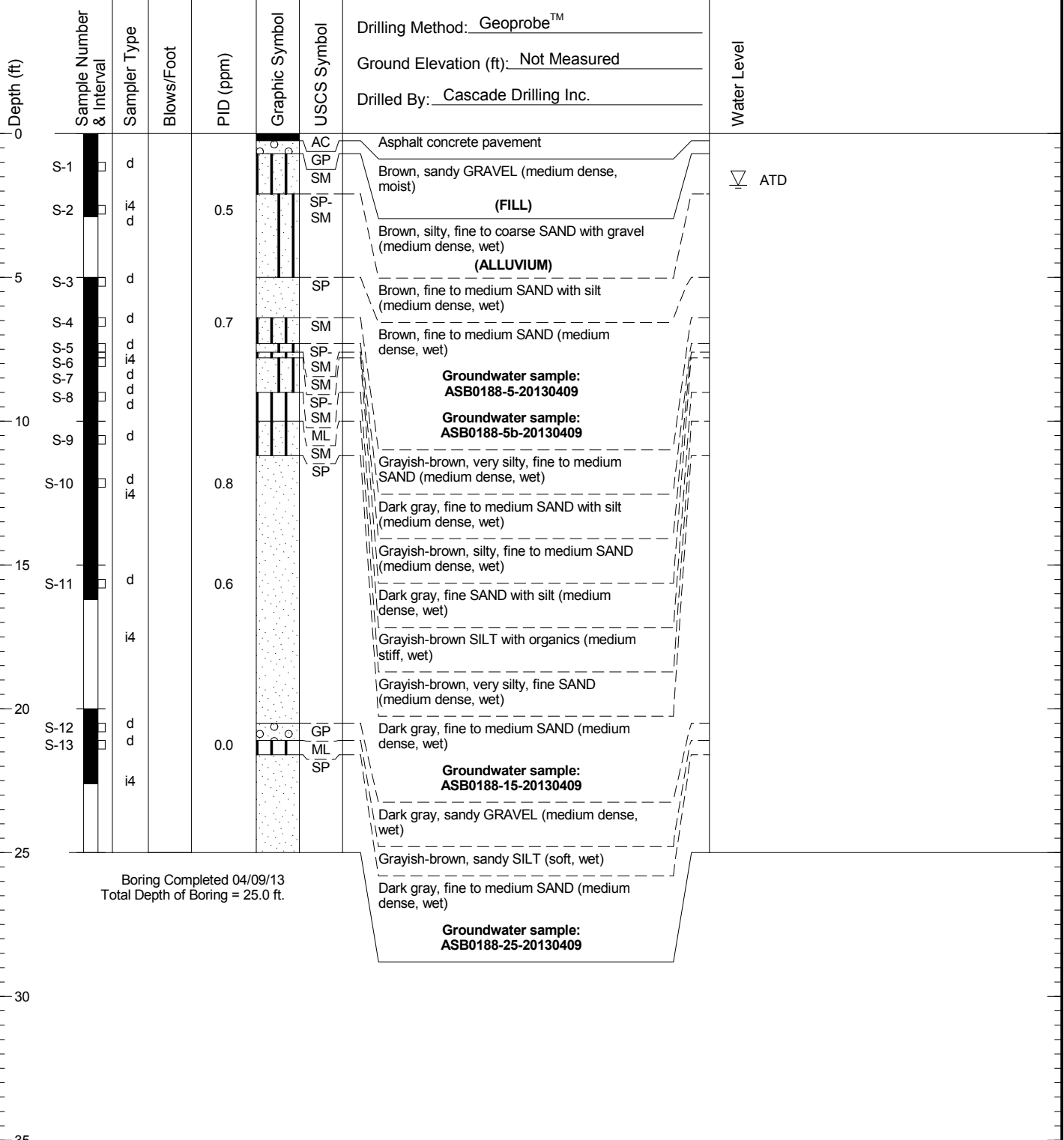
Figure  
**A-8**

# ASB0188

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/09/13  
 Total Depth of Boring = 25.0 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.
  4. Work plan designation P-20.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
 Auburn, Washington

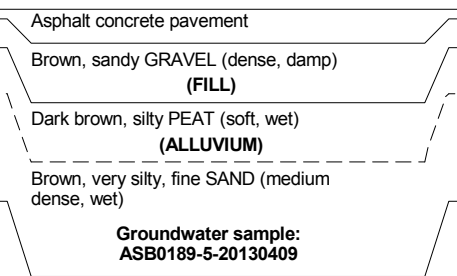
Log of Boring ASB0188

Figure  
**A-9**

# ASB0189

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
0	S-1	d		0.0	AC	GP	ATD
5	S-2	i4			PT	SM	

Drilling Method: Geoprobe™  
 Ground Elevation (ft): Not Measured  
 Drilled By: Cascade Drilling Inc.



Boring Completed 04/09/13  
 Total Depth of Boring = 5.0 ft.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- 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.
  4. Work plan designation P-29.



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0189

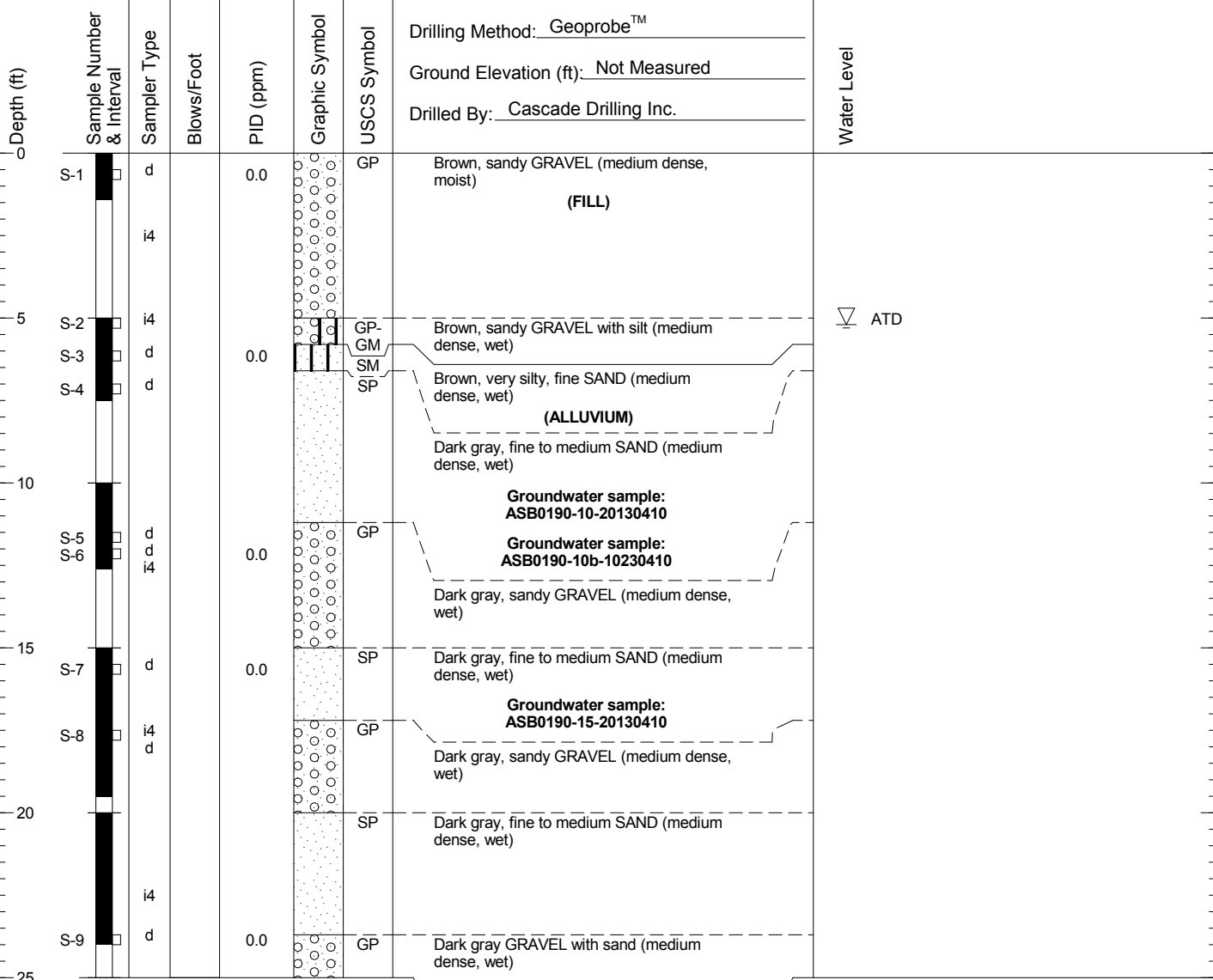
Figure  
**A-10**

# ASB0190

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/10/13  
Total Depth of Boring = 25.0 ft.

Groundwater sample:  
ASB0190-25-20130410

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- 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.
  4. Work plan designation P-31.



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0190

Figure  
**A-11**

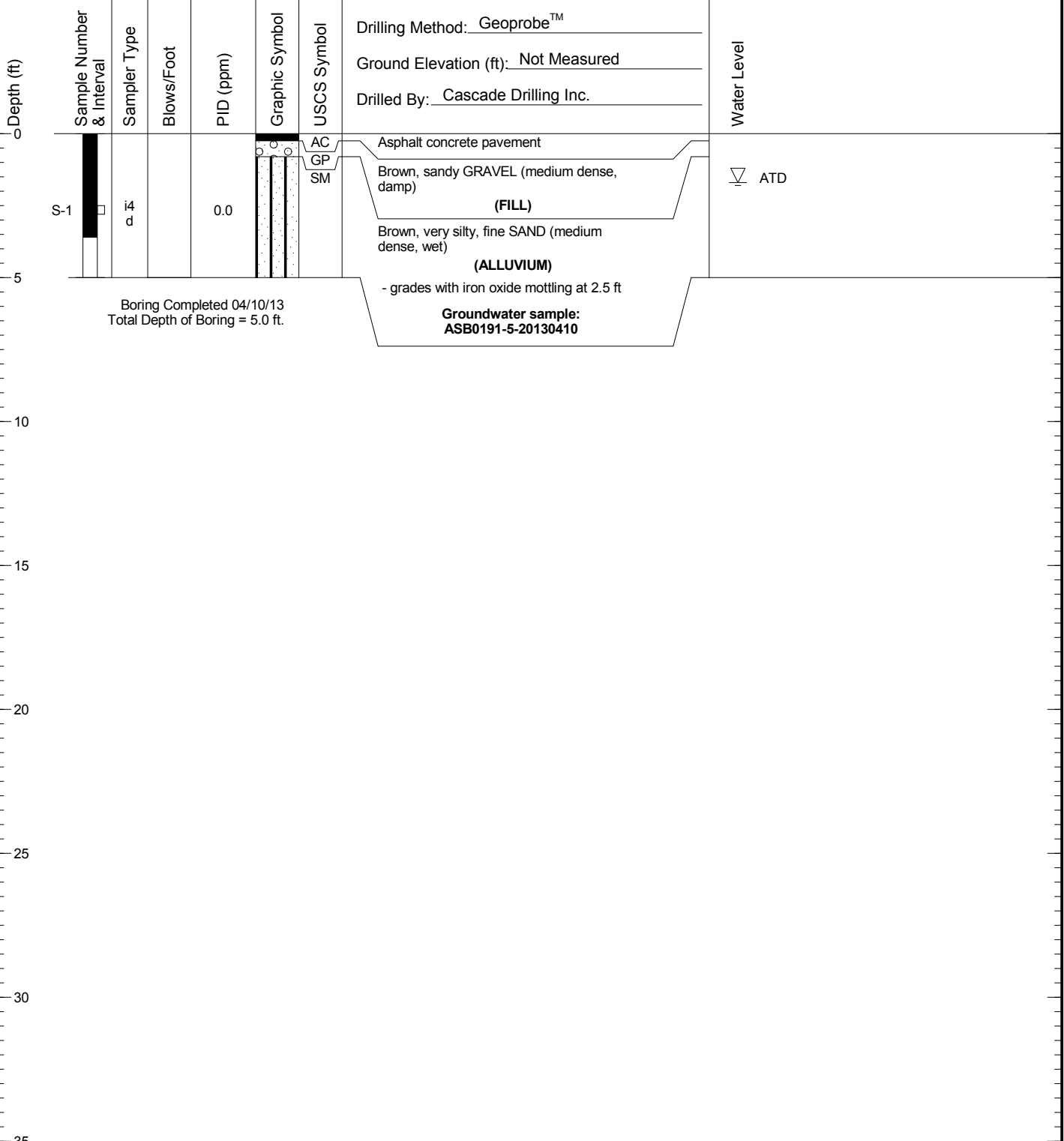


# ASB0191

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-34.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0191

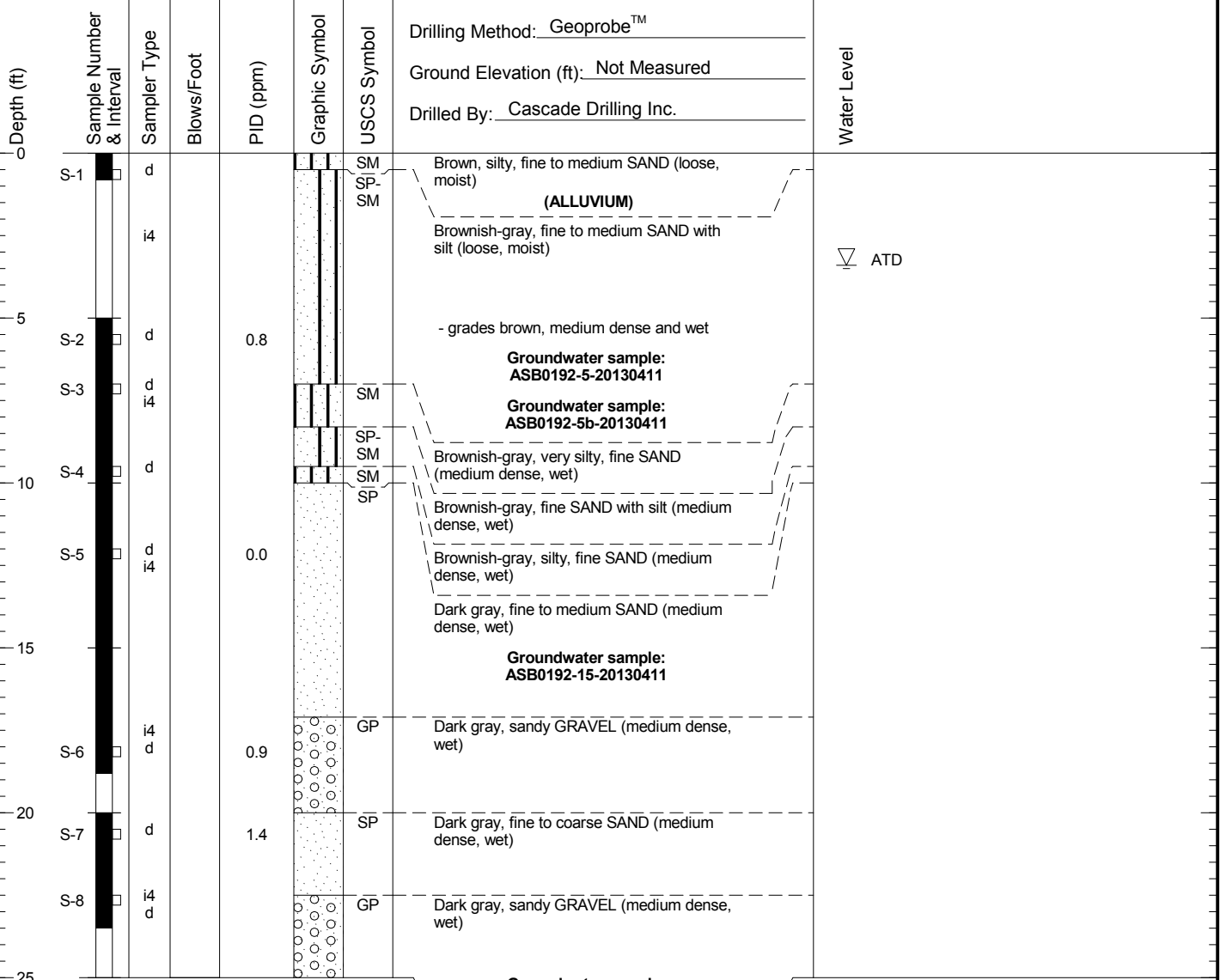
Figure  
**A-12**

# ASB0192

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/11/13  
Total Depth of Boring = 25.0 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.
  4. Work plan designation P-21.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0192

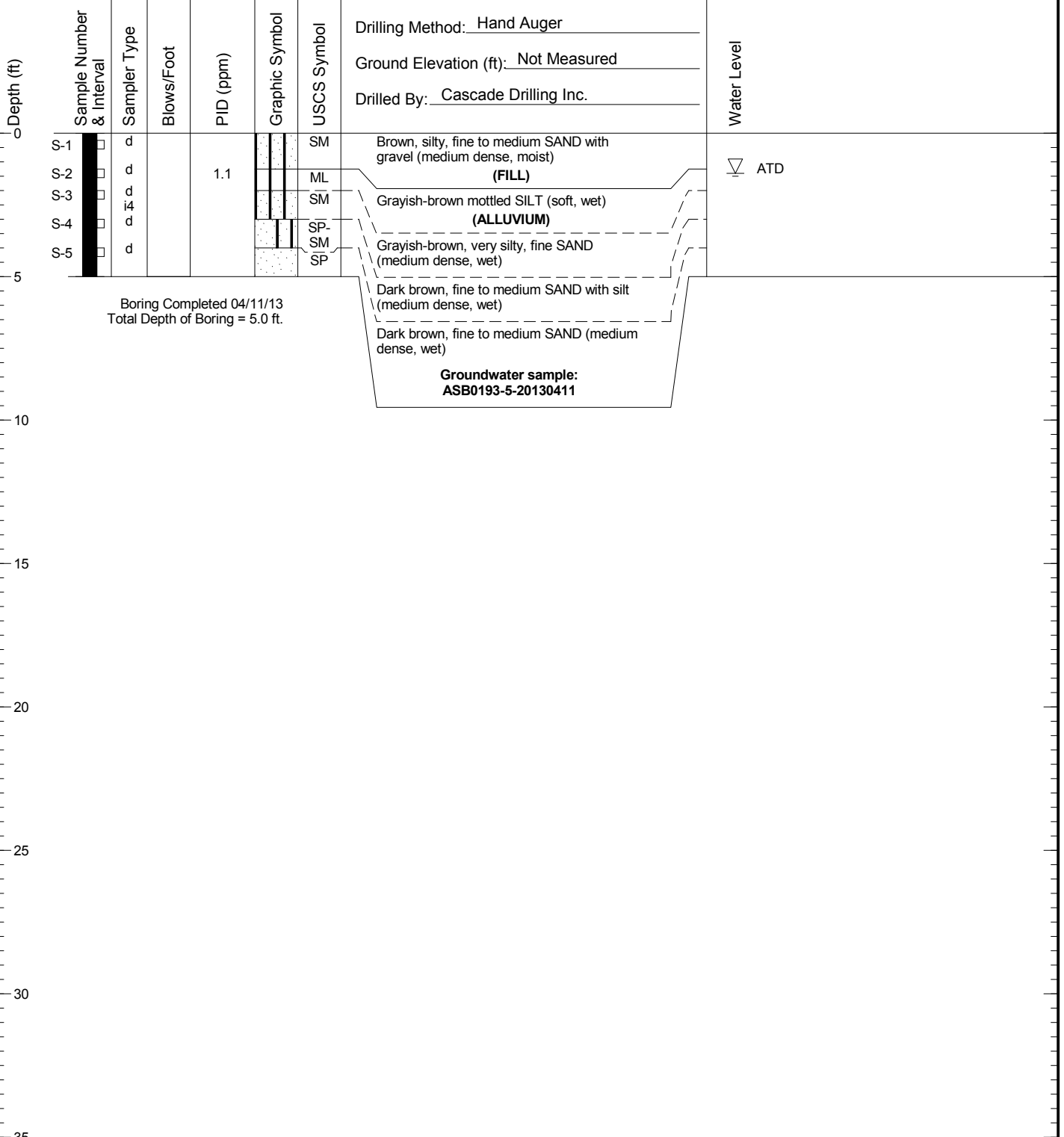
Figure  
**A-13**

# ASB0193

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-24.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0193

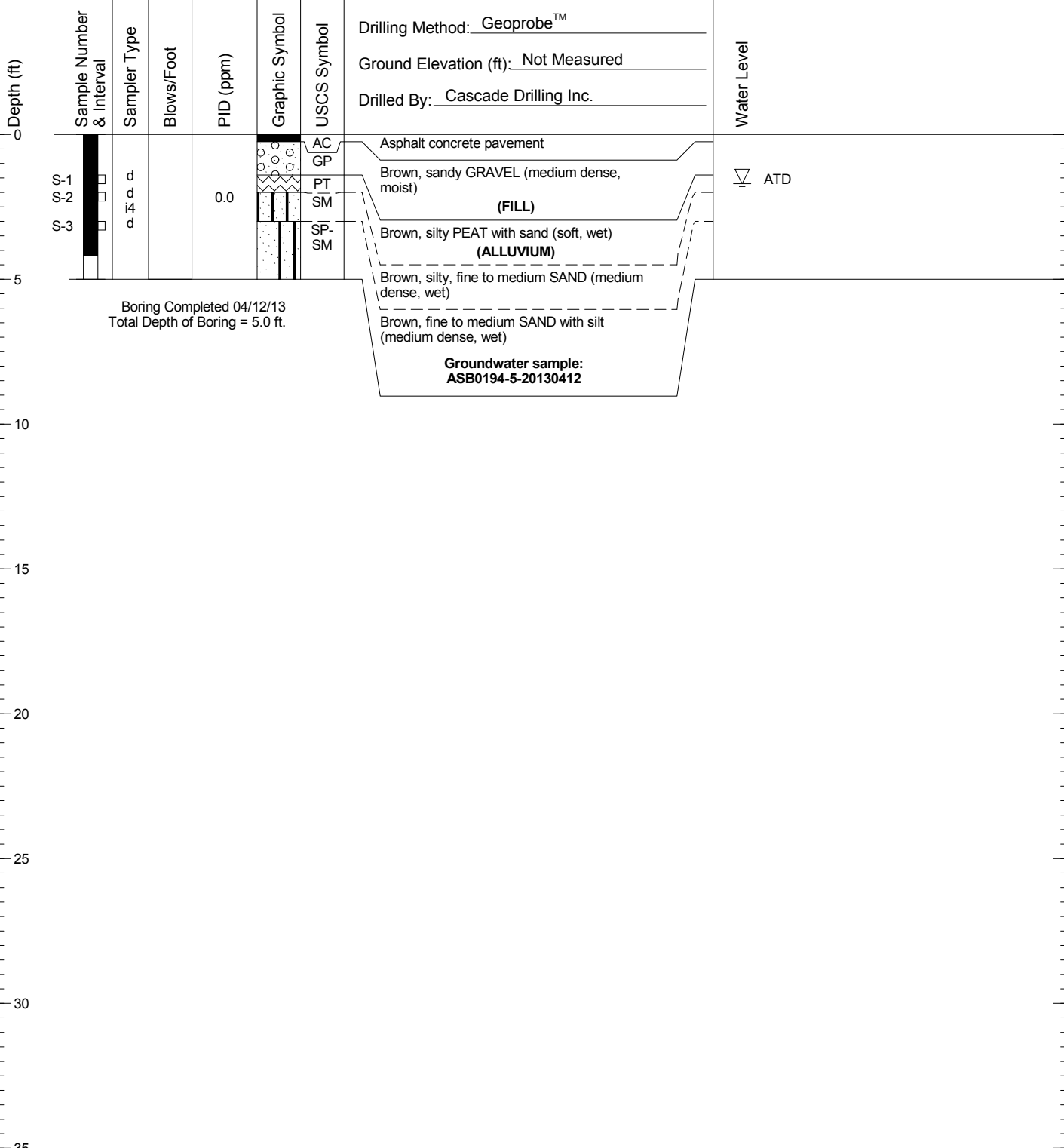
Figure  
**A-14**

# ASB0194

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-38.

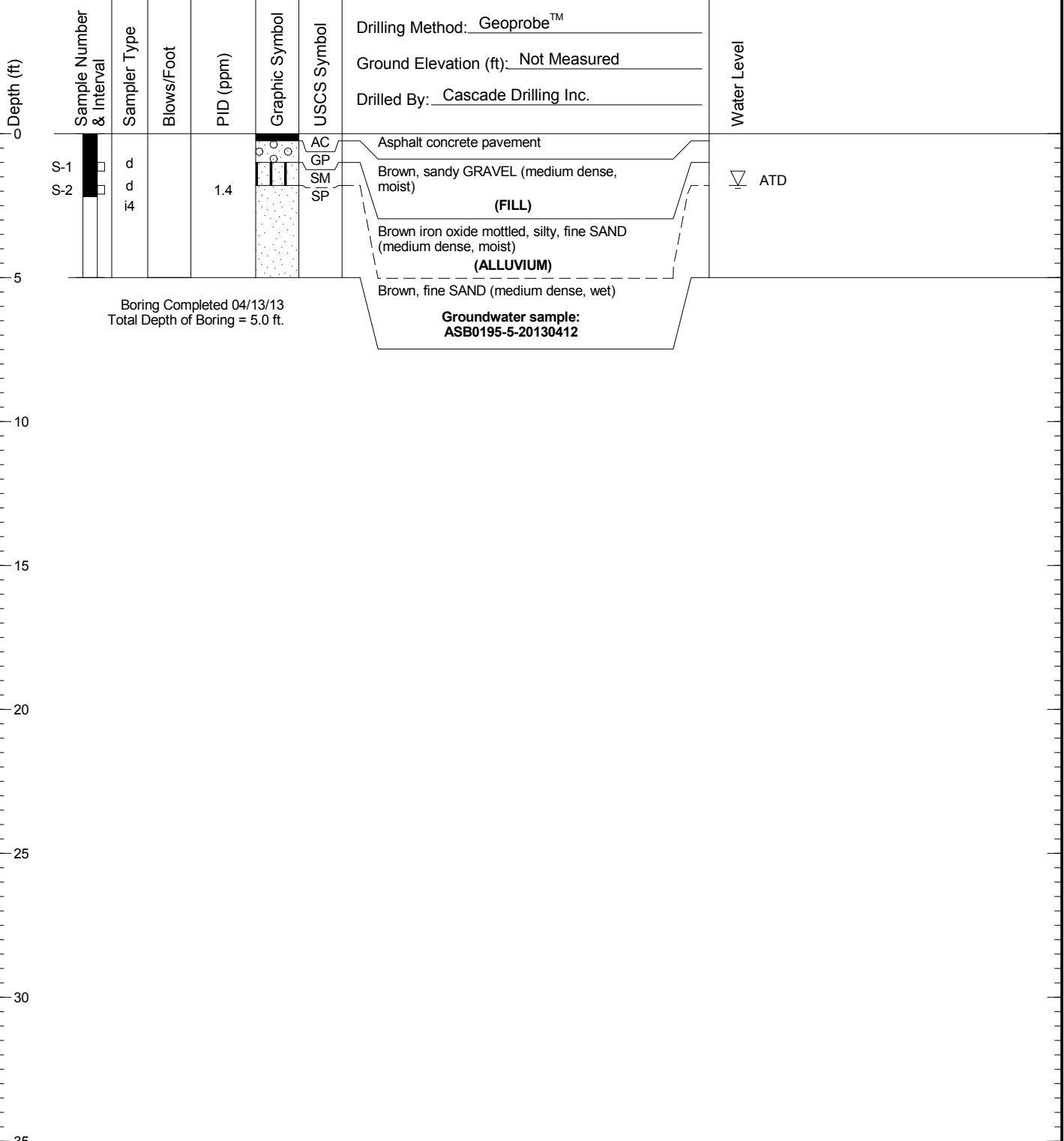
025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

# ASB0195

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-39.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0195

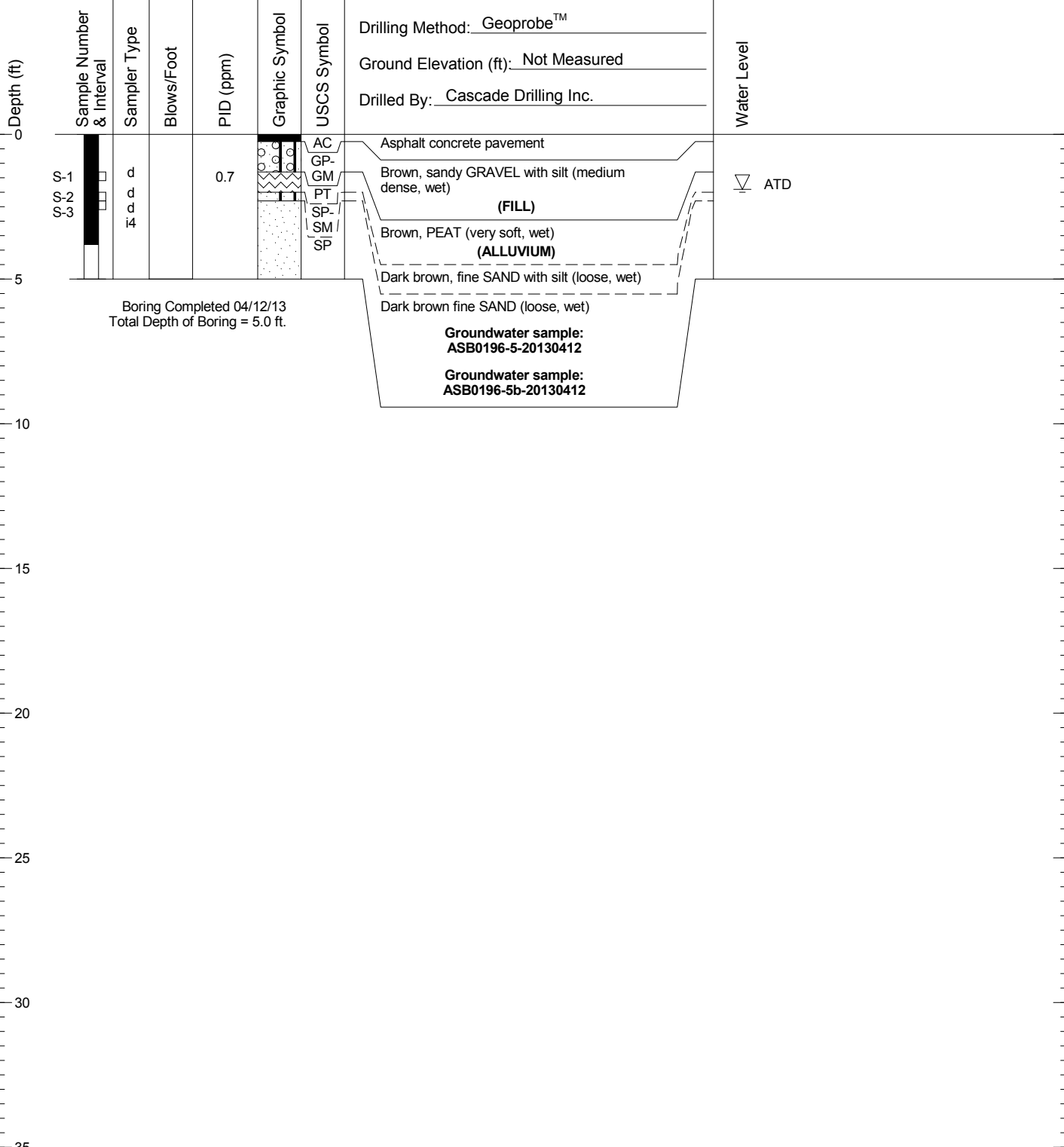
Figure  
**A-16**

# ASB0196

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-40.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0196

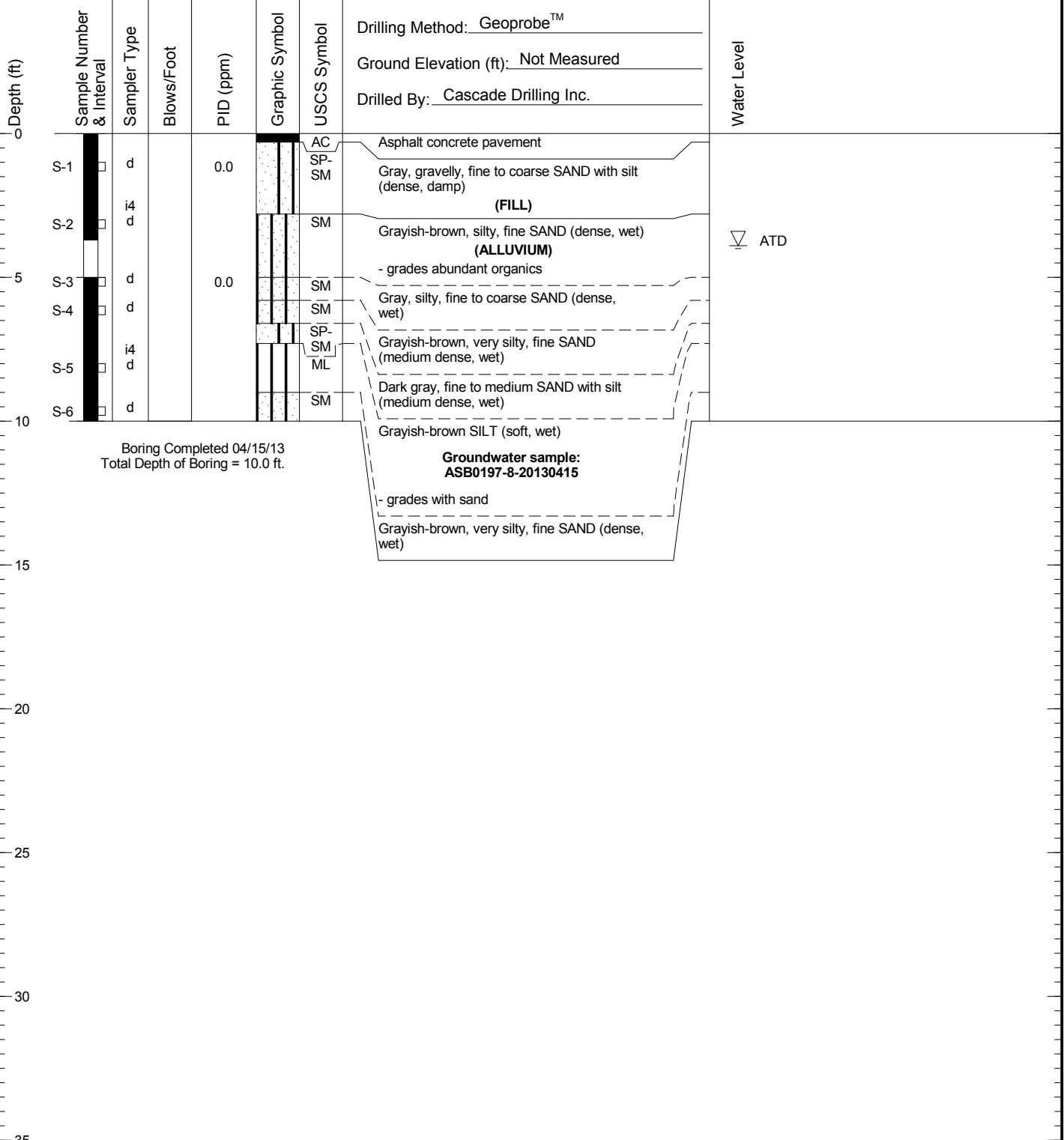
Figure  
**A-17**

# ASB0197

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/15/13  
Total Depth of Boring = 10.0 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.
  4. Work plan designation P-28.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0197

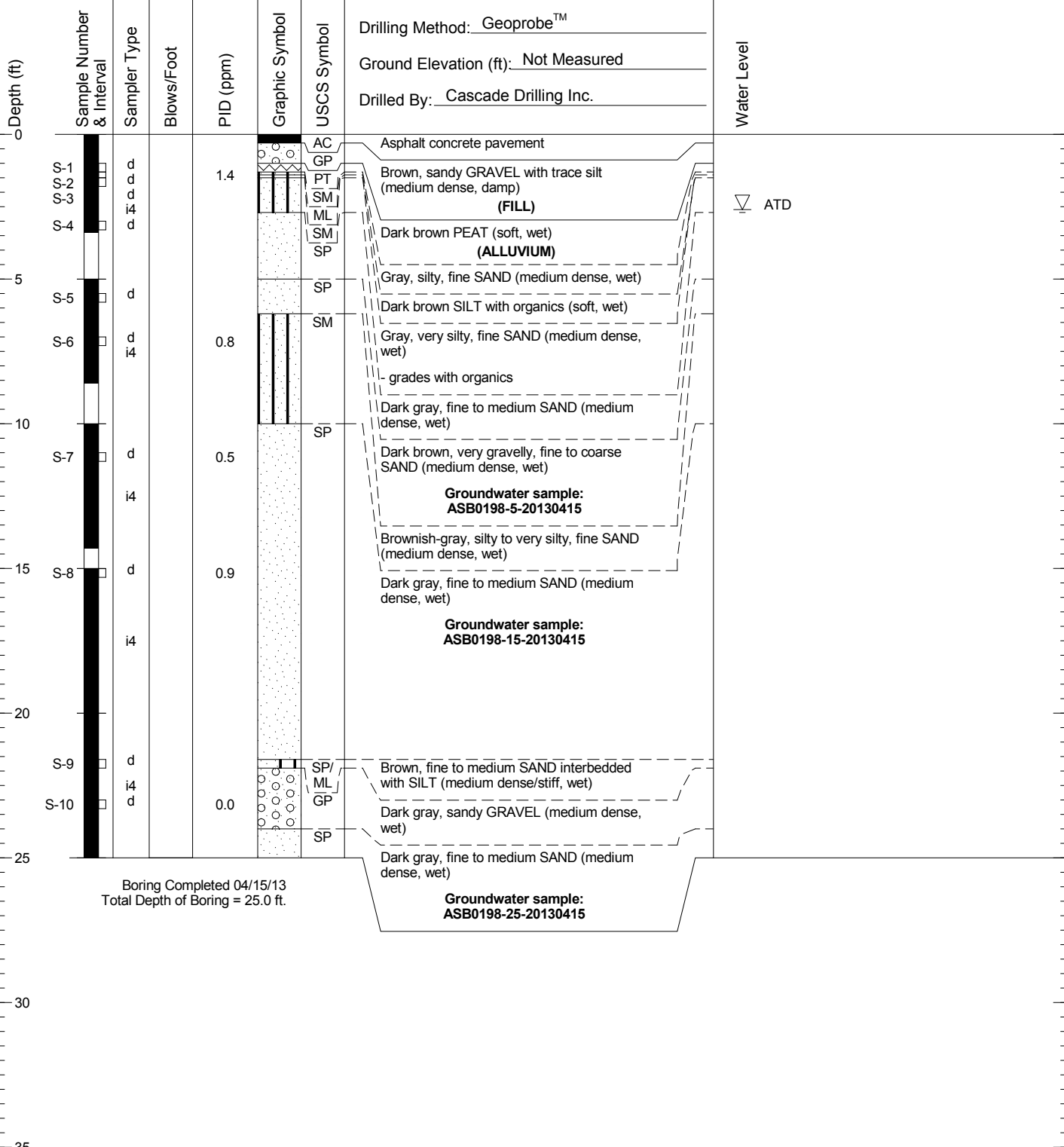
Figure  
**A-18**

# ASB0198

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/15/13  
Total Depth of Boring = 25.0 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.
  4. Work plan designation P-30.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0198

Figure  
**A-19**

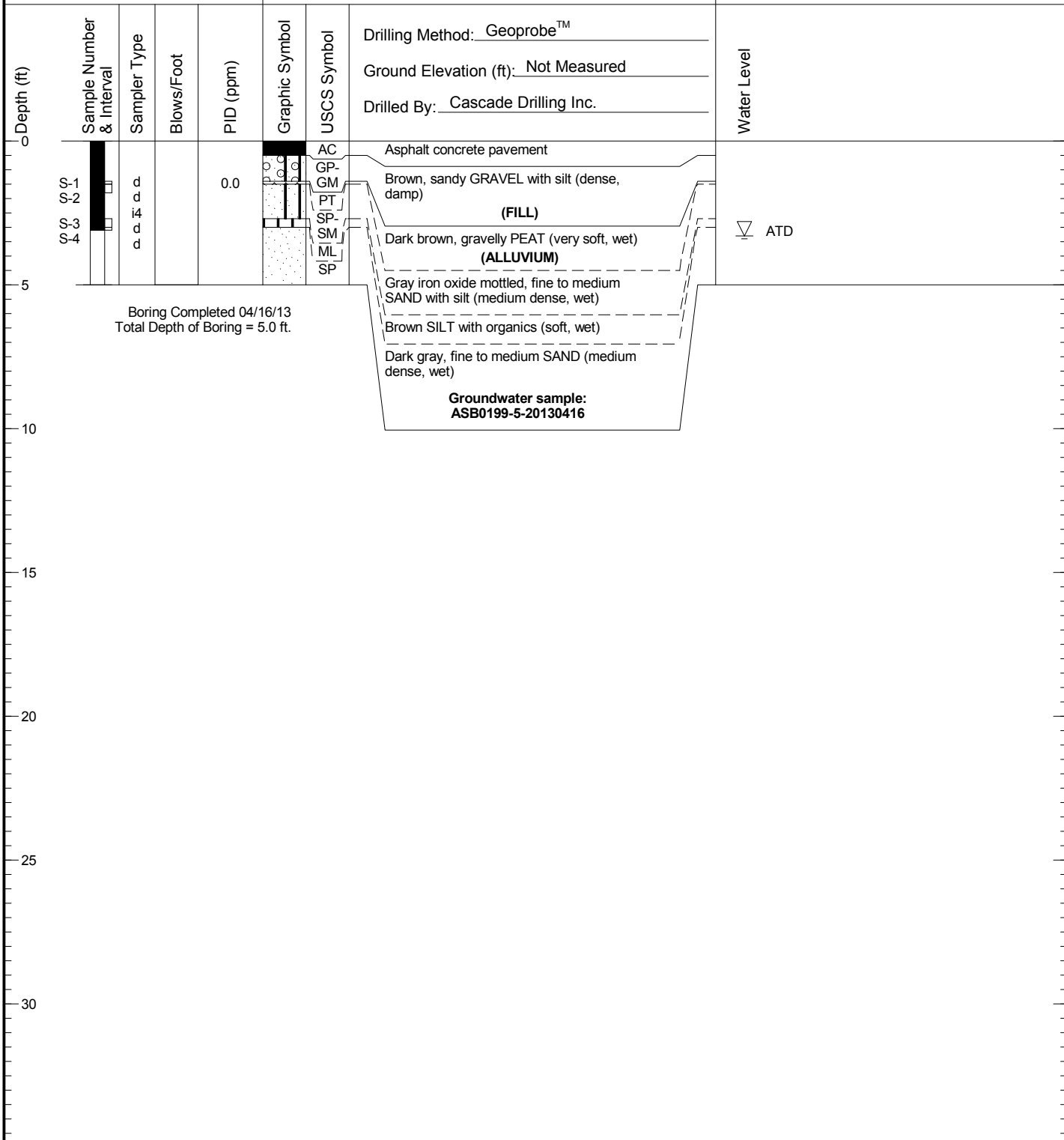


# ASB0199

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-17.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0199

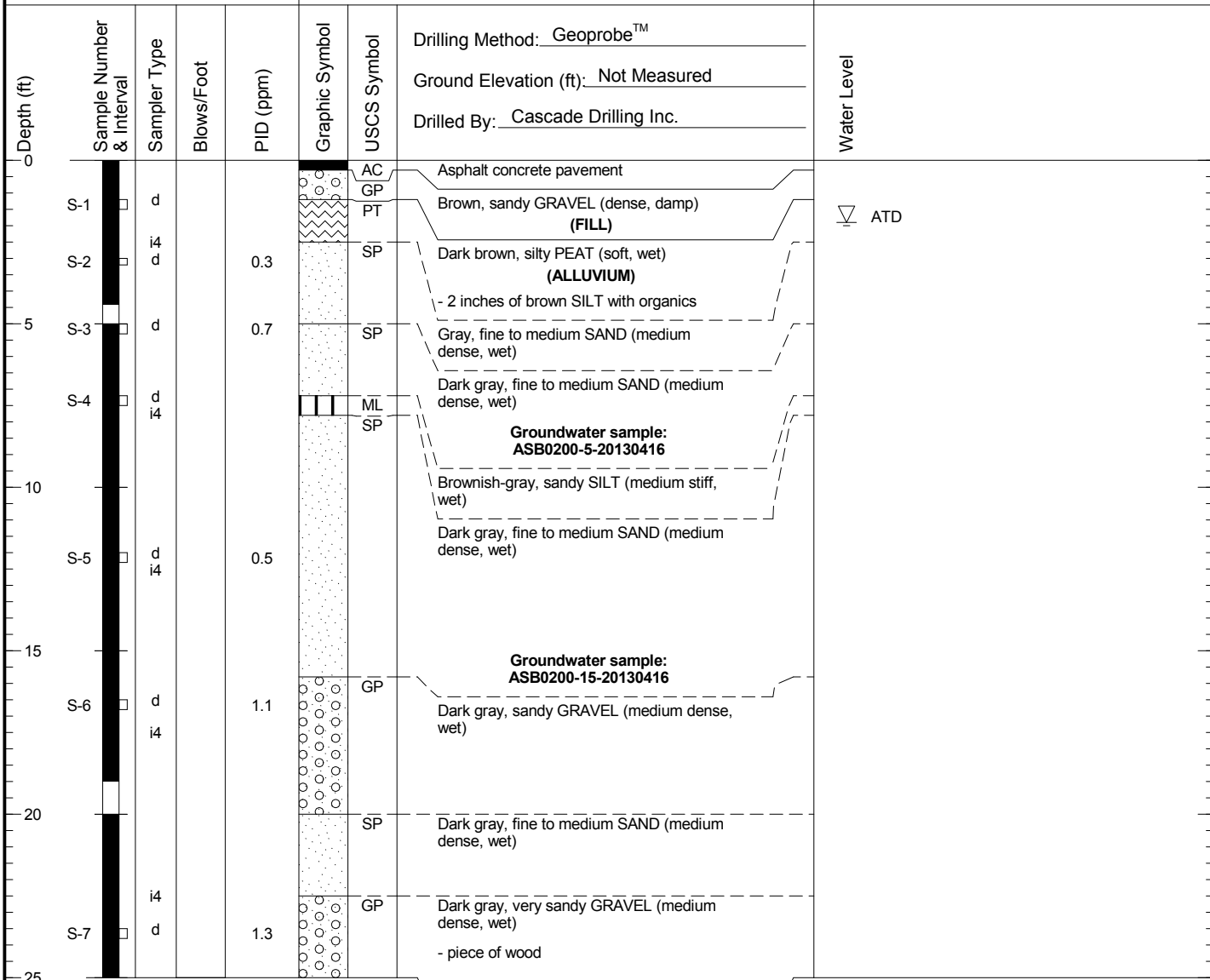
Figure  
**A-20**

# ASB0200

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/16/13  
Total Depth of Boring = 25.0 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.
  4. Work plan designation P-18.

025164 - 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0200

Figure  
**A-21**

# ASB0201

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
0	S-1	d		0.2	AC GP- GM	AC	Asphalt concrete pavement
		i4			ML	ML	Brown, sandy GRAVEL with silt (dense, damp)  <b>(FILL)</b>
5	S-2	d		0.2			Dark brown SILT with abundant organics (very soft, wet)  <b>(ALLUVIUM)</b>
		i4					Groundwater sample: <b>ASB0201-7-20130417</b>
10							▽ ATD

Boring Completed 04/17/13  
Total Depth of Boring = 10.0 ft.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- 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.
  4. Work plan designation P-6.



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0201

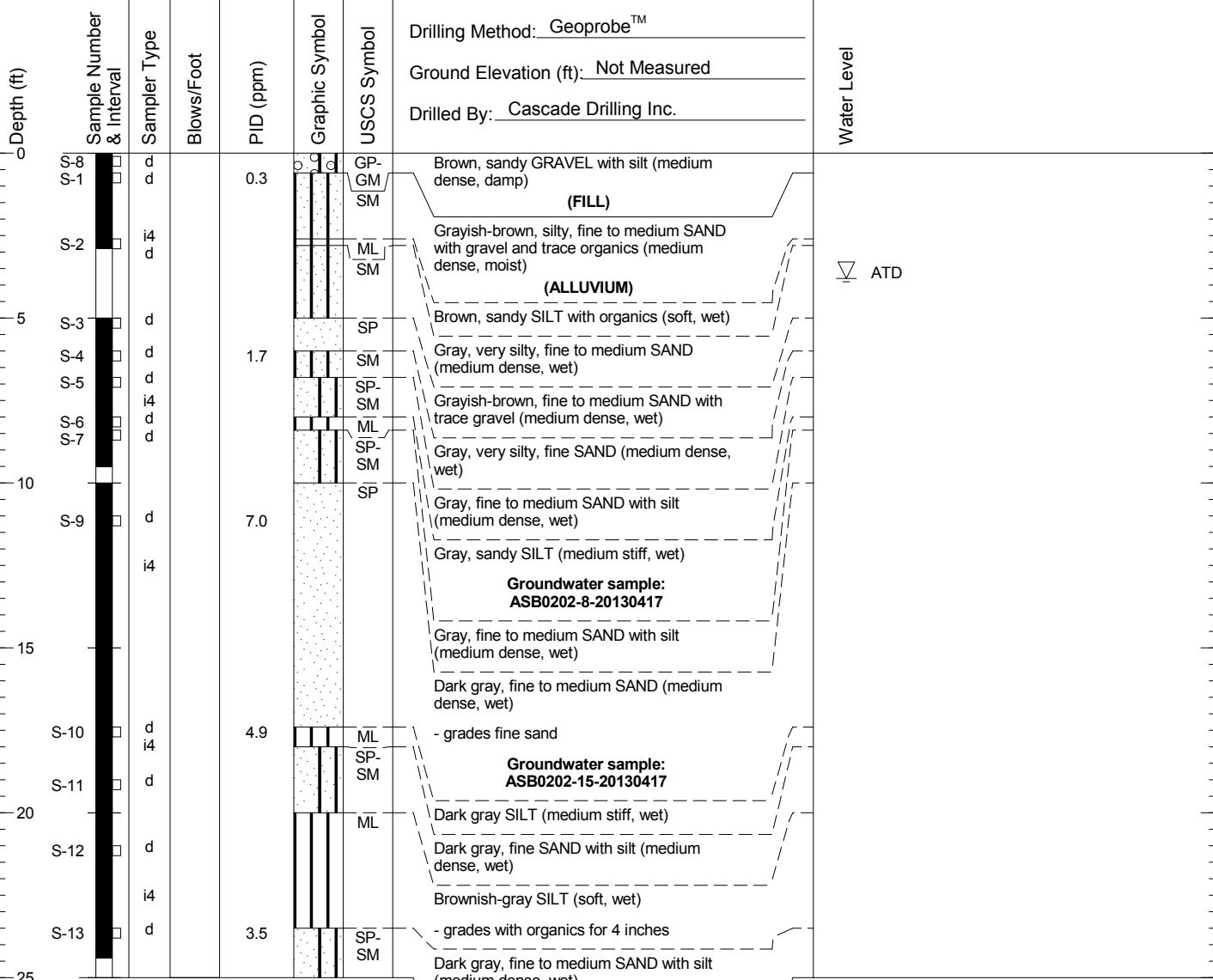
Figure  
**A-22**

# ASB0202

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/17/13  
Total Depth of Boring = 25.0 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.
  4. Work plan designation P-7.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0202

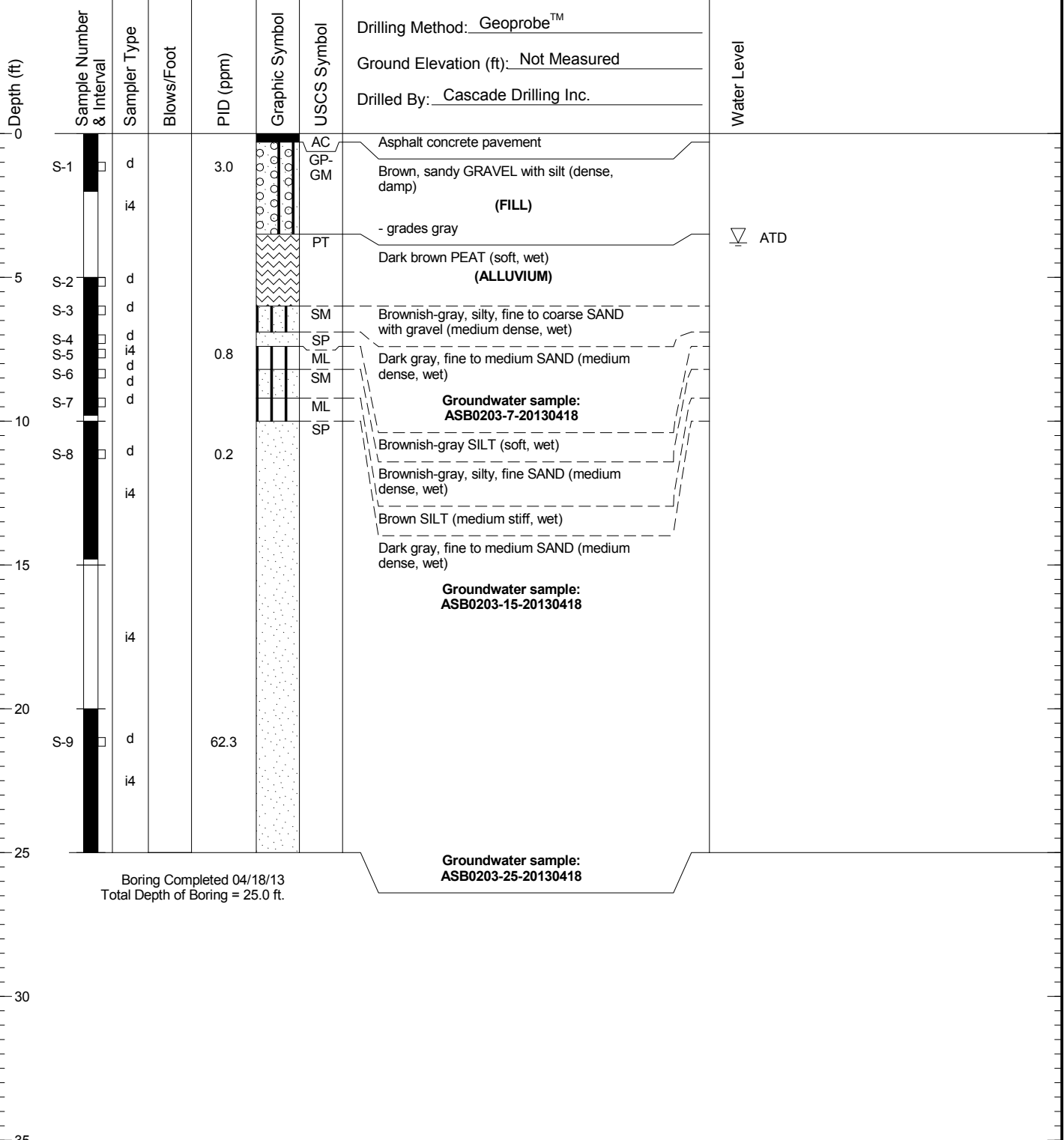
Figure  
**A-23**

# ASB0203

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/18/13  
Total Depth of Boring = 25.0 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.
  4. Work plan designation P-1.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

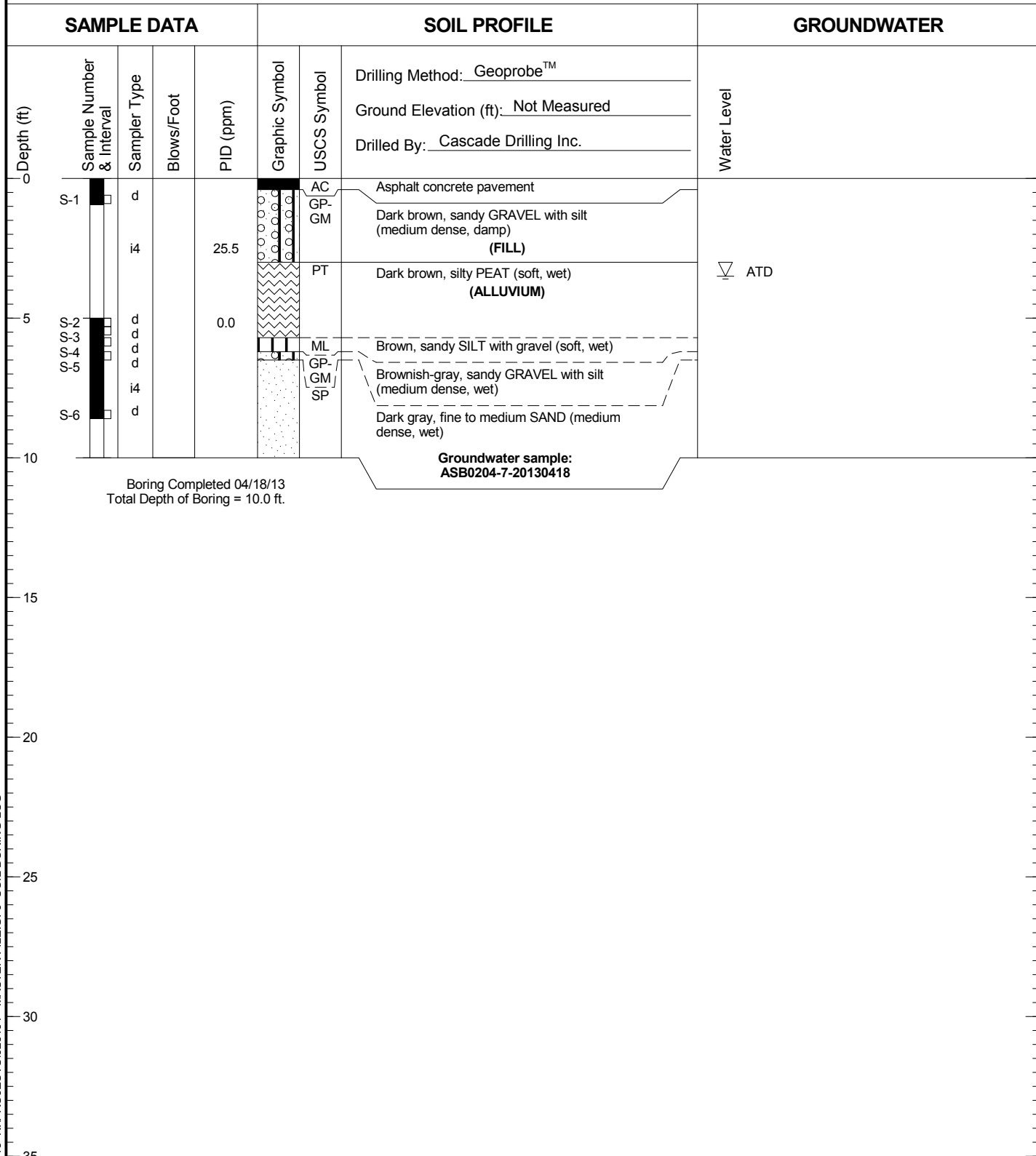


Boeing Auburn  
Auburn, Washington

Log of Boring ASB0203

Figure  
**A-24**

# ASB0204



Boring Completed 04/18/13  
Total Depth of Boring = 10.0 ft.

Groundwater sample:  
ASB0204-7-20130418

- 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.
  4. Work plan designation P-5.

025164\_577/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0204

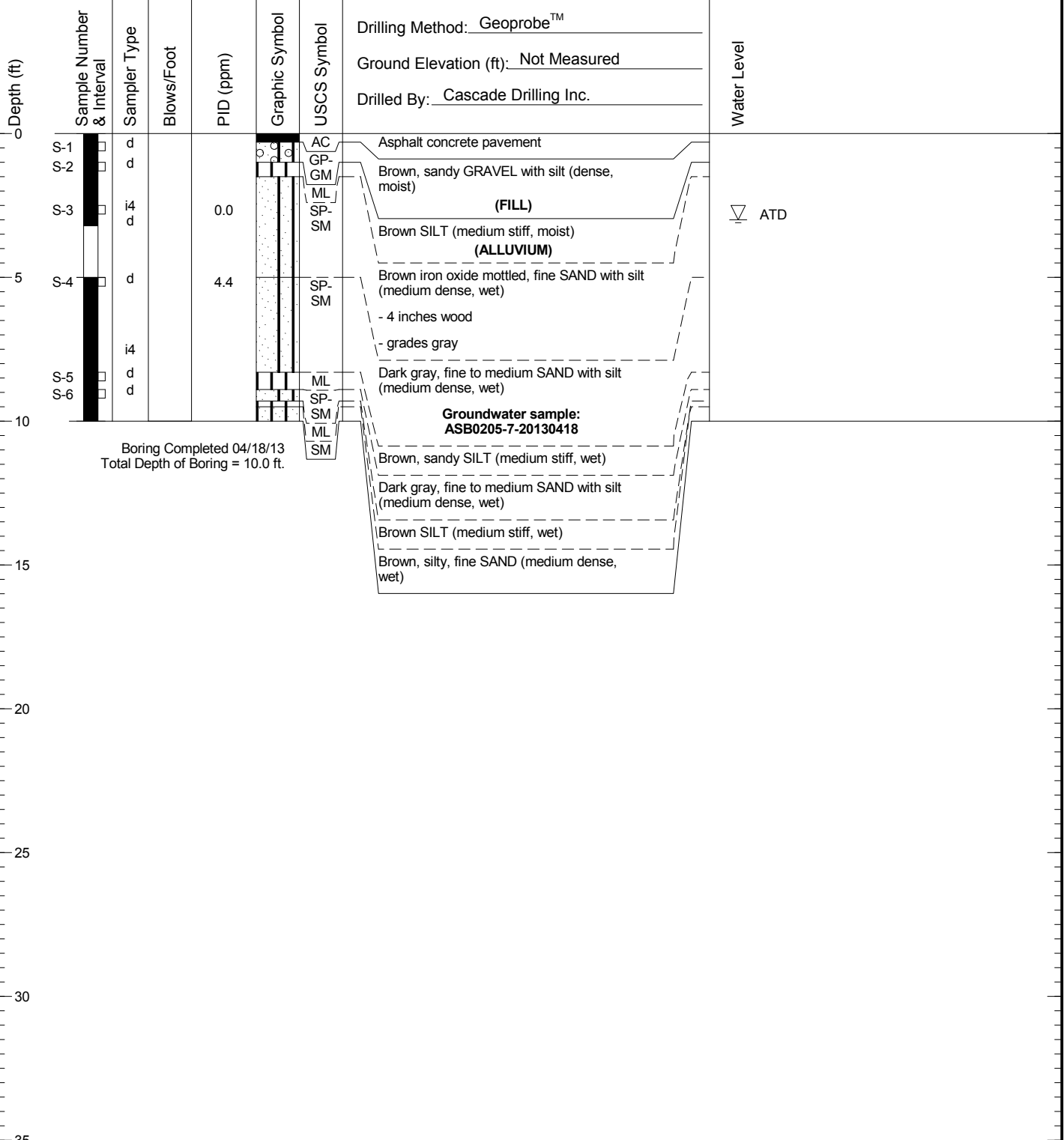
Figure  
**A-25**

# ASB0205

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-45.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0205

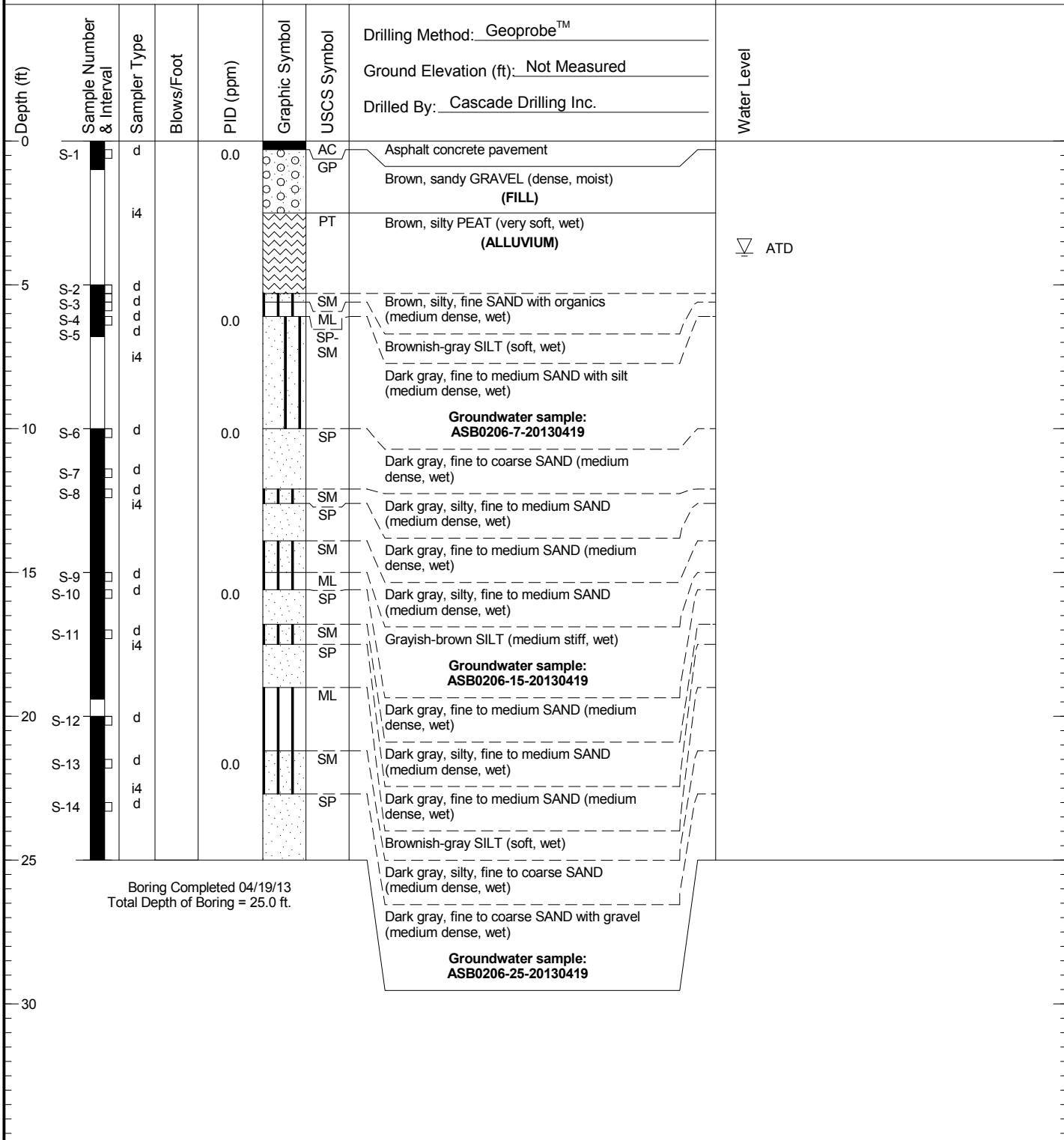
Figure  
**A-26**

# ASB0206

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/19/13  
Total Depth of Boring = 25.0 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.
  4. Work plan designation P-16.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0206

Figure  
**A-27**

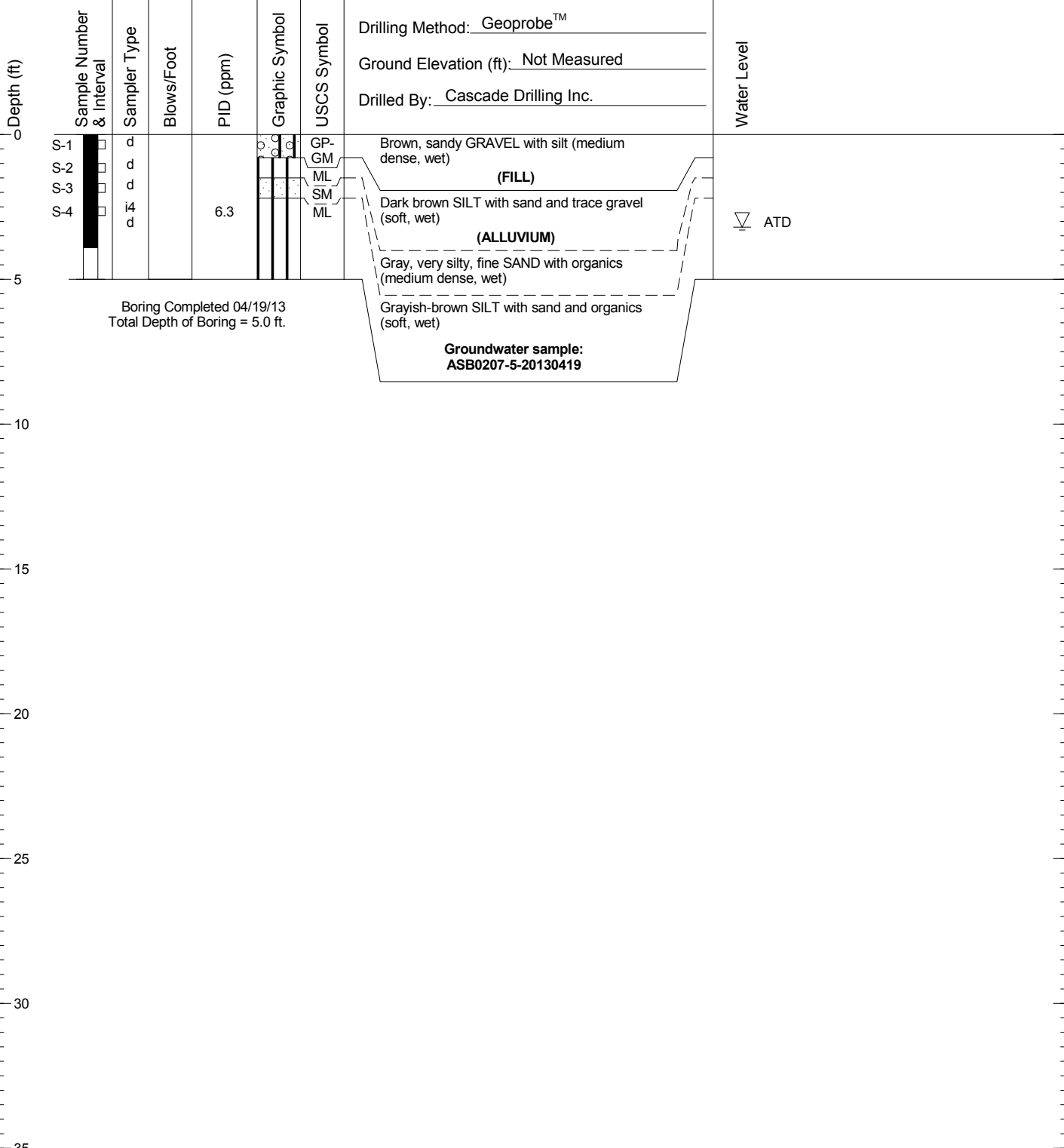


# ASB0207

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-26.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0207

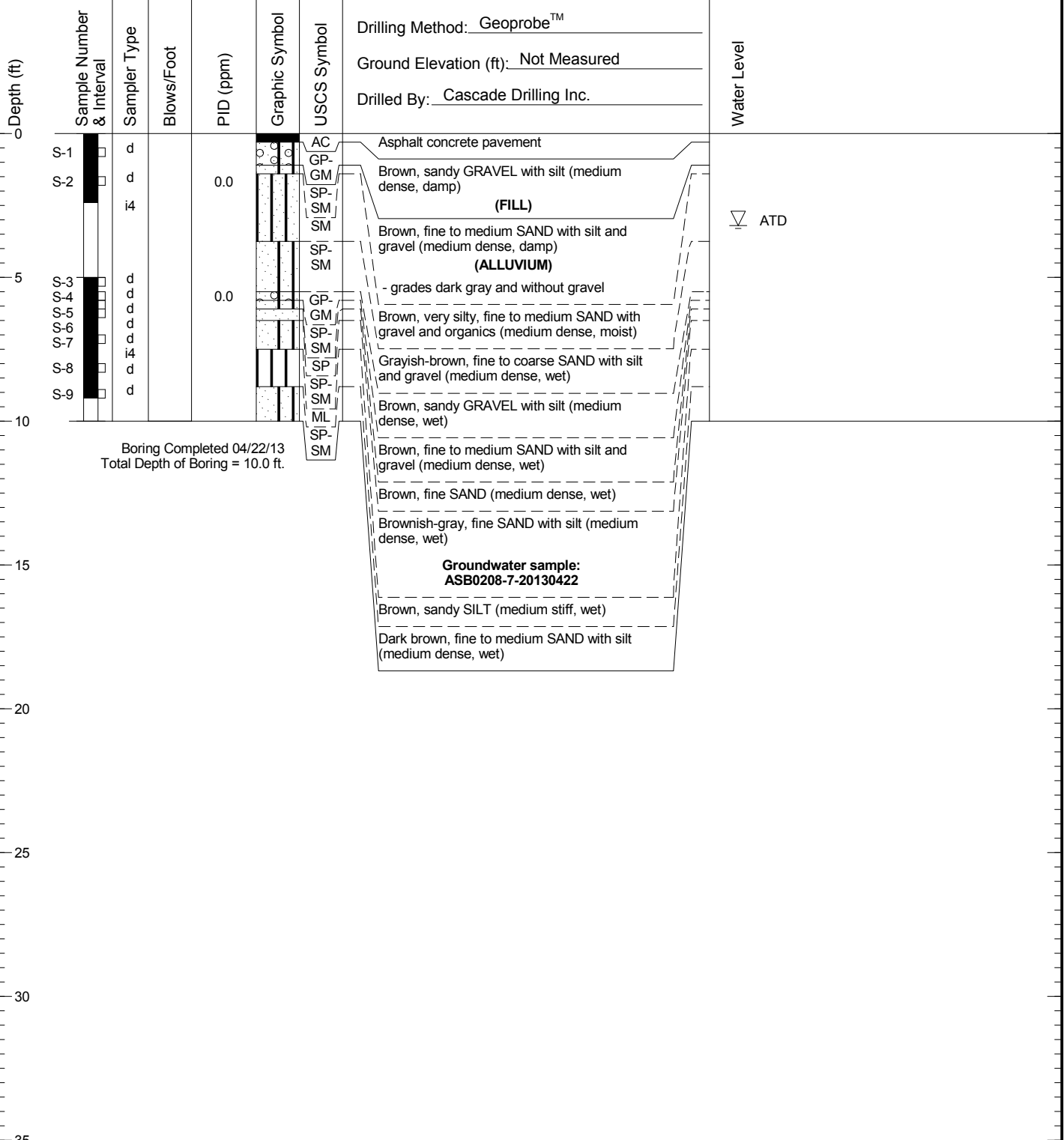
Figure  
**A-28**

# ASB0208

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/22/13  
Total Depth of Boring = 10.0 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.
  4. Work plan designation P-27.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0208

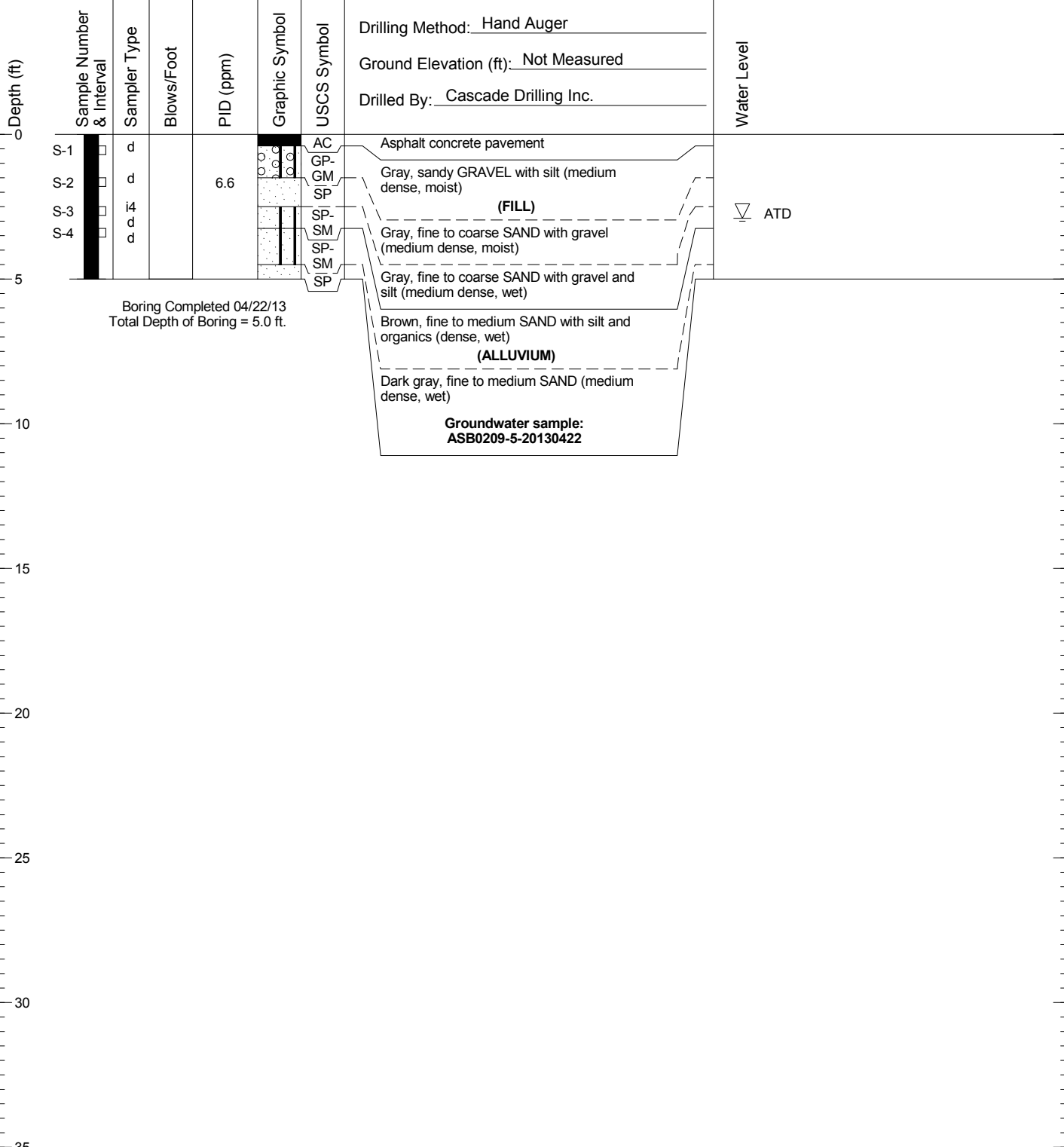
Figure  
**A-29**

# ASB0209

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/22/13  
Total Depth of Boring = 5.0 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.
  4. Work plan designation P-47.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0209

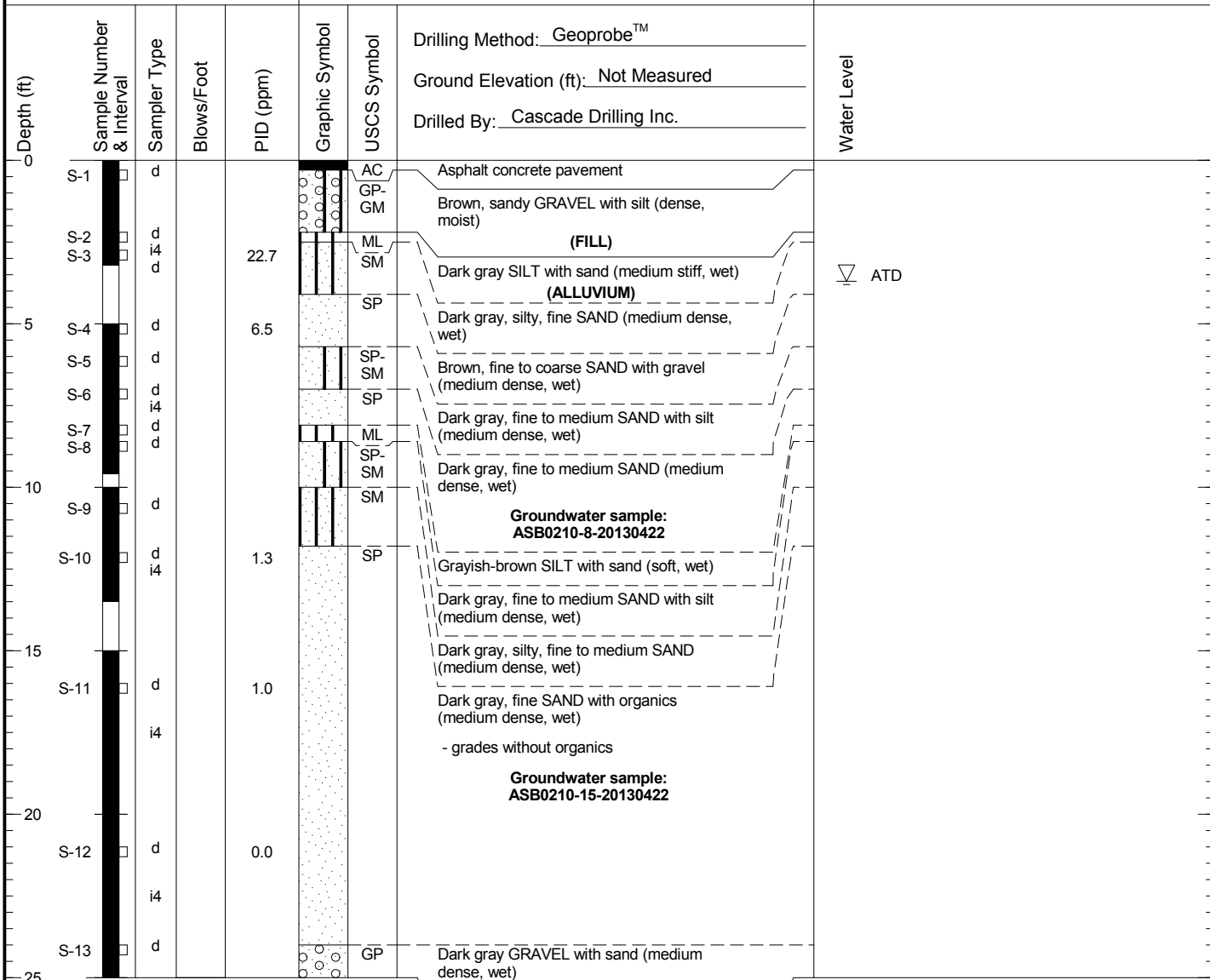
Figure  
**A-30**

# ASB0210

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/22/13  
Total Depth of Boring = 25.0 ft.

Groundwater sample:  
**ASB0210-8-20130422**

Groundwater sample:  
**ASB0210-15-20130422**

Groundwater sample:  
**ASB0210-25-20130422**

- 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.
  4. Work plan designation P-41.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0210

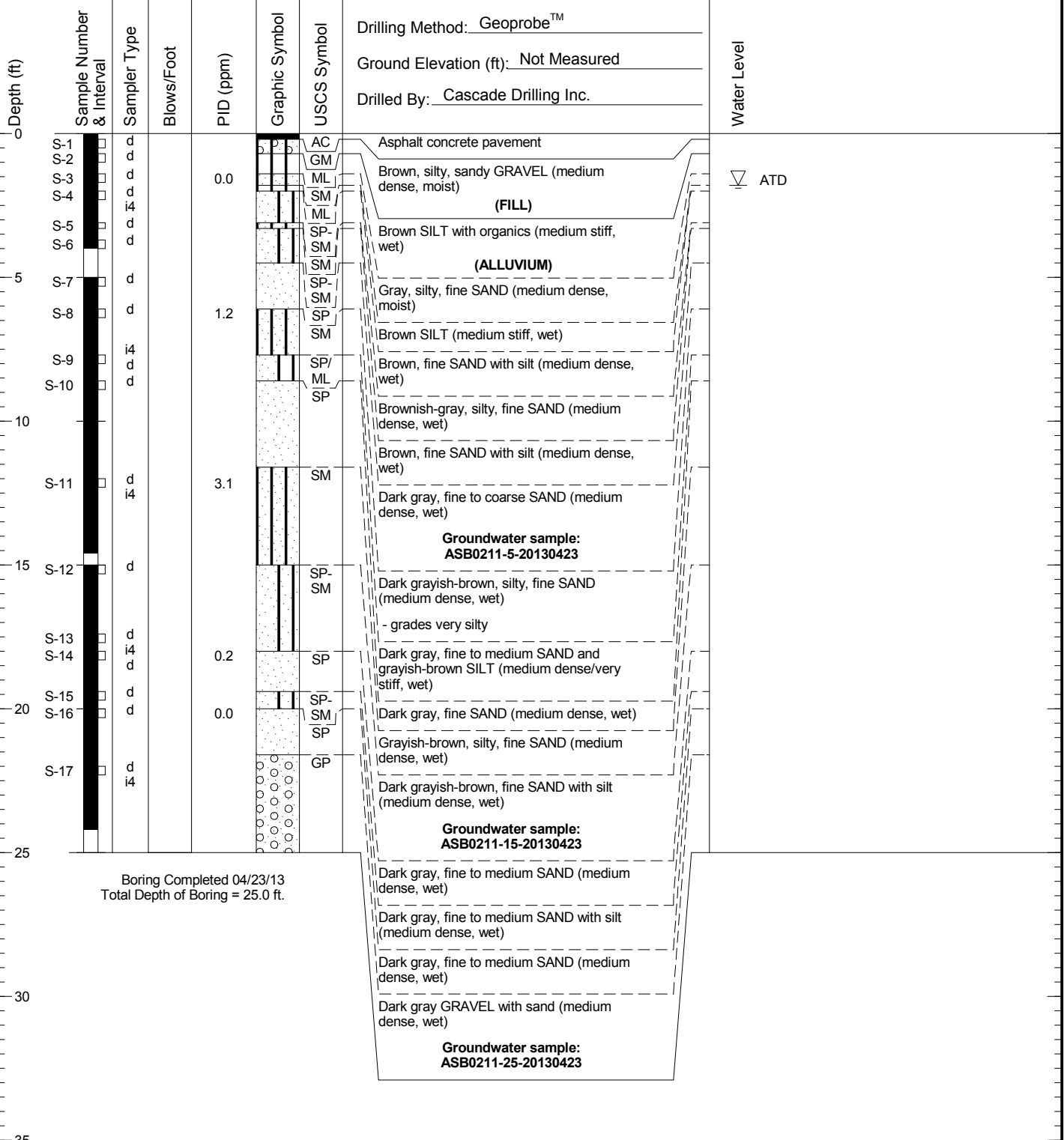
Figure  
**A-31**

# ASB0211

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/23/13  
Total Depth of Boring = 25.0 ft.

Groundwater sample:  
ASB0211-5-20130423

Groundwater sample:  
ASB0211-15-20130423

Groundwater sample:  
ASB0211-25-20130423

- 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.
  4. Work plan designation P-42.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0211

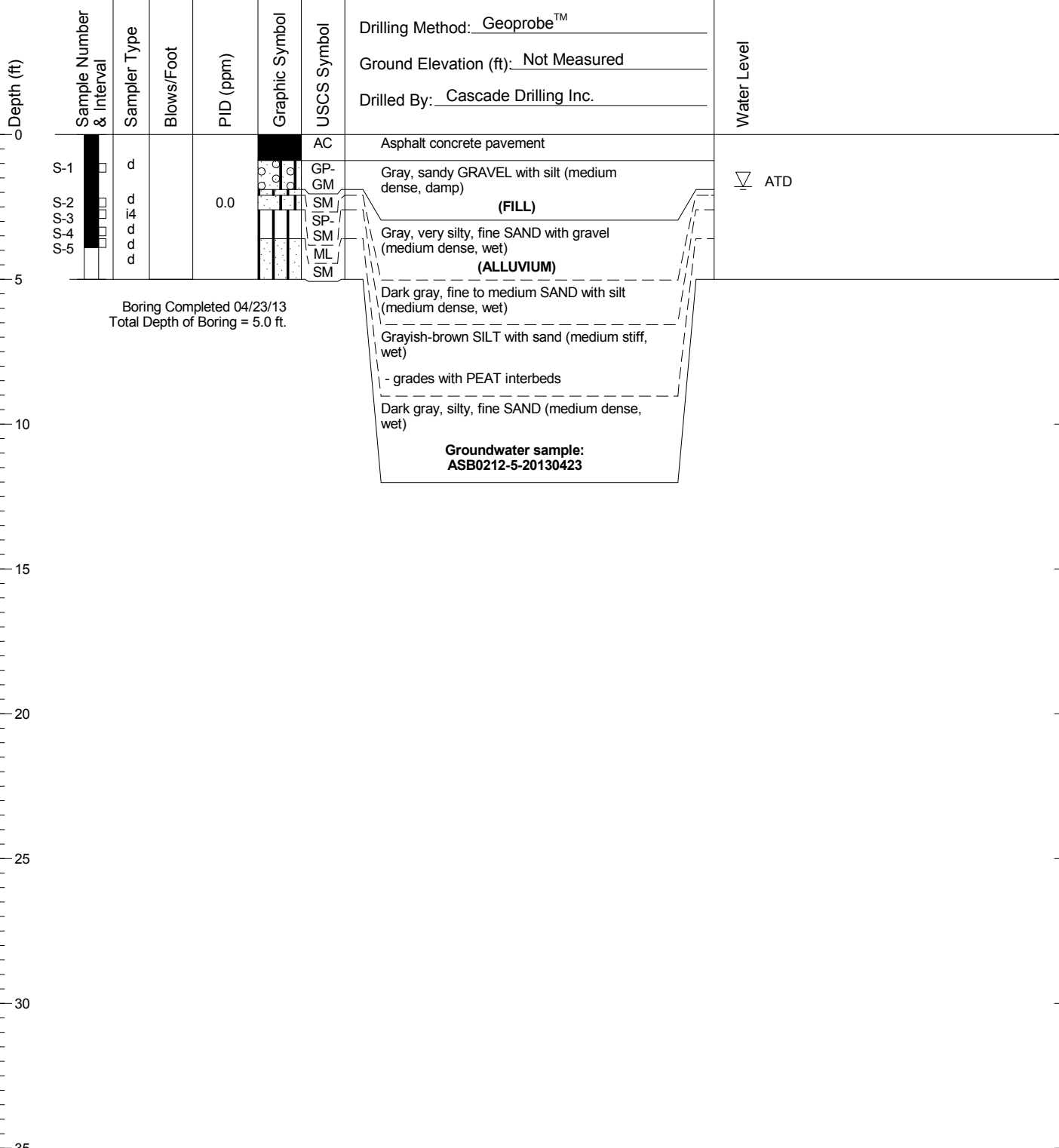
Figure  
**A-32**

# ASB0212

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-43.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0212

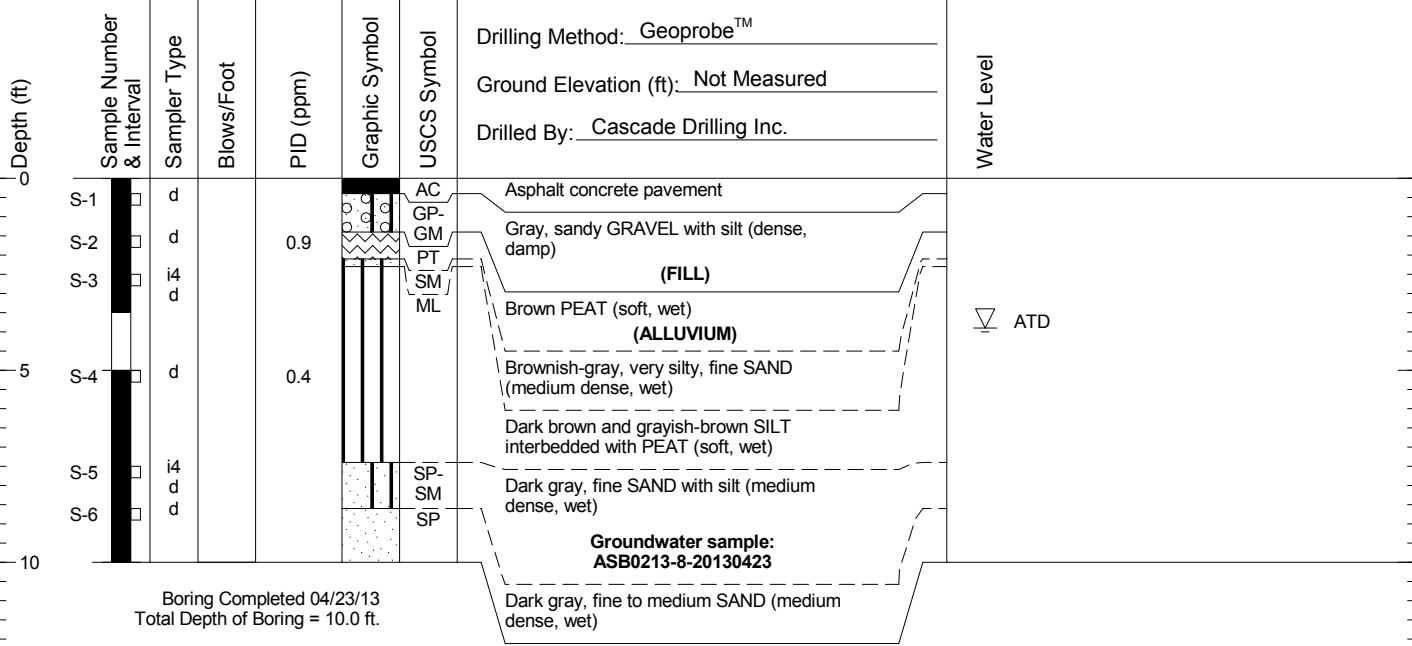
Figure  
**A-33**

# ASB0213

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/23/13  
Total Depth of Boring = 10.0 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.
  4. Work plan designation P-48.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0213

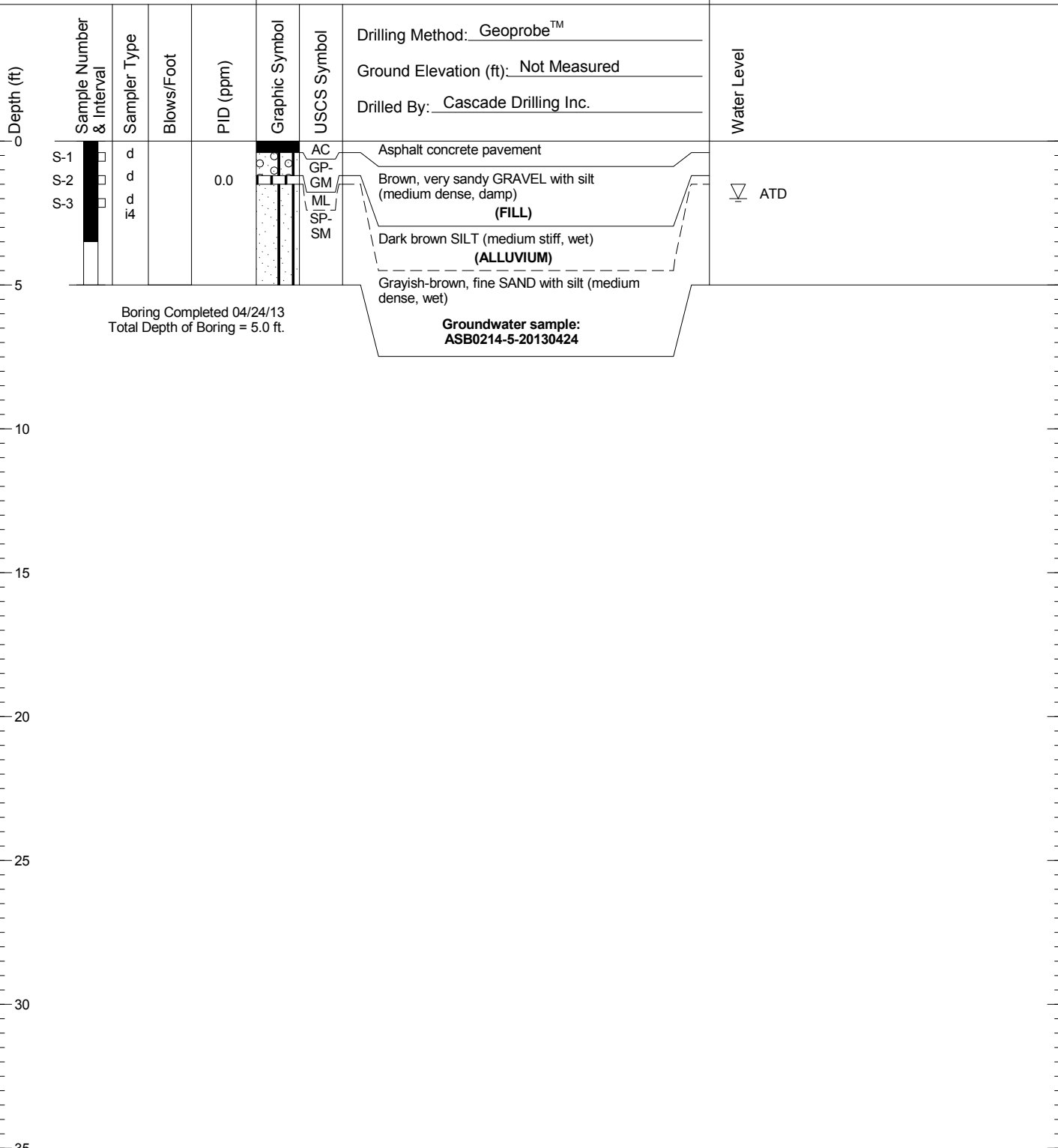
Figure  
**A-34**

# ASB0214

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-37.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0214

Figure  
**A-35**

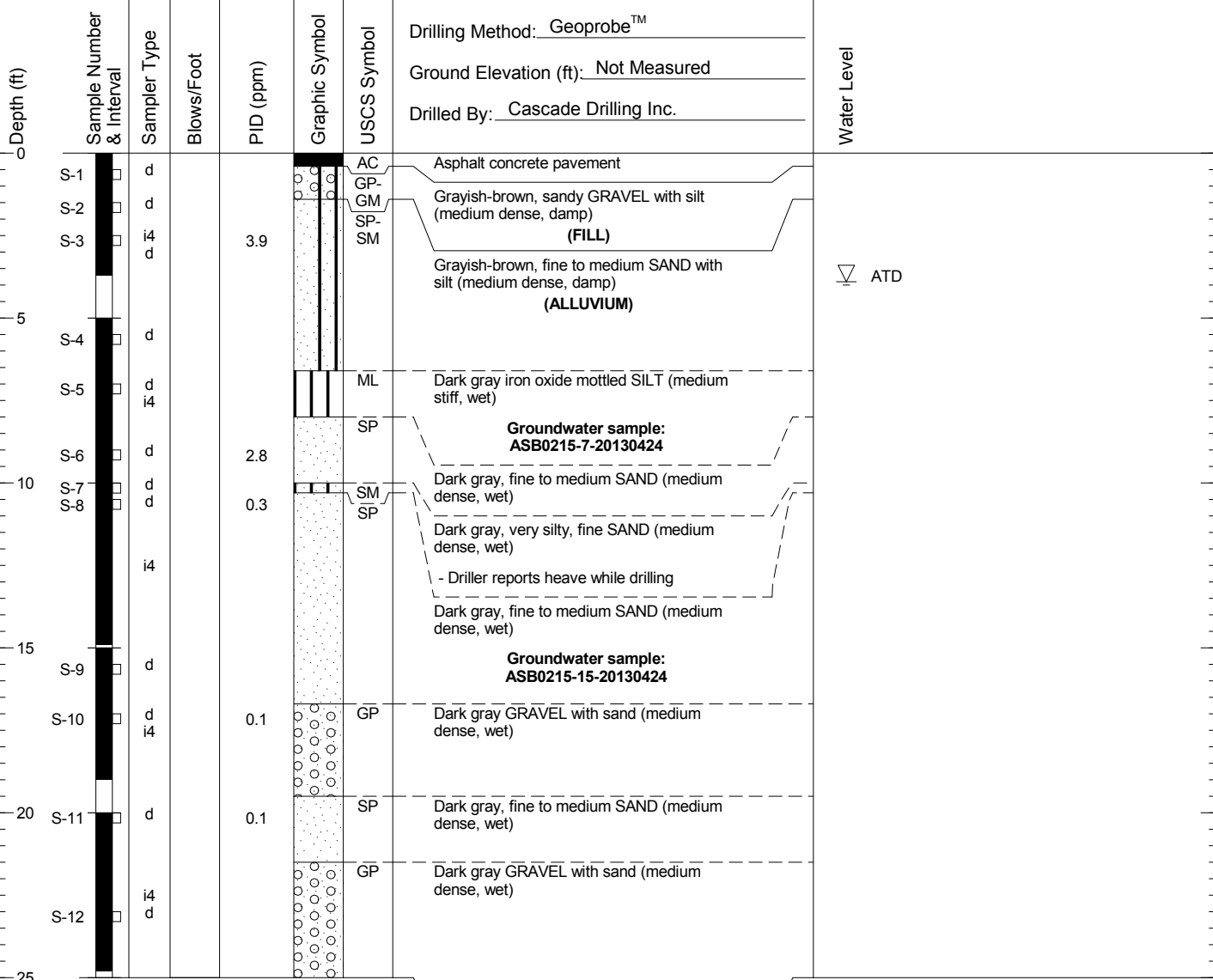


# ASB0215

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/24/13  
Total Depth of Boring = 25.0 ft.

Groundwater sample:  
**ASB0215-25-20130424**

- 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.
  4. Work plan designation P-46.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0215

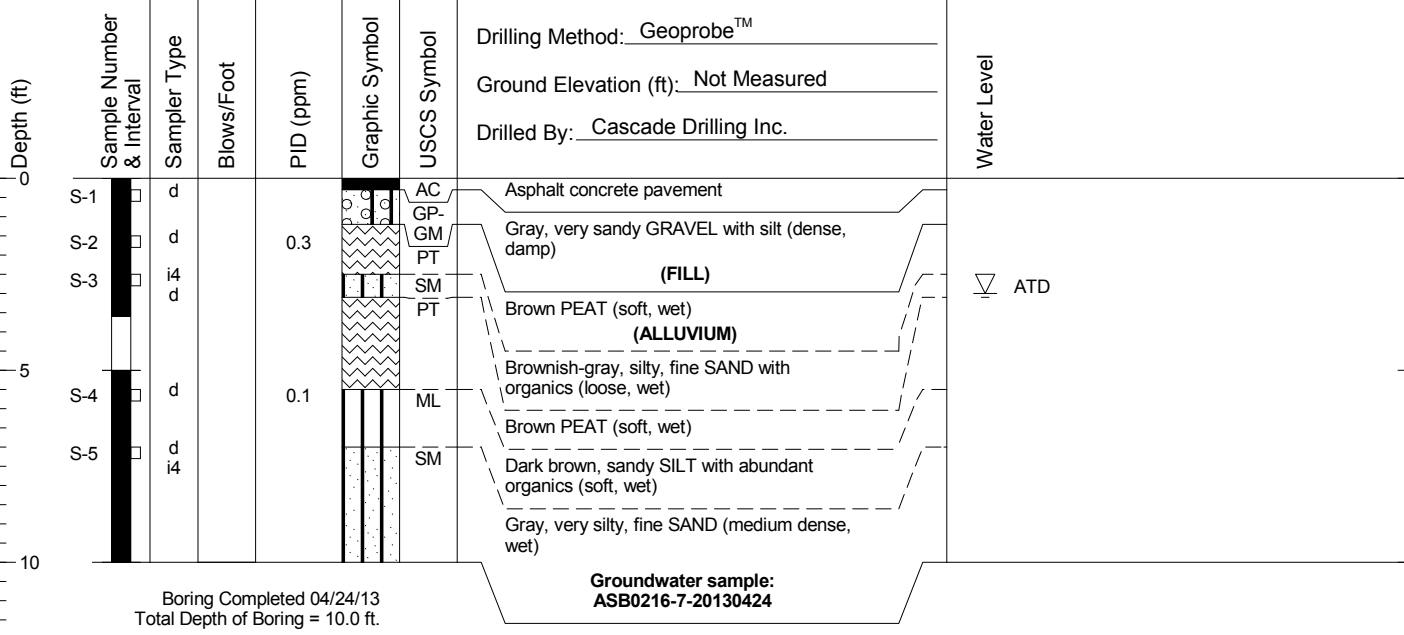
Figure  
**A-36**

# ASB0216

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- 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.
  4. Work plan designation P-49.



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0216

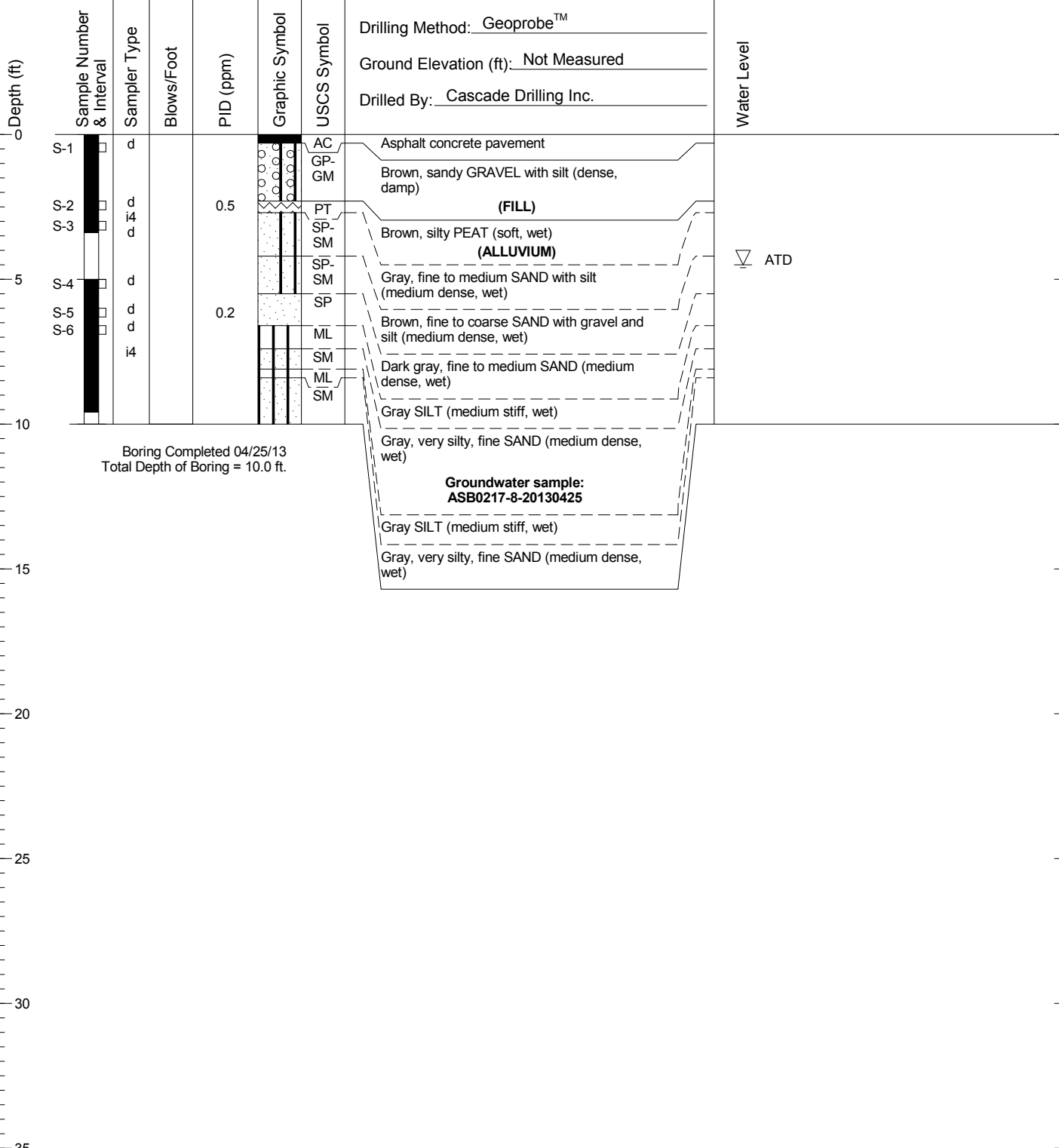
Figure  
**A-37**

# ASB0217

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-12.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0217

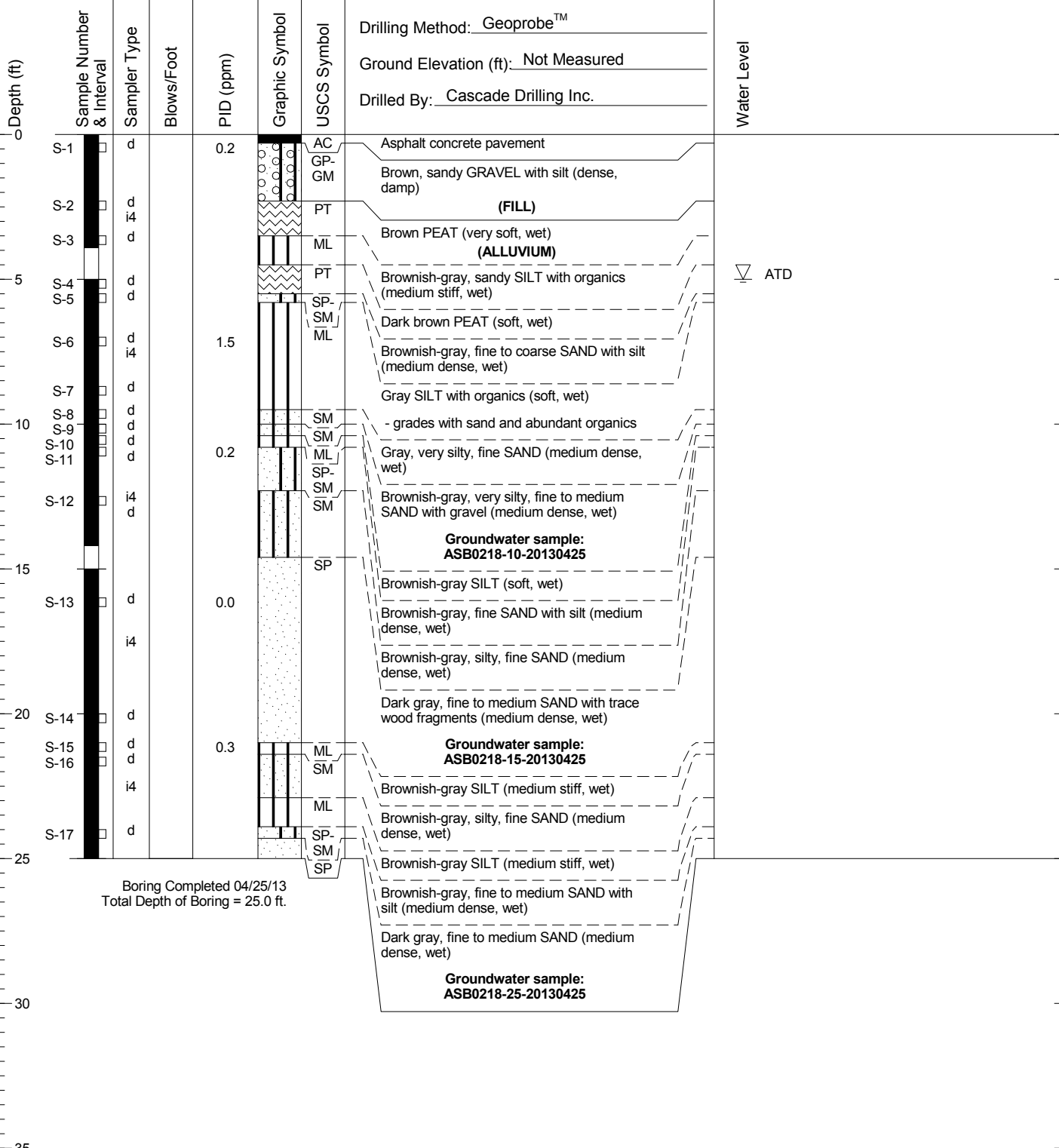
Figure  
**A-38**

# ASB0218

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/25/13  
Total Depth of Boring = 25.0 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.
  4. Work plan designation P-22.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

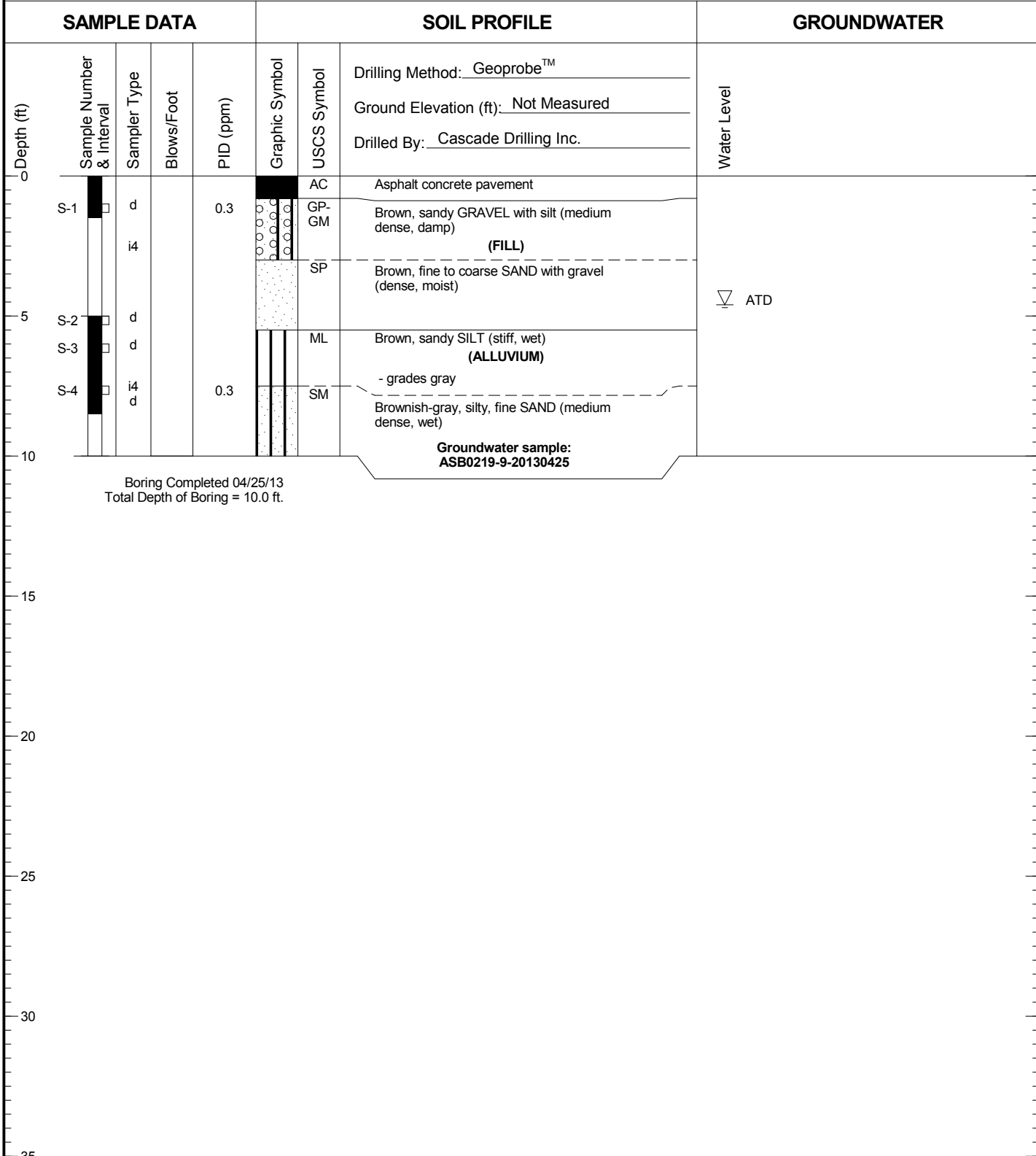


Boeing Auburn  
Auburn, Washington

Log of Boring ASB0218

Figure  
**A-39**

# ASB0219



- 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.
  4. Work plan designation P-32.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

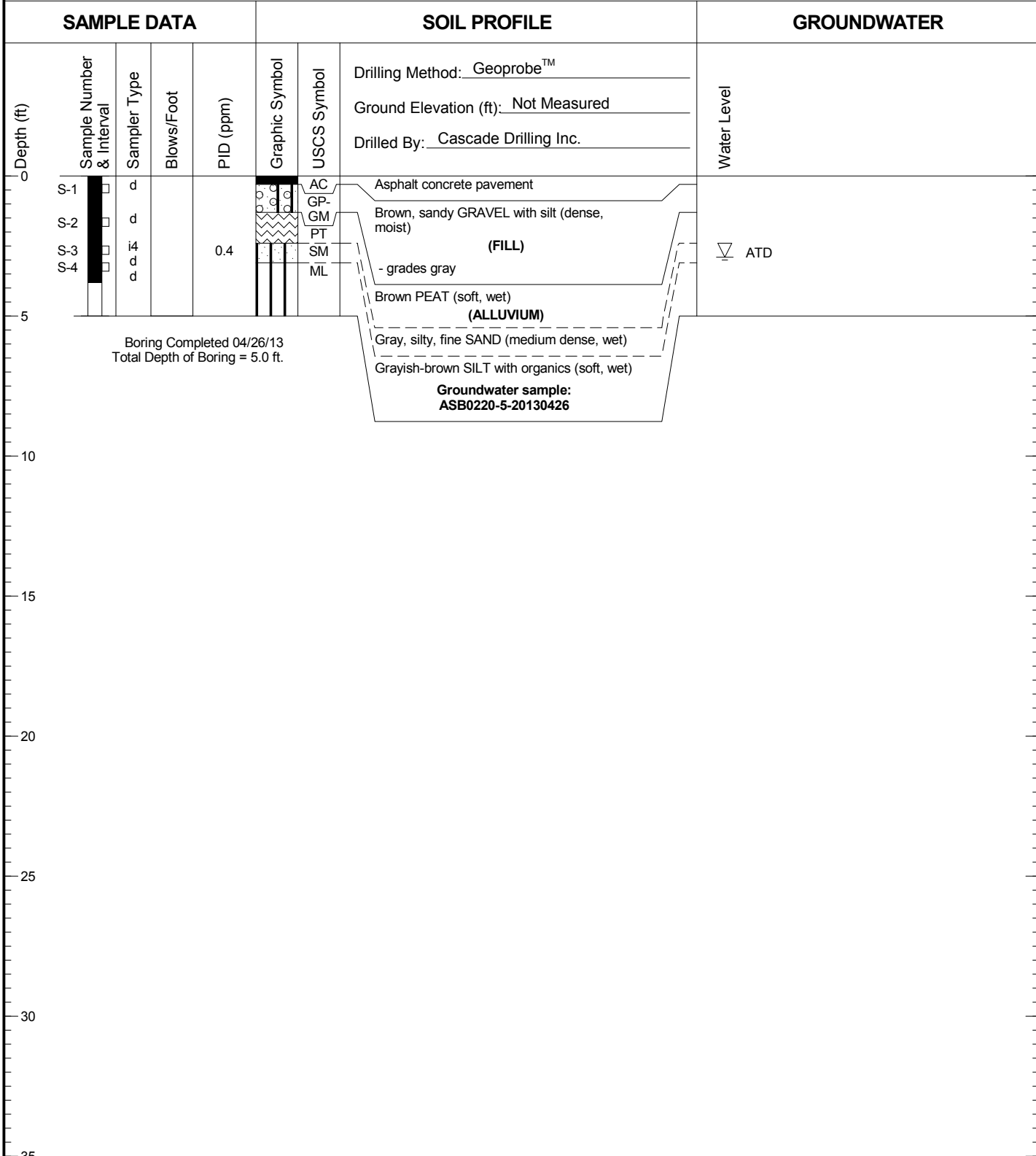


Boeing Auburn  
Auburn, Washington

Log of Boring ASB0219

Figure  
**A-40**

# ASB0220



025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- 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.
  4. Work plan designation P-13.



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0220

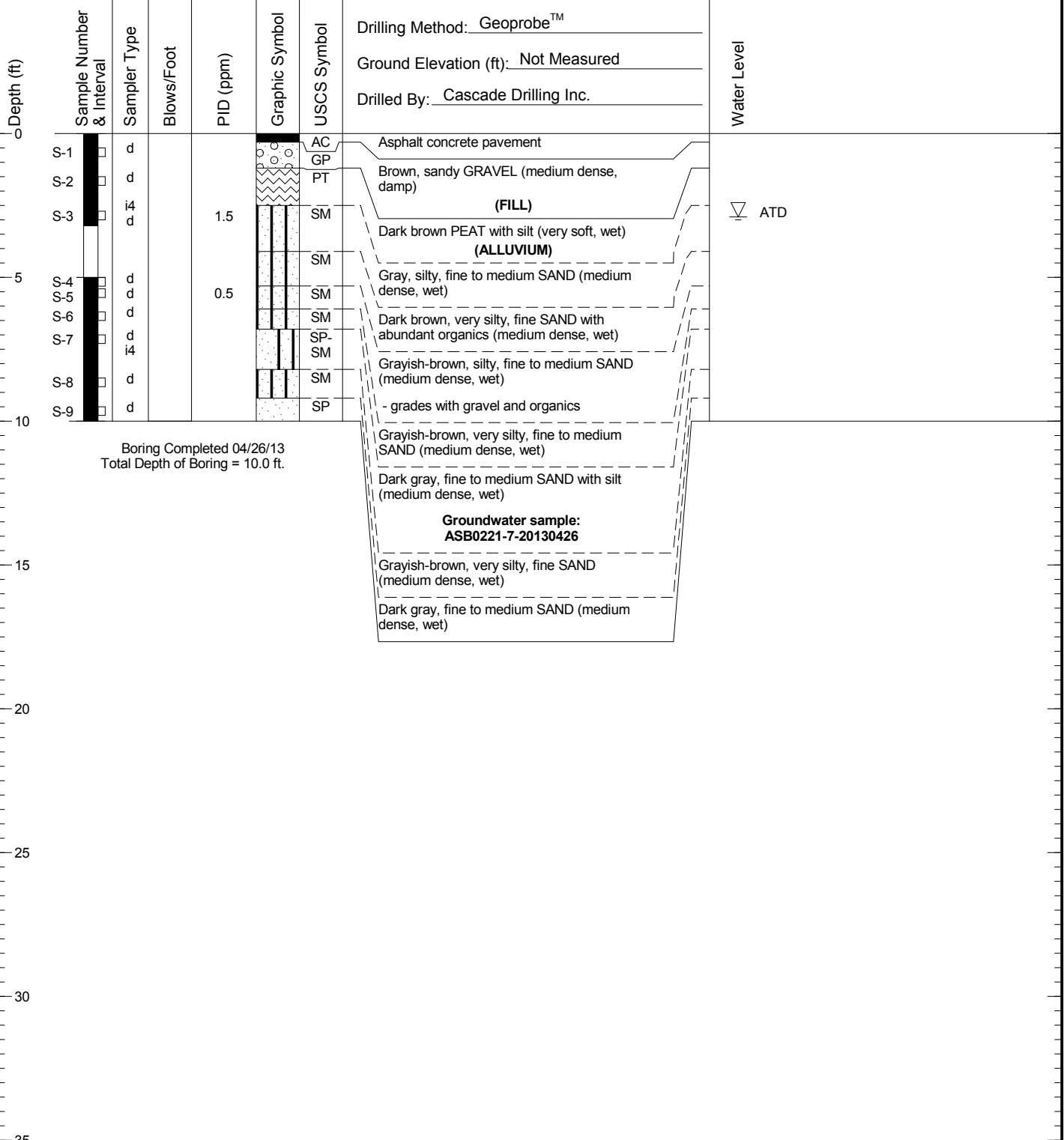
Figure  
**A-41**

# ASB0221

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-23.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0221

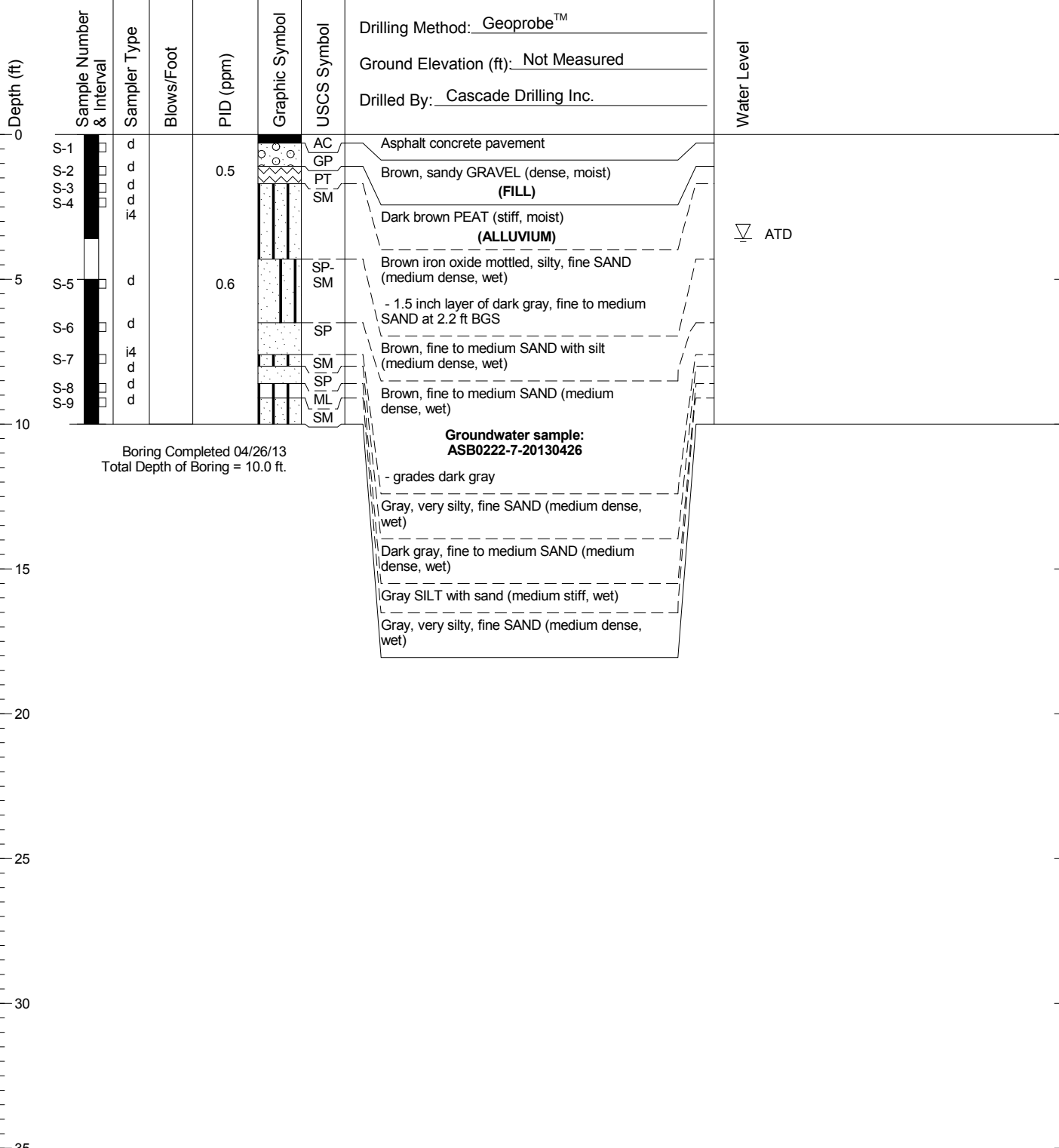
Figure  
**A-42**

# ASB0222

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



- 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.
  4. Work plan designation P-33.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0222

Figure  
**A-43**

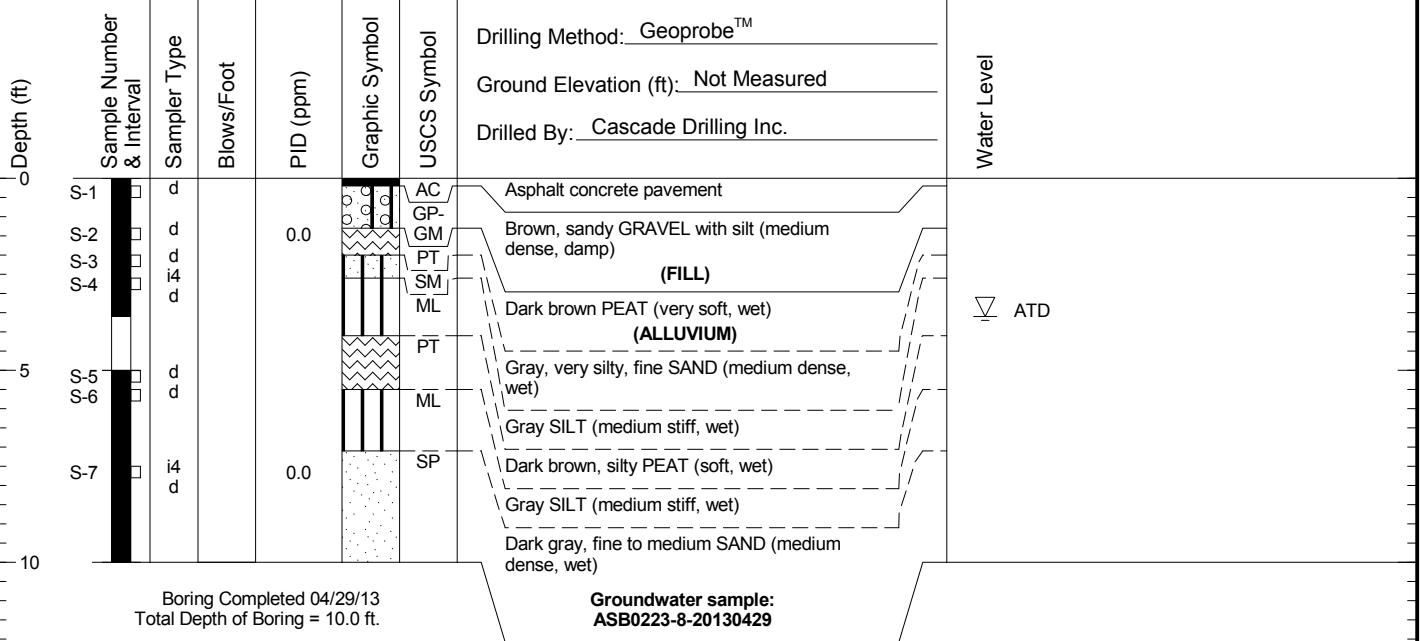


# ASB0223

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- 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.
  4. Work plan designation P-15.



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0223

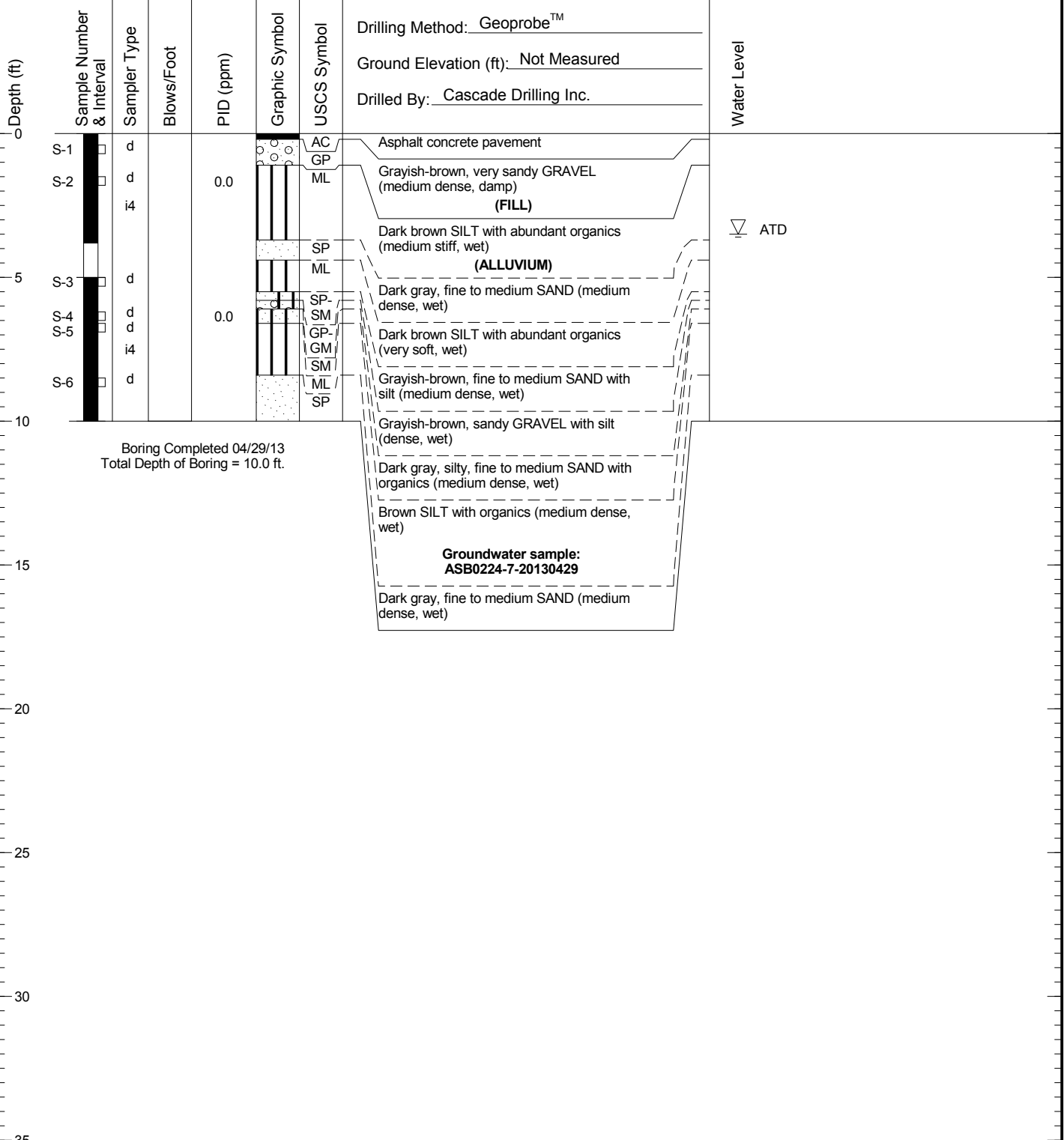
Figure  
**A-44**

# ASB0224

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



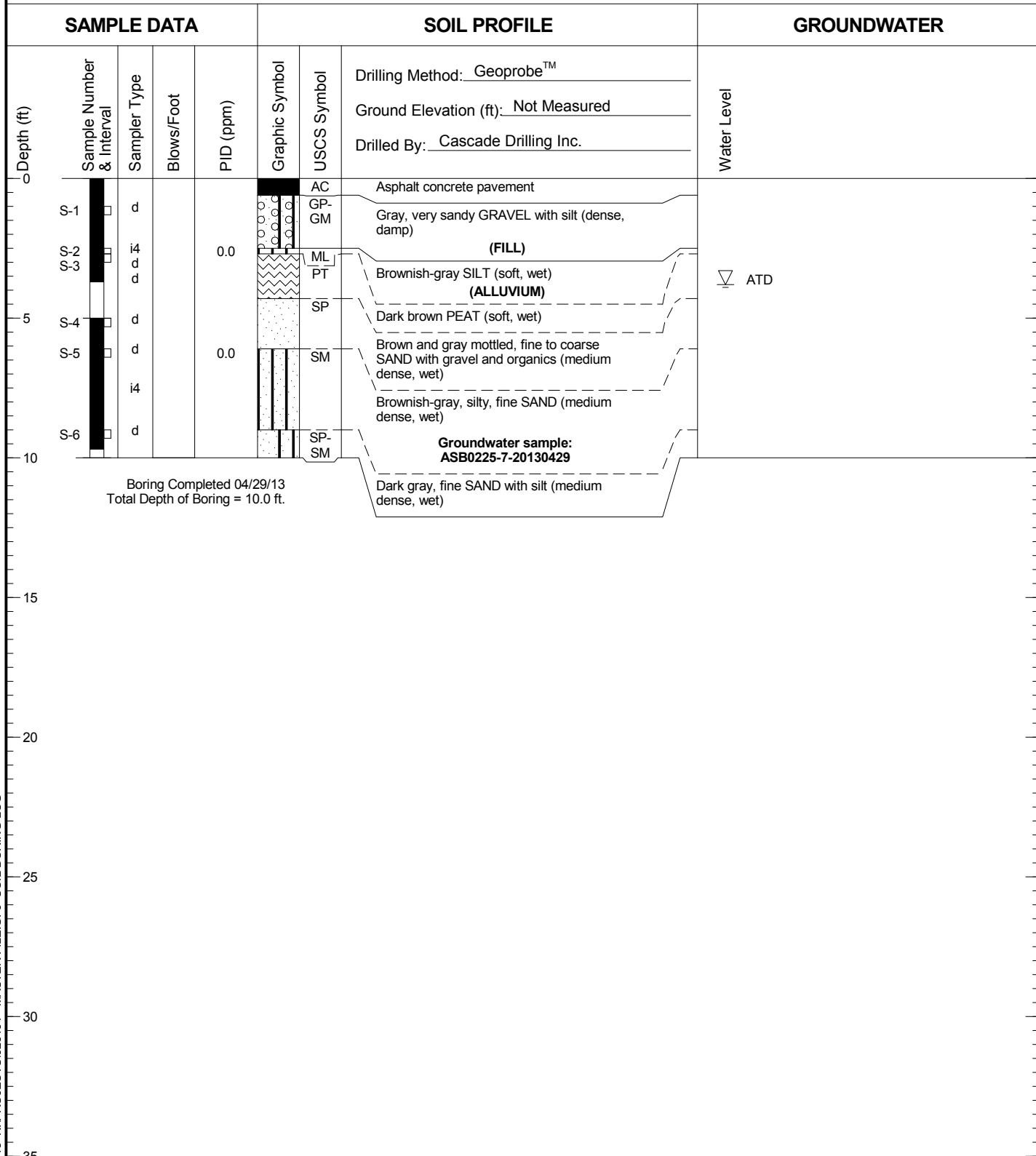
Boring Completed 04/29/13  
Total Depth of Boring = 10.0 ft.

Water Level  
ATD

- 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.
  4. Work plan designation P-25.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

# ASB0225



- 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.
  4. Work plan designation P-4.

025164\_57713 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0225

Figure  
**A-46**

# ASB0226

SAMPLE DATA		SOIL PROFILE				GROUNDWATER				
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u>	Ground Elevation (ft): <u>Not Measured</u>	Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0	S-1	d		0.1	[Symbol]	GP-GM	Brownish-gray, very gravelly, fine to coarse SAND with silt (medium dense, moist)			
		i4					See log for AGW227 for lithology due to poor recovery			
5		i4								▽ ATD
10							Groundwater sample: ASB0226-9-20130429			
Boring Completed 04/29/13 Total Depth of Boring = 10.0 ft.										
15										
20										
25										
30										
35										

- 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.
  4. Work plan designation P-2.

025164. 5/7/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

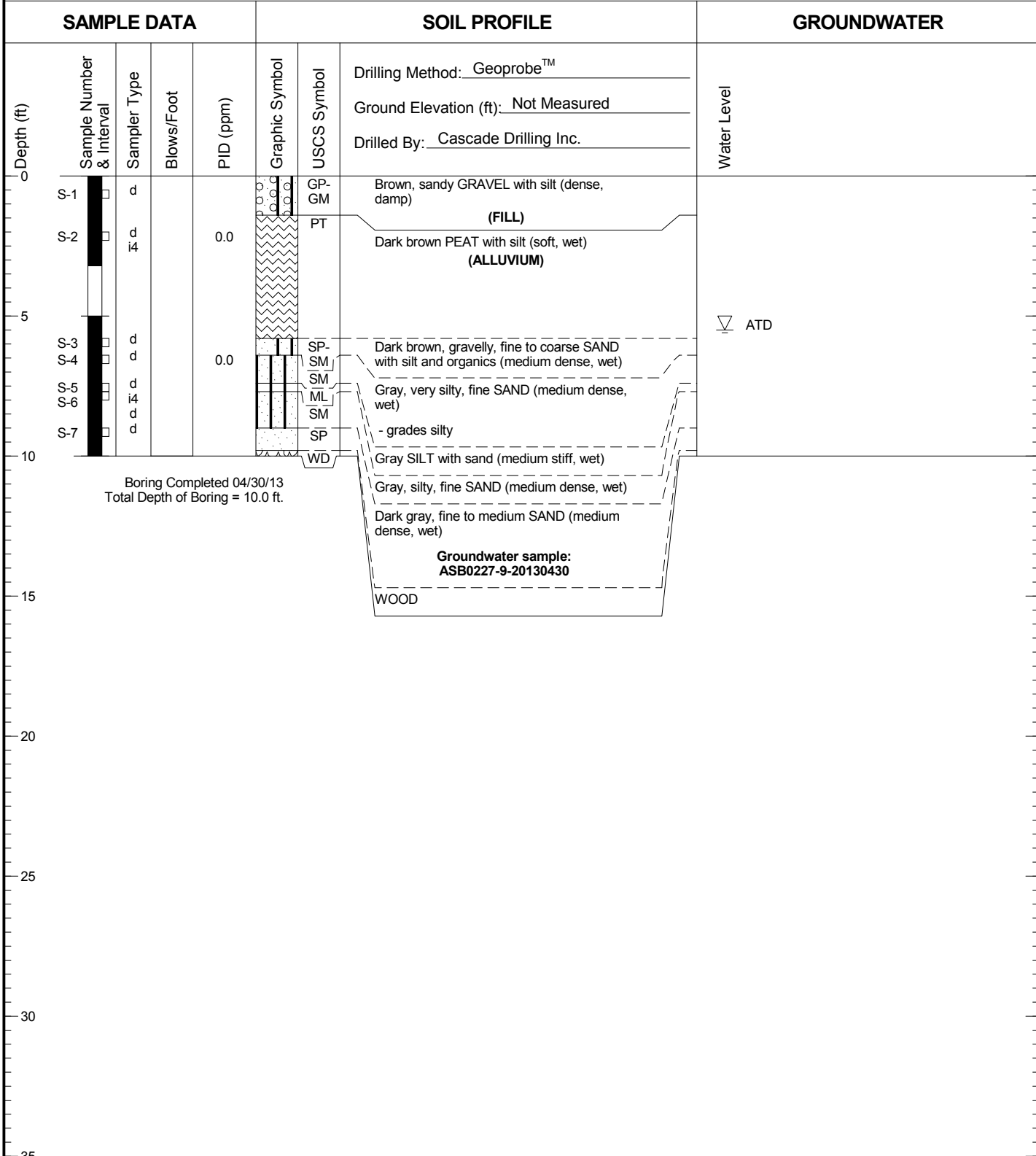


Boeing Auburn  
Auburn, Washington

Log of Boring ASB0226

Figure  
**A-47**

# ASB0227



Boring Completed 04/30/13  
Total Depth of Boring = 10.0 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.
  4. Work plan designation P-35.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

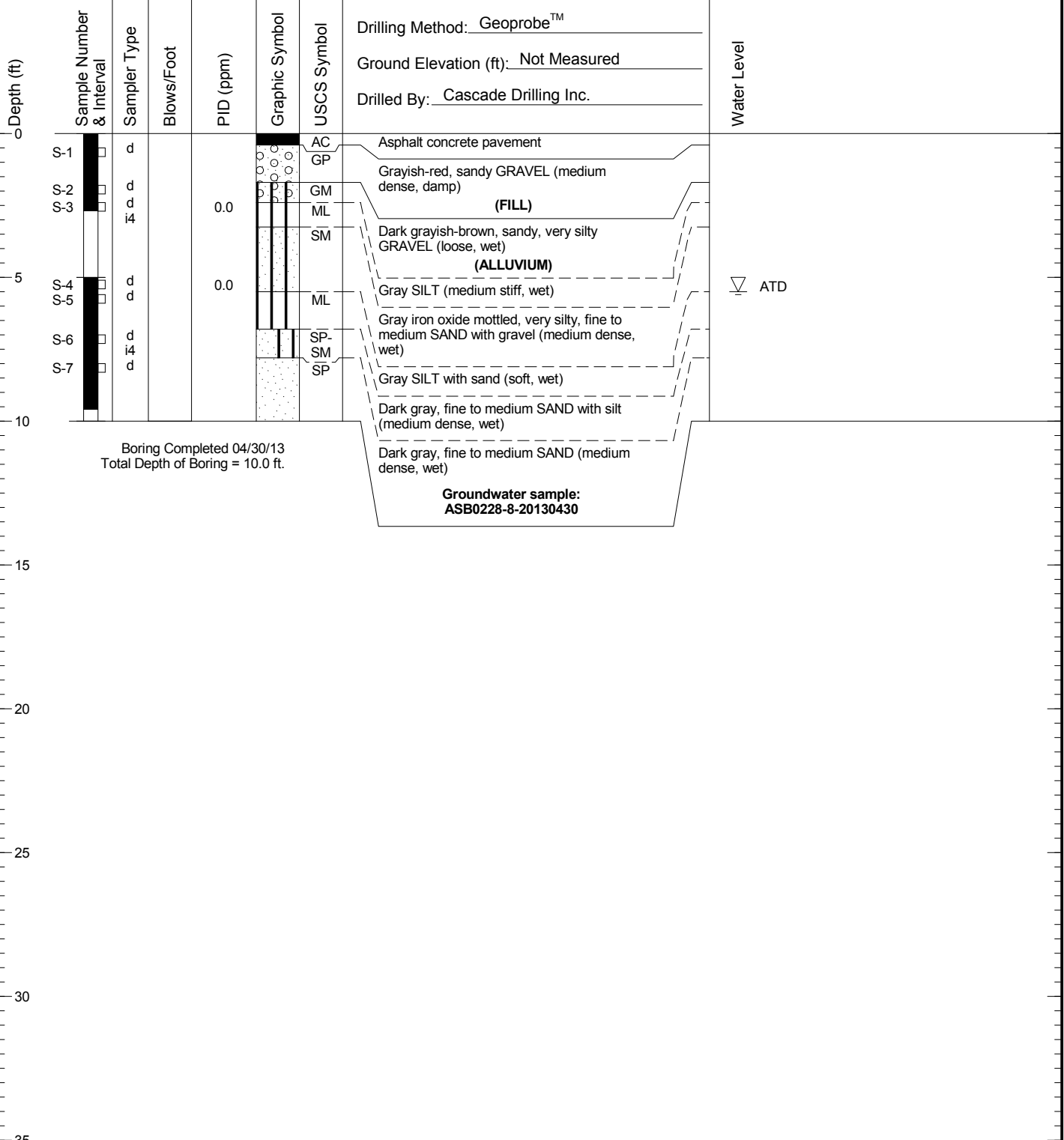


# ASB0228

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/30/13  
Total Depth of Boring = 10.0 ft.

Groundwater sample:  
ASB0228-8-20130430

- 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.
  4. Work plan designation P-36.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn  
Auburn, Washington

Log of Boring ASB0228

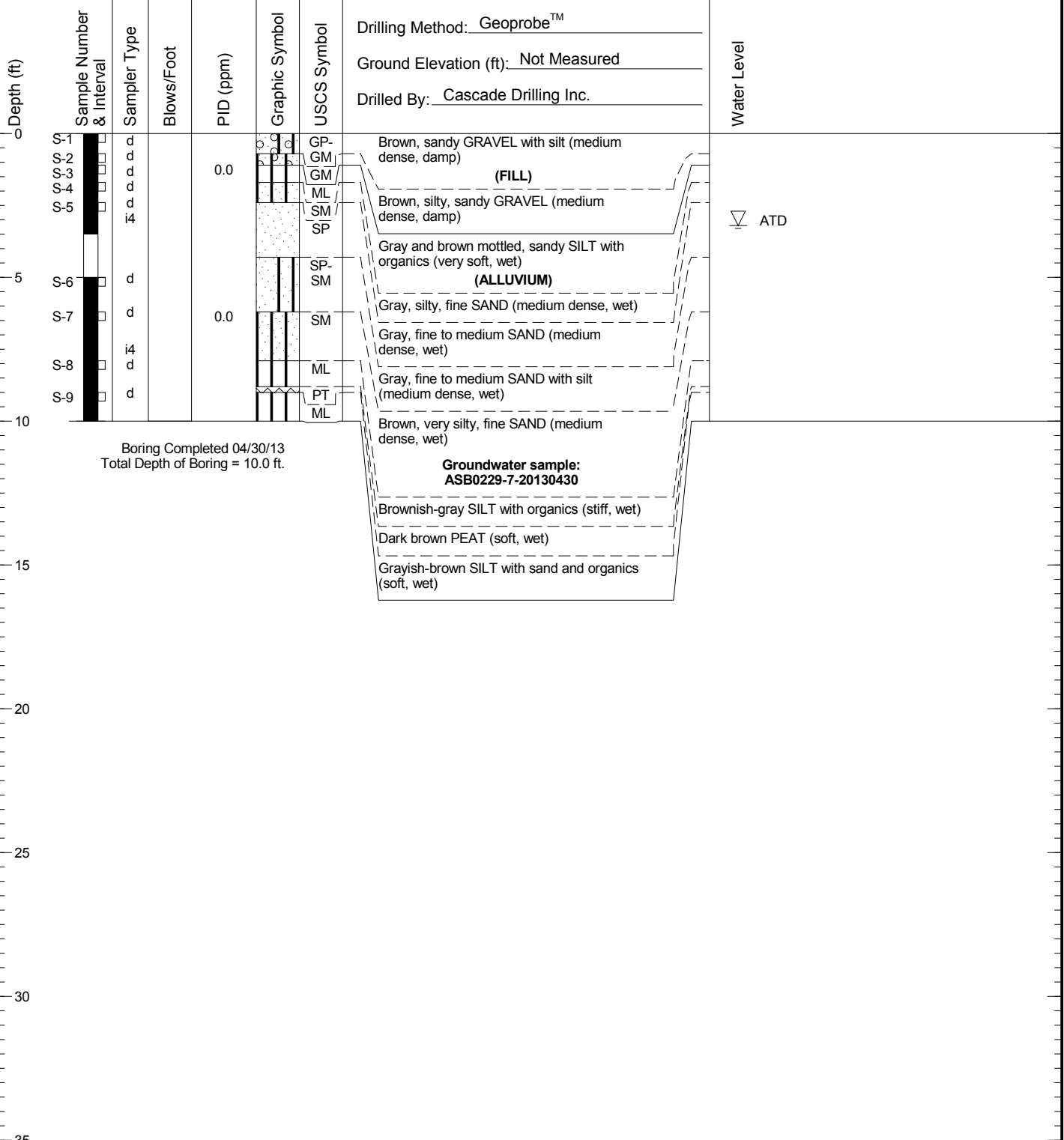
Figure  
**A-49**

# ASB0229

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 04/30/13  
Total Depth of Boring = 10.0 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.
  4. Work plan designation P-44.

025164\_57/13 N:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG