



Observation and Monitoring Well Installation Review Wastewater Treatment Facility At Stonewater Creek Fairmount, Sussex County, Delaware Project No.: 5708.YD	Date Started : June 30, 2005	Drilling Equipment : ATV-mounted CME-55
	Date Completed : June 30, 2005	Drilling Methods : 4.25" H.S.A.
	Logged by : JPC	Surface Elevation : 23.4 feet
	Weather : Foggy to Sunny	Northing : 238,432 U.S. Feet DE SPC NAD 83
	Driller/Agency : J. Foley/Walton Corporation	Easting : 713,866 U.S. Feet DE SPC NAD 83

Depth in feet	Surf. Elev. 23.4 ft	GRAPHIC	USCS	USDA	Sample Condition	Water Levels	SAMPLES	Sample Number	Blows per 6 inches	Recovery (ft)	Well Construction Details	WATER LEVEL	Observation Well 209181 Top of Well Elev PVC = 25.69
					<input checked="" type="checkbox"/> Remolded	▼ During Drilling ▼ 7/7/2005							
0													
2								1	3-3-4-3	2.0	Bentonite Plug - 3/8" granular bentonite		
20.1								1B	3-3-4-5	1.7			
4	19.4		SM	LS				2	3-3-4-5	1.7	2" Schedule 40 PVC Well Casing		
6			SP-SM	LS/S				3	6-7-5-7	1.8	Sand Pack - #2 well sand		17.4
8	15.4							4	2-3-3-3	1.6	Top of Screen		15.6
10			SM	LS									
11.9													
12			SW-SM	S				5A	4-5-6-8	1.6			
14	9.2		SP-SM	S				5B			2" Schedule 40 PVC Screened Casing - 0.020" slot		
16													

- NOTES:
- Observation Well OW-3 (DNREC ID 209181) installed upon completion.
 - Wet-on-spoon encountered at 8.3 feet +/-; water level observed at 9.0 feet +/-; bottom of augers at 8.0 feet +/- b.e.g.s.
 - EZ Mud used to wash out soils from the augers for samples 6 through 7.
 - Auger boring performed in general accordance with ASTM D 1452.
 - Sampling performed in general accordance with the Method for Penetrative Test and Split-Barrel Sampling (ASTM D 1586).
 - Soil descriptions performed in general accordance with ASTM D 2488, the Practice for Description and Identification of Soils (Visual-Manual Procedure).
 - Grain size scale utilized for soil descriptions based on a hybrid of the Udden-Wentworth Scale described in Delaware Geological Survey Open File Report 34 "Methodology for Mapping Groundwater Recharge in Delaware's Coastal Plain."



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DESCRIPTION													
16	7.4		SP-SM	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		6	4-6-7-7	1.5			
White, light gray coarse to very coarse SAND and GRANULES, little pebbles, trace medium sand, trace silt, trace silty clay balls (moderately sorted) (saturated).													
22	1.9		SP-SM	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		7	3-3-5-4	1.3		Bottom of Screen	1.0 0.6 0.4
Faint greenish white medium to coarse SAND, trace to little silt (saturated).													
26	-1.6												Bottom of Borehole - approx. 8" diameter terminated at 25 feet below existing ground surface.

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