

**Date Start/Finish:** 5/18/2010 to 5/19/2010  
**Drilling Company:** Boart Longyear  
**Driller's Name:** Rodney (Bear) Parr  
**Drilling Method:** Rotosonic  
**Sampling Method:** 10 ft by 4 in (ID) Core Barrel  
**Rig Type:** Track-mounted Rotosonic

**Northing:** 215363.58  
**Easting:** 690697.47  
**Casing Elevation:** 22.66 ft msl  
**Borehole Depth:** 227 ft bgs  
**Surface Elevation:** 22.99 ft msl  
**Descriptions By:** David Heuer

**Well/Boring ID:** MW-16D  
**Client:** Public Well TCE Site  
**Location:** WB Atkins Memorial Park, Millsboro, DE

**DRAFT**

DEPTH	ELEVATION	PID (ppm)	Recovery (feet)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0					Hand clear to 10 ft bgs - Silty VF SAND	
5		0 - 7 ft	100			
10					Light tan-orange Silty (15 to 30%) VF SAND, trace Clay, slightly cohesive, Silt seem (3" thick) at 13 ft bgs	
15		7 - 17 ft	100			
20					Light tan-orange Silty VF SAND	
25		17 - 27 ft	100		Light tan-orange Silty VF-F SAND, loose	
30					Light tan-orange Silty VF-C SAND, trace F-M Gravel	
35		27 - 37 ft	100			
					Tan-orange Silty VF-M SAND, some to little C Sand, little F-M Gravel, subrounded	



**Remarks:** Water levels measured on 5/21/10: MW-16S - 14.85 ft bgs; MW-16D - 9.25 ft bgs.

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0						
40		37 - 47 ft	100			
45						
50						
55		47 - 57 ft	100		Orange Silty VF-C SAND, some to little F-M Gravel, subrounded	
60						
65		57 - 67 ft	100		Tan-orange Silty VF-M SAND, little C Sand and F-M Gravel, subrounded	
70						
75		67 - 77 ft	100		Tan-orange Silty (10 to 20%) VF-F SAND, grading to a orange Silty VF SAND with trace F Sand	

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-55					Orange Silty VF-F SAND, little M-C Sand and F-C Gravel	
-80		77 - 87 ft	100			
-60						
-85						
-65						
-90		87 - 97 ft	100		Brown Silty VF-C SAND, subrounded Gravel at 93 ft bgs	
-70						
-95					Gray VF-F SAND and SILT, wet, semi-loose	
					Gray Clayey SILT, trace VF Sand, wet, semi-stiff	
-75					Dark gray VF SAND and SILT, trace Clay, semi-stiff, wet	
-100						
-80		97 - 107 ft	100			
-105					Gray CLAY and SILT, very stiff, medium moist	
-85					Gray VF Sandy (20 to 30%) SILT, little to trace Clay, cohesive, semi-stiff, highly moist	
-110					Black-dark gray Clayey SILT with white shells	
					Gray VF Sandy SILT, little to trace Clay, cohesive, semi-stiff	
-90		107 - 117 ft	100		Gray CLAY and SILT, very stiff, medium moist	

MW-16S well screen 82 to 92 ft bgs. Well installed next to MW-16D by mud rotary method.



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-115					Gray Silty (25 to 35%) VF SAND, semi-loose, wet	
-95					Gray SILT and VF SAND, semi-loose, wet	
-120					Gray Clayey SILT, VF Sand laminations and lignite laminations	
-100		117 - 127 ft	100		Gray Silty VF SAND, loose, wet	
-125					Gray Clayey SILT, VF Sand laminations and lignite laminations	
-105					Gray VF SAND, trace to no silt, loose, wet	
-130						
-110		127 - 137 ft	100			
-135						
-115						
-140						
-120		137 - 147 ft	100		Gray CLAY and SILT, very stiff, low to medium moist	
-145					Gray VF SAND, trace to no silt, loose, wet	
					Gray CLAY and SILT, very stiff, low to medium moist	
-125					Gray VF SAND, trace to no silt, loose, wet	
-150						

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-130		147 - 157 ft	100	[Dotted pattern]		[Hatched pattern]
155						
-135						
160		157 - 167 ft	100	[Dotted pattern]	Gray Silty (10 to 20%) VF SAND with some silt seems	[Hatched pattern]
-140						
165		167 - 177 ft	100	[Dotted pattern]	Light gray VF SAND, trace to no silt, silt seems (2" thick) at 177 ft bgs and 182 ft bgs	[Hatched pattern]
-145						
170						
-150		177 - 187 ft	100	[Dotted pattern]		[Hatched pattern]
175						
-155						
180				[Dotted pattern]		[Hatched pattern]
-160						
185				[Dotted pattern]		[Hatched pattern]
-165						

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190						
-170		187 - 197 ft	100			
195						
-175						
200						
-180		197 - 207 ft	100			
205						
-185						
210						
-190		207 - 217 ft	100			
215						
-195						
220						
-200		217 - 227 ft	100			
225						



MW-16D well screen 208 to 218 ft bgs.



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