

**Date Start/Finish:** 5/7/2010 to 5/9/2010  
**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:** 216072.33  
**Easting:** 689981.27  
**Casing Elevation:** 22.84 ft msl  
**Borehole Depth:** 227 ft bgs  
**Surface Elevation:** 23.10 ft msl  
**Descriptions By:** David Heuer

**Well/Boring ID:** MW-11D  
**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					Dark brown Silty VF SAND	
					Light brown Silty VF SAND	
20		0 - 7 ft	100		Tan Silty VF-F SAND, trace to little Clay, trace C Sand, cohesive	
5					Tan Silty VF SAND, semi-loose	
15					Light orange-tan VF-M SAND, little Silt and C Sand	
10		7 - 17 ft	100		Light greenish gray VF-F SAND, little Silt, trace C Sand and F Gravel	
15					Light greenish gray-orange Silty VF SAND, semi-loose	
20		17 - 27 ft	100		Tan-orange VF Sandy SILT, little Clay, semi-stiff and cohesive	
25					Light greenish gray VF-M SAND, little Silt, trace C Sand, loose	
					Light gray-tan-orange VF-C SAND, little Silt and F Gravel, subrounded	
30					Orange VF-C SAND, little Silt and Gravel, subrounded	
		27 - 37 ft	100		Light gray-tan-orange VF-F SAND, little Silt and M-C Sand	
35					Light gray-tan-orange VF-M SAND, little Silt, C SAND, and F-M Gravel, subrounded,	

**Remarks:** Water levels measured on 5/21/10: MW-11S - 14.70 ft bgs; MW-11M - 9.45 ft bgs; MW-11D - 8.40 ft bgs.



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-15					loose	
-40		37 - 47 ft	100			
-20						
-45						
-25					Tan VF-M SAND, little C Sand and F Gravel	
-50		47 - 57 ft	100		Orange VF-M SAND, little C Sand and F Gravel. Grades to VF-F SAND, trace M-C Sand and F Gravel at 52 ft bgs.	
-30						
-55						
-35					Tan-light orange VF-F SAND, little Silt, trace F Gravel	
-60						
-40		57 - 67 ft	100		Tan-light orange VF SAND, little Silt and F Sand, trace F Gravel, rounded	
-65						
-45					Orange Silty VF-F SAND, little M-C Sand and F Gravel, subrounded, loose	
-70					Orange VF-F SAND, little Silt, trace M-C Sand and F Gravel, loose	
-50		67 - 77 ft	100			
-75						

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-55					Orange (tannish near top) VF-F SAND, trace Silt, M-C Sand and F Gravel	
-80						
-60		77 - 87 ft	100			
-85						
-65					Orange VF-F SAND, little Silt, trace M-C Sand	
-90						
-70		87 - 97 ft	100		Gray Silty VF-C SAND, little F Gravel, rounded	
-95					Gray Silty (30 to 40%) VF SAND, trace M-C Sand and F Gravel	
-75					Gray (slightly purple) VF SAND and SILT, Clayey, cohesive, semi-stiff, wet, wood fragments present	
-100					Dark gray Silty (30 to 40%) VF SAND, wet	
-80		97 - 107 ft	100		Dark gray VF Sandy SILT, trace F Gravel, Clayey, semi-stiff and cohesive, wet	
-105					Dark gray Clayey SILT, very stiff, highly moist	
-85					Dark gray VF SAND and SILT, slightly stiff and cohesive, wet	
-110					Gray-black SILT and CLAY with white shells present, very stiff, low moisture	
-90		107 - 117 ft	100		Dark gray Clayey SILT, stiff, low moisture	

MW-11S well screen 80 to 90 ft bgs. Well installed next to MW-11D by mud rotary method.

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-115					Dark gray VF SAND and SILT, slightly cohesive, wet	
-95						
-120		117 - 127 ft	100		Gray Clayey SILT, stiff, low moisture	
-100					Gray Silty (25 to 35%) VF SAND, loose, wet	
-125						
-105					Light gray-brown Clay and SILT, very stiff, low moisture	
-130		127 - 137 ft	100		Gray VF Sandy (25 to 35%) SILT, trace Clayey Silt lenses, wet, semi-stiff	
-110						
-135					Gray Silty (25 to 35%) VF SAND, loose, wet	
-115						
-140		137 - 147 ft	100		Gray Clayey SILT, stiff, low moisture	
-120						
-145					Gray Silty VF SAND, loose to semi-loose, wet	
-125					Dark gray SILT and CLAY with lignite and wood fragments, very stiff	
-150						

MW-11M well screen 122 to 127 ft bgs. Well installed next to MW-11D by mud rotary method.

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-130		147 - 157 ft	100		Gray Silty VF SAND, wet loose	
-135					Gray-light gray Silty VF SAND. Less silt with depth.	
-140		157 - 167 ft	100			
-145					Gray-light gray VF SAND, trace Silt	
-150		167 - 177 ft	100			
-155					Gray-light gray VF SAND, trace Silt, silt seems at 182 ft and 187 ft	
-160		177 - 187 ft	100			
-165					Light gray VF SAND, wet, loose	

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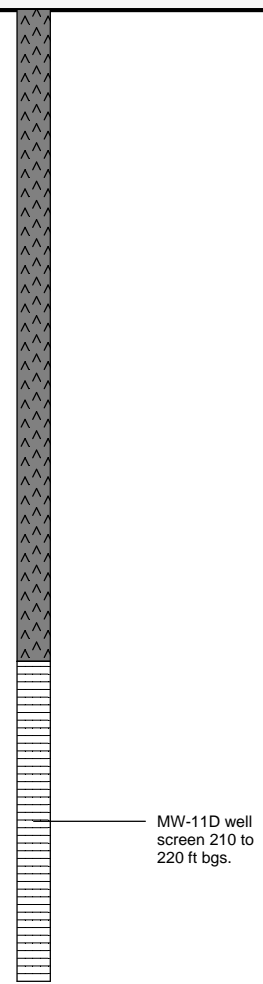


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190						
-170		187 - 197 ft	100			
195						
-175						
200						
-180		197 - 207 ft	100			
205						
-185						
210						
-190		207 - 217 ft	100			
215						
-195						
220						
-200		217 - 227 ft	100			
225						



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