

**ATTACHMENT 9**  
**SOIL BORING LOGS (GEOTECHNICAL/ENVIRONMENTAL)**

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 1/25/06		Date Finished 1/25/06
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 8 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 2	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First ∇ 2	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman George Demetriou		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/in	
		Asphalt		0					Begin at 14:35  Groundwater encountered at 2 feet
		Tan GRAVEL, trace sand (FILL) (dry)		0					
		Black fine to coarse SAND, some gravel, ash (FILL) (moist)		1					
		Brown CLAY (wet)		2	1	PUSH	32		
				3					
		Brown CLAY (wet)		4					
		Brown and gray fine to coarse SAND, trace gravel (wet)		5					
				6	2	PUSH	40		
				7					
				8					
				9					
				10					
				11					
				12					
									Auger refusal at 8 feet and install PZ-4 well

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/20/05		Date Finished 7/20/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 24 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 6		Disturbed NA
Casing Diameter (in) NA			Casing Depth (ft) NA		Core NA
Casing Hammer NA			Weight (lbs) NA		Drop (in) NA
Sampler 2-inch diameter / 4-foot macro core			Drilling Foreman Brian Moriarty		
Sampler Hammer NA			Weight (lbs) NA		Drop (in) NA
			Inspecting Engineer Randy Copenhaver		

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. Bl/In	Env ID	
		Brown sandy CLAY, some gravel (FILL) (moist)		0					236	Start 14:40
		Black fine-to-coarse SAND, some gravel, slag, ash (FILL) (dry)		0						
		White clayey fine-to-coarse SAND, trace gravel, magnesia material (FILL)		0						
		Brown fine-to-coarse SAND, some silt and clay, trace gravel (FILL) (dry)		0	1	PUSH	37			
		Orange-brown CLAY, trace sand (FILL) (moist)		0					237	
		White CLAY, trace sand and gravel, magnesia material, slag (FILL) (wet)		0						
		White, brown and black fine-to-coarse SAND, some clay and gravel, magnesia material, ash, slag (FILL) (moist)		0	2	PUSH	29			
		White, brown and black fine-to-coarse SAND, some clay and gravel, magnesia material, fibrous material, ash, slag (FILL) (moist)		0					238	
		White sandy CLAY, trace gravel, magnesia material (FILL) (wet)		0						
				0	3	PUSH	18			

Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
		White and light tan sandy CLAY, trace gravel, magnesia material (FILL) (wet)	0	12					
			0						
			0	13					
			0						
			0	14	4	PUSH	40		
			0						
			Brown gravelly fine-to-coarse SAND (FILL) (wet)	0	15				
			0						
			White and light tan sandy CLAY, magnesia material, trace gravel (FILL) (wet)	0	16				
			0						
		Gray fibrous material (FILL) (wet)	0	16				239	
		0							
		Dark greenish gray and black mottled CLAY (moist)	0	17					
		0							
		0	18	5	PUSH	22			
		0							
		0	19						
		0							
		Dark greenish gray and black mottled CLAY (wet)	0	20					
		0							
		Dark gray CLAY (wet)	0	20					
		0							
		0	21						
		0							
		Orange-brown fine-to-coarse SAND (wet)	0	22	6	PUSH	37		
		0							
		0	22						
		0							
		Red-brown fine-to-coarse SAND (wet)	0	23					
		0							
		0	23						
		0							
		0	24						
		0							
		0	24					End 15:20	
		0						Terminate boring at 24 feet	
		0	25						
		0							
		0	26						
		0							
		0	27						

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)				Completion Depth 9 ft		Rock Depth 9 ft	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in		Env ID
		Dark brown CLAY (TOPSOIL) (moist)	0	0					218	Start 11:45           Stop 11:55 Refusal at 9 feet  Terminate boring at 9 feet
		Orange-brown CLAY (moist)	0	1						
			0	2	1	PUSH	35			
			0	3						
			0	4					219	
			0	5						
			0	6	2	PUSH	47			
			0	7						
			0	8						
			0	9	3	PUSH	10			
			0	10						
			0	11						
			0	12						

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 6.5 ft		Rock Depth 6.5 ft
Size and Type of Bit NA			Number of Samples 2	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ NE	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/oin	
	0	Dark brown CLAY (TOPSOIL) (moist)		0				216	Start 11:30
	0	Orange-brown CLAY (dry to moist)		0					
	0			1					
	0			0	1	PUSH	48		
	0			0					
	0			0	2				
	0			0					
	0			0	3				
	0			0					
	0			0	4			217	
	0	Orange-brown CLAY (dry)		0					
	0	Orange-brown CLAY, trace sand (dry)		0					
	0			0					
	0			0	5				
	0	Gray fine-to-coarse SAND, some gravel, sandstone fragments (dry)		0					
	0			0	2	PUSH	30		
				0					End 11:35 Refusal at 6.5 feet
				0	6				
				0					Terminate boring at 6.5 feet
				0	7				
				0					
				0	8				
				0					
				0	9				
				0					
				0	10				
				0					
				0	11				
				0					
				0	12				



Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)				Completion Depth 7.5 ft		Rock Depth 7.5 ft	
Size and Type of Bit NA				Number of Samples 2		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty			
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/ft	
	0	Dark brown CLAY (TOPSOIL) (moist)	0	0					Start 11:20
	0	Orange-brown CLAY (dry to moist)	0	1					
	0		0	2	1	PUSH	48		
	0		0	3					
	0		0	4					
	0	Brown CLAY (moist to dry)	0	4				215	
	0		0	5					
	0		0	6	2	PUSH	42		
	0		0	7					Stop 11:25 Refusal at 7.5 feet
	0	Brown CLAY, some sand (dry)	0	7					
	0	Gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	7					
				8					Terminate boring at 7.5 feet
				9					
				10					
				11					
				12					

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)				Completion Depth 8 ft		Rock Depth 8 ft	
Size and Type of Bit NA				Number of Samples 2		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist BU/in		Env ID
		Dark brown CLAY (TOPSOIL) (moist)		0					212	Start 11:10
		Brown CLAY, trace sand (moist)		0						
		Brown sandy CLAY (moist)		1						
		Brown fine-to-coarse SAND, trace clay and gravel (dry)		2	1	PUSH	48			
		Red-brown CLAY, trace sand and gravel (moist)		4					214	
				5						
				6	2	PUSH	44			
		Red-brown clayey fine-to-coarse SAND, some gravel, sandstone fragments (dry)		7						
				8						
				9						
				10						
				11						
				12						Stop 11:15 Refusal at 8 feet
										Terminate boring at 8 feet





Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/18/05		Date Finished 7/18/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 3.5 ft		Rock Depth 3.5 ft
Size and Type of Bit NA			Number of Samples 1	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ NE	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist	BU/in	
		Dark brown CLAY, trace sand (TOPSOIL) (moist)	0	0					176	Start 13:30
		Brown CLAY (moist)	0							
		Orange-brown CLAY, trace sand (moist)	0	1						
		Brown-gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	2	1	PUSH			177	
			0	3						Stop 13:35 Refusal at 3.5 feet
				4						Terminate boring at 3.5 feet
				5						
				6						
				7						
				8						
				9						
				10						
				11						
				12						

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/18/05		Date Finished 7/18/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 6.5 ft		Rock Depth 6.5 ft	
Size and Type of Bit NA				Number of Samples Disturbed 2		Undisturbed NA	
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Frank Fendler	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
		Brown CLAY, trace sand (FILL) (moist)	0	0					Start 12:30
		Black GRAVEL, slag (FILL) (dry)	0					170	
		Brown fine-to-coarse SAND, trace gravel (dry)	0	1					
		Brown CLAY (moist)	0						
		Red-brown CLAY (moist)	0					171	
		Brown CLAY, some fine sand (moist)	0	2	1	PUSH	37		
		Red-brown CLAY, some sand (moist)	0						
			0	3					
			0	4					
			0	5					
		Red-gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	6	2	PUSH	26		Stop 12:40 Refusal at 6.5 feet
			0	7					Terminate boring at 6.5 feet
				8					
				9					
				10					
				11					
				12					



Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/18/05		Date Finished 7/18/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 7 ft		Rock Depth 7 ft	
Size and Type of Bit NA				Number of Samples Disturbed 2		Undisturbed NA	Core NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler			
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/in	
	0	Dark brown and black fine-to-coarse SAND, some clay and gravel, ash, slag (FILL) (dry)	0	0					Start 12:45
	0	Orange-brown CLAY (moist)	0	1					
	0	Orange-brown sandy CLAY (moist)	0	2	1	PUSH	47	173	
	0	Brown-gray fine-to-coarse SAND, trace clay and gravel (dry)	0	3					
	0	Red-brown CLAY, some sand (dry)	0	4					Stop 12:50 Refusal at 7 feet
	0	Red-gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	5	2	PUSH	36		
	0		0	6					Terminate boring at 7 feet
	0		0	7					
				8					
				9					
				10					
				11					
				12					



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/18/05		Date Finished 7/18/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 5 ft		Rock Depth 5 ft
Size and Type of Bit NA			Number of Samples 2		Disturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ NE		Undisturbed NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Env ID	
	0	Brown CLAY, trace fine sand (dry)	0	0	1	PUSH	45	174	Start 13:00
	0	Orange-brown CLAY (dry)	0	1				175	
	0	Gray fine-to-coarse SAND (dry)	0	2					
	0	Gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	3					
	0		0	4	2	PUSH	23		Stop 13:10 Refusal at 5 feet
	0		0	5					
				6					Terminate boring at 5 feet
				7					
				8					
				9					
				10					
				11					
				12					

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/18/05		Date Finished 7/18/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 10.5 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 3	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) NE	First NE	Completion NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist Bl/Min	Env ID	
[Cross-hatch pattern]	0	Brown sandy CLAY, roots (FILL) (moist)		0					178	Start 13:50
	0	Gray GRAVEL (FILL) (dry)								
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)								
[Diagonal lines /]	0	Brown CLAY (dry)		1	PUSH	42				
	0	Orange-brown CLAY (dry)								
[Diagonal lines \]	0			3				180		
	0	Brown-gray fine-to-coarse SAND, trace silt and clay (dry)								
[Dotted pattern]	0	Brown and dark brown CLAY, trace sand (dry)		5						
	0	Red-brown CLAY, some sand (dry)		6	PUSH	35				
[Diagonal lines /]	0			7						
	0			8						
	0			9	PUSH	30				
	0			10					Stop 14:00	
	0			11					Terminate boring at 10.5 feet	
	0			12						



Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/18/05		Date Finished 7/18/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 6 ft		Rock Depth 6 ft	
Size and Type of Bit NA				Number of Samples Disturbed 2		Undisturbed NA	Core NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Frank Fendler	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
		Brown CLAY, roots (FILL) (moist)	0	0					Start 12:10
		Black sandy GRAVEL, ash, slag (FILL) (dry)	0	1				167	
		Orange-brown CLAY (dry)	0	2	1	PUSH	33		168
			0	3					
			0	4					
		Brown fine-to-coarse SAND, some clay (dry)	0	5	2	PUSH	24		Stop 12:20 Refusal at 6 feet
		Brown-gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	6					
				7					Terminate boring at 6 feet
				8					
				9					
				10					
				11					
				12					

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 6.5 ft		Rock Depth 6.5 ft
Size and Type of Bit NA			Number of Samples 2	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ NE	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BU/ft	
		Dark brown CLAY (TOPSOIL) (moist)	0	0				234	Start 13:55
		Brown CLAY (dry)	0	1					
		Brown fine-to-coarse SAND, some clay (dry)	0	2	1	PUSH	48		
		Gray-brown fine-to-coarse SAND (dry)	0	3					Stop 14:00 Refusal at 6.5 feet
			0	4				235	
			0	5	2	PUSH	30		
		Gray and orange-brown fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	6					
				7					Terminate boring at 6.5 feet
				8					
				9					
				10					
				11					
				12					



Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/18/05		Date Finished 7/18/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 6 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 2		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Frank Fendler	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist Bl/ft		Env ID
[Concrete Symbol]	0	Brown SILT, some sand, trace gravel and clay, roots (FILL) (moist)	0	0	1	PUSH	39		164	Start 11:45
	0	Concrete							165	
[Sand Symbol]	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	1	2	PUSH	20		166	Stop 12:00 Refusal at 6 feet
	0	Brown CLAY, trace sand and gravel (dry)								
[Sand Symbol]	0	Reddish gray fine-to-coarse SAND, (dry)	0	5						Terminate boring at 6 feet
	0			6						
				7						
				8						
				9						
				10						
				11						
				12						



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/18/05		Date Finished 7/18/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 7 ft		Rock Depth 7 ft
Size and Type of Bit NA			Number of Samples 2	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) NE	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BU/in	
	0	Broken concrete and brown clay (FILL) (dry)	0	0				161	Start 10:55
	0	Brown SILT, trace clay (FILL) (dry)	0	1					
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	2	1	PUSH	39	162	
	0	Brown CLAY, some sand (dry)	0	3					
	0		0	4				163	Stop 11:05 Refusal at 7 feet
	0	Gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	6	2	PUSH	24		
	0		0	7					Terminate boring at 7 feet
	0		0	8					
	0		0	9					
	0		0	10					
	0		0	11					

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/18/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 12 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ 12		Completion $\nabla$ 7.2	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/ft	
	0	Black fine-to-coarse SAND, some gravel, ash (FILL) (dry)	0	0				157	Start 10:10
	1	Light tan and gray gravelly fine-to-coarse SAND (FILL) (dry)	0	1					
	2	Black gravelly fine-to-coarse SAND, ash, slag (FILL) (dry)	0	2	1	PUSH	33	158	
	3		0	3					
	4		0	4					
	5	Orange-brown fine-to-coarse SAND, some gravel and clay (FILL) (dry)	0	5				159	
	6	Orange-brown CLAY (moist)	0	6	2	PUSH	19		
	7		0	7					
	8		0	8					
	9	Red-brown CLAY, trace fine sand and gravel (moist)	0	9				160	
	10		0	10	3	PUSH	41		
	11	Reddish gray fine-to-coarse SAND, some clay (moist)	0	11					
	12		0	12					Stop 10:30 Terminate boring at 12 feet

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 14.5 ft		Rock Depth 14.5 ft
Size and Type of Bit NA			Number of Samples 4	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA	Casing Depth (ft) NA		Water Level (ft.) 7.3	First 7.3	Completion NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist Bl/Min	
	0	Asphalt		0					Start 8:55
	0	Tan GRAVEL, trace sand (FILL) (dry)		0				205	
	1781			1					
	2000	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)		2	1	PUSH	40	206	
	1684			3					
	2000	Brown CLAY (moist)		4					
	2000			5				003	
	2000	Brown mottled gray CLAY (moist)		6	2	PUSH	40		
	1910			7					
	1113			8					
	2000	Red-brown CLAY, trace sand (moist)		9					
	1792			10	3	PUSH	46		
	592			11					
	91.2	Red-brown CLAY, some sand, trace gravel (moist)		12					
	2000								
	168								
	122								
	484								
	249								
	262								
	48.2								



Project		Project No.								
Westrum Development Company		3611302								
Location		Elevation and Datum								
Former Nicolet Industries Site: Ambler, PA		NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/ft	Env ID	
		Red-brown CLAY, some sand, trace gravel (wet)	315	12	4	PUSH	28			
		Red-brown CLAY, some sand (wet)	798	13						
			2000							
			168	14					004	End 9:15 Refusal at 14.5 feet
			40.8	14.5						Terminate boring at 14.5 feet
				15						Set temporary PVC well point
				16						
				17						
				18						
				19						
				20						
				21						
				22						
				23						
				24						
				25						
				26						
				27						

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 1/25/06		Date Finished 1/25/06
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 12 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples Disturbed 3		Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First 3		Completion NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman George Demetriou	
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA		

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (ft)	Penetr. resist BU/in		Env ID
		Asphalt		0						
		Tan GRAVEL, some sand (FILL) (dry)		0						Begin at 13:40
		Brown fine to coarse SAND, some gravel (FILL) (moist)		0						
		Black fine to coarse SAND, some gravel ash (FILL) (moist)		0						
				17.7	1	PUSH	36			Slight odor detected at 2 to 4 feet
		Brown CLAY (moist)		59.2						Groundwater encountered at 3 feet
				110						
		Brown CLAY (moist)		0						
				0						
				340						
				2000						
		Gray and brown CLAY (wet)		2000	2	PUSH	34			
				1888						
				1088						
				2000						
		Gray and brown CLAY (wet)		2000	8					
				287						
				567						
		Red-brown CLAY, trace sand and gravel (wet)		1748	9					
				534						
				105	3	PUSH	33			
				164						
				410						
				14.0						End boring at 13:55

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/20/05		Date Finished 7/20/05
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 11 ft		Rock Depth 11 ft
Size and Type of Bit NA			Number of Samples 3	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ 7	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BUBin	Env ID	
	0	Tan GRAVEL, some sand (FILL) (dry)	0	0					209	Start 10:00
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (moist to wet)	0	1					210	
	0	Light tan GRAVEL, concrete pieces (FILL) (dry)	0	2	1	PUSH	37			
	0	Brown CLAY (moist)	0	3						
	23.8		0	3					211	
	0	Gray sandy CLAY (moist)	107	4						
	0	Gray fine-to-coarse SAND, trace gravel (moist)	2000	5					005	
	0	Gray fine-to-coarse SAND, trace gravel (wet)	2000	6	2	PUSH	40			
	0	Gray fine-to-coarse SAND, trace gravel (wet)	2000	7						
	0	Red-brown CLAY, some sand, trace gravel (wet)	2000	8						
	0		2000	9	3	PUSH	36			
	798		2000	10						
	1089		2000	11						
	1065		2000	11						
				11						Stop 10:15 Refusal at 11 feet
				12						Terminate boring at 11 feet

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 1/25/06		Date Finished 1/25/06	
Drilling Equipment Geoprobe (Track Mounted)				Completion Depth 12 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First ∇ 2	Completion ∇ NA	24 HR. ∇ NA	Core NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman George Demetriou				
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA					

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/in	
		Dark brown gravelly fine to coarse SAND (FILL) (dry) Tan GRAVEL (dry)	0	0					Begin at 9:30
		Black fine to coarse SAND, some gravel (moist)	0	1					
		Black and gray CLAY (wet) Brown to gray CLAY (wet)	0	2	1	PUSH	36		
			0	3					
		Brown to gray CLAY (wet)	0	4					
		Gray fine to coarse SAND (wet)	0	5					
			13.2	6	2	PUSH	37		
			42.8	7					
			400	8					
		Gray fine to coarse SAND (wet)	0	9					
			925	10	3	PUSH	36		
		Red fine to coarse SAND, some silt, some clay, trace gravel (moist)	0	11					
			507	12					
			2000						
			2000						
			2000						
			2000						
			2000						
			2000						
			1479						
			175						
			565						
			65.7						
			21.9						
			17.7						
			93.7						
								021	
								End boring at 12 feet at 9:50	





Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/18/05		Date Finished 7/18/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 12 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First ∇ NE		Completion ∇ NA	24 HR. ∇ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Frank Fendler	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/in	Env ID	
	0	Black, gray, and brown fine-to-coarse SAND, some gravel and clay, ash, slag (FILL) (dry)	0	0					147	Start 8:30
	1									
	2				1	PUSH	38		148	
	3	Brown mottled orange-brown CLAY (moist)								
	4	Light brown mottled orange-brown CLAY (moist)							149	
	5									
	6				2	PUSH	42			
	7									
	8									
	9	White quartz GRAVEL (dry)								
	10	Red-brown CLAY, some sand, trace gravel (moist)				3	PUSH	30		
	11									End 8:50 Terminate boring at 12 feet
	12									

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/18/05		Date Finished 7/18/05	
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 12 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 3	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA	Casing Depth (ft) NA		Water Level (ft.) NE	First Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/ft	
[Diagonal Hatching]	0	Black sandy GRAVEL, ash (FILL) (moist)		0					Start 9:35
	0	Tan sandy GRAVEL (FILL) (dry)						153	
	0	Brown fine-to-coarse SAND, some gravel (FILL) (dry)		1	PUSH	33			
	0	Black fine-to-coarse gravelly SAND, ash, slag (FILL) (dry)		2				154	
[Diagonal Hatching]	0	Black fine-to-coarse gravelly SAND, trace clay, ash, slag, fibrous material (FILL) (dry)		4				155	
	0	Gray CLAY (moist)		5					
[Diagonal Hatching]	0	Brown CLAY (moist)						156	
	0	Orange-brown mottled gray CLAY (moist)		6	PUSH	38			
	0	Red-brown CLAY (moist)		7					
[Diagonal Hatching]	0	Dark gray and brown fine-to-coarse SAND (moist)		8					
	0	Gray fine-to-coarse SAND (moist)		9					
	0	Gray fine-to-coarse SAND (moist)		10	PUSH	38			
[Diagonal Hatching]	0			11					
	0			12					

Stop 9:50  
Terminate boring at 12 feet

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/18/05		Date Finished 7/18/05	
Drilling Equipment Geoprobe (Truck Mount)		Completion Depth 12 ft		Rock Depth NE	
Size and Type of Bit NA		Number of Samples 3	Disturbed NA	Undisturbed NA	Core NA
Casing Diameter (in) NA	Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ NE	Completion $\nabla$ NA	24 HR. $\nabla$ NA	
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BU/ft		Env ID
	0	Black fine-to-coarse SAND, some gravel and silt, ash (FILL) (moist)	0	0	1	PUSH	30		150	Start 9:05
	0	Tan sandy GRAVEL (FILL) (dry)	0	1						
	0	Black sandy GRAVEL, ash, slag (FILL) (moist)	0	2						
	0	Brown, mottled orange-brown CLAY (moist)	0	3	2	PUSH	42		151	
	0	Orange-brown CLAY (moist)	0	4						
	0	Orange-brown CLAY (moist to wet)	0	5						
	0	Red-brown CLAY, some sand, trace gravel (moist)	0	6	3	PUSH	34		152	
	0		0	7						
	0		0	8						
	0		0	9						
	0		0	10						
	0		0	11						
	0		0	12						Stop 9:15 Terminate boring at 12 feet

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/15/05		Date Finished 7/15/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 24 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 6	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ 8	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist	BU/in		Env ID
	0	Asphalt		0						Start 7:25	
	0	Light brown fine-to-coarse SAND, some gravel (FILL) (dry)		0					501		
	0			1					098		
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)		0							
	0			2	1	PUSH	45				
	0			3					099		
	0	White CLAY, magnesia material (FILL) (wet)		0							Magnesia material is too soft to recover.
	0			4							
	0			5							
	0			6	2	PUSH	6				
	0			7							
	0			8					100		
	0			9							
	0			10	3	PUSH	18				
	0			11							
	0			12							

Project		Project No.								
Westrum Development Company		3611302								
Location		Elevation and Datum								
Former Nicolet Industries Site: Ambler, PA		NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in		Env ID
			0	12						
			0	13						
			0	14	4	PUSH	5			
			0	15						
			0	16						
			0	17						
			0	18	5	PUSH	2			
			0	19						
			0	20					101	
			0	21						
			Light gray, mottled brown CLAY (moist)	0	22	6	PUSH	42		
			Red-brown fine-to-coarse SAND, some clay, trace gravel (moist)	0	23					
				0	24					Stop 8:00
				0	25					Terminate boring at 24 feet
				0	26					
				0	27					

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)				Completion Depth 7 ft		Rock Depth 7 ft	
Size and Type of Bit NA				Number of Samples 2		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First ∇ NE		Completion NA	24 HR. ∇ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BL/in	
	0	Dark brown CLAY, trace gravel and sand, trace slag (TOPSOIL) (moist)	0	0					Start 13:45
		Brown CLAY (moist)	0	1				232	
		Red-brown CLAY, trace sand (dry)	0	2	1	PUSH	46		
			0	3					
			0	4				233	
		Red-gray fine-to-medium SAND, some silt and clay (dry)	0	5					
		Gray and brown SAND (dry)	0	6	2	PUSH	36		
		Gray and brown SAND, some gravel, sandstone fragments (dry)	0	7					
				8					
				9					
				10					
				11					
				12					Stop 13:50 Refusal at 7 feet  Terminate boring at 7 feet

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/15/05		Date Finished 7/15/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 11 ft		Rock Depth 11 ft	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First 8		Completion NA	24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/in	
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	0				129	Start 12:35
	0		0	1				130	
	0		0	2	1	PUSH	37		
	0	Black and gray fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	3				131	
	0		0	4				132	
	0	Brown CLAY (moist to wet)	0	5					
	0	Orange-brown CLAY, trace sand and gravel (moist)	0	6	2	PUSH	42		
	0	Red-brown fine-to-coarse SAND, trace clay (moist)	0	7					
	0	Red-brown fine-to-coarse SAND, sandstone fragments (wet)	0	8					
	0		0	9	3	PUSH	24		
	0		0	10					
			11					Stop 12:45 Refusal at 11 feet	
			12					Terminate boring at 11 feet	

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/15/05		Date Finished 7/15/05	
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 12 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 3	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ NE	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/ftin	
		Black and gray fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	0				122	Start 11:45
			0						
			0	1				123	
			0	2	1	PUSH	38		
			0	3				124	
			0	4					
			Brown CLAY (moist)	0	4			121	
			Orange-brown CLAY (moist)	0	5				
			0	6	2	PUSH	43		
			0	7					
			0	8					
			0	10	3	PUSH	36		
		0	11						
		0	12						

Stop 12:00  
Terminate boring at 12 feet



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/15/05		Date Finished 7/15/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 12 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 3	Disturbed 3	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First	Completion NE	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BU/ft	
	0	Black fine-to-coarse SAND, trace gravel, ash, slag (FILL) (dry)	0	0				125	Start 12:10
	0		0	1				126	
	0		0	2	1	PUSH	27	127	
	0	Orange-brown CLAY (moist)	0	3					
	0		0	4				128	
	0		0	5					
	0	Red-brown CLAY, some sand, trace gravel (moist)	0	6					
	0	Red-brown fine-to-coarse SAND, some clay, trace gravel (moist)	0	6	2	PUSH	44		
	0	Red-brown CLAY, trace sand and gravel (moist)	0	7					
	0		0	8					
	0		0	9					
	0		0	10	3	PUSH	39		
	0		0	11					
			0	12					Stop 12:25 Terminate boring at 12 feet

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 13.5 ft		Rock Depth 13.5 ft
Size and Type of Bit NA			Number of Samples	Disturbed 4	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) 8	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BU/ft	
	0	Dark brown fine-to-coarse SAND, some slag, trace gravel (FILL) (moist)	0	0					Start 7:15
		Gray GRAVEL (FILL) (dry)							
	0	Dark brown and black fine-to-coarse SAND, some gravel and clay (FILL) (moist)	0	1				193	
		Tan GRAVEL, trace sand (FILL) (dry)							
	0	Brown CLAY (FILL) (dry)	0	2	1	PUSH	37		
		Black fine-to-coarse SAND, some gravel, slag, ash (FILL) (dry)							
	0		0					196	
	0		0	3					
	0		0	4				194	
	0	Brown and black fine-to-coarse SAND, some clay and gravel, slag (FILL) (moist to wet)	0	5					
	0		0	6	2	PUSH	39		
0		0	7						
0		0	8				195		
0	Brown fine-to-coarse SAND, some gravel (FILL) (wet)	0	9						
0	Dark gray fine-to-coarse SAND, some clay, trace gravel, wood (FILL) (wet)	0	10	3	PUSH	28	001	Wood material is giving PID reading. No odor.	
0		0	11						
0	Reddish gray fine-to-coarse SAND (moist)	0	12						



Project Westrum Development Company		Project No. 3611302							
Location Former Nicolet Industries Site: Ambler, PA		Elevation and Datum NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
		Reddish gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	12	4	PUSH	18		
			10.1	13					
			0	14					Stop 7:35 Refusal at 13.5 feet  Terminate boring at 13.5 feet
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					
				23					
				24					
				25					
				26					
				27					

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 12 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples	Disturbed 3	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First 8	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	0				197	Start 7:50
	0		0	1					
	0		0	2	1	PUSH	38	199	
	0		0	3					
	0		0	4				198	
	0	Gray mottled black CLAY (moist)	0	4				200	
	0	Orange-brown CLAY (moist to wet)	0	5					
	0		0	6	2	PUSH	44		
	0	Red-brown CLAY, some sand (moist)	0	7					
	0	Red-gray sandy CLAY (wet)	0	8					
	0		0	9					
	0	Brown and gray fine-to-coarse SAND, some clay (wet)	0	10	3	PUSH	40		
0		0	11						
0		0	12					End 8:00 Terminate boring at 12 feet	



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/20/05		Date Finished 7/20/05
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 11 ft		Rock Depth 11 ft
Size and Type of Bit NA			Number of Samples Disturbed 3		Undisturbed NA
Casing Diameter (in) NA			Casing Depth (ft) NA		Core NA
Casing Hammer NA Weight (lbs) NA Drop (in) NA			Water Level (ft.) First ∇ 8		Completion ∇ 6.5
Sampler 2-inch diameter / 4-foot macro core			Drilling Foreman Brian Moriarty		
Sampler Hammer NA Weight (lbs) NA Drop (in) NA			Inspecting Engineer Randy Copenhaver		

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/in	Env ID	
		Black fine-to-coarse SAND, some gravel, trace clay (FILL) (moist)	0	0					201	Start 8:20            Stop 8:30 Refusal at 11 feet   Terminate boring at 11 feet Set temporary PVC well point
		Gray GRAVEL (FILL) (dry)								
		Black fine-to-coarse SAND, some gravel, slag, ash (FILL) (dry)	0	1						
			0	2	1	PUSH	37			
		Black fine-to-coarse SAND, some gravel, slag, ash (FILL) (wet)	0	3					202	
		Tan GRAVEL, trace sand (FILL) (dry)	0	4					203	
		Orange, brown and black gravelly CLAY, slag, fibrous material (FILL) (moist)	0	5						
		Orange-brown CLAY, some sand and gravel (moist)	0	6	2	PUSH	26		204	
		Reddish gray fine-to-coarse SAND, some gravel, sandstone fragments (dry)	0	7						
		Reddish gray fine-to-coarse SAND, clay, some gravel, sandstone fragments (wet)	0	8						
			410	9	3	PUSH	36			
		101	10					002		
		52.9								
		1510								
		237	11							
			12							

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/15/05		Date Finished 7/15/05	
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 12 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 3	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ NE	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/ft	
		Asphalt		0					Start 9:10
		Black and light tan fine-to-coarse SAND, some gravel, ash (FILL) (dry)		0				502	
		Black, brown, and gray fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)		1				106	
				2	1	PUSH	38		
		Brown sandy SILT, trace clay and gravel (FILL)		3				107	
		Black and white fine-to-coarse SAND, some clay and gravel, ash, slag, magnesia material (FILL) (moist)		4				108	
		White CLAY, trace gravel, magnesia material (FILL) (wet)		5				109	
		Brown CLAY, some sand, trace gravel (moist)		6	2	PUSH	35		
				7					
		Gray, mottled brown CLAY, trace gravel (moist)		8					
				9					
		Red-brown fine-to-coarse SAND, some clay, trace gravel (moist)		10	3	PUSH	37		
				11					
				12					Stop 9:20 Terminate boring at 12 feet

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/15/05		Date Finished 7/15/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First NE	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fender		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BU/ft	Env ID	
	0	Black and gray fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	0					113	Start 10:00
	0	Brown CLAY (FILL) (moist)	0	1						
	0	White CLAY, magnesia material (FILL) (wet)	0	2	1	PUSH	32			
	0	Brown and black fine-to-coarse SAND, some gravel, some clay, ash (FILL) (moist)	0	3					114	
	0	Light pink clayey fine-to-coarse SAND, trace gravel, magnesia material (FILL) (moist)	0	4						
	0	White clayey fine-to-coarse SAND, trace gravel, magnesia material (FILL) (moist)	0	5					115	
	0	Gray and black GRAVEL, some sand and clay, ash, magnesia material (FILL) (wet)	0	6	2	PUSH	32		116	
	0	Light tan CLAY, magnesia material (FILL) (wet)	0	7						
	0	Orange-brown CLAY, some sand and gravel (moist)	0	8						
	0	Gray, mottled brown CLAY, trace sand and gravel (moist)	0	9						
	0	Red-brown fine-to-coarse SAND, trace gravel and clay (moist)	0	10	3	PUSH	43			
	0		0	11						
0		0	12							



Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
		Red-brown fine-to-coarse SAND, trace gravel and clay (moist)	0	12					<p>Stop 10:30</p> <p>Terminate boring at 16 feet</p>
	0		13						
	0		14	4	PUSH	36			
	0		15						
	0		16						
	0		17						
	0		18						
	0		19						
	0		20						
	0		21						
	0		22						
	0		23						
	0		24						
	0		25						
	0		26						
	0		27						

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/15/05	Date Finished 7/15/05	
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 12 ft	Rock Depth NE	
Size and Type of Bit NA			Number of Samples 3	Disturbed NA	Core NA
Casing Diameter (in) NA	Casing Depth (ft) NA	Water Level (ft.) First NE	Completion NA	24 HR. NA	NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. Bl/ft/in	
	0	Black and gray fine-to-coarse SAND, some gravel, trace clay, ash, slag, magnesia material (FILL) (dry)		0				503	Start 9:35
	0								
	0								
	0								
	0								
	0								
	0								
	0								
	0								
	0								
	0								
	0								
	0	Black and light tan sandy CLAY, trace gravel, ash, slag, magnesia material (FILL) (wet)		0				110	
0									
0									
0									
0									
0									
	0	Black and light tan sandy CLAY, trace gravel, ash, slag, magnesia material (FILL) (wet)		0				111	
0									
0									
	0	Gray mottled black CLAY, organic material (moist)		0				112	
0									
	0	Gray mottled brown CLAY (moist)		0					
0									
	0	Red-brown fine-to-coarse SAND, some clay, trace gravel (moist)		0	1	PUSH	24		
0									
0									
	0			0	2	PUSH	10		
0									
0									
	0			0	3	PUSH	44		
0									
0									
	0			0					Stop 9:50
0									
	0			0					Terminate boring at 12 feet
0									
	0			0					

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/14/05		Date Finished 7/14/05	
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 15 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA	Casing Depth (ft) NA	Water Level (ft.) NE	First NE	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Matt Burk		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist BU/in		Env ID
[Cross-hatched pattern]	0	Black and dark brown fine-to-coarse SAND, trace gravel, ash (FILL) (dry)	0	0					048	Start 7:30
	0	Light tan CLAY, trace sand, magnesia material (FILL) (wet)	0	1						
	0	Black and dark brown fine-to-coarse SAND, trace gravel, ash (FILL) (dry)	0	2	1	PUSH	34			
	0		0	3						
	0		0	4						
	0	Light tan CLAY, magnesia material (FILL) (wet)	0	5					049	
	0		0	6	2	PUSH	36			
	0		0	7						
	0		0	8						
	0		0	9						
[Diagonal hatched pattern]	0	Dark gray CLAY (wet)	0	10	3	PUSH	44			
	0	Gray and black mottled CLAY (moist)	0	11					050	
	0	Gray and brown mottled CLAY (moist)	0	12					051	



Project		Westrum Development Company		Project No.		3611302			
Location		Former Nicolet Industries Site: Ambler, PA		Elevation and Datum		NA			
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
12			0						
13			0						
14		Gray and brown fine-to-coarse SAND (moist)	0		4	PUSH	33		
15			0						Stop 8:00 Refusal at 15 feet
16			0						
17			0						
18			0						
19			0						
20			0						
21			0						
22			0						
23			0						
24			0						
25			0						
26			0						
27			0						Terminate boring at 15 feet

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)		Completion Depth 7.5 ft		Rock Depth 7.5 ft	
Size and Type of Bit NA		Number of Samples 2	Disturbed NA	Undisturbed NA	Core NA
Casing Diameter (in) NA	Casing Depth (ft) NA	Water Level (ft.) First ∇ NE	Completion NA	24 HR. ∇ NA	
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. Bl/ft	Env ID	
		Dark brown CLAY, trace sand (TOPSOIL) (moist)		0					230	Start 13:35
		Brown CLAY, trace sand (dry)		0						
		Brown fine-to-coarse SAND, some clay (dry)		2	1	PUSH	43			Stop 13:40 Refusal at 7.5 feet
		Gray fine-to-coarse SAND, some gravel, sandstone fragments (dry)		3						
				4					231	
		Red, brown and gray fine-to-coarse SAND, some clay, trace gravel, sandstone fragments (dry)		6	2	PUSH	42			
				8						Terminate boring at 7.5 feet
				9						
				10						
				11						
				12						





Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
		Purple-brown fine-to-coarse SAND (moist)		12	4	PUSH	36		047
		Brown fine-to-coarse SAND, trace gravel (moist)		13					
		Light orange-brown fine-to-coarse SAND (moist)		14					
				15					Stop 16:00 Refusal at 15 feet  Terminate boring at 15 feet
				16					
				17					
				18					
				19					
				20					
				21					
				22					
				23					
				24					
				25					
				26					
				27					

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/14/05		Date Finished 7/14/05	
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) 8	First 8	Completion NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Matt Burk		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist Bl/min	Env ID	
		Black, gray, and brown fine-to-coarse SAND, some gravel, ash and slag (FILL) (dry)	0	0					078	Start 11:55
	0									
	0									
	0									
	0									
	0									
	0									
	0									
	0									
	0									
	0									
	0									
		Light tan CLAY, trace gravel, magnesia material (FILL) (wet)		6	2	PUSH	34			
		Light tan CLAY, magnesia material (FILL) (wet)		8						
		Light tan CLAY, some sand, magnesia material (FILL) (wet)		10	3	PUSH	26		080	
				11						
				12						

Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/in	
		Gray-brown CLAY (wet)	0	12	4	PUSH	27		081
		Gray fine-to-coarse SAND, some clay (wet)	0	13					
		Red-brown fine-to-coarse SAND, trace gravel and silt (wet)	0	14					
			0	15					Stop 12:20 Terminate boring at 16 feet
			0	16					
			0	17					
			0	18					
			0	19					
			0	20					
			0	21					
			0	22					
			0	23					
			0	24					
			0	25					
			0	26					
			0	27					

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Project <b>Westrum Development Company</b>				Project No. <b>3611302</b>			
Location <b>Former Nicolet Industries Site: Ambler, PA</b>				Elevation and Datum <b>NA</b>			
Drilling Company <b>Terra Probe, Inc.</b>				Date Started <b>7/12/05</b>		Date Finished <b>7/12/05</b>	
Drilling Equipment <b>Geoprobe (Truck Mount)</b>				Completion Depth <b>14 ft</b>		Rock Depth <b>14 ft</b>	
Size and Type of Bit <b>NA</b>				Number of Samples <b>4</b>		Disturbed <b>NA</b>	Core <b>NA</b>
Casing Diameter (in) <b>NA</b>		Casing Depth (ft) <b>NA</b>		Water Level (ft.) <b>First</b> $\nabla$ <b>NE</b>		Completion $\nabla$ <b>NA</b>	24 HR. $\nabla$ <b>NA</b>
Casing Hammer	<b>NA</b>	Weight (lbs)	<b>NA</b>	Drop (in)	<b>NA</b>		
Sampler <b>2-inch diameter / 4-foot macro core</b>				Drilling Foreman <b>Brian Moriarty</b>			
Sampler Hammer				Inspecting Engineer <b>Randy Copenhaver</b>			
NA		NA		NA		NA	

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks <small>(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)</small>
					Number	Type	Recov. (in)	Penetr. resist Bl/ft	Env ID	
		Asphalt		0						Start 15:15
		Gray GRAVEL, some sand (FILL) (dry)		0					040	
		Black and dark gray ash, fine-to-coarse SAND, some gravel (FILL) (dry)		1	1	PUSH	42			
		Brown CLAY, trace gravel and sand (moist)		5	2	PUSH	27		041	
		Orange-brown and gray-brown fine-to-coarse SAND (moist)		8					042	
		Gray-brown-purple fine-to-coarse SAND (moist)		10	3	PUSH	41		043	



Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
			0	12					Stop 15:30 Refusal at 14 feet  Terminate boring at 14 feet
			0	13	4	PUSH	23		
			0						
			0						
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				
					23				
				24					
				25					
				26					
				27					

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/18/05		Date Finished 7/18/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 12 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 3	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) NE	First NE	Completion NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/in	Env ID	
		Asphalt		0						Start 7:20
		Black and gray fine-to-coarse SAND, some gravel, ash, fibrous material (FILL) (dry)		0				139		
		Tan fine-to-coarse SAND, some gravel (FILL) (dry)		1						
		Gray fine-to-coarse SAND, some gravel and clay, ash (FILL) (moist)		2	1	PUSH	33			
		Black fine-to-coarse SAND, some gravel, trace silt and clay, ash, slag, (FILL) (moist)		5				140		
		Black fine-to-coarse SAND, some gravel, trace silt and clay, ash, slag, (FILL) (moist)		6	2	PUSH	18			
		Gray fine-to-coarse SAND, some gravel, fibrous material (FILL) (moist)		8				141		
		Brown mottled orange-brown CLAY (dry)		9				142		
		Red-brown CLAY, some sand, trace gravel (moist)		10	3	PUSH	36			
				11						
				12						End 7:30 Terminate boring at 12 feet

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/12/05		Date Finished 7/12/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) NE	First NE	Completion NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/in	
	0	Asphalt		0					Start 14:45
	0	Black ash, fine-to-coarse SAND, some gravel (FILL) (dry)		0					
	0	Gray and white CLAY, magnesia material, trace sand (FILL) (dry)		1					
	0	Black ash, fine-to-coarse SAND, some gravel (FILL) (dry)		0				036	
	0	Light tan SILT, some sand, trace gravel (FILL) (moist)		2	1	PUSH	28		
	0	Black ash, fine-to-coarse SAND, some gravel (FILL) (dry)		0					
	0			3					
	0			4					
	0			5				037	
	0			6	2	PUSH	18		
	0			7					
	0			8					
	0			9				038	
	0	Light tan CLAY, magnesia material (FILL) (wet)		0					
	0			10	3	PUSH	33		
	0			11					
	0	Brown CLAY, trace sand (moist)		0					
	0			12					

Project Westrum Development Company		Project No. 3611302							
Location Former Nicolet Industries Site: Ambler, PA		Elevation and Datum NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
		Orange-brown and gray mottled SILT (dry)	0	12					
		Orange-brown and gray medium-to-coarse SAND, trace fine sand (dry)	0	13					
			0	14	4	PUSH	36		
			0	15					
			0	16					Stop 14:55 Terminate boring at 16 feet
			0	17					
			0	18					
			0	19					
			0	20					
			0	21					
			0	22					
			0	23					
			0	24					
			0	25					
			0	26					
			0	27					

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 1/24/06		Date Finished 1/24/06
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 12 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 3	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ 6	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BU/min	Env ID	
		Asphalt		0						Start 8:20           Groundwater encountered at 6 feet           End boring at 12 feet at 8:40
		Black ash, fine-to-coarse SAND, some gravel (FILL) (dry)		0						
		Gray and white CLAY, magnesia material, trace sand (FILL) (dry)		1						
		Black ash, fine-to-coarse SAND, some gravel (FILL) (dry)		0						
		Light tan SILT, some sand, trace gravel (FILL) (moist)		2	1	PUSH	31			
		Black fine to coarse SAND, some gravel, ash, slag (FILL) (dry)		0						
		Black fine to coarse SAND, some gravel ash, slag (FILL) (dry)		4				003		
		Light tan CLAY, magnesia material (FILL) (wet)		6	2	PUSH	28			
		Light tan CLAY magnesia material (FILL) (wet)		8						
		Brown CLAY, trace sand (moist)		11				004		
				12						

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/18/05		Date Finished 7/18/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 12 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 3		Undisturbed NA	Core NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Frank Fendler	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BL/6in	Env ID	
		Black and gray sandy GRAVEL (FILL) (dry)	0	0					143	Start 7:55
		Black fine-to-coarse SAND, some gravel, trace silt and clay, ash, slag (FILL) (moist)	0	1						
			0	2	1	PUSH	29			
			0	3						
			0	4						
		Tan and gray CLAY, some gravel and sand, ash, slag, magnesia material (FILL) (moist)	0	4						
		Gray fine-to-coarse SAND, trace gravel (FILL) (moist)	0	5						
		Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (moist)	0	5					144	
		Brown CLAY, some fine-to-coarse SAND, ash, fibrous material, trace gravel (FILL) (moist)	0	6						
		Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (moist)	0	6	2	PUSH	24			
		Light gray CLAY, magnesia material (FILL) (wet)	0	6						
			0	7						
			0	8					145	
			0	9						
		Brown fine-to-coarse SAND, some gravel and clay (moist)	0	10	3	PUSH	30		146	
			0	11						
			0	12						

Stop 8:10  
Terminate boring at 12 feet





Project		Project No.						
Westrum Development Company		3611302						
Location		Elevation and Datum						
Former Nicolet Industries Site: Ambler, PA		NA						
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Depth Scale	Number	Type	Recov. (in)	
			12					
			0					
			0					
			13					
			0					
			0					
			14	4	PUSH	48	035	
		Gray-brown CLAY (wet)	0					
			0					
			15					
			0					
			0					
		Brown fine-to-coarse SAND, trace silt and gravel (moist)	0					
			16					Stop 14:30 Terminate boring at 16 feet
			17					
			18					
			19					
			20					
			21					
			22					
			23					
			24					
			25					
			26					
			27					

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 1/24/06		Date Finished 1/24/06
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples Disturbed 4		Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First 3		Completion NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/in	
		Asphalt		0					
		Black fine to coarse SAND, some gravel, ash (FILL) (dry)		0					Start 7:45
		Black and light tan fine to coarse SAND, some clay and gravel ash, magnesia material (FILL) (wet)		1					
		Gray-brown CLAY, magnesia material (wet)		2	1	PUSH	29		
		Gray-brown CLAY, magnesia material (wet)		3					Groundwater encountered at 3 feet
		Gray-brown CLAY, magnesia material (wet)		4					
		Gray-brown CLAY, magnesia material (wet)		5				001	
		Gray-brown CLAY, magnesia material (wet)		6	2	PUSH	23		
		Gray-brown CLAY, magnesia material (wet)		7					
		Gray-brown CLAY, magnesia material (wet)		8					Poor Recovery
		Gray-brown CLAY, magnesia material (wet)		9					
		Gray-brown CLAY, magnesia material (wet)		10	3	PUSH	3		
		Gray-brown CLAY, magnesia material (wet)		11					
		Gray-brown CLAY, magnesia material (wet)		12					

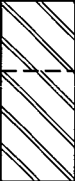
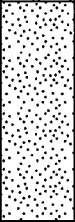
Project		Westrum Development Company		Project No.		3611302			
Location		Former Nicolet Industries Site: Ambler, PA		Elevation and Datum		NA			
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
		Gray-brown CLAY, magnesia material (wet)	0	12	4	PUSH	48		
		Gray-brown CLAY, magnesia material (wet)	0	13					
		Gray-brown CLAY, magnesia material (wet)	0	14					
		Brown fine to coarse SAND, trace silt and gravel (moist)	0	15					End boring at 16 feet at 8:10
			0	16					
			0	17					
			0	18					
			0	19					
			0	20					
			0	21					
			0	22					
			0	23					
			0	24					
			0	25					
			0	26					
			0	27					

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/15/05		Date Finished 7/15/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 16 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 4		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) NE		First NE	Completion NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist.	Bl/Win		Env ID
[Cross-hatched pattern]	0	Black fine-to-coarse SAND, some gravel, ash, wood (FILL) (dry)	0	0						117	Start 10:50
	0		0	1						504	
	0	Gray fibrous material (FILL) (moist)	2.9	2	1	PUSH	35				
	0	Tan fine-to-coarse SAND, some gravel (FILL) (dry)	0								
	0	Black fine-to-coarse SAND, some gravel, ash, wood, gray fibrous material (FILL) (dry)	0							118	
	0		0	3							
	0	White CLAY, trace sand, magnesia material (FILL) (dry)	0	4							
	0	Brown and black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0							119	
	0	Light tan CLAY, magnesia material (FILL) (wet)	0	5							
	0		0	6	2	PUSH	32				
	0		0	7							
	0		0	8							
0		0	9								
0		0	10	3	PUSH	31					
0		0	11								
0		0	12						120		

Project Westrum Development Company		Project No. 3611302							
Location Former Nicolet Industries Site: Ambler, PA		Elevation and Datum NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/6in	
		Gray CLAY (dry)	0	12	4	PUSH	34		
		Gray mottled brown CLAY (dry)	0	13					
		Red-brown fine-to-coarse SAND, trace gravel (dry)	0	14					
			0	15					
			0	16					Stop 11:15 Terminate boring at 16 feet
				17					
				18					
				19					
				20					
				21					
				22					
				23					
				24					
				25					
				26					
				27					

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Project Westrum Development Company				Project No. 3611302				
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA				
Drilling Company Terra Probe, Inc.				Date Started 7/12/05		Date Finished 7/12/05		
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 16 ft		Rock Depth NE		
Size and Type of Bit NA				Number of Samples		Disturbed	Undisturbed	Core
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.)		First	Completion	24 HR.
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty				
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver				
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA					

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BUL/in	Env ID	
	0	Asphalt		0						Start 13:45
		Orange-brown fine-to-coarse SAND, trace gravel (FILL) (dry)								
		Gray GRAVEL, some sand (FILL) (dry)								
		Black ash, fine-to-coarse SAND, some gravel (FILL) (dry)							030	
				2	1	PUSH	33			
		Gray and white fine-to-coarse SAND, some silt and clay, trace gravel (FILL) (dry)								
				3						
		Light tan CLAY, magnesia material (FILL) (wet)								
				4						
				5						
				6	2	PUSH	45			
				7						
				8					031	
				9						
				10	3	PUSH	0			
				11						
				12						

No recovery. TPI stated magnesia material was encountered and lost recovery when extracting macro core.

Project		Project No.								
Westrum Development Company		3611302								
Location		Elevation and Datum								
Former Nicolet Industries Site: Ambler, PA		NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Env ID	
			12	0	4	PUSH	0			No recovery. TPI stated magnesia material was encountered and lost recovery when extracting macro core.           Stop 14:00 Terminate boring at 16 feet
				0						
				0						
				13						
				0						
				0						
				14						
				0						
				0						
				15						
				0						
				0						
			16							
			17							
			18							
			19							
			20							
			21							
			22							
			23							
			24							
			25							
			26							
			27							

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)				Completion Depth 4 ft		Rock Depth 4 ft	
Size and Type of Bit NA				Number of Samples 1		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First NE		Completion NA	24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BLU/in		Env ID
	0	Dark brown CLAY, trace fine sand (TOPSOIL) (moist)	0	0	4	PUSH	44		228	Start 13:25
	0	Orange-brown CLAY, some sand (dry)	0	1						
	0		0	2						
	0	Gray fine-to-coarse SAND, some gravel, sandstone fragments (dry)	0	3						
			0	4				229	Stop 13:30 Refusal at 4 feet	
				4					Terminate boring at 4 feet	
				5						
				6						
				7						
				8						
				9						
				10						
				11						
				12						



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/12/05		Date Finished 7/12/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ 14.3	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Depth Scale	Number	Type	Recov. (in)	Penetr. resist. Bl/ft	
	0	Brown fine-to-coarse SAND, some gravel (FILL) (dry)	0	0					Start 13:05
	0		0	1	PUSH	34		026	
	0	Dark gray fine-to-coarse SAND, some gravel (FILL) (dry)	0	2					
	0		0	3					
	0	Brown, black, and gray fine-to-coarse SAND, some gravel and fibrous material, trace ash and red brick (FILL) (dry)	0	4					
	0		0	5				027	
	0	Brown sandy SILT, trace gravel (FILL) (moist)	0	6	2	PUSH	24		
	0		0	7					
	0	Dark gray, brown and black fine-to-coarse SAND, some gravel, trace ash (FILL) (dry)	0	8					
	0		0	9				028	
	0	Light tan and black fine-to-coarse SAND, some gravel trace silt and clay, ash (FILL) (moist)	0	10	3	PUSH	31		
	0		0	11					
0		0	12						

Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BLU/in	
		Red-brown fine-to-coarse SAND, trace silt (FILL) (dry)	0	12	4	PUSH	35		
		Black ash (FILL) (dry)	0	13					
		Brown SILT, trace sand (FILL) (dry)	0	14					
		White sandy CLAY, magnesia material, trace gravel (FILL) (wet)	0	15					
			0	16					
			0	17					
			0	18					
			0	19					
			0	20					
			0	21					
			0	22					
			0	23					
			0	24					
			0	25					
			0	26					
			0	27					
								029	Stop 13:20 Terminate boring at 16 feet

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/12/05		Date Finished 7/12/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 16 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples Disturbed 4		Undisturbed NA	Core NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First 12		Completion NA	24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BU/6in	
		Brown fine-to-coarse SAND, trace gravel (FILL) (dry)	0	0					Start 11:30
		Black ash, fine-to-coarse SAND (FILL) (dry)	0	1					
		Light tan silty fine-to-coarse SAND, magnesia material (FILL) (moist)	0	2	1	PUSH	40		021
		Black ash, fine-to-coarse SAND, magnesia material (FILL) (dry)	0	3					
		Light tan silty fine-to-coarse SAND, magnesia material (FILL) (moist)	0	4					
		Brown to dark brown fine-to-coarse SAND, some silt, trace clay and ash (FILL) (moist)	0	5					
		Light tan and white silty SAND, magnesia material (FILL) (dry)	0	6	2	PUSH	33		022
		Light tan and white silty SAND, magnesia material, trace black ash and brown fine-to-coarse SAND (FILL) (moist)	0	8					
		Black ash and slag (FILL) (dry)	0	9					023
		Red-brown CLAY, trace gravel (FILL) (moist)	0	10	3	PUSH	22		
			0	11					
			0	12					



Project Westrum Development Company		Project No. 3611302									
Location Former Nicolet Industries Site: Ambler, PA		Elevation and Datum NA									
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
				Depth Scale	Number	Type	Recov. (in)	Penetr. resist. BL/in		Env ID	
		White CLAY, magnesia material (FILL) (wet)	12						Stop 11:50 Terminate boring at 16 feet		
			0								
			0								
			0		13						
			0								
			0								
			0		14	4	PUSH	34			
			0								
			0								
			0		15						
			0								
			0							024	
			0								
			0		16						
					17						
			18								
			19								
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			23								
			24								
			25								
			26								
			27								

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/12/05		Date Finished 7/12/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed 4	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First NE	Completion NA	Core NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist Bl/In		Env ID
[Cross-hatched pattern]	0	Brown fine-to-coarse SAND, some silt, trace gravel, trace slag and ash (FILL) (dry)	0	0	1	PUSH	30		017	Start 10:45
	0	Gray GRAVEL, trace fine-to-coarse sand (FILL) (dry)	0	1						
	0	Light brown fine-to-coarse SAND, trace gravel, trace fibrous material (FILL) (dry)	0	2						
	0	Gray GRAVEL, trace sand (FILL) (dry)	0	3						
	0	Brown fine-to-coarse SAND, trace silt, gravel, and ash (FILL) (dry)	0	4	2	PUSH	26		018	
	0	Gray fibrous material (FILL) (moist)	0	5						
	0	Light tan CLAY, magnesia material (FILL) (moist)	0	6						
	0		0	7						
	0	Light tan sandy CLAY, trace gravel, magnesia material (FILL) (moist)	0	8	3	PUSH	11		019	
	0		0	9						
	0		0	10						
	0		0	11						
0			12							



Project		Project No.									
Westrum Development Company		3611302									
Location		Elevation and Datum									
Former Nicolet Industries Site: Ambler, PA		NA									
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in		Env ID	
		Brown and black fine-to-coarse SAND, some gravel, ash and concrete (FILL) (moist) Light tan sandy CLAY, trace gravel, magnesia material (FILL) (moist) Black and white fine-to-coarse SAND, some ash, gravel and white clay, magnesia material (FILL) (moist)	0	12							
			0								
			0	13							
			0								
			0	14	4		PUSH	17			
			0								
			0	15							
			0								
			0							020	
			0	16							Stop 11:05 Terminate boring at 16 feet
						17					
						18					
						19					
						20					
						21					
						22					
				23							
				24							
				25							
				26							
				27							

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/12/05		Date Finished 7/12/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 16 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 4		Undisturbed NA	Core NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/in	
	0	Concrete		0					Start 9:55
	0	Gray GRAVEL, trace sand (FILL) (dry)		1					
	0	Gray sandy SILT, fibrous material (FILL) (moist)		2	1	PUSH	25		013
	0	Brown fine-to-coarse SAND, some silt, trace gravel (FILL) (moist)		4					
	0	Light tan fine-to-coarse SAND, some silt, magnesia material (FILL) (moist)		5					014
	0	Brown fine-to-coarse SAND, some gravel (FILL) (dry)		6	2	PUSH	17		
	0	Light tan fine-to-coarse SAND, some silt, magnesia material (FILL) (moist)		8					
	0	Brown fine-to-coarse SAND, some gravel (FILL) (dry)		9					015
	0	White, tan, and black fine-to-coarse SAND, some silt and clay, ash, slag, magnesia material (FILL) (moist)		10	3	PUSH	24		
	0			11					
	0			12					

Project Westrum Development Company		Project No. 3611302							
Location Former Nicolet Industries Site: Ambler, PA		Elevation and Datum NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppmv)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
		Black and brown fine-to-coarse SAND, some gravel (FILL) (moist)	0	12	4	PUSH	38	016	
		Light tan CLAY, magnesia material (FILL) (wet)	0	13					
		Black ash, fine-to-coarse SAND, some gravel (FILL) (moist)	0	15					
			0	14					
			0	16					Stop 10:15 Terminate boring at 16 feet
			0	17					
			0	18					
			0	19					
			0	20					
			0	21					
			0	22					
			0	23					
			0	24					
			0	25					
			0	26					
			0	27					

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/12/05		Date Finished 7/12/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 16 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 4		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/ft	
		Concrete	0	0					Start 9:20
		Gray GRAVEL, trace sand (FILL) (dry)	0	1					
		Black sandy GRAVEL, ash (FILL) (dry)	0	1					
		Gray SILT, fibrous material (FILL) (moist)	0	2	1	PUSH	24		009
		Black sandy GRAVEL, ash (FILL) (dry)	0	2					
		Light tan CLAY, magnesia material (FILL) (wet)	0	4					
			0	5					
			0	6	2	PUSH	29		010
			0	7					
		Black sandy GRAVEL, ash (FILL) (dry)	0	8					
		Light tan CLAY, magnesia material, some sand, gravel, and gray fibrous material (FILL) (wet)	0	9					
			0	10	3	PUSH	20		011
			0	11					
			0	12					



Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
		Light tan CLAY, magnesia material (FILL) (wet)	0	12					
		Black ash, sandy GRAVEL (FILL) (dry)	0	13					
			0	14	4	PUSH	24		
			0	15					
			0	16					Stop 9:35 Terminate boring at 16 feet
			0	17					
			0	18					
			0	19					
			0	20					
			0	21					
			0	22					
			0	23					
			0	24					
			0	25					
			0	26					
			0	27					

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 1/24/06		Date Finished 1/24/06	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 20 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed 4	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First 4		Completion NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/ft	
		Concrete		0					Begin at 10:45  Groundwater encountered at 4 feet
		GRAVEL, trace sand (FILL) (dry)		0					
		Brown fine to coarse SAND, some gravel (FILL) (dry)		1					
		Black fine to coarse SAND, some gravel, ash (FILL) (dry)		2	1	PUSH	30		
		Gray SILT, fibrous material (FILL) (moist)		2					
		Black, gray and brown sandy GRAVEL, ash (FILL) (dry)		3					
				3					
				4				010	
		Light tan CLAY, magnesia material (FILL) (wet)		4					
				5					
				6	2	PUSH	17		
				7					
		Light tan CLAY, magnesia material (FILL) (wet)		8					
		Black, gray and brown sandy GRAVEL, ash (FILL) (wet)		9					
		Light tan CLAY, trace gravel, magnesia material (FILL) (wet)		10	3	PUSH	19		
				11					
				12					

Project		Project No.								
Westrum Development Company		3611302								
Location		Elevation and Datum								
Former Nicolet Industries Site: Ambler, PA		NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	Env ID	
	12	Light tan CLAY, magnesia material (FILL) (wet)	0	12						
	13		0	13						
	14	Gray and brown clayey gravel, trace sand, ash, magnesia material (FILL) (wet)	0	14	4	PUSH	25			
	15		0	15						
	16		0	16						
	17	Gray GRAVEL, some fine to coarse sand, trace clay (FILL) (wet)	0	17						
	17	Black fine to coarse SAND, ash (FILL) (wet)	0	17						
	17	Dark gray and black GRAVEL, trace fine to coarse sand and clay (FILL) (wet)	0	17						
	18	Gray CLAY, trace fine sand (wet)	0	18	5	PUSH	30			
	19		0	19				011		
	20		0	20						
				21						End boring at 20 feet at 11:05
				22						
				23						
				24						
				25						
				26						
				27						

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/12/05		Date Finished 7/12/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed 4	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First NE	Completion NA	Core 24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/ft	
		Concrete	0	0					Start 7:55
		Gray gravel (FILL) (dry)	0	1				001	
		Asphalt and brick (FILL) (dry)	0	2	1	PUSH	30		
		Light gray and white silty SAND, trace gravel, magnesia material (FILL) (moist)	0	3					
		Light tan CLAY, trace sand and gravel, magnesia material (FILL) (wet)	0	4	2	PUSH	12	002	Poor recovery due to very soft material
		Light tan and white CLAY, trace sand and gravel, magnesia material (FILL) (wet)	0	5					
			0	6					
			0	7					
			0	8	3	PUSH	26	003	
			0	9					
			0	10					
			0	11					
			0	12					



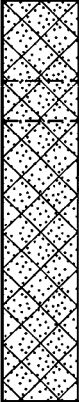
Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BU/6in	
			12	0	4	PUSH	40		Stop 8:15 Terminate boring at 16 feet
				0					
				0					
				13					
				0					
				0					
				14					
				0					
				0					
				15					
				0					
				0					
				16					
				0					
				0					
				16					
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						
			25						
			26						
			27						

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/12/05		Date Finished 7/12/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 16 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 4		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First ∇ NE	Completion ∇ NA	24 HR. ∇ NA	Core NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty				
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA					

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/ft	Env ID	
		Concrete	0	0						Start 8:35
		Gray GRAVEL, trace sand (FILL) (dry)								
		Gray SILT, fibrous material (FILL) (moist)		1					005	
		Black ash (FILL) (dry)								
		Brown sandy SILT, some gravel (FILL) (moist)		2	1	PUSH	24			
				3						
		Black ash, GRAVEL, some sand (FILL) (moist)		4						
		Brown and white GRAVEL, trace sand and silt, magnesia material (FILL) (moist)								
		White and tan gravelly SILT, some sand, magnesia material (FILL) (moist)		5					006	
				6	2	PUSH	36			
				7						
		Black GRAVEL, some sand, ash (FILL) (moist)		8						
		Gray GRAVEL, trace sand (FILL) (moist)								
		White and tan SAND, some silt, trace gravel, magnesia material (FILL) (moist)								
		Black GRAVEL, some sand, ash (FILL) (moist)		10	3	PUSH	28			
				11						
				12						

Project		Westrum Development Company		Project No.		3611302				
Location		Former Nicolet Industries Site: Ambler, PA		Elevation and Datum		NA				
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/in		Env ID
		White CLAY, trace sand, magnesia material (FILL) (wet)	0	12	4	PUSH	20	NA	007	Stop 8:55 Terminate boring at 16 feet
		Light tan silty SAND, magnesia material (FILL) (moist)	0	13						
		Black GRAVEL, some sand, ash (FILL) (moist)	0	14						
			0	15						
			0	16						
			0	17						
			0	18						
			0	19						
			0	20						
			0	21						
			0	22						
			0	23						
			0	24						
			0	25						
			0	26						
			0	27						

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/18/05		Date Finished 7/18/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 15.5 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First NE	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/ft	Env ID	
	0	Black fine-to-coarse SAND, some gravel, trace silt and clay (FILL) (dry)	0	0					181	Start 14:15
	0		0	1						
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	2	1	PUSH	35			
	0		0	3						
	0	White and light tan fine-to-coarse SAND, some gravel and clay, magnesia material (FILL) (moist)	0	5						
	0	Gray SILT, some sand (FILL) (moist)	0	6	2	PUSH	30		182	
	0	Orange-brown fine-to-coarse SAND, trace gravel (FILL) (dry)	0	6						
	0		0	7						
	0	White CLAY, magnesia material (FILL) (wet)	0	8						
	0		0	9					183	
0		0	10	3	PUSH	31				
0		0	11							
0		0	12							

Project		Project No.								
Westrum Development Company		3611302								
Location		Elevation and Datum								
Former Nicolet Industries Site: Ambler, PA		NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in		Env ID
		Black fine-to-coarse SAND, some gravel, trace white clay, ash, slag, magnesia material (FILL) (moist)	0	12						
			0							
			0	13						
			0			4	PUSH	14		
			0	14					184	
			0							
			0	15						Stop 14:35 Refusal at 15.5 feet
			0							Terminate boring at 15.5 feet
						16				
						17				
						18				
						19				
						20				
						21				
						22				
				23						
				24						
				25						
				26						
				27						

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/15/05		Date Finished 7/15/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 23.5 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 6		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) 12		First 12	Completion NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BU/6in	
	0	Brown fine-to-coarse SAND, some gravel and silt (TOPSOIL) (dry)	0	0				102	Start 8:15
	0	Gray GRAVEL, some sand, slag (FILL) (dry)	0	0					
	0	Black fine-to-coarse SAND, some gravel, ash (FILL) (dry)	0	1					
	0	Light brown fine-to-coarse SAND, some gravel (FILL) (dry)	0	2	1	PUSH	33		
	0	Black and gray fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	3					
	0		0	4				103	
	0	Light tan CLAY, magnesia material, trace sand (FILL) (wet)	0	5					
	0		0	6	2	PUSH	12		
	0		0	7					
	0		0	8					
	0	Light tan CLAY, magnesia material (FILL) (wet)	0	9					
	0		0	10	3	PUSH	30	104	
	0		0	11					
	0		0	12					

Project		Project No.								
Westrum Development Company		3611302								
Location		Elevation and Datum								
Former Nicolet Industries Site: Ambler, PA		NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Env ID	
		Light tan CLAY, magnesia material (FILL) (wet)		12						
				0						
					0					
					13					
					0					
					0					
					14	4	PUSH	32		
					0					
					0					
					15					
					0					
					0					
			Light tan CLAY, magnesia material (FILL) (wet)		16					
					0					
					0					
					17					
					0					
					0					
					18	5	PUSH	30		
					0					
					0					
					19					
					0					
				0						
		Light tan CLAY, magnesia material (FILL) (wet)		20						
				0						
				0				105		
				21						
				0						
		Gray mottled black CLAY (moist)		22	6	PUSH	42			
				0						
		Red-brown fine-to-coarse SAND, some clay (moist)		23						
				0						
				0						
				24					Stop 8:40 Refusal at 23.5 feet	
				0						
				0						
				25						
				0						
				0						
				26						
				0						
				0						
				27					Terminate boring at 23.5 feet	

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/18/05		Date Finished 7/18/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 23 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 6		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) 12		First 12	Completion NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Frank Fendler	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist	BL/ft	
	0	Black fine-to-coarse gravelly SAND, trace silt and clay (FILL) (moist)	0	0						Start 14:40
	0	Gray fibrous material (FILL) (moist)	0	1					185	
	0	Red brick (FILL) (dry)	0	2	1	PUSH	35			
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	3						
	0	Gray fibrous material, trace sand and gravel, fibrous material (FILL) (moist)	0	4						
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	5						
	0	White fine-to-coarse SAND, some clay and gravel, magnesia material (FILL) (moist)	0	6	2	PUSH	36			
	0	White fine-to-coarse SAND, some clay and gravel, magnesia material (FILL) (moist)	0	7						
	0	Light tan CLAY, magnesia material (FILL) (wet)	0	8						
	0	White and tan fine-to-coarse SAND, some clay and gravel, magnesia material (FILL) (moist)	0	9					187	
	0		0	10	3	PUSH	38			
	0		0	11						
0		0	12							

Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BL/6in	
		Light tan CLAY, magnesia material (FILL) (wet)	0	12					
		Light tan and black clayey fine-to-coarse SAND, magnesia material, slag, trace gravel (FILL) (moist)	0	13					
		Light tan and black clayey fine-to-coarse SAND, magnesia material, slag, trace gravel (FILL) (moist)	0	14	4	PUSH	NA		
		Light tan CLAY, magnesia material (FILL) (wet)	0	15					
		Light tan CLAY, magnesia material (FILL) (wet)	0	16					
		Light tan CLAY, magnesia material (FILL) (wet)	0	17					
		Light tan CLAY, magnesia material (FILL) (wet)	0	18	5	PUSH	36		
		Light tan fine-to-coarse SAND, magnesia material, fibrous material, some clay, trace gravel (FILL) (wet)	0	19					
		Gray CLAY, magnesia material (FILL) (wet)	0	20					
		Gray CLAY, magnesia material (FILL) (wet)	0	21					188
	White clayey fine-to-coarse SAND, magnesia material, trace gravel (FILL) (wet)	0	22	6	PUSH	36			
	Dark gray CLAY (moist)	0	22						
	Red-brown fine-to-coarse SAND, some gravel and clay (wet)	0	23						
				23					End 16:20 Refusal at 23 feet
				24					Terminate boring at 23 feet
				25					
				26					
				27					

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)				Completion Depth 3.5 ft		Rock Depth 3.5 ft	
Size and Type of Bit NA				Number of Samples 1		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist Bl/In		Env ID
		Dark brown CLAY, trace sand (TOPSOIL) (moist)	0	0					226	Start 13:20
		Brown CLAY (dry)	0							
		Brown CLAY, some sand (dry)	0	1						
		Gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	2	1	PUSH	40			
			0	3					227	Stop 13:23 Refusal at 3.5 feet
			0	4						Terminate boring at 3.5 feet
				5						
				6						
				7						
				8						
				9						
				10						
				11						
				12						

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/15/05		Date Finished 7/15/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 16 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples Disturbed 4		Undisturbed NA	Core NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First ∇ 12		Completion NA	24 HR. ∇ NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty			
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
		Light brown fine-to-coarse SAND, some gravel (TOPSOIL) (dry)		0					Start 13:40
		Tan GRAVEL, some sand (FILL) (dry)		0				133	
		Black and gray fine-to-coarse SAND, some gravel, ash, fibrous material (FILL) (dry)		1					
		Light tan sandy CLAY, some gravel, magnesia material (FILL) (moist)		2	1	PUSH	30		
		White CLAY, magnesia material (FILL) (wet)		4				134	
		Black and gray fine-to-coarse SAND, some gravel, ash (FILL) (dry)		5					
				6	2	PUSH	28		
				7					
		Light tan CLAY, magnesia material (FILL) (wet)		8				135	
				10	3	PUSH	13	136	
				12					





Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 1/24/06		Date Finished 1/24/06	
Drilling Equipment Geoprobe (Track Mounted)				Completion Depth 21.5 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 4		Undisturbed NA	Core NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ 3.5	Completion $\nabla$ NA	24 HR. $\nabla$ NA	
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty			
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BU/in	
	0	Light brown fine to coarse SAND, some gravel (TOPSOIL) (dry)	0	0					Begin at 11:30  Groundwater encountered at 3.5 feet
	0	Light tan GRAVEL, some sand (FILL) (dry)	0	0					
	0	Brown fine to coarse SAND, some gravel, fibrous material (FILL) (dry)	0	1					
	0	Light tan sandy CLAY, some gravel, magnesia material (FILL) (moist)	0	0					
	0	Black, gray and brown fine to coarse SAND, some gravel (ash) (FILL) (moist)	0	2	1	PUSH	28		
	0		0	0					
	0		0	3					
	0		0	0					
	0	Light tan sandy CLAY, some gravel, magnesia material (FILL) (moist)	0	4					
	0		0	0					
	0		0	5					
	0		0	0					
	0		0	6	2	PUSH	26		
	0		0	0					
	0		0	7					
	0		0	0					
	0		0	8					
	0	Light tan CLAY, magnesia material (FILL) (wet)	0	0					
	0		0	0					
	0		0	9					
	0		0	0					
	0		0	10	3	PUSH	20		
	0		0	0					
	0		0	11					
	0		0	0					
	0		0	12					



Project		Project No.						
Westrum Development Company		3611302						
Location		Elevation and Datum						
Former Nicolet Industries Site: Ambler, PA		NA						
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Depth Scale	Number	Type	Recov. (in)	
		Light tan CLAY (magnesia) (FILL) (wet)	12					
			0					
			0					
				13				
			0					
			0					
			0	4	PUSH	24		012
			0					
			0					
			0					
			0					
			0					
		No recovery	16					
			17					
			18	5	PUSH	0		
			19					
			20					
		Light tan CLAY, magnesia material (FILL) (wet)	20					
			21	6	PUSH	18		
			21					013
		Brown fine to coarse SAND, some gravel (wet)	21					
			22					
			23					
			24					
			25					
			26					
			27					
								Refusal at 21.5 feet at 12:05

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/18/05		Date Finished 7/18/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed 4	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First ∇ 6	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Frank Fendler		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist B/In	Env ID	
[Cross-hatched pattern]	0	Black gravelly fine-to-coarse SAND, trace silt and clay (FILL) (moist)	0	0	1	PUSH	24		189	Start 15:50
	0	Gray GRAVEL (FILL) (dry)	0	0						
	0	Gray fine-to-coarse SAND, some clay, trace gravel (FILL) (wet)	0	0						
	0	Tan CLAY, magnesia material (FILL) (moist)	0	0						
	0		0	0						
	0		0	0						
	0		0	0						
	0		0	0						
	0		0	0						
	0		0	0						
	0	Black and gray GRAVEL, ash, slag, trace fine-to-coarse SAND (FILL) (wet)	0	6	2	PUSH	25		190	
	0	Light gray CLAY, magnesia material, trace sand (FILL) (wet)	0	8						
	0	Orange-brown fine-to-coarse SAND, some gravel, trace white clay, magnesia material (FILL) (dry)	0	9						
	0	Dark gray GRAVEL, some sand and clay, slag (FILL) (wet)	0	10	3	PUSH	39		191	
	0		0	11						
	0		0	12						

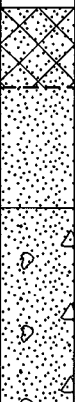
Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/ft	
		Light gray CLAY, trace sand, magnesia material (FILL) (wet)	0	12					Stop 16:05 Terminate boring at 16 feet
			0	13				192	
			Dark gray CLAY (moist)	0	14	4	PUSH	42	
			0	15					
		Red-brown fine-to-coarse SAND, some clay and gravel (moist)	0	16					
			0	17					
				18					
				19					
				20					
				21					
				22					
				23					
				24					
				25					
				26					
				27					

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 1/24/06		Date Finished 1/24/06	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples	Disturbed 4	Undisturbed NA
Casing Diameter (in) NA	Casing Depth (ft) NA		Water Level (ft.) First 4	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist Bl/In	Env ID		
		Asphalt		0						Begin at 13:00	
		Brown GRAVEL (FILL) (moist)		0							
		Gray SILT, fibrous material (FILL) (moist)		1							
		Black and gray fine to coarse SAND, some gravel, fibrous material, ash (FILL) (moist)		0							
		Light tan CLAY, magnesia material (FILL) (moist)		2	1	PUSH	20				
				0							
				0							
		Light tan CLAY, magnesia material (FILL) (moist) <span style="float: right;">▽</span>		4							Groundwater encountered at 4 feet
				0							
				5							
		Gray and white clayey GRAVEL (FILL) (moist)		6	2	PUSH	36				
		Brown and black sandy GRAVEL, ash, slag (FILL) (wet)		7				014			
				0							
		Light tan CLAY, magnesia material (FILL) (moist)		8							
				0							
				9							
				10	3	PUSH	40				
				0							
				11							
				0							
				12							

Project		Project No.								
Westrum Development Company		3611302								
Location		Elevation and Datum								
Former Nicolet Industries Site: Ambler, PA		NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (ft)	Penetr. resist. BLU/ft		Env ID
		Light tan CLAY, magnesia material (FILL) (moist)	0	12	4	PUSH	34			
		Gray fine to coarse SAND, trace silt (moist)	0	13						015
		Red-brown fine to coarse SAND, some gravel, trace silt and clay (moist)	0	14						
			0	15						
			0	16					End boring at 16 feet at 13:35	
			0	17						
			0	18						
			0	19						
			0	20						
			0	21						
			0	22						
			0	23						
			0	24						
			0	25						
			0	26						
			0	27						

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Project Westrum Development Company		Project No. 3611302	
Location Former Nicolet Industries Site: Ambler, PA		Elevation and Datum NA	
Drilling Company Terra Probe, Inc.		Date Started 5/15/05	Date Finished 5/15/05
Drilling Equipment Geoprobe (Truck Mount)		Completion Depth 10 ft	Rock Depth 10 ft
Size and Type of Bit AN		Number of Samples 3	Disturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Undisturbed NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA
Sampler 2-inch diameter / 4-foot macro core		Water Level (ft.) First NE	Completion NA
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA
		Drilling Foreman Brian Moriarty	
		Inspecting Engineer Randy Copenhaver	

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist Bl/ft	Env ID	
		Concrete		0					137	Start 14:30
		Gray GRAVEL, some sand (FILL) (dry)		0						
		Brown and black CLAY, some sand and gravel, ash (FILL) (dry)		0					138	
		Light brown mottled orange-brown CLAY (moist)		0	1	PUSH	46			
				0						
				0						
				0						
				0						
				0	2	PUSH	48			
				0						
				0						
		Red-brown fine-to-coarse SAND, some clay (moist)		0						
				0						
				0						
				0						
		Gray fine-to-coarse SAND, some gravel, sandstone fragments (moist)		0	3	PUSH	18			
				0						Stop 14:50 Refusal at 10 feet
				0						Terminate boring at 10 feet
				10						
				11						
				12						



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/21/05		Date Finished 7/21/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 6 ft		Rock Depth 6 ft
Size and Type of Bit NA			Number of Samples 2	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ NE	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/in	
	0	Concrete		0					Start 8:20
	0	Orange-brown mottled brown CLAY (moist)		0				244	
	0			1	1	PUSH	38		
	0			0					
	0			0					
	0			0					
	0	Brown fine-to-coarse SAND, trace gravel (dry)		4				245	Stop 8:30 Refusal at 6 feet
	0	Gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)		5	2	PUSH	24		
	0			6					Terminate boring at 6 feet
				7					
				8					
				9					
				10					
				11					
				12					

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/21/05		Date Finished 7/21/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 12 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/ft	
	0	Gray GRAVEL, concrete fragments (FILL) (dry)	0	0					Start 9:05
	0	Brown and gray gravelly fine-to-coarse SAND, trace silt, concrete fragments (FILL) (dry)		1				248	
	0	Black ASPHALT fragments (FILL) (dry)		2	1	PUSH	42	249	
	0	Brown fine-to-coarse SAND, some gravel, trace clay, slag, fibrous material (FILL) (dry)		3					
	0	Concrete fragments (FILL) (dry)		4				250	
	0	Brown and black fine-to-coarse SAND, some clay and gravel, slag, concrete fragments (FILL) (moist)		5					
	0	Brown mottled orange-brown CLAY (moist)		6	2	PUSH	38		
	0			7				251	
	0	Brown sandy CLAY, trace gravel (moist)		8					
	0			9					
	0	Red-brown fine-to-coarse SAND, some clay and gravel (moist)		10	3	PUSH	41		
	0			11					
0			12					Stop 9:20 Terminate boring at 12 feet	

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/21/05		Date Finished 7/21/05	
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 24 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples	Disturbed 6	Undisturbed NA
Casing Diameter (in) NA	Casing Depth (ft) NA		Water Level (ft.) First ∇ 12	Completion NA	24 HR. ∇ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (ft)	Penetr. resist. BL/in	Env ID		
	0	CONCRETE		0						Start 7:05	
	0	Gray GRAVEL, trace sand (FILL) (dry)		0					240		
	0	Gray fine-to-coarse SAND, trace gravel and silt, fibrous material (FILL) (dry)		0	1						
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)		0	2	1	PUSH	35			
	0	White gravelly CLAY, some sand, magnesia material (FILL) (moist)		0	0						
	0	Brown fine-to-coarse SAND, trace silt and gravel (FILL) (dry)		0	0						
	0	Black and gray fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)		0	3						
	0	White CLAY, magnesia material (FILL) (wet)		0	4						241
	0			0	5						
	0			0	6	2	PUSH	36			
	0	Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)		0	7						
	0	Orange-brown fine-to-coarse SAND, some clay and gravel (FILL) (moist)		0	8						
0	White clayey fine-to-coarse SAND, some gravel, magnesia material (FILL) (moist)		0	9							
0			0	10	3	PUSH	19				
0			0	11							
0			0	12							

Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
		White CLAY, magnesia material (FILL) (wet)		12					Stop 7:35  Terminate boring at 24 feet
		White, brown and gray GRAVEL, some clay and sand, magnesia material (FILL) (wet)		14	4	PUSH	32		
		White, brown and gray GRAVEL, some clay and sand, magnesia material (FILL) (wet)		16				243	
		White CLAY, magnesia material (FILL) (wet)		17					
		Dark gray CLAY (wet)		19	5	PUSH	36		
		Gray mottled brown CLAY (wet)		20					
		Gray fine-to-coarse SAND, some clay (wet)		22	6	PUSH	37		
		Red-brown fine-to-coarse SAND, some gravel, trace clay (wet)		23					
				24					
				25					
			26						
			27						

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/14/05		Date Finished 7/14/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 9.5 ft		Rock Depth 9.5 ft	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Matt Burk			
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/in	
	0	Gray, brown, and black fine-to-coarse SAND, some gravel, trace silt and clay, metal pieces, slag and concrete (FILL) (dry)	0	0				090	Start 15:10
	1	Light brown fine-to-coarse SAND, some gravel (FILL) (dry)	0	1	1	PUSH	32	091	
	2	Red-brown fine-to-coarse SAND, some clay, trace gravel (FILL) (dry)	0	2					
	3	Brown CLAY, some fine-to-coarse sand and gravel (FILL) (moist)	0	3					
	4		0	4				092	Possible petroleum odor or strong organic odor
	5		0	5					
	6		0	6	2	PUSH	13		
	7		0	7					Stop 15:25 Refusal at 9.5 feet
	8		0	8				093	
	9	Black and gray plastic or rubber-like material, some clay (FILL) (moist)	73	9	3	PUSH	12		Terminate boring at 9.5 feet
	10			10					
				11					
				12					



Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/21/05		Date Finished 7/21/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 9 ft		Rock Depth 9 ft	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ 8		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/ft	
		Brown fine-to-coarse SAND, some gravel, concrete fragments, red brick fragments, trace clay (FILL) (dry)	0	0					Start 9:40           Stop 9:50 Refusal at 9 feet  Terminate boring at 9 feet
		Gray and red-brown gravelly fine-to-coarse SAND, trace clay, slag, concrete fragments (FILL) (dry)	0	1					
		Light brown fine-to-coarse SAND, some gravel (FILL) (dry)	0	2	1	PUSH			
		Red-brown clayey fine-to-coarse SAND, some gravel, sandstone fragments (FILL) (moist)	0	4					
			0	5					
			0	6	2	PUSH			
			0	7					
			0	8					
			0	8	3	PUSH			
			0	9					
			0	10					
			0	11					
		0	12						

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/14/05		Date Finished 7/14/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 7 ft		Rock Depth 7 ft	
Size and Type of Bit NA				Number of Samples		Disturbed 2	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ 4.9		Completion NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Matt Burk			
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
	0	Light brown fine-to-coarse SAND, some gravel, concrete fragments (FILL) (dry)	0	0				094	Start 15:30
	0	Red-brown fine-to-coarse SAND, some silt and gravel (FILL) (dry)	0	1					
	0		0	2	1	PUSH	36	095	
	0	Red-brown sandy CLAY, trace gravel, (FILL) (dry)	0	3					
	0		0	4				096	
	0	Brown fine-to-coarse SAND, some gravel (FILL) (dry) Red-brown silty CLAY, some gravel, fibrous material, concrete (FILL) (moist)	0	5	2	PUSH	14		
	0	Light tan CLAY, magnesia material (FILL) (wet) Black clay (FILL) (wet)	20	6				097	
				7				Very light sheen observed. Organic odor Stop 15:50 Refusal at 7 feet	
				8				Terminate at 7 feet	
				9					
				10					
				11					
				12					



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 1/24/06		Date Finished 1/24/06	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 7 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 2	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA	Casing Depth (ft) NA		Water Level (ft.) NE	First NE	Completion NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist Bl/In	
		Brown fine to coarse SAND, some gravel, concrete (FILL) (dry)	0	0					Begin at 14:00
		Red-brown sandy CLAY, some gravel (FILL) (dry)	0	1				016	
			0	2	1	PUSH	34		
			0	3					
			Brown fine-to-coarse SAND, some gravel (FILL) (dry)	0	4				
			Red-brown silty CLAY, some gravel, fibrous material, concrete (FILL) (moist)	0	5				
			Light tan CLAY, magnesia material (FILL) (wet)	0	6				
			Black clay (FILL) (wet)	0	7	2	PUSH	15	
				0	8				
				0	9				
				0	10				
				0	11				
			0	12				Auger refusal at 7 feet at 14:15	



Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/14/05		Date Finished 7/14/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 8.5 ft		Rock Depth 8.5 ft	
Size and Type of Bit NA				Number of Samples		Disturbed 3	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ 8		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Matt Burk			
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/in	
	0	Dark gray and brown fine-to-coarse sand, some gravel, trace silt, ash, slag, metal pieces (FILL) (dry)	0	0				086	Start 14:20
	0		0	1				087	
	0		0	2	1	PUSH	42	088	
	0		0	3					
	0	Brown and white SILT, some clay and sand, trace gravel, magnesia material (FILL) (dry)	0	4				089	Stop 14:50 Refusal at 8.5 feet
	0	Red-brown fine-to-coarse SAND, some silt and gravel (dry)	0	5					
	0	Orange-brown mottled red-brown CLAY (moist)	0	6	2	PUSH	26		Terminate at 8.5 feet
	0		0	7					
	0		0	8	3	PUSH	3	NA	
	0	Brown and black CLAY, organic material, fragments of sandstone bedrock in tip (wet)	0	9					
				10					
				11					
				12					

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/14/05		Date Finished 7/14/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 12 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First ∇ NE		Completion ∇ NA	24 HR. ∇ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Matt Burk	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist Bl/ft	
	0	Concrete	0	0					Start 13:40
	0	Black and gray fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	1				082	
	0	Black and white gravelly fine-to-coarse SAND, trace clay and silt, ash, magnesia material (FILL) (dry)	0	2	1	PUSH	36		
	0	Black and gray fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	3				083	
	0	Gray-mottled black CLAY (moist)	0	4				084	
	0	Orange-brown CLAY (moist)	0	5					
	0	Gray, mottled orange-brown CLAY, trace gravel (moist)	0	6	2	PUSH	42	085	
	0	Gray, mottled orange-brown CLAY, trace gravel (moist)	0	7					
	0	Gray, mottled orange-brown CLAY, trace gravel (moist)	0	8					
	0	Gray, mottled orange-brown CLAY, trace gravel (moist)	0	9					
	0	Brown to red-brown fine-to-coarse SAND, some clay (moist)	0	10	3	PUSH	39		
	0		0	11					
	0		0	12					Stop 14:05 Terminate at 12 feet



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)		Completion Depth 3.5 ft		Rock Depth 3.5 ft	
Size and Type of Bit NA		Number of Samples Disturbed 1 Undisturbed NA		Core NA	
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE Completion $\nabla$ NA 24 HR. $\nabla$ NA	
Casing Hammer	NA	Weight (lbs)	NA	Drop (in)	NA
Sampler 2-inch diameter / 4-foot macro core			Drilling Foreman Brian Moriarty		
Casing Hammer	NA	Weight (lbs)	NA	Drop (in)	NA
Sampler Hammer			Inspecting Engineer Randy Copenhaver		

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
	0	Dark brown CLAY (TOPSOIL) (moist)	0	0				224	Start 13:00  Stop 13:05 Refusal at 3.5 feet  Terminate boring at 3.5 feet
	0	Brown CLAY, trace sand (dry)	0	1					
	0	Gray fine-to-coarse SAND, trace gravel, sandstone fragments (dry)	0	2	1	PUSH	31		
	0		0	3				225	
				4					
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/14/05		Date Finished 7/14/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 12 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First ∇ NE		Completion NA	24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Matt Burk	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BLU/in	
	0	Dark gray GRAVEL, some sand (FILL) (dry)	0	0				074	Start 11:15
	0	Orange-brown SILT, trace sand and gravel, ash (FILL) (dry)	0	1					
	0	Light tan CLAY, magnesia material (FILL) (wet)	0	2	1	PUSH	37	075	
	0	Light tan CLAY, trace gravel, magnesia material, slag (FILL) (wet)	0	3					
	0	Light tan CLAY, trace gravel, magnesia material, slag (FILL) (wet)	0	4				076	
	0	Orange-brown fine-to-coarse SAND, some silt and gravel, ash, slag (FILL) (wet)	0	5					
	0		0	6	2	PUSH	15		
	0		0	7					
	0	Gray, mottled brown CLAY (moist)	0	8				077	
	0		0	9					
	0	Red-brown fine-to-coarse SAND, some silt, trace gravel (moist)	0	10	3	PUSH	44		
	0	Gray, mottled red-brown CLAY (moist)	0						
	0	Red-brown fine-to-coarse SAND, some silt, trace gravel (moist)	0	11					
	0		0	12					Stop 11:25 Terminate boring at 12 feet

Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/14/05		Date Finished 7/14/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 12 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 3		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE	Completion $\nabla$ NA	24 HR. $\nabla$ NA	Core $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Matt Burk			
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/in	
		Asphalt		0					Start 10:45
		Gray GRAVEL, trace sand (FILL) (dry)		0				070	
		Orange, brown and black fine-to-coarse SAND, some gravel, trace clay, ash, slag (FILL) (dry)		1					
				2	1	PUSH	33		
				3					
				4					
		Gray and black gravelly CLAY, some sand, ash, magnesia material (FILL) (wet)		4					
		Orange, brown and black fine-to-coarse SAND, some gravel, trace clay, ash, slag (FILL) (dry)		5					
				6	2	PUSH	34	071	
				7					
		Light tan CLAY, some gravel, magnesia material (FILL) (wet)		7					
				8				072	
		Gray GRAVEL, some sand, trace silt (FILL) (wet)		8					
		Light tan CLAY, some gravel, magnesia material (FILL) (wet)		9					
		Gray, mottled-black CLAY, trace gravel (wet)		9				073	
				10	3	PUSH	36		
		Gray, mottled brown CLAY (moist)		10					
				11					
		Red-brown fine-to-coarse SAND, trace gravel, silt, and clay (moist)		11					
				12					

Stop 11:00  
Terminate boring at 12 feet

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/14/05		Date Finished 7/14/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ NE	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Matt Burk		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BUL/in	Env ID	
[Cross-hatched pattern]	0	Black and gray fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	0					066	Start 10:10
	0	Orange-brown fine-to-coarse SAND, trace gravel, silt, and clay, ash, slag (FILL) (dry)	0	1						
	0		0	2	1	PUSH	32		067	
	0		0	3						
	0	Brown CLAY (FILL) (moist)	0	4						
	0	Orange-brown fine-to-coarse SAND, trace gravel, silt, and clay, ash, slag (FILL) (dry)	0	5						
	0	Brown CLAY (FILL) (moist)	0	6						
	0	Orange-brown SILT, some sand, trace gravel, ash (FILL) (dry)	0	7	2	PUSH	30			
	0		0	8					068	
	0	Orange-brown and brown CLAY, trace gravel (FILL) (moist)	0	9						
[Diagonal hatched pattern]	0	Gray, mottled black CLAY, trace gravel (moist)	0	10	3	PUSH	36		069	
	0	Red-brown CLAY, some sand, trace gravel (moist)	0	11						
	0		0	12						



Project Westrum Development Company	Project No. 3611302
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Location Former Nicolet Industries Site: Ambler, PA	Elevation and Datum NA
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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/Min	Env ID		
		Red-brown fine-to-coarse SAND, some clay and gravel (moist)	0	12							
			0	13							
			0	14	4	PUSH	NA				
			0	15							
			0	16							Stop 10:30 Terminate boring at 16 feet
			0	17							
			0	18							
			0	19							
			0	20							
			0	21							
			0	22							
			0	23							
			0	24							
			0	25							
			0	26							
			0	27							

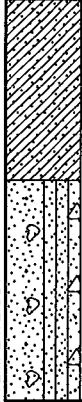
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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/14/05		Date Finished 7/14/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 16 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples Disturbed 4		Undisturbed NA	Core NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First 9.5		Completion NA	24 HR. NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Matt Burk	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
		Asphalt		0					Start 9:40
		Gray GRAVEL, some fine-to-coarse sand (FILL) (dry)							
		Brown and black fine-to-coarse SAND, trace red brick, gravel, ash (FILL) (dry)		1				062	
		Orange-brown fine-to-medium SAND (FILL) (dry)							
		Brown and black fine-to-coarse SAND, gravel, ash (FILL) (dry)		2	1	PUSH	38		
		Light tan CLAY, some fine-to-coarse sand, magnesia material (FILL) (wet)		3					
		Light tan CLAY (FILL) (magnesian material) (wet)		4					
				5				063	
				6	2	PUSH	41		
		Orange-brown and black fine-to-coarse SAND, some gravel (FILL) (moist)		7					
		Orange-brown and black fine-to-coarse SAND, some gravel, trace clay (FILL) (moist)		8				064	
		White and black sandy CLAY, trace gravel, magnesia material (FILL) (wet)		9					
		Dark gray, mottled black CLAY, trace gravel (moist)		10	3	PUSH	36	065	
				11					
				12					



Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/ft/in	
		Brown sandy CLAY (wet)	12	0					<p>Stop 9:55 Terminate boring at 16 feet</p>
		Red-brown fine-to-coarse SAND, some gravel and clay (wet)	13	0	4	PUSH	39		
			14	0					
			15	0					
			16	0					
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						
			25						
			26						
			27						

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/14/05		Date Finished 7/14/05	
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples	Disturbed 4	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First 8	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Matt Burk		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. Bl/6in		Env ID
		Black, gray, and brown fine-to-coarse SAND, some gravel, trace silt, ash (FILL) (dry)		0					Start 9:10	
		Black, gray, and brown fine-to-coarse SAND, some gravel, trace silt, ash, fibrous material (FILL) (dry)		1	1	PUSH	32			058
		Black, gray, and brown fine-to-coarse SAND, some gravel, trace silt, ash (FILL) (dry)		4						059
		Light tan CLAY, trace gravel, magnesia material (FILL) (wet)		6	2	PUSH	34			
		Black, gray, and brown fine-to-coarse SAND, some gravel, trace silt, ash (FILL) (dry)		8						060
		Light tan CLAY, magnesia material (FILL) (wet)		10	3	PUSH	21			
				11						
				12						



Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (In)	Penetr. resist. BL/ft	
		Gray fine-to-coarse SAND, some clay, trace gravel, magnesia material (FILL) (wet)	0	12	4	PUSH	29		061
		Gray, mottled black CLAY, trace gravel (wet)	0	13					
		Gray-brown fine-to-coarse SAND (wet)	0	14					
			0	15					
			0	16					Stop 9:27 Terminate boring at 16 feet
			0	17					
			0	18					
			0	19					
			0	20					
			0	21					
			0	22					
			0	23					
			0	24					
			0	25					
			0	26					
			0	27					

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 1/24/06		Date Finished 1/24/06	
Drilling Equipment Geoprobe (Track Mounted)		Completion Depth 20 ft		Rock Depth NE	
Size and Type of Bit NA		Number of Samples Disturbed 4		Undisturbed NA	
Casing Diameter (in) NA		Casing Depth (ft) NA		Core NA	
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA	
Sampler 2-inch diameter / 4-foot macro core		Water Level (ft.) First $\nabla$ 4			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA	
Drilling Foreman Brian Moriarty			Inspecting Engineer Randy Copenhaver		

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/ft	Env ID	
		Black gray and brown fine to coarse SAND, some gravel, trace silt, ash (FILL)	0	0						Begin at 9:05  Groundwater encountered at 4 feet
			0	1						
				0	2	1	PUSH	31		
				0	3					
				0	4					
			Black gray and brown fine to coarse SAND, some gravel, trace silt, ash (FILL) $\nabla$	0	4					
				0	5				005	
			Light tan CLAY, magnesia material (FILL) (wet)	0	6	2	PUSH	38		
				0	7					
				0	8					
			Light tan CLAY, magnesia material (FILL) (wet)	0	8					
				0	9					
			0	10	3	PUSH	45			
			0	11						
		Light tan sandy CLAY, trace gravel, magnesia material, fibrous material, wood (FILL) (wet)	0	11						
			0	12						



Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
		No recovery		12					Poor Recovery
				13					
				14	4	PUSH	2		
				15					
				16				006	
		Brown fine to coarse SAND, some gravel (wet)		17					
				18	5	PUSH	32		
				19					
				20					End boring at 20 feet at 9:35
				21					
				22					
				23					
				24					
				25					
				26					
				27					

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/14/05		Date Finished 7/14/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 16 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 4	Disturbed 4	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First ∇ 9.7	Completion NA	Core NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Matt Burk		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in		Env ID	
[Cross-hatched pattern]	0	Brown, black, and gray fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	0					Start 8:40		
	0						054				
	0										
	0					1	PUSH	42			
	0					2					
	0					3					
	0					4					
	0					5					
	0			White CLAY, some silt and sand, trace gravel, magnesia material (FILL) (dry)	0	5					055
	0										
	0					6	2	PUSH		18	
	0					7					
0				8							
0		Black and gray fine-to-coarse SAND, some gravel, ash, fibrous material (FILL) (moist)	0								
0								056			
0				9							
0		White and black fine-to-coarse SAND, trace gravel and clay, ash, magnesia material (FILL) (wet)	0	10	3	PUSH	26				
0											
0											
0				11							
0				12							

Project		Project No.								
Westrum Development Company		3611302								
Location		Elevation and Datum								
Former Nicolet Industries Site: Ambler, PA		NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/6in		Env ID
		Black fine-to-coarse SAND, trace gravel (FILL) (wet)	0	12	4	PUSH	42			
		Brown fine-to-coarse SAND (FILL) (wet)	0	13						057
		Gray, mottled black CLAY (moist)	0	14						
		Red-brown silty fine-to-coarse SAND, trace gravel and clay (wet)	0	15						
			0	16					Stop 9:00 Terminate boring at 16 feet	
			0	17						
			0	18						
			0	19						
			0	20						
			0	21						
			0	22						
			0	23						
			0	24						
			0	25						
			0	26						
			0	27						


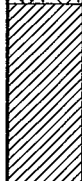
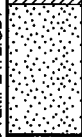
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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 1/24/06		Date Finished 1/24/06	
Drilling Equipment Geoprobe (Track Mounted)				Completion Depth 16 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples		Disturbed 4	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ 4		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty			
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BL/in	Env ID	
	0	Concrete	0	0						Begin at 9:45     Groundwater encountered at 4 feet     PID hit in wood
	1	Black, gray and brown fine to coarse SAND, some gravel, ash, slag (FILL) (moist)	0	1					007	
	2	Black, gray and brown fine to coarse SAND, some gravel, ash, slag (FILL) (moist)	0	2	1	PUSH	42			
	3	Black, gray and brown fine to coarse SAND, some gravel, ash, slag (FILL) (moist)	0	3						
	4	Black, gray and brown fine to coarse SAND, some gravel, ash, slag (FILL) (moist)	0	4						
	5	Light tan gravelly CLAY, some sand, magnesia material (FILL) (wet)	0	5						
	6	Wood (FILL)	116	6	2	PUSH	24			
	7	Black, gray and brown fine to coarse SAND, some gravel, ash, slag (FILL) (wet)	0	7						
	8	Black, gray and brown GRAVEL, some sand, ash, slag (FILL) (wet)	0	8						
	9	White CLAY, trace gravel, magnesia material (FILL) (wet)	0	9						
	10		0	10	3	PUSH	30			
	11		0	11						
	12		0	12						



Project		Project No.							
Westrum Development Company		3611302							
Location		Elevation and Datum							
Former Nicolet Industries Site: Ambler, PA		NA							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
		White CLAY, trace gravel, magnesia material (FILL) (wet)	0	12					End boring at 16 feet at 10:05
		Dark gray and black mottled CLAY (wet)	0	13				008	
				0	14	4	PUSH	38	
		Red brown fine to coarse SAND, trace gravel and clay (wet)	0	15					
			0	16					
			0	17					
			0	18					
			0	19					
			0	20					
			0	21					
			0	22					
			0	23					
			0	24					
			0	25					
			0	26					
			0	27					

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Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/21/05		Date Finished 7/21/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 8 ft		Rock Depth NE	
Size and Type of Bit NA				Number of Samples 2		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist BU/in	Env ID	
		Brown fine-to-coarse SAND, some gravel, asphalt fragments, trace clay (FILL) (dry)	0	0						Start 10:10
		Tan GRAVEL, some sand (FILL) (dry)	0	1						
		Red-brown fine-to-coarse SAND, some gravel, trace clay, sandstone fragments (FILL) (dry)	0	2	1	PUSH	44			
		Red-brown fine-to-coarse SAND, some gravel and clay, sandstone fragments (FILL) (moist)	0	3						
		Black asphalt	0	4						
		Red-brown fine-to-coarse SAND, some gravel and clay, sandstone fragments (FILL) (moist)	0	5						
		Brown fine-to-coarse SAND, some gravel and clay, slag (FILL) (moist)	0	6	2	PUSH	30			
		Gray CLAY (moist)	0	7						Stop 10:20 Refusal at 8 feet
			0	8						
				9						Terminate boring at 8 feet
				10						
				11						
				12						



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/21/05	Date Finished 7/21/05	
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 7 ft	Rock Depth NE	
Size and Type of Bit NA			Number of Samples 2	Disturbed NA	Core NA
Casing Diameter (in) NA	Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ 5	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/ft	
[Cross-hatched pattern]		Brown and gray gravelly fine-to-coarse SAND, some clay (FILL) (dry)	0	0					Start 10:25
		Tan GRAVEL (FILL) (dry)	0						
		Brown fine-to-coarse SAND, some clay and gravel (FILL) (dry)	0	1					
			0	2	1	PUSH	38		
			0	3					
			0	4					
			Gray fine-to-coarse SAND, some gravel, fibrous material (FILL) (dry)	0	4				
			Red brick (FILL) (dry)	0					
			Black GRAVEL, slag (FILL) (wet)	0	5	2	PUSH	26	
				0	6				
			0	7				Stop 10:35 Refusal at 7 feet	
				8				Terminate boring at 7 feet	
				9					
				10					
				11					
				12					



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/21/05		Date Finished 7/21/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 7 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples	Disturbed 2	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.)	First 5.8	Completion NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
[Cross-hatched pattern]	0	Brown fine-to-coarse SAND, trace gravel (FILL) (dry)		0					Start 10:45
	0	Red-brown clayey fine-to-coarse SAND, trace gravel (FILL) (dry)		0					
	0			1	PUSH	44			
	0			2					
	0	Red-brown clayey fine-to-coarse SAND, asphalt, trace gravel (FILL) (moist)		4					
	0	Brown sandy CLAY, trace gravel (FILL) (moist)		5					
	0	Gray gravelly fine-to-coarse SAND, some clay (FILL) (wet)		6	2	PUSH	30		Organic odor 6 to 7 feet
	0	Gray to black CLAY, concrete fragments (FILL) (wet)		7				009	Stop 10:50 Refusal at 7 feet
	0			8					Terminate boring at 7 feet
	0			9					
	0			10					
	0			11					

Project Westrum Development Company			Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA			
Drilling Company Terra Probe, Inc.		Date Started 7/21/05		Date Finished 7/21/05		
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 7 ft		Rock Depth NE	
Size and Type of Bit NA			Number of Samples	Disturbed 2	Undisturbed NA	
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First ▽ 4.8		Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty			
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
	0	Brown fine-to-coarse SAND, some clay, trace gravel (FILL) (dry)	0	0					Start 11:00
	1	Red-brown fine-to-coarse SAND, some clay, trace gravel (FILL) (dry)	0	1					
	2	Gray GRAVEL, concrete fragments (FILL) (dry)	0	2	1	PUSH	43		
	3	Gray GRAVEL, concrete fragments (FILL) (dry)	0	3					
	4	Gray GRAVEL, concrete fragments (FILL) (dry)	0	4					
	5	Red BRICK (FILL) (dry)	0	5					
	5	Gray GRAVEL, concrete fragments (FILL) (wet)	0	5					
	6	Black GRAVEL, concrete fragments (FILL) (wet)	0	6	2	PUSH	18		Slight organic odor
	7		0	7					Stop 11:10 Refusal at 7 feet
	8			8					Terminate boring at 7 feet
	9			9					
	10			10					
	11			11					
	12			12					



Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/20/05		Date Finished 7/20/05
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 3 ft		Rock Depth 3 ft
Size and Type of Bit NA			Number of Samples	Disturbed 1	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First NE	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (ft)	Penetr. resist. BL/in		Env ID
		Dark brown CLAY (TOPSOIL) (moist)		0					222	Start 12:15
		Orange-brown CLAY, some sand (dry)		12.2					006	
				12.5						
				24.5	1	PUSH	36			
				18.5						
		Gray fine-to-coarse SAND, some gravel, sandstone fragments (dry)		2						Stop 12:20 Refusal at 3 feet
				36.6					223	
				20.2						Terminate boring at 3 feet
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						
				11						
				12						

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 7/21/05		Date Finished 7/21/05	
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 24 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 6	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ 13.8	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Env ID	
		Brown fine-to-coarse SAND, some gravel (FILL) (dry)	0	0						Start 12:15
		Gray GRAVEL, trace sand (FILL) (dry)	0	1						
		Brown and black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	2	1	PUSH	35			
		Black and white CLAY, some gravel and sand, ash, slag, magnesia material (FILL) (wet)	0	3						
		Black fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	4						
		Light tan CLAY, trace sand and gravel, magnesia material (FILL) (wet)	0	5						
		Black and brown fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	6	2	PUSH	26			
		Red-brown fine-to-coarse SAND (FILL) (dry)	0	7						
		White clayey fine-to-coarse SAND, magnesia material, trace gravel (FILL) (moist)	0	8						
		Black and brown fine-to-coarse SAND, some gravel, ash, slag (FILL) (dry)	0	9						
		Light tan CLAY, some fine-to-coarse SAND, magnesia material (FILL) (wet)	0	10	3	PUSH	24			
		Light tan clayey fine-to-coarse SAND, magnesia material, trace gravel (FILL) (moist)	0	11						
			0	12						

Project		Project No.								
Westrum Development Company		3611302								
Location		Elevation and Datum								
Former Nicolet Industries Site: Ambler, PA		NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/ft	Env ID	
				12						
		Gray and red GRAVEL, some fine-to-coarse sand, brick fragments (FILL) (dry)		13						
		Gray GRAVEL, some fine-to-coarse SAND, ash, slag (FILL) (wet)		14	4	PUSH	24			
		Gray GRAVEL, some fine-to-coarse SAND, ash, slag (FILL) (wet)		16						
		White and black gravelly CLAY, ash, slag, magnesia material (FILL) (wet)		17						
		Dark gray CLAY (wet)		17						
		Gray CLAY (wet)		17						
		Gray fine-to-coarse SAND, some gravel and clay (wet)		20						
		Red-brown fine-to-coarse SAND, some gravel, trace clay (wet)		21						
		Dark red-brown gravelly fine-to-coarse SAND (wet)		22	6	PUSH	28			
				24						Stop 12:40
				24						Terminate boring at 24 feet
				25						
				26						
				27						

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Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 1/24/06		Date Finished 1/24/06	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 4 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples	Disturbed 1	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First 3	Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BU/in	Env ID	
	0	Asphalt		0						Begin at 10:25
		Brown and gray gravelly SAND, some gravel (FILL)								
		Black, gray and brown fine to coarse SAND, ash (FILL) (moist)								
				1	1	PUSH	42			
				3						Groundwater encountered at 3 feet
				4						End boring at 4 feet at 10:28
				5						
				6						
				7						
				8						
				9						
				10						
				11						
				12						

Project Westrum Development Company		Project No. 3611302	
Location Former Nicolet Industries Site: Ambler, PA		Elevation and Datum NA	
Drilling Company Terra Probe, Inc.		Date Started 1/24/06	Date Finished 1/24/06
Drilling Equipment Geoprobe (Track Mounted)		Completion Depth 10.5 ft	Rock Depth NE
Size and Type of Bit NA		Number of Samples 3	Disturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Undisturbed NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA
Sampler 2-inch diameter / 4-foot macro core		Water Level (ft.) First 3.5	Completion NA
Sampler Hammer NA		Weight (lbs) NA	Drop (in) NA
		Drilling Foreman George Demetriou	
		Inspecting Engineer Randy Copenhaver	

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks <small>(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)</small>
					Number	Type	Recov. (in)	Penetr. resist. BL/ft	
		Black fine to coarse SAND, some gravel, ash (FILL) (dry)	0	0					Begin at 14:50
		Black fine to coarse SAND, some gravel, ash (FILL) (dry)	0						
		Light brown sandy GRAVEL (FILL) (dry)	0	1					
		Black fine to coarse SAND, some gravel, ash (FILL) (dry)	0						
		Light brown sandy GRAVEL (FILL) (dry)	0	2	1	PUSH	40		
		Gray and brown CLAY (moist)	0						
		Red-brown fine to coarse SAND (moist)	0	3					
		Red-brown fine to coarse SAND (wet)	0	4					
		Gray CLAY, trace sand (wet)	19.9	5					
		Gray and red-brown fine to coarse SAND, trace gravel (wet)	23.1	6	2	PUSH	39		
		Gray and red-brown fine to coarse SAND, trace gravel (moist)	13.5	7					
			69.1	8					
			56.6	9					
			20.2	10	3	PUSH	26		
			64.2						
			65.5						
			228					017	
			10.9						
			9.9						
				11					Auger refusal at 10.5 feet at 15:00
				12					

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 1/24/06	Date Finished 1/24/06	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 12 ft	Rock Depth NE	
Size and Type of Bit NA			Number of Samples	Disturbed 2	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ 2.5	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BU/in	
		Dark brown fine to coarse SAND, some gravel (FILL) (dry)	0	0					Begin at 15:20
		Tan GRAVEL, some sand (FILL) (dry)	0	0					
		Black fine to coarse SAND, some gravel (FILL) (moist)	0	1					
		Red brick (FILL) (dry)	0	1					
		Tan GRAVEL, some sand (FILL) (dry)	0	2	1	PUSH	39		
		$\nabla$	0	2					
		Gray and brown CLAY (moist)	0	3					
		Gray and red-brown fine to coarse SAND, trace silt and clay (moist)	0	4					
			2.1	4					
			0	4					
			50.3	5					
			27.7	5					
			16.0	6	2	PUSH	40		
			20.9	6					
			580	7					
			2000	7					
			2000	8					
				8					
				9					
				10					
				11					
				12					

Groundwater encountered at 2.5 feet

End boring at 8 feet at 15:25 and move to different location due to escalated PID readings

Project Westrum Development Company			Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA			
Drilling Company Terra Probe, Inc.		Date Started 1/24/06		Date Finished 1/24/06		
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 11 ft		Rock Depth NE	
Size and Type of Bit NA			Number of Samples	Disturbed 3	Undisturbed NA	
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First 3		Completion NA	24 HR. NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty			
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
	0	Asphalt		0					Begin at 15:30  Groundwater encountered at 3 feet
	0	Brown and gray GRAVEL, some fine to coarse sand (FILL) (dry)		0					
	0	Black fine to coarse SAND, some gravel, ash (FILL)		1					
	0	Brown and gray CLAY, trace sand (wet)		2	1	PUSH	35		
	0			3					
	0			4				018	
	612	Red-brown and gray fine to coarse SAND, trace silt and clay (wet)		5					
	152			6	2	PUSH	40		
	70.8			7					
	49.9			8					
	44.6	Red-brown and gray fine to coarse SAND, trace silt and clay (wet)		9					
	329	Brown and gray fine to coarse SAND, some gravel (moist)		10	3	PUSH	36		
	69.3			11					
	39.6			12					
	6.0								
	315								
	142								
	49.8								
	10.2								
	2.4								
									Auger refusal at 11 feet at 15:45

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.		Date Started 1/25/06		Date Finished 1/25/06	
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 12 ft		Rock Depth NE
Size and Type of Bit NA			Number of Samples 3	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ 2.1	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman George Demetriou		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/6in	
	0	Black and gray fine to coarse SAND, some gravel (FILL) (dry)	0	0					Begin at 8:10  Groundwater encountered at 2.1 feet
	0	Tan GRAVEL, some sand (FILL) (dry)	0	1					
	0	Black GRAVEL, some sand, ash (FILL) (moist to wet)	0	0					
	0	$\nabla$ Gray and brown CLAY (wet)	0	2	1	PUSH	34		
	0	Gray and brown CLAY (wet)	0	3					
	0	Gray and brown CLAY (wet)	0	4					
	0	Brown fine to coarse SAND, trace clay and silt (wet)	0	5					
	24.4	Brown and gray fine to coarse SAND (wet)	13.8	6	2	PUSH	38		
	3.6		4.8	7				019	
	36.6	Brown and gray fine to coarse SAND (wet)	4.8	8					
	4.8		0	9					
	4.8		0	10	3	PUSH	21		
	0	Red CLAY, some sand, trace gravel (wet)	0	11					
	0		0	12					End boring at 12 feet at 8:25

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 1/25/06		Date Finished 1/25/06
Drilling Equipment Geoprobe (Track Mounted)			Completion Depth 12 ft		Rock Depth 12 ft
Size and Type of Bit NA			Number of Samples 3		Disturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ 2.5		Undisturbed NA
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Completion NA	
Sampler 2-inch diameter / 4-foot macro core			Drilling Foreman George Demetriou		
Sampler Hammer NA			Inspecting Engineer Randy Copenhaver		

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BU/6in	
		Asphalt		0					
		Black and gray fine to coarse SAND, some gravel (FILL) (dry)		0					Begin at 8:45
		Tan GRAVEL, some sand (FILL) (dry)		0					
		Brown CLAY (FILL) (moist)		0					
		Black fine to coarse SAND, some gravel, ash (FILL) (moist)		0					
		Brown CLAY (moist to wet)		0	1	PUSH	33		Groundwater encountered at 2.5 feet
				0					
				0					
				0					
				0					
		Brown and gray CLAY (wet)		0					
				50.9					
				28.2					
				39.1	2	PUSH	41		
				4.2					
				0.3					
				0.5					
				1.9					
		Red CLAY (wet)		8					
				34.1					
				1006				020	
		Red CLAY, some fine to coarse sand, some silt, trace fine gravel (moist)		9					
				26.2					
				6.0					
		Red CLAY, trace fine sand, trace silt, weathered bedrock (wet)		10	3	PUSH	41		
				0					
				0					
				0					
				0					End boring at 12 feet at 9:15



Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Truck Mount)				Completion Depth 4.5 ft		Rock Depth 4.5 ft	
Size and Type of Bit NA				Number of Samples 2		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (ft)	Penetr. resist. BL/in	Env ID	
		Dark brown CLAY (TOPSOIL) (moist)		0						Start 12:45
		Brown CLAY (dry)		0						No odors
		Brown CLAY, trace sand (dry)		0	1	PUSH	45			
		Gray fine-to-coarse SAND, some gravel, sandstone fragments (dry)		0	2					
		Gray fine-to-coarse SAND, some gravel, sandstone fragments (dry)		0	3					
		Gray fine-to-coarse SAND, some gravel, sandstone fragments (dry)		0	4					Stop 12:50 Refusal at 4.5 feet
				0	2	PUSH	5	NA		Terminate boring at 4.5 feet
				5						
				6						
				7						
				8						
				9						
				10						
				11						
				12						

Project Westrum Development Company			Project No. 3611302		
Location Former Nicolet Industries Site: Ambler, PA			Elevation and Datum NA		
Drilling Company Terra Probe, Inc.			Date Started 7/20/05		Date Finished 7/20/05
Drilling Equipment Geoprobe (Truck Mount)			Completion Depth 7.5 ft		Rock Depth 7.5 ft
Size and Type of Bit NA			Number of Samples 2	Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA	Water Level (ft.) First $\nabla$ NE	Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA	Weight (lbs) NA	Drop (in) NA	Drilling Foreman Brian Moriarty		
Sampler 2-inch diameter / 4-foot macro core			Inspecting Engineer Randy Copenhaver		
Sampler Hammer NA	Weight (lbs) NA	Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BU/in	
		Orange, brown and dark brown CLAY (TOPSOIL) (moist)	0	0					Start 12:52
		Orange-brown CLAY (dry)	0	1					
		Orange-brown CLAY, trace sand (dry)	0	2	1	PUSH	44		
		Gray fine-to-coarse SAND, trace gravel and clay, sandstone fragments (dry)	0	3					
		Gray fine-to-coarse SAND, trace gravel and clay, sandstone fragments (dry)	0	4					Stop 12:57 Refusal at 7.5 feet
			0	5					
			0	6	2	PUSH			
			0	7					
				8					Terminate boring at 7.5 feet
				9					
				10					
				11					
				12					













Project Westrum Development Company				Project No. 3611302			
Location Former Nicolet Industries Site: Ambler, PA				Elevation and Datum NA			
Drilling Company Terra Probe, Inc.				Date Started 7/20/05		Date Finished 7/20/05	
Drilling Equipment Geoprobe (Track Mounted)				Completion Depth 7.5 ft		Rock Depth 7.5 ft	
Size and Type of Bit NA				Number of Samples 2		Disturbed NA	Undisturbed NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First $\nabla$ NE		Completion $\nabla$ NA	24 HR. $\nabla$ NA
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Drilling Foreman Brian Moriarty	
Sampler 2-inch diameter / 4-foot macro core				Inspecting Engineer Randy Copenhaver			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist BU/in		Env ID
	0	Dark brown CLAY (TOPSOIL) (moist)	0	0					220	Start 12:00
	0	Brown CLAY (moist)	0	1						
	0	Orange-brown CLAY (moist)	0	2	1	PUSH	48			
	0	Orange-brown mottled gray CLAY (dry)	0	3						
	0	Orange-brown mottled gray CLAY (dry)	0	4					221	
	0	Brown fine-to-coarse SAND, trace gravel and silt (dry)	0	5						
	0	White quartz GRAVEL (dry)	0	6	2	PUSH	42			
	0	Red-brown fine-to-coarse SAND, some clay and gravel (dry)	0	7						Stop 12:05 Refusal at 7.5 feet
				8						Terminate boring at 7.5 feet
				9						
				10						
				11						
				12						

BORING NO.	<u>B-1</u>
SHEET	<u>1</u> OF <u>2</u>
DATE: START	<u>2/26/13</u>
END	<u>2/26/13</u>
SURFACE ELEV. (FT)	<u>188.0</u>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 13.4; 10' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 22.0' ; WATER: DEPTH: 19.0' TIME: .25 HR DATE: 2/26/2013  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: 10.0' TIME: 24 HR DATE: 2/27/2013  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION		REMARKS		
									DEPTH	ELEVATION			
0.0	S-1	3	1.6'	-	ML	M			0.0	188.0	Surface: building rubble and low shrubs		
2.0		5							7	7		6.0	182.0
4.0		7							7	14		13	6.0
6.0	S-2	7	1.2'	-	ML	M			6.0	182.0	Moderate auger deflection		
8.0		7							7	14		13	6.0
10.0	S-3	11	1.1'	-	ML	M			10.0	176.0	Stone in spoon from 8' - 10'		
12.0		11							14	19		12.0	176.0
14.0	S-4	3	0.1'	-	SM	M			14.0	175.0	Hard drilling @ 12'		
16.0		7							2	2		16.0	175.0
18.0	S-5	9	0.0'	-	SM	M			18.0	175.0	Easy drilling @ 14'		
20.0		7							4	3		20.0	175.0
22.0	S-6	4	0.4'	-	SM	M			22.0	175.0	Hard drilling @ 18'		
24.0		2							8	14		24.0	175.0
26.0	S-7	5	1.1'	-	SM	M			26.0	175.0	Easy drilling @ 14'		
28.0		8							50/4	50/4		28.0	175.0
30.0	S-8	49	0.4'	-	SM	W			30.0	175.0	Easy drilling @ 14'		
32.0		50/1							50/1	50/1		32.0	175.0

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	<u>B-1</u>
SHEET	<u>2</u> OF <u>2</u>
DATE: START	<u>2/26/13</u>
END	<u>2/26/13</u>
SURFACE ELEV. (FT)	<u>188.0</u>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 13.4'; 10' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 22.0' ; WATER: DEPTH: 19.0' TIME: .25 HR DATE: 2/26/2013  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: 10.0' TIME: 24 HR DATE: 2/27/2013  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	RQD (%)	USCS	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION	REMARKS
										Sandy silt to silty sand, trace gravel (Weathered Rock) (continued)	
22.0										22.0	166.0
22.0	S-9	50/0						NA		End of Boring	Auger Refusal @ 22'

\*\* D = DRY, M = MOIST, W = WET

BORING NO.	<u>B-10</u>
SHEET	<u>1</u> OF <u>1</u>
DATE: START	<u>2/28/13</u>
END	<u>2/28/13</u>
SURFACE ELEV. (FT)	<u>180.0</u>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 9.3'; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 14.3' ; WATER: DEPTH: 5.5' TIME: .25 HR DATE: 2/28/2013  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	USCS FQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
									0.4	179.6	Concrete slab (5")	
2.0											Silty sand, trace fine gravel, brown (Demolition Fill)	
4.0	S-1	10 14 12 10	1.6'	-	SM		M		3.0	177.0	Silt and fine sand, trace fine gravel, red-gray (Residual)	
6.0	S-2	7 7 8	2.0'	-	SM		M		5.5	174.5	Silty Sand, red gray (Weathered Rock)	
7.7	S-3	21 26 46	1.7'	-	SM		M					
8.9	S-4	50/2 37	0.5'	-	SM		M					
9.0	S-5	50/4	0.3'	-	SM		M					
9.3		50/3										
14.0												
14.3	S-6	50/3	0.2'	-	SM		M		14.3	165.7	End of Boring	Spoon refusal @ 14.3'

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	B-11
SHEET	1 OF 1
DATE: START	2/28/13
END	2/28/13
SURFACE ELEV. (FT)	180.0

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 12'; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA; AUGER DEPTH: 18.5'; WATER: DEPTH: 5.0' TIME: .25 HR DATE: 2/28/2013  
 CHECKED BY: T. Carlin; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	USCS	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION		REMARKS
									DEPTH	ELEVATION	
									0.4	Concrete slab (5")	179.6
2.0	S-1	4 3 3	2.0'	-	CL	M				Silty clay, trace fine sand, gray (Residual)	2.0 tsf unconfined
4.0	S-2	3 4 6 7	2.0'	-	ML	M			4.0	Silt, little fine sand, light brown to gray (Residual)	176.0
6.0	S-3	9 9 9	2.0'	-	ML	M					
8.0	S-4	6 9 13 12	2.0'	-	SM	M			8.0	Fine to coarse sand with silt and fine to medium gravel, red brown (Residual)	172.0
10.0	S-5	6 8 14 21	2.0'	-	SM	W					
12.0									11.5	Silty sand trace fine gravel, gray (Weathered Rock)	168.5
14.0											
14.2	S-6	50/2	0.1'	-	SM	W					
									18.5	End of Boring	161.5
											Auger Refusal @18.5'

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	B-12
SHEET	1 OF 1
DATE: START	3/1/13
END	3/1/13
SURFACE ELEV. (FT)	180.0

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 12'; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 16.0' ; WATER: DEPTH: 4.0' TIME: .25 HR DATE: 3/1/2013  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft)	RECOVERY (%)		USCS	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION	REMARKS
				RQD (%)							
										DEPTH 0.4 Concrete (5") ELEVATION 179.6	
2.0	S-1	2 2 2	2.0'	-		ML		M		Clayey silt, trace fine sand, light brown (Residual)	Shelby tube 4' - 6' in offset boring
4.0	S-2	1 1 2	2.0'	-		ML/CL		M			
6.0	S-3	5 5 6 7	2.0'	-		ML/CL		M			
8.0	S-4	2 7 10 12	1.7'	-		SM		M		8.5 Fine to coarse sand, little silt, little fine to medium gravel, red-brown (Residual) 171.5	
10.0	S-5	3 6 10 15	2.0'	-		SM		W			
12.0										12.0 Fine to coarse sand, trace silt, trace fine gravel (Weathered Rock) 168.0	
14.0											
14.4	S-6	50/5	0.4'	-		SM		W			
										16.0 End of Boring 164.0	Auger Refusal @16'

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	<u>B-2</u>
SHEET	<u>1</u> OF <u>2</u>
DATE: START	<u>2/26/13</u>
END	<u>2/26/13</u>
SURFACE ELEV. (FT)	<u>189.0</u>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 12'; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 23.0' ; WATER: DEPTH: 10.0' TIME: .25 HR DATE: 2/27/2013  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: 11.0' TIME: 24 HR DATE: 2/27/2013  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY(%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
0.0		2										
	S-1	4 9 11	1.3'	-	ML/CL		M				Silty clay, little sand, construction debris, dark brown (Demolition Fill)	Moderate drilling @ 0'
2.0									2.0	187.0		
	S-2	11 30 19 22	1.5'	-	ML		M				Sandy silt, little fine gravel, light gray to light brown (Demolition Fill)	
4.0												
	S-3	9 12 12 15	2.0'	-	ML		M					
6.0												
	S-4	20 12 30 17	1.8'	-	SM		M					
8.0									8.0	181.0		
	S-5	8 18 16 10	1.6'	-	SM		M				Construction debris, brick fragments (Demolition Fill)	
10.0												
	S-6	18 10 9 8	1.0'	-	SM		M					
12.0												
14.0									14.0	175.0		
	S-7	9 10 13 14	1.4'	-	SM		M				Silty sand, trace fine gravel, dark brown (Alluvial)	
16.0												
19.0									19.0	170.0		
		2 9			ML		M				Micaceous sandy silt, red-brown (Residual)	

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

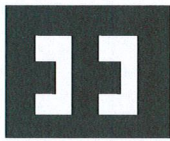
BORING NO.	<u>B-2</u>
SHEET	<u>2</u> OF <u>2</u>
DATE: START	<u>2/26/13</u>
END	<u>2/26/13</u>
SURFACE	
ELEV. (FT)	<u>189.0</u>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 12; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 23.0' ; WATER: DEPTH: 10.0' TIME: .25 HR DATE: 2/27/2013  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: 11.0' TIME: 24 HR DATE: 2/27/2013  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	RQD (%)	USCS AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION		REMARKS
									DEPTH	ELEVATION	
21.0	S-8	10 12	2.0'			ML			21.0	Micaceous sandy silt, red-brown (Residual) (continued)	Hard drilling @ 21'
									23.0	End of Boring	Auger Refusal @ 21'
									166.0		

\*\* D = DRY, M = MOIST, W = WET





**EARTH ENGINEERING INCORPORATED**  
Geotechnical Engineers & Geologists

# BORING LOG

BORING NO.	<b>B-3</b>
SHEET	<b>1</b> OF <b>1</b>
DATE: START	<b>2/26/13</b>
END	<b>2/26/13</b>
SURFACE ELEV. (FT)	<b>189.0</b>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 16'; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 19.5' ; WATER: DEPTH: 11.0' TIME: 24 HR DATE: 2/27/2013  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED










DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (FT.)	RECOVERY (%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION	REMARKS
									DEPTH	ELEVATION
0.0	S-1	2 6 21 19	1.2'	-	SM	M			Silty sand little construction debris and cinders; dark brown (Demolition Fill)	Surface: scattered construction debris
2.0	S-2	10 22 50/2	0.6'	-	SM	M				
3.2										Hard drilling @ 4'
4.0	S-3	10 5 5 7	1.5'	-	SM	M				Easy drilling @ 5'
6.0	S-4	7 17 10 5	0.5'	-	SM	M				
8.0	S-5	50/3	0.1'	-	SM	D				
8.5										
10.0										
11.0	S-6	20 4 2 1	1.6'	-	ML	M			Silt, little fine sand, trace organics; dark brown (Alluvial)	178.0
12.0										
13.0	S-7	1 2 4 6	1.8'	-	ML	M			Clayey silt little fine sand, gray to reddish brown (Alluvial)	176.0
14.0										3.0 tsf unconfined
15.0	S-8	13 18 21 24	1.5'	-	SM	M			Fine to coarse sand trace silt, reddish brown (Residual)	174.0
16.0										
18.0										Hard drilling @ 18'
18.0										
19.0										
19.0	S-9	50/2	0.2'	-	SM	NA			Silty sand to sandy silt, trace gravel (Weathered Rock)	171.0
19.2										
19.2										Auger Refusal @ 19.5'
19.2									End of Boring	169.5

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	<b>B-4</b>
SHEET	<b>1</b> OF <b>2</b>
DATE: START	<b>2/26/13</b>
END	<b>2/26/13</b>
SURFACE ELEV. (FT)	<b>194.0</b>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 13.5' ; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 34.6' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	USCS	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
0.0	S-1	6	1.6'	-			M				Sandy silt some fine gravel, black and dark brown (Demolition Fill)	
0.5		7										
1.0		18										
1.5		14										
2.0	S-2	9	0.6'	-	ML		M					
2.5		8										
3.0		4										
4.0	S-3	3	1.0'	-	ML		M		5.0	189.0	clayey silt, white to grey (Magnesia Fill)	
4.5		2										
5.0		1										
6.0	S-4	3	0.5'	-	ML		M		7.0	187.0	Fine to coarse sand little silt, gray-brown (Magnesia Fill)	
6.5		4										
7.0		3										
8.0	S-5	3	1.0'	-	ML		M		8.0	186.0	Clayey silt, white to gray (Magnesia Fill)	
8.5		1										
9.0		1										
10.0	S-6	2	2.0'	-	ML		M					
10.5		3										
11.0		1										
12.0	US-1	Push	1.5'	-			NA				Shelby tube 12' - 13.5'	0 tsf unconfined
13.5												
15.5	S-7	1	1.6'	-	ML		M					
16.0		2										
16.5		1										
19.0		5			ML		M					
20.0		5										

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	<u>B-4</u>
SHEET	<u>2</u> OF <u>2</u>
DATE: START	<u>2/26/13</u>
END	<u>2/26/13</u>
SURFACE ELEV. (FT)	<u>194.0</u>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 13.5' ; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 34.6' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
21.0	S-8	14 16	2.0'		ML		M		21.0	173.0	Organic silt, trace fine sand, dark grey to brown (Remnant Topsoil)	2.0 tsf unconfined
24.0											Fine to coarse sand, trace silt, reddish brown (Residual)	
26.0	S-9	7 11 11 14	1.7'		SM		M					
29.0									29.0	165.0		
31.0	S-10	5 7 8 9	0.9'		ML		M				Sandy silt trace gravel, dark red (Weathered Rock)	
34.0												
34.6	S-11	15 50/1	0.4'		ML		M		34.6	159.4	End of Boring	Auger Refusal @ 34.6'

\*\* D = DRY, M = MOIST, W = WET

BORING NO.	<u>B-5</u>
SHEET	<u>1</u> OF <u>2</u>
DATE: START	<u>2/27/13</u>
END	<u>2/27/13</u>
SURFACE ELEV. (FT)	<u>194.0</u>

PROJECT NAME Ambler Crossings Residential

PROJECT LOCATION Ambler, PA

PROJECT NUMBER 26014.00

INSPECTOR NAME D. McGuire

EQUIPMENT USED CME 75 truck rig (Auto Hammer)











DRILLER NAME/COMPANY J. Blemings/UTD

DRILLING METHODS Continuous 2" SS to 26" ; 5' intervals thereafter

AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 38.5' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
0.0	S-1	4	1.8'	-	SM	M			0.0	194.0	Sand with ash and cinders, dark gray to black (Demolition Fill)	
0.5		8							0.5	188.0		
1.0		10							1.0	182.0		
2.0	S-2	50/4	0.1'	-	SM	M			2.0	192.0		
2.3		50/4							2.3	189.7		
4.0	S-3	6	0.8'	-	SM	M			4.0	190.0		
4.5		6							4.5	189.5		
5.0		4							5.0	189.0		
6.0	S-4	7	0.5'	-	ML	M			6.0	188.0	Silt with cinders and fine gravel, light gray to light brown and white (Magnesia Fill)	
6.5		3							6.5	187.5		
7.0		2							7.0	187.0		
8.0	S-5	4	1.0'	-	ML	M			8.0	186.0		
8.5		4							8.5	185.5		
9.0		1							9.0	185.0		
10.0	S-6	1	1.6'	-	ML	M			10.0	184.0	Clayey silt, white (Magnesia Fill)	0 tsf unconfined
10.5		1							10.5	183.5		
11.0		1							11.0	183.0		
12.0	S-7	WOH/24"	1.0'	-	ML	M			12.0	182.0	Silt with cinders and fine gravel, light gray to light brown and white (Magnesia Fill)	0 tsf unconfined
12.5		WOH/24"							12.5	181.5		
13.0		1							13.0	181.0		
14.0	S-8	10	0.9'	-	ML	M			14.0	180.0		
14.5		10							14.5	179.5		
15.0		1							15.0	179.0		
16.0	S-9	1	0.6'	-	ML	M			16.0	178.0		
16.5		1							16.5	177.5		
17.0		1							17.0	177.0		
18.0	US-1	Push	1.5'	-	ML	NA			18.0	176.0		
18.5		Push							18.5	175.5		
19.0		Push							19.0	175.0		
20.0									20.0	174.0		

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	<u>B-5</u>
SHEET	<u>2</u> OF <u>2</u>
DATE: START	<u>2/27/13</u>
END	<u>2/27/13</u>
SURFACE ELEV. (FT)	<u>194.0</u>






















PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 26' ; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 38.5' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY(%)	RQD (%)	USCS	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION		REMARKS
										DEPTH	ELEVATION	
										21.0	Silt with cinders and fine gravel, light gray to light brown and white (Magnesia Fill) (continued)	173.0
22.0	S-10	WOH/24"	1.6'	-	-	ML	M				Organic silt, trace fine sand, black to dark grey (Remnant Topsoil)	
		2				SM	M			22.5		171.5
24.0	S-11	6 4	0.4'	-	-	SM	M				Silty sand trace gravel, dark brown to red brown (Alluvial)	
26.0	S-12	10 17 27	1.0'	-	-	SM	M					
29.0												
31.0	S-13	38 32 10 10	2.0'	-	-	ML	M			30.0	Sandy silt, dark brown to red brown (Residual)	164.0
34.0												
36.0	S-14	13 17 18 19	1.7'	-	-	ML	M					
										38.5	End of Boring	155.5
												Auger Refusal @ 38.5'

\*\* D = DRY, M = MOIST, W = WET

BORING NO.	<u>B-6</u>
SHEET	<u>1</u> OF <u>2</u>
DATE: START	<u>2/27/13</u>
END	<u>2/27/13</u>
SURFACE ELEV. (FT)	<u>193.0</u>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 18'; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 29.5' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
0.0		4				ML			0.0	193.0	Silt with cinders, black (Demolition Fill)	
1.5	S-1	4	1.5'	-		M			1.5	191.5	Clayey silt, white, waste material (Magnesia Fill)	
2.0		5				M						
4.0	S-2	4	1.5'	-		M						
4.0		3				M						
6.0	S-3	3	1.2'	-		M			5.0	188.0	Clayey silt with cinders, white, (Magnesia Fill)	
6.0		2				M						
8.0	S-4	3	1.6'	-		M						
8.0		2				M						
10.0	S-5	4	1.2'	-		M						
10.0		1				M						
12.0	S-6	6	1.4'	-		M						
12.0		4				M						
14.0	S-7	7	1.8'	-		M						
14.0		20				M						
16.0	S-8	3	2.0'	-		M						
16.0		1				M						
18.0	S-9	2	1.9'	-		M			17.0	176.0	Organic silt, dark gray (Remnant Topsoil)	
18.0		1				M						
19.0		3				M			19.0	174.0	Silt with fine sand, trace organics, gray (Residual)	
19.0		5				M						

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG


BORING NO.	<b>B-6</b>
SHEET	<b>2</b> OF <b>2</b>
DATE: START	<b>2/27/13</b>
END	<b>2/27/13</b>
SURFACE ELEV. (FT)	<b>193.0</b>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 18' ; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 29.5' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	RQD (%)	USCS	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION	REMARKS
21.0	S-10	6 9	2.0'			ML		M		Silt with fine sand, trace organics, gray (Residual) (continued)	
24.0										24.0	169.0
26.0	S-11	17 27 35 40	2.0'			SM		M		Sandy silt trace gravel, gray (Weathered Rock)	
29.0											
29.4	S-12	50/5	0.3'			SM		M		29.5	163.5
										End of Boring	Spoon refusal @ 29.4' Auger Refusal @ 29.4'

\*\* D = DRY, M = MOIST, W = WET

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 12'; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 29.5' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS	
0.0	S-1	9	1.5'	-	ML	M			0.0	180.0	Silt and brick fragments, dark brown (Demolition Fill)	Surface: scattered construction debris	
2.0	S-2	7	1.9'	-	ML	M			2.0				
4.0	S-3	3	1.0'	-	ML	M			4.0				
6.0	S-4	2	0.8'	-	ML	M			6.0				
8.0	S-5	2	0.6'	-	ML	M			8.0				
10.0	S-6	7	1.2'	-	SM	M			10.0	180.0	Sand with crushed concrete and rock fragments (Demolition Fill)		
12.0									12.0				
14.0	S-7	7	1.0'	-	ML	M			14.0	176.0	Organic silt little gravel, dark gray (Remnant Topsoil)		
16.0									15.0	175.0	Silty sand little fine to medium gravel, brown to reddish brown (Alluvial)		
19.0									19.0				
		8			SM	M							
		9											

\*\* D = DRY, M = MOIST, W = WET



# BORING LOG

BORING NO.	<b>B-7</b>
SHEET	<b>2</b> OF <b>2</b>
DATE: START	<b>2/27/13</b>
END	<b>2/27/13</b>
SURFACE ELEV. (FT)	<b>190.0</b>

PROJECT NAME Ambler Crossings Residential

PROJECT LOCATION Ambler, PA

PROJECT NUMBER 26014.00

INSPECTOR NAME D. McGuire

EQUIPMENT USED CME 75 truck rig (Auto Hammer)

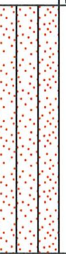
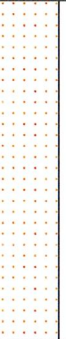
DRILLER NAME/COMPANY J. Blemings/UTD

DRILLING METHODS Continuous 2" SS to 12' ; 5' intervals thereafter

AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 29.5' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_


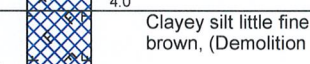
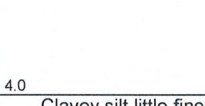
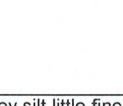

NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY(%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION		REMARKS	
									DEPTH	ELEVATION		
21.0	S-8	14 15	0.6'		SM		M		21.0	166.0	Silty sand little fine to medium gravel, brown to reddish brown (Alluvial) (continued)	
24.0									24.0	166.0		
24.3	S-9	50/3	0.1'		SM		M		24.3		Silty sand and gravel, reddish grey, (Weathered Rock)	Hard drilling @ 24'
29.0												
29.4	S-10	50/5	0.0'				NA		29.4	160.5	End of Boring	Auger Refusal 29.5'

\*\* D = DRY, M = MOIST, W = WET

BORING NO.	<b>B-8</b>
SHEET	<b>1</b> OF <b>2</b>
DATE: START	<b>2/28/13</b>
END	<b>2/28/13</b>
SURFACE ELEV. (FT)	<b>189.0</b>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 16'; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 30.4' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY(%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
0.0	S-1	4	1.2'	-	ML	M			0.0	189.0	Sandy silt with construction debris and brick fragments, dark brown (Demolition Fill)	
2.0		7							2.0			
2.0	S-2	5	0.2'	-	ML	M			4.0	185.0	Clayey silt little fine sand trace gravel, brown, (Demolition Fill)	1.5 tsf unconfined
4.0		18							4.0			
4.0	S-3	1	1.0'	-	ML	M			6.0		Clayey silt little fine sand trace gravel, brown, (Demolition Fill)	
6.0		1							6.0			
6.0	S-4	2	1.2'	-	ML	M			8.0		Clayey silt little fine sand trace gravel, brown, (Demolition Fill)	
8.0		2							8.0			
8.0	S-5	2	1.4'	-	ML	M			8.5	180.5	Silty clay and cinders, dark gray (Magnesia Fill)	
8.5		3							8.5			
8.5	S-6	4	1.0'	-	ML	M			10.0		Silty clay and cinders, dark gray (Magnesia Fill)	
10.0		2							10.0			
10.0	S-7	4	0.8'	-	ML	M			12.0		Silty clay and cinders, dark gray (Magnesia Fill)	
12.0		4							12.0			
12.0	S-8	5	1.1'	-	ML	M			14.0	175.0	Silty sand trace gravel, brown (Residual)	
14.0		2							14.0			
14.0	S-8	7	1.1'	-	ML	M			16.0		Silty sand trace gravel, brown (Residual)	
16.0		8							16.0			
16.0	S-8	8	1.1'	-	ML	M			19.0	170.0	Silty sand, trace gravel, reddish gray (Weathered Rock)	
19.0		8							19.0			
19.0	S-8	18	1.1'	-	SM	M			19.0	170.0	Silty sand, trace gravel, reddish gray (Weathered Rock)	
19.0		30							19.0			

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	<u>B-8</u>
SHEET	<u>2</u> OF <u>2</u>
DATE: START	<u>2/28/13</u>
END	<u>2/28/13</u>
SURFACE ELEV. (FT)	<u>189.0</u>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 16' ; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 30.4' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

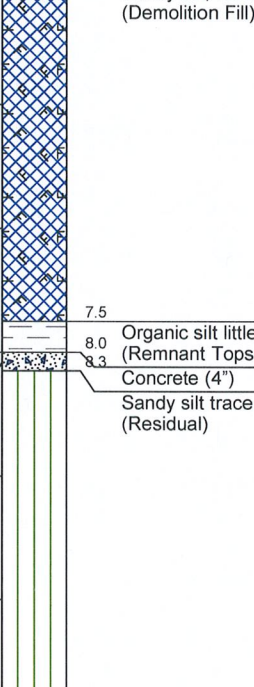
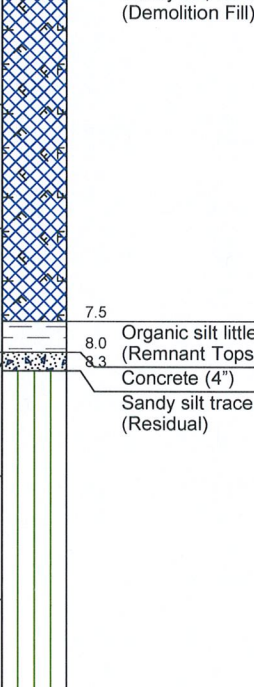
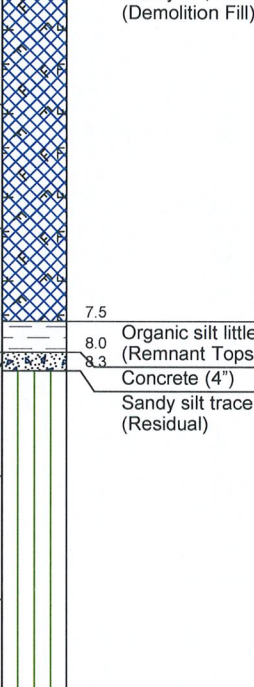
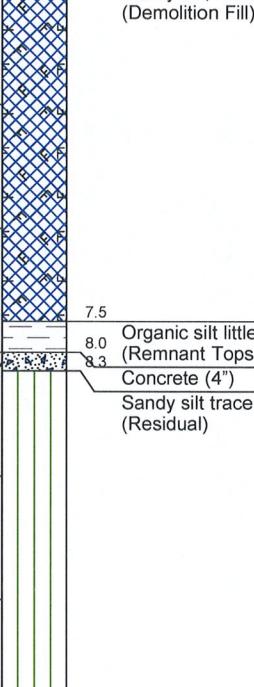
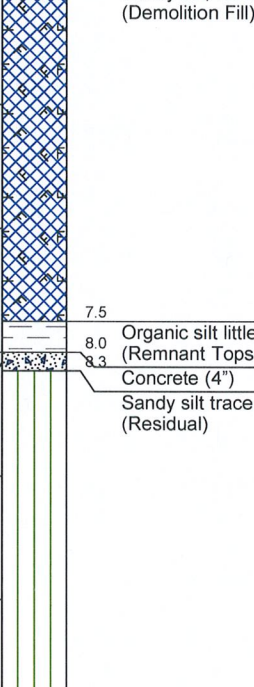
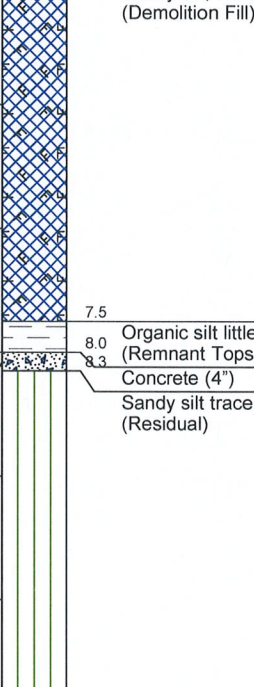
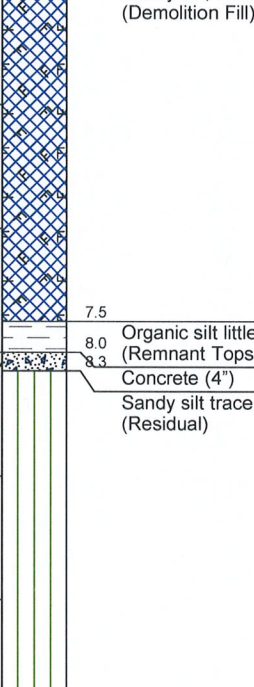
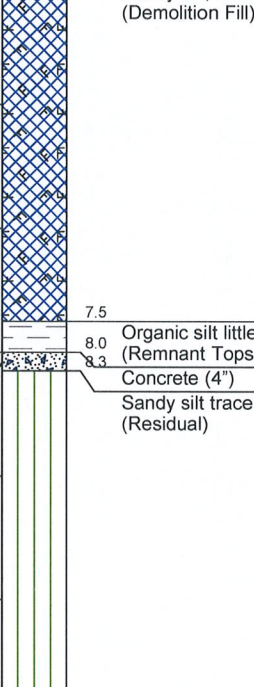
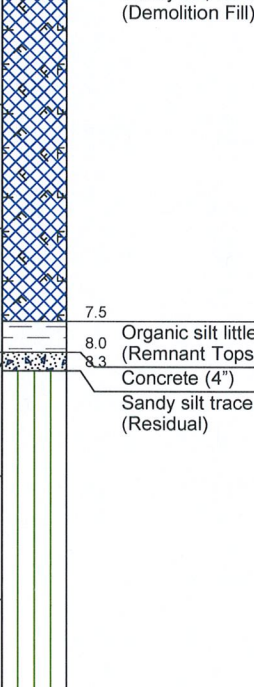
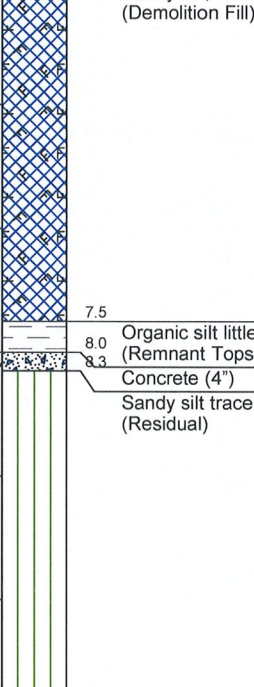
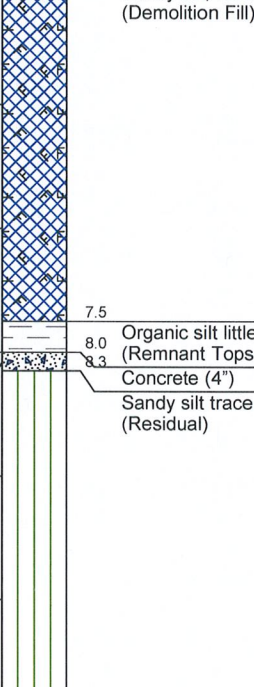
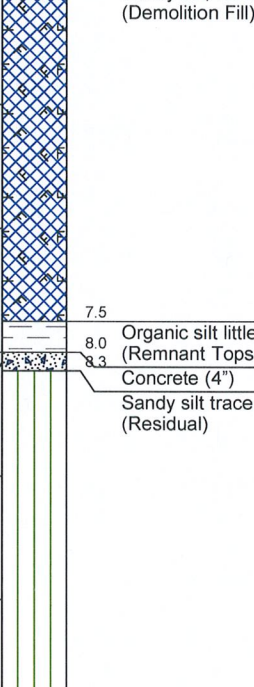
DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	RQD (%)	USCS AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
21.0	S-9	27 35	2.0'			SM	M				Silty sand, trace gravel, reddish gray (Weathered Rock) (continued)	
24.0												
24.8	S-10	24 50/3	0.6'	-		SM	M					
29.0												
30.4	S-11	20 30 50/5	0.4'	-		SM	M		30.4	158.6	End of Boring	Spoon refusal @ 30.4'

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	<u>B-9</u>
SHEET	<u>1</u> OF <u>1</u>
DATE: START	<u>2/28/13</u>
END	<u>2/28/13</u>
SURFACE ELEV. (FT)	<u>188.0</u>

PROJECT NAME Ambler Crossings Residential PROJECT LOCATION Ambler, PA  
 PROJECT NUMBER 26014.00 INSPECTOR NAME D. McGuire  
 EQUIPMENT USED CME 75 truck rig (Auto Hammer) DRILLER NAME/COMPANY J. Blemings/UTD  
 DRILLING METHODS Continuous 2" SS to 12'; 5' intervals thereafter  
 AUGER: SIZE: 4.25 ID HSA ; AUGER DEPTH: 19.4' ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: T. Carlin ; DATE: 3/28/2013 DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	RQD (%)	USCS	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION		REMARKS
										DEPTH	ELEVATION	
0.0	S-1	4	1.4'	-	-	ML	M	M		0.0	188.0	Silt with ash, cinders, and construction debris, dark brown to black (Demolition Fill)
0.5		8								187.5		
1.0		8								187.0		
2.0	S-2	10	1.7'	-	-	ML	M	M		2.0	186.0	Sandy silt, trace fine to medium gravel (Demolition Fill)
2.5		12								185.5		
3.0		8								185.0		
4.0	S-3	4	0.1'	-	-	ML	M	M		4.0	184.0	Sandy silt, trace fine to medium gravel (Demolition Fill)
4.5		3								183.5		
5.0		3								183.0		
6.0	S-4	10	0.4'	-	-	ML	M	M		6.0	182.0	Sandy silt, trace fine to medium gravel (Demolition Fill)
6.5		11								181.5		
7.0		3								181.0		
8.0	S-5	50/2	0.0'	-	-	ML	M	M		7.5	180.5	Organic silt little gravel, dark brown (Remnant Topsoil)
8.0		1								180.0		
8.2		1								179.7		
8.2	S-6	50/2	0.0'	-	-	ML	M	M		8.2	179.7	Concrete (4")
8.3		1								179.7		
8.3		1								179.7		
10.0	S-6	6	1.6'	-	-	ML	M	M		10.0	178.0	Sandy silt trace fine gravel, brown (Residual)
10.5		6								177.5		
11.0		7								177.0		
12.0	S-7	6	1.6'	-	-	ML	M	M		12.0	176.0	Sandy silt trace fine gravel, brown (Residual)
12.5		6								175.5		
13.0		7								175.0		
14.0	S-7	8	1.4'	-	-	ML	M	M		14.0	174.0	Silty sand, trace fine gravel, gray brown (Weathered Rock)
14.5		12								173.5		
15.0		20								173.0		
16.0	S-8	18	0.2'	-	-	SM	M	M		16.0	172.0	Silty sand, trace fine gravel, gray brown (Weathered Rock)
16.5		12								171.5		
17.0		20								171.0		
19.0	S-8	50/4	0.2'	-	-	SM	M	M		19.0	169.0	Silty sand, trace fine gravel, gray brown (Weathered Rock)
19.3		4								168.6		
19.3	S-8	50/4	0.2'	-	-	SM	M	M		19.3	168.6	End of Boring

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	TP-1
SHEET	1 OF 2
DATE: START	7/9/13
END	7/9/13
SURFACE ELEV. (FT)	193.5

PROJECT NAME Ambler Crossings

PROJECT LOCATION Ambler Borough, PA

PROJECT NUMBER 26014.00

INSPECTOR NAME D. McGuire

EQUIPMENT USED Komatsu PC138US




DRILLER NAME/COMPANY Scott Contractors

DRILLING METHODS \_\_\_\_\_

AUGER: SIZE: \_\_\_\_\_ ; AUGER DEPTH: \_\_\_\_\_ ; WATER: DEPTH: 15.5' TIME: 24 hrs DATE: 7/9/2013

CHECKED BY: \_\_\_\_\_ ; DATE: \_\_\_\_\_ DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	RQD (%)	USCS	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION		REMARKS	
										DEPTH	ELEVATION		
0.0						SM				0.0	188.5	Demolition fill: silty sand with construction debris	
5.0	1					M							
5.0						ML/CL				5.0	188.5	Magnesia waste, with construction debris throughout (concrete, gypsum, plastic, wood); white, gray	Magnesia waste appears to be granular  Easy digging
19.0	2					M							Magnesia waste appears to be fine grained and is very soft
19.0						SW				19.0	174.5	Fine to coarse sand, little gravel, trace silt	
20.0	3					W				20.0	173.5		

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	TP-1
SHEET	2 OF 2
DATE: START	7/9/13
END	7/9/13
SURFACE ELEV. (FT)	193.5

PROJECT NAME Ambler Crossings

PROJECT LOCATION Ambler Borough, PA

PROJECT NUMBER 26014.00

INSPECTOR NAME D. McGuire

EQUIPMENT USED Komatsu PC138US

DRILLER NAME/COMPANY Scott Contractors

DRILLING METHODS \_\_\_\_\_

AUGER: SIZE: \_\_\_\_\_ ; AUGER DEPTH: \_\_\_\_\_ ; WATER: DEPTH: 15.5' TIME: 24 hrs DATE: 7/9/2013

CHECKED BY: \_\_\_\_\_ ; DATE: \_\_\_\_\_ DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)		USCS	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION	REMARKS
				RQD (%)							
										DEPTH	ELEVATION
											End of test pit at 20.0'

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	TP-2
SHEET	1 OF 1
DATE: START	7/9/13
END	7/8/13
SURFACE ELEV. (FT)	192.5

PROJECT NAME Ambler Crossings

PROJECT LOCATION Ambler Borough, PA

PROJECT NUMBER 26014.00

INSPECTOR NAME D. McGuire




EQUIPMENT USED Komatsu PC138US

DRILLER NAME/COMPANY Scott Contractors

DRILLING METHODS \_\_\_\_\_

AUGER: SIZE: \_\_\_\_\_ ; AUGER DEPTH: \_\_\_\_\_ ; WATER: DEPTH: 15.0' TIME: 24 hrs DATE: 7/9/2013

CHECKED BY: \_\_\_\_\_ ; DATE: \_\_\_\_\_ DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
0.0												
1.5	1				SM		M		1.5	191.0	Demolition fill: silty sand with construction debris	
					ML/CL						Magnesia waste; little construction debris; white, gray	Magnesia waste is granular and side walls held up, no collapse
15.0	2						D		15.0	177.5		
16.0	3				SW		W		16.0	176.5	Fine to coarse sand, little gravel, trace clay	End of test pit at 16.0'

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	TP-3
SHEET	1 OF 1
DATE: START	7/9/13
END	7/9/13
SURFACE ELEV. (FT)	194.0

PROJECT NAME Ambler Crossings

PROJECT LOCATION Ambler Borough, PA

PROJECT NUMBER 26014.00

INSPECTOR NAME D. McGuire

EQUIPMENT USED Komatsu PC138US

DRILLER NAME/COMPANY Scott Contractors

DRILLING METHODS \_\_\_\_\_

AUGER: SIZE: \_\_\_\_\_ ; AUGER DEPTH: \_\_\_\_\_ ; WATER: DEPTH: 16.0' TIME: 24 hrs DATE: 7/9/2013

CHECKED BY: \_\_\_\_\_ ; DATE: \_\_\_\_\_ DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_  
NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	RQD (%)	USCS	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
										0.0	194.0	Topsoil (12")	
										1.0	193.0	Concrete slab with wire mesh (12")	
2.0						ML/CL				2.0	192.0	Magnesia waste, little construction debris	Magnesia waste is mixed with sand
	1												Very soft and fine grained
18.0										18.0	176.0		
19.0	2					SW				19.0	175.0	Fine to coarse sand, little gravel, trace silt	
													End of test pit at 19.0'

\*\* D = DRY, M = MOIST, W = WET



# BORING LOG

BORING NO.	TP-4
SHEET	1 OF 1
DATE: START	7/9/13
END	7/9/13
SURFACE ELEV. (FT)	193.0

PROJECT NAME Ambler Crossings

PROJECT LOCATION Ambler Borough, PA

PROJECT NUMBER 26014.00

INSPECTOR NAME D. McGuire

EQUIPMENT USED Komatsu PC138US




DRILLER NAME/COMPANY Scott Contractors

DRILLING METHODS \_\_\_\_\_

AUGER: SIZE: \_\_\_\_\_ ; AUGER DEPTH: \_\_\_\_\_ ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_ ; DATE: \_\_\_\_\_ DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION		REMARKS
									DEPTH	ELEVATION	
1.5									1.5	191.5	Surface: high weeds and low underbrush
	1					ML					Construction debris with magnesia waste
7.0						ML/CL			7.0	186.0	White magnesia waste is fine grained and very soft
	2					M					Magnesia waste; very soft; white to gray
13.0									13.0	180.0	Hard digging: 13.0 - 14.0'
											
									14.0	179.0	

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	TP-5
SHEET	1 OF 1
DATE: START	7/9/13
END	7/9/13
SURFACE ELEV. (FT)	193.5

PROJECT NAME Ambler Crossings

PROJECT LOCATION Ambler Borough, PA

PROJECT NUMBER 26014.00

INSPECTOR NAME D. McGuire

EQUIPMENT USED Komatsu PC138US



DRILLER NAME/COMPANY Scott Contractors

DRILLING METHODS \_\_\_\_\_

AUGER: SIZE: \_\_\_\_\_ ; AUGER DEPTH: \_\_\_\_\_ ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_ ; DATE: \_\_\_\_\_ DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (FT.)	RECOVERY (%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	DESCRIPTION	ELEVATION	REMARKS
0.0					SM					Construction debris and silty sand		
1	1				M				3.0	Magnesia waste; white	190.5	Magnesia waste is fine grained; very soft; very easy digging
3.0					ML/CL							
17.5	2				M				17.5		176.0	End of test pit at 17.5' on top of culvert (visible stone & brick)

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	TP-6
SHEET	1 OF 1
DATE: START	7/10/13
END	7/10/13
SURFACE ELEV. (FT)	189.0

PROJECT NAME Ambler Crossings

PROJECT LOCATION Ambler Borough, PA

PROJECT NUMBER 26014.00

INSPECTOR NAME D. McGuire

EQUIPMENT USED Komatsu PC138US

DRILLER NAME/COMPANY Scott Contractors

DRILLING METHODS \_\_\_\_\_

AUGER: SIZE: \_\_\_\_\_ ; AUGER DEPTH: \_\_\_\_\_ ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_ ; DATE: \_\_\_\_\_ DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	RQD (%)	USCS AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DEPTH	ELEVATION	DESCRIPTION	REMARKS
0.0						SM					Large construction debris, rebar, remnant pipe	
1						D						
4.0						SM			4.0	185.0	Silty sand, little construction debris	
2						M						
6.0						SM			6.0	183.0	Silty sand to sandy silt; brown	
3						M						
7.0									7.0	182.0		End of test pit at 7.0'

\*\* D = DRY, M = MOIST, W = WET

# BORING LOG

BORING NO.	TP-7
SHEET	1 OF 1
DATE: START	7/10/13
END	7/10/13
SURFACE ELEV. (FT)	177.0

PROJECT NAME Ambler Crossings

PROJECT LOCATION Ambler Borough, PA

PROJECT NUMBER 26014.00

INSPECTOR NAME D. McGuire

EQUIPMENT USED Komatsu PC138US





DRILLER NAME/COMPANY Scott Contractors

DRILLING METHODS \_\_\_\_\_

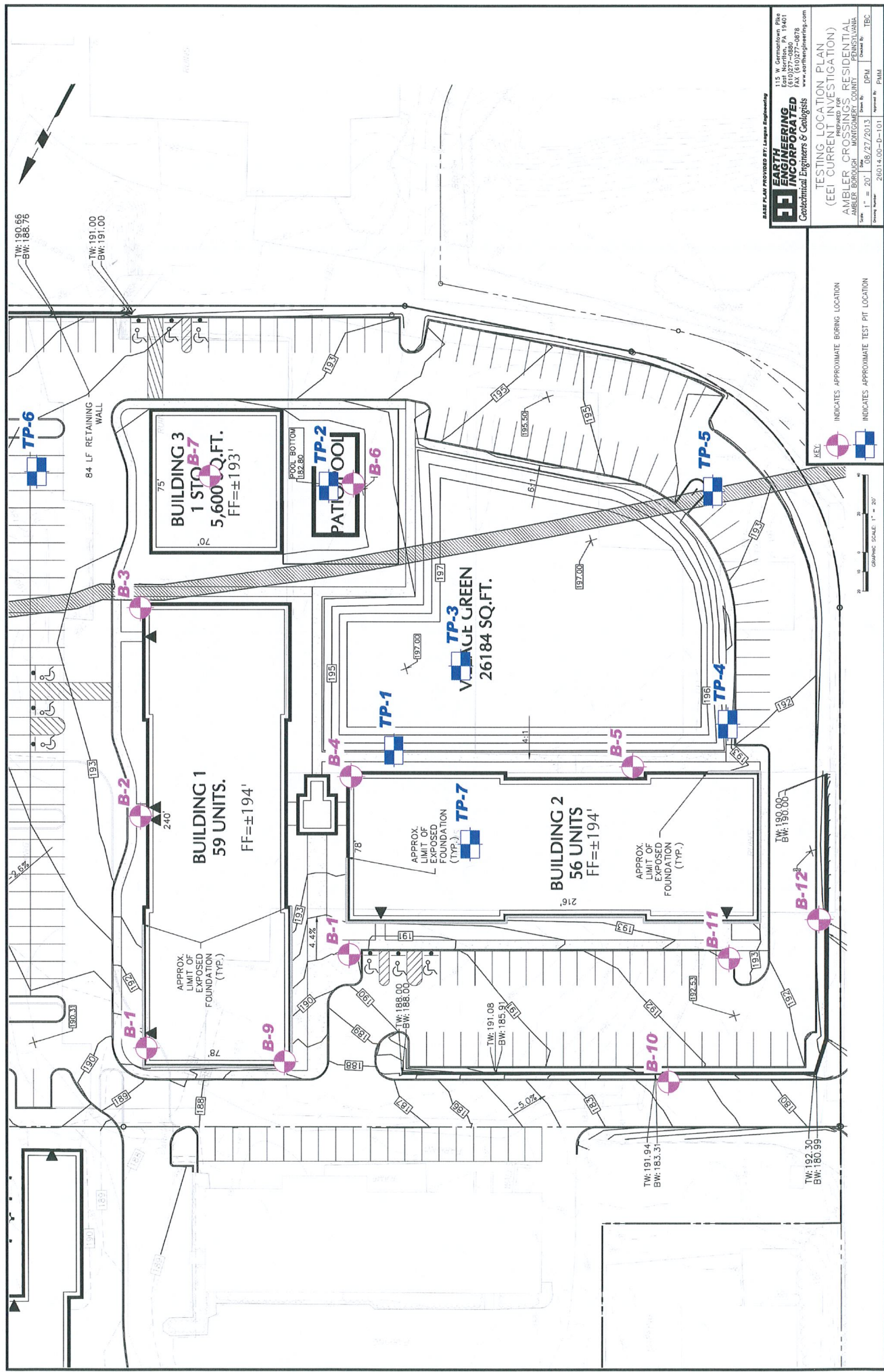
AUGER: SIZE: \_\_\_\_\_ ; AUGER DEPTH: \_\_\_\_\_ ; WATER: DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_ ; DATE: \_\_\_\_\_ DEPTH: \_\_\_\_\_ TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

NOT ENCOUNTERED

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY(%)	USCS RQD (%)	AASHTO	H <sub>2</sub> O CONTENT	GRAPHIC LOG	DESCRIPTION		REMARKS
									DEPTH	ELEVATION	
0.0					SM				Demolition fill: I-beams, concrete	174.0	*Note: test pit filled with water, soils not visible
3.0	1						W				
4.0									Concrete slab (12")	173.0	
5.0	2				ML/CL		W		Sandy silt to silty clay; gray	172.0	
7.0	3				SW		W		Fine to coarse sand, little gravel, trace silt; brown	170.0	End of test pit at 7.0'

\*\* D = DRY, M = MOIST, W = WET



BASED PLAN PROVIDED BY: Langston Engineering

**EARTH INCORPORATED**  
 Geotechnical Engineers & Geologists  
 115 W. Germantown Pike  
 Ambler, PA 19001  
 (610) 277-9882  
 FAX (610) 277-9878  
 www.earthincorporated.com

**TESTING LOCATION PLAN**  
 (EET CURRENT INVESTIGATION)  
 AMBLER CROSSINGS RESIDENTIAL  
 AMBLER BOROUGH, MONTGOMERY COUNTY, PENNSYLVANIA

Scale: 1" = 20'  
 Date: 08/27/2013  
 Drawn By: DPM  
 Checked By: TBC  
 Drawing Number: 20114.00-D-101  
 Approved By: PAMA



TW: 190.66  
BW: 186.76

B-24  
64' L<sup>1</sup> RETAINING WALL

BUILDING 3  
1 STORY  
5,600 SQ.FT.  
FF=±193'

POOL BOTTOM  
182.80

PATIO/POOL

VILLAGE B-74  
26184 SQ.FT.

BUILDING 1  
59 UNITS.  
FF=±194'

BUILDING 2  
56 UNITS  
FF=±194'

INDICATES APPROXIMATE LANGAN BORING LOCATION  
INDICATES APPROXIMATE PREVIOUS EED BORING LOCATION



GRAPHIC SCALE 1" = 20'

BASE PLAN PROVIDED BY Langan Engineering

**EARTH SERRING INCORPORATED**  
Geotechnical Engineers & Geologists

115 W. Germantown Pike  
PO BOX 19401  
PHILADELPHIA, PA 19101  
TEL: (215) 381-1100  
FAX: (215) 381-1101  
WWW.EARTHSEERRING.COM

TESTING LOCATION PLAN  
(PREVIOUS INVESTIGATIONS)  
AMBLER CROSSINGS RESIDENTIAL  
AMBLER BOROUGH, MONTGOMERY COUNTY, PENNSYLVANIA

Date: 11/20/2013  
Issue By: DPM  
Checked By: TBC  
Drawing Number: 26014.00-D-101  
Revised By: PAM

