

SOIL BORING LOG

Facility/Project Name City of Marquette - Former Cliffs Dow				Driller/Drill Rig Enviro Dynamics - Rob		Boring Number UPG-100C / SB-11			
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM		Drilling Method Direct Push		Borehole Diameter 2 1/4"	
Site Owner (If different than above.)				Project Number 99-059		Groundwater Depth ~6'		Comments Shown as SB-11 on drawing.	
				Start Date 9/21/2009		Well Name UPG-100C			
				Completion Date 9/21/2009		Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH				USCS	PID	REMARKS
UPG-100C 6-8'	30"		0	0-19" POORLY GRADED SAND Fine grained sand, non-plastic, dry, light brown.	SP				
			-						
			-						
			-						
			1						
			-						
	30"			-	19-30" WELL GRADED SAND Medium grained sand and gravel, coal material,	SW			
				-					
				2					
				-					
				-					
				3					
30"			4	0-20" WELL GRADED GRAVEL Gravel, black coal material, non-plastic, black.	WG				
			-						
			-						
			5						
			-						
			-						
33"			-	20-30" POORLY GRADED SAND Medium grained sand, non-plastic, dark brown, wet.	SP			NOTE: Sample collected 6-8' per TAG field notes. wet ~6'	
			-						
			6						
			-						
			-						
			7						
33"			8	0-33" POORLY GRADED SAND Medium grained sand, non-plastic, dark brown,	SP				
			-						
			-						
			9						
			-						
			-						
DDM		Geologist/Technician							
TAG		Reviewed							



SOIL BORING LOG

Facility/Project Name City of Marquette - Former Cliffs Dow				Driller/Drill Rig Enviro Dynamics - Rob		Boring Number UPG-100C		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2 1/4"		
Site Owner (If different than above.)				Project Number 99-059	Groundwater Depth ~6'	Comments Shown as SB-11 on drawing.		
				Start Date 9/21/2009	Well Name UPG-100C			
				Completion Date 9/21/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	46"		12 - - - - 13 - - - 14 - - - 15 - - -	0-46" POORLY GRADED SAND Medium grained sand, non-plastic, wet, dark brown.		SP		
	43"		16 - - - 17 - - - 18 - - - 19 - -	0-34" POORLY GRADED SAND Medium grained sand, non-plastic, wet, dark brown.		SP		
			- - - - - 20 - - - - - 21 - - - - - 22 - - - - - 23 - - - - 24	34-43" POORLY GRADED SAND Fine grained sand, non-plastic, wet, brown.		SP		
			20 - - - - - 21 - - - - - 22 - - - - - 23 - - - - 24	EOB				

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name City of Marquette - Former Cliffs Dow				Driller/Drill Rig Enviro Dynamics - Rob		Boring Number UPG-200C / SB-12	
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2 1/4"	
Site Owner (If different than above.)				Project Number 99-059	Groundwater Depth ~5'	Comments Shown as SB-12 on drawing.	
				Start Date 9/21/2009	Well Name UPG-200C		
				Completion Date 9/21/2009	Grid Location		
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH		USCS	PID	REMARKS
	18"		0	<u>0-4" TOP SOIL</u>			
		-		-	<u>4-13" WELL GRADED SAND</u>	SW	
		-		-	Medium grained sand, coal material, non-plastic, dry, black		
		-		-			
		-		1	<u>13-18" POORLY GRADED SAND</u>	SP	
		-		-	Medium grained sand, non-plastic, dry, dark brown.		
		-		-			
		-		2			
		-		-			
		-		-			
		-		3			
		-		-			
		-		-			
	38"		4	<u>0-38" POORLY GRADED SAND</u>	SP	Wet at 5'	
		-		-	Medium grained sand, non-plastic, brown.		
		-		-			
		-		-			
		-		5			
		-		-			
		-		-			
		-		6			
		-		-			
		-		-			
		-		7			
		-		-			
		-		-			
	46"		8	<u>0-46" POORLY GRADED SAND</u>	SP		
		-		-	Medium grained sand, non-plastic, dark brown.		
		-		-			
		-		-			
		-		9			
		-		-			
		-		-			
		-		10			
		-		-			
		-		-			
		-		11			
		-		-			
		-		-			
			12	EOB			

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name City of Marquette - Former Cliffs Dow				Driller/Drill Rig Enviro Dynamics - Rob		Boring Number UPG-300C / SB-14		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2 1/4"		
Site Owner (If different than above.)				Project Number 99-059	Groundwater Depth ~5'	Comments Shown as SB-14 on drawing.		
				Start Date 9/21/2009	Well Name UPG-300C			
				Completion Date 9/21/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	19"		0	<u>0-5" TOP SOIL</u>				
			-	<u>5-18" WELL GRADED SAND</u>		WS		
			-	Fine grained sand, with small rock, coal, dry, black.				
			-					
	35"		1					Wet ~5'
			-					
			-					
			-					
			-					
			-					
			-					
			2					
			-					
			-					
			3					
			-					
			-					
			4	<u>0-4" ORGANIC SOIL</u>		OL		
			-	Peat, black.				
			-	<u>4-35" POORLY GRADED SAND</u>		SP		
			-	Fine to medium grained sand, wet, brown.				
			-					
			5					
			-					
			-					
			6					
			-					
			-					
			7					
			-					
			-					
			8	<u>0-38" POORLY GRADED SAND</u>		SP		
			-	Fine to medium grained sand, wet, brown.				
			-					
			-					
			9					
			-					
			-					
			10					
			-					
			-					
			11	EOB				
			-					
			-					
			12					
			-					
			-					
DDM		Geologist/Technician						
TAG		Reviewed						



SOIL BORING LOG

Facility/Project Name City of Marquette - Former Cliffs Dow				Driller/Drill Rig Enviro Dynamics - Rob		Boring Number UPG-400C / SB-13		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push		Borehole Diameter 2 1/4"	
Site Owner (If different than above.)				Project Number 99-059		Groundwater Depth	Comments Shown as SB-13 on drawing.	
				Start Date 9/21/2009		Well Name UPG-400C		
				Completion Date 9/21/2009		Grid Location		
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
UPG-400C 8-10'	18"		0	0-8" POORLY GRADED SAND Fine grained sand, coal material, non-plastic, dry, black.		SP		
			-					
			-					
			-					
			-					
			-					
	24"			1	12-18" WELL GRADED SAND Fine grained sand, coal material, non-plastic, dry, black.		SW	
				-				
				-				
				-				
				-				
				-				
41"			2					
			-					
			-					
			-					
			-					
			-					
41"			3					
			-					
			-					
			-					
			-					
			-					
41"			4	0-17" WELL GRADED SAND Medium grained sand, coal material, non-plastic, dry, black.		SW		
			-					
			-					
			-					
			-					
			-					
41"			5					
			-					
			-					
			-					
			-					
			-					
41"			6	17-24" POORLY GRADED SAND Fine grained sand, non-plastic, dry, brown.		SP		
			-					
			-					
			-					
			-					
			-					
41"			7					
			-					
			-					
			-					
			-					
			-					
41"			8	0-25" POORLY GRADED SAND Fine grained sand, non-plastic, dry, brown.		SP		
			-					
			-					
			-					
			-					
			-					
41"			9					
			-					
			-					
			-					
			-					
			-					
41"			10	25-41" POORLY GRADED SAND Fine grained sand, non-plastic, dry, black.		SP		
			-					
			-					
			-					
			-					
			-					
41"			11					
			-					
			-					
			-					
			-					
			-					
41"			12					
			-					
			-					
			-					
			-					
			-					

DDM	Geologist/Technician
TAG	Reviewed



SOIL BORING LOG

Facility/Project Name City of Marquette - Former Cliffs Dow				Driller/Drill Rig Enviro Dynamics - Rob		Boring Number UPG-400C / SB-13		
Site Address/Location Wright St & Lakeshore Blvd, Marquette, MI				Technician DDM	Drilling Method Direct Push	Borehole Diameter 2 1/4"		
Site Owner (If different than above.)				Project Number 99-059	Groundwater Depth ~6'	Comments Shown as SB-13 on drawing.		
				Start Date 9/21/2009	Well Name UPG-400C			
				Completion Date 9/21/2009	Grid Location			
TRIMEDIA SAMPLE NUMBER	LENGTH RECOVERED	BLOW COUNT	DEPTH			USCS	PID	REMARKS
	45"		12 - - - - 13 - - - - 14 - - - - 15 - - - -	0-45" POORLY GRADED SAND Medium grained sand, non-plastic, gray.		SP		
			16 - - - 17 - - - - 18 - - - - 19 - - - -	EOB				
			20 - - - - 21 - - - - 22 - - - - 23 - - - - 24					

DDM	Geologist/Technician
TAG	Reviewed

