

**SOIL BORING LOG**

**CAMP STANLEY STORAGE ACTIVITY**

SITE LOCATION: B27	BORING NUMBER: B27-SB1
CLIENT: CAMP STANLEY STORAGE ACTIVITY	CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.
PROJECT: SWMU CLOSURE	DRILLING CONTRACTOR: CORE TERRA, INC.
LOGGED BY: K. TISCHLER/S. PEARSON	REF. LOGBOOK: 735903
BORING DEPTH (ft-BGL): 12	DRILLER: JIMMY MORENO
BORING ELEVATION (ft-MSL): NA	DRILLING RIG: MOBILE B-53
EAST COORDINATE: 536307	DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
NORTH COORDINATE: 3285595	SAMPLING METHOD: 5' SPLIT SPOON/AIR CORE
BEGIN DRILLING: 08/26/96 (1125)	END DRILLING: 08/26/96 (1310)



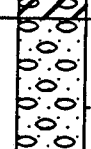
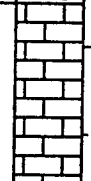
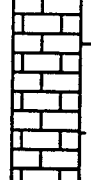
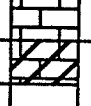
DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PID (ppm)	LITHOLOGIC DESCRIPTION	SSC GRAPHIC LOG	COMMENTS
0.9/2			0	SILTY CLAY, dark brown (7.5YR 3/2), moderate plasticity, does crumble, roots, grass, some caliche, moist.		Hollow-stem auger and split-spoon sampling to 13.7'.
2				Same as above, slightly more brittle and drier.		-
1.9/2			0			
4				Same as above, grades into weathered limestone, white, fractured, dry.		
1.5/2	X		0			Driller reports weathered rock at 5.5', rock at 6'.
6				LIMESTONE, extremely friable, no recovery with core, rig moving 6' forward - use split spoon in attempt to recover below 5.5'.		Split spoon.
1.4/2			0	CALICHE/HIGHLY WEATHERED LIMESTONE, very pale brown (10YR 8/4), very soft, friable, loose, angular to sub-angular limestone fragments, possible shell fragments, dry.		
8				Same as above but moist.		
1.6/2						
10				CALICHE/CLAY, very pale brown (10YR 7/4 & 10YR 8/2), plastic, extremely maleable, mottled (yellow & brown), moist above 11', wet at 11'.		Wet at 11', water did not accumulate in borehole after 48 hours.
1.8/2	X		0			
12				Total depth = 12.0 feet (reamed to 13.7 feet).		
14						
16						

\* Analytical samples were taken in March 2000 due to problems associated with ITS Laboratory.

**SOIL BORING LOG**

**CAMP STANLEY STORAGE ACTIVITY**

SITE LOCATION: B27		BORING NUMBER: B27-SB2	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: SWMU CLOSURE		DRILLING CONTRACTOR: CORE TERRA, INC.	
LOGGED BY: K. TISCHLER/S. PEARSON		REF. LOGBOOK: 735903	
BORING DEPTH (ft-BGL): 10.5		DRILLER: JIMMY MORENO	
BORING ELEVATION (ft-MSL): NA		DRILLING RIG: MOBILE B-53	
EAST COORDINATE: 536300		DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY	
NORTH COORDINATE: 3285645		SAMPLING METHOD: 5' SPLIT SPOON/AIR CORE	
BEGIN DRILLING: 08/26/96 (1425)		END DRILLING: 08/26/96 (1630)	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (feet)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1.7/2			0	FILL/CLAY, little silt, black (7.5YR 2.5/1), highly plastic, caliche fragments, plant and root material, maleable, stiff to medium stiff, moist.		Hollow-stem auger and split-spoon sampling to 5'.
2			0	FILL/CLAY/LIMESTONE GRAVEL, dark yellowish brown (10YR 4/4), stiff fragments, sand to gravel size, dark mottling, poorly sorted, angular gravel fragments, fine- to coarse-grained, dry.		-
4			0	FILL/SILT, some gravel, pale yellow (2.5Y 8/3), Fe oxide staining, friable, similar fragments as above, metal fragments, dry.		Fill, hit rock at 5'.
6	2/3.5	✗	0	LIMESTONE (packstone/grainstone), pitted appearance, moderately hard at top (5.5') and hard towards bottom (6.5-7.0'), small shell fragments and abundant small (<1/16") diatoms, also very (<1/8") gastropods, fossil expression less obvious towards bottom, some Fe oxide staining, some core sections appear to have coarse banding.		
8				LIMESTONE (mudstone), pale brown (10YR 6/3), hard, dry.		Moist on the outside (probably condensation).
10	2.5/3	✗		CLAYEY LIMESTONE, shaley, effervescent, gray grading into tan, distinct color grading from gray to pale brown (7.5YR 5/1 - 10YR 6/3), gray bands, breakable by hand, brittle, dry.		Dup. hand sample of clay taken.
				<i>Total depth = 10.5 feet.</i>		

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**SOIL BORING LOG**

**CAMP STANLEY STORAGE ACTIVITY**

SITE LOCATION: B27		BORING NUMBER: B27-SB3	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: SWMU CLOSURE		DRILLING CONTRACTOR: CORE TERRA, INC.	
LOGGED BY: K. TISCHLER/S. PEARSON		REF. LOGBOOK: 735903	
BORING DEPTH (ft-BGL): 13		DRILLER: JIMMY MORENO	
BORING ELEVATION (ft-MSL): NA		DRILLING RIG: MOBILE B-53	
EAST COORDINATE: 536356		DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY	
NORTH COORDINATE: 3285613		SAMPLING METHOD: 5' SPLIT SPOON/AIR CORE	
BEGIN DRILLING: 08/26/96 (1655)		END DRILLING: 08/26/96 (1725)	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PID (ppm)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1.5/2	✕			FILL/SILTY CLAY, brown (10YR 4/3), plastic, firm, caliche, few small limestone pebbles, sub-angular, roots, increasing caliche content with depth (1') and clay becomes gravelly, moist.		Intermittent rain, three split spoons taken to get surface sample due to sample volume vs. recovery.
2			0	FILL/SILTY CLAY, dark brown (7.5YR 3/2), loose, soil fill & trash (wire, penny, metal, glass, charred material), dry.		-
0.9/2			0			
4	✕		0	FILL, same as above, more glass and charred material.		Hollow-stem auger and split-spoon sampling to 9.5'.
1.7/1.5			0			
6				FILL, same as above (glass, charred material).		
1.8/2.5				MARL, friable, pale yellow (2.5Y 8/2), firm, occasionally plastic, dry.		Air core 8-13'.
8				LIMESTONE (mudstone), light yellowish brown (10YR 6/4), massive, hard, dry.		
1.5/1.5						
10				LIMESTONE (mudstone), light yellowish brown (10YR 6/4), hard, massive, dry.		Loose fill above bedrock is ejected during air coring. This forms a large opening in the fill and circulation is lost. Case off borehole with augers and resume drilling.
2/3.5				CLAYEY LIMESTONE, brown and gray (7.5YR 5/2), harder than SB2.		
12	✕					
				Total depth = 13.0 feet		
14						
16						

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