

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: B32	BORING NUMBER: B32-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): 9.5	DRILLER: ROBERT HUBLER
BORING ELEVATION (ft-MSL): NA	DRILLING RIG: MOBILE B-52
EAST COORDINATE: 538094	DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
NORTH COORDINATE: 3284734	SAMPLING METHOD: 5' SPLIT SPOON/AIR CORE
BEGIN DRILLING: 08/23/96 (1115)	END DRILLING: 08/23/96 (1300)






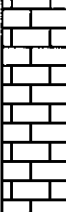

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PID (ppm)	LITHOLOGIC DESCRIPTION	USCS GRAPHIC LOG	COMMENTS
0.8/2			0	SILT, dark brown (7.5YR 3/2), some limestone gravel, roots and plant material, hard, no plasticity, very friable, dry.		Hollow-stem auger and split-spoon sampling to 2'.
0.7/2.5			0	LIMESTONE (mudstone), pinkish white (7.5YR 8/2), massive, minimal solution features, minor calcite precip, occasional mouldic porosity (< 1/16"), extremely hard, dry.		Driller reports interbedded clay.
4.8/4.8				LIMESTONE (wackestone), as above, pink (7.5YR 8/3), hard, planar fractures, forams, bivalve/pelecypods common, typically 1/10", well preserved, several large pelecypods (1 1/4"), turritella, coarse infill of vugs, some minor Fe oxide staining, sparry calcite replacement of some shells, dry.		
2/2				CLAY, red (5YR 4/4), moderately plastic, very few small limestone fragments (< 1/4"), slightly moist. <i>Total depth = 9.5 feet.</i>		Hit clay at base.

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

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: B32		BORING NUMBER: B32-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): 12.5		DRILLER: ROBERT HUBLER	
BORING ELEVATION (ft-MSL): NA		DRILLING RIG: MOBILE B-53	
EAST COORDINATE: 536072		DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY	
NORTH COORDINATE: 3284742		SAMPLING METHOD: 5' SPLIT SPOON/AIR CORE	
BEGIN DRILLING: 08/23/96 (1425)		END DRILLING: 08/23/96 (1530)	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PID (ppm)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1.3/2			2	FILL/SILT/CLAY/GRAVEL, brown (7.5YR 4/2), very poorly sorted, non-plastic, root material, easy push to 2', pebble-sized to fine gravel (~1/2" diameter), some backfill, dry.		Hollow-stem auger and split-spoon sampling to 5'.
2			0	FILL, as above, more weathered limestone gravel, non-plastic, friable, large limestone cobble plugged SS shoe, root material, some backfill, dry.		
1.2/2			0	Same as above, backfill.		
4			0	Same as above, backfill.		Driller reports cobble bedrock at 5'.
0.2/2			0	Same as above, backfill.		
6			0	Same as above, backfill.		Air core 7.5-12.5'.
1/1.5			0	LIMESTONE (mudstone), pink (7.5YR 8/3), hard, massive, some Fe oxide staining, roots in crack surrounded by red weathered limestone, edge of fracture, dry. Driller and cuttings indicate alternating layers of soft (marl) and hard (limestone).		The elevation of the drilling location is estimated to be 3.5' above a ditch which the sewer pipe passes directly under. At the borehole location the sewer pipe is expected to be 5 to 6' below grade. Hole cave-in; depth after cave-in 5.5'; fill too unconsolidated to hold hole open.
8			0			
10	2/5		0			
12						
				Total depth = 12.5 feet.		

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SOIL BORING LOG		CAMP STANLEY STORAGE ACTIVITY	
SITE LOCATION: B32		BORING NUMBER: B32-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): 12.1		DRILLER: JIMMY MORENO	
BORING ELEVATION (ft-MSL): NA		DRILLING RIG: MOBILE B-53	
EAST COORDINATE: 538057		DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY	
NORTH COORDINATE: 3284757		SAMPLING METHOD: 5' SPLIT SPOON/AIR CORE	
BEGIN DRILLING: 08/28/98 (0850)		END DRILLING: 08/28/98 (1045)	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (ppm)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1/2			0	SILTY CLAY, brown (10YR 4/3), slightly plastic with some weathered limestone, poor sorting, moist. WEATHERED LIMESTONE, very pale brown (10YR 8/2), moderately friable, broken fragments, dry.		Hollow-stem auger and split-spoon sampling to 4'.
2			0	SAND, silt size with small pebbles, yellowish brown (10YR 5/4), poorly sorted, loose, grains sub-angular, moist.		
0.7/2			0			
4			0	LIMESTONE (wackestone), pale yellow (2.5Y 8/2), hard, massive, very small dissolution features (< 1/16") and some sparry calcite fill/replacement, small bivalves, soft marl layer in fracture with Fe oxide staining, echinoid spines and shells, dry.		Air core 4-12.1'. Change in cuttings color, core block.
1.4/3			0	No recovery, cuttings indicate interbedded GRAVELLY CLAY, strong brown (7.5YR 5/6), plastic, soft, gravelly texture may be result of drilling, clay at bottom, moist.		
6			0			
8			0	LIMESTONE (wackestone/mudstone), pale yellow (2.5Y 8/3), slightly speckled (white), medium hardness (can break with hands), rougher texture (dimpled), some Fe oxide staining, dry.		
0.8/3			0			
10			0	Same as above, LIMESTONE, pelecypods/bivalves common, slightly moist.		
15/2			0			
12			0	Total depth = 12.1 feet.		
14			0			

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