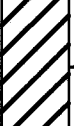










SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-42		BORING NUMBER: AOC42-SB01	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: AETC D05068		DRILLING CONTRACTOR: JEDI	
LOGGED BY: S. PEARSON		REF. LOGBOOK: 736625	
BORING DEPTH (ft-BGL): 15.5		DRILLER: E. JONES	
BORING ELEVATION (ft-MSL):		DRILLING RIG: MOBILE B-81	
EAST COORDINATE: 537376.29		DRILLING METHOD: 6-5/8 HOLLOW STEM AUGER/ 3-1/4" AIR CORE	
NORTH COORDINATE: 3286274.49		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 03/20/01		END DRILLING: 03/21/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (ft)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1.6/2			0	CLAY, some silt, 10YR 3/2, very dark grayish brown, damp-moist, soft, plastic.		split-spoon (push)
2				As above (fill).		split-spoon (push)
1/2			0			
4				As above, moist, soft, abundant small rock (1/8") fragments.		split-spoon (push)
1.2/2			0			
6				CLAY/LIMESTONE fragment, damp, clay is soft and plastic, looks like fill material but no trash present.		split-spoon (push) Sample: AOC42-SB01 (6.5-7')
0.8/2			0			
8				No recovery. Refusal at 9'.		split-spoon (push)
0/1						
10				LIMESTONE (WACKESTONE), 2.5YR 8/3, pale yellow, dry, fairly hard, somewhat weathered, fossiliferous, gastropod (turritella), pelecypods (1/2"), iron staining along basal fractures.		air core
3.9/4			0			
12				"china hat" forams.		
				As above, 2.5YR 5/1, gray, "china hat" forams.		
14				As above, some fossil assemblage including "china hat" forams, core is weathered and breaks easily, wet at 14.5'.		Sample: AOC42-SB01 (14.5-15')
2/2.5			0.8			
16				TOTAL DEPTH = 15.5 FEET		
18						
20						

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-42		BORING NUMBER: AOC42-SB02	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: AETC D05088		DRILLING CONTRACTOR: JEDI	
LOGGED BY: S. PEARSON		REF. LOGBOOK: 738825	
BORING DEPTH (ft-BGL): 14.8		DRILLER: E. JONES	
BORING ELEVATION (ft-MSL):		DRILLING RIG: MOBILE B-61	
EAST COORDINATE: 537386.35		DRILLING METHOD: 6 5/8 HOLLOW STEM AUGER/ 3 1/4" AIR CORE	
NORTH COORDINATE: 3288267.94		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 03/19/01		END DRILLING: 03/19/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (feet)	LITHOLOGIC DESCRIPTION	SECTION	GRAPHIC LOG	COMMENTS
0			0	CLAY with angular limestone fragments medium, stiff, damp, plastic, 7.5YR 4/4 brown.	CL		split-spoon (push)
2	2/2		0	CLAY, silty, damp, soft, plastic, 7.5YR 3/1 very dark gray.	CL ML		split-spoon (push)
4	1.4/2		0	CLAY, 7.5YR 4/4 brown, some rounded fine gravel, medium stiff, damp, plastic, trace of silt.			split-spoon (push)
6			0	As above, also has increasing amount of small caliche nodules.	CL		split-spoon (push)
8	1.9/2		0				split-spoon (push)
8	2/2	✖	0	MARL, 2.5YR 8/4 pale yellow, somewhat chalky, little clayey, damp, loose, slightly plastic, little limestone fragments.			Sample: AOC42-SB02 (7-8') N1, F01, MS1, SD1
10	0.8/1		0				air core
12			0	LIMESTONE (WACKESTONE), 5Y t/3 pale yellow, massive, dry, some fossils which include small pelecypods, very small gastropods (turritella) and occasional "china hat" foram, somewhat pitted with more forams from 13-14'.			
14	3.8/5		0				
14	0.8/0.8	✖	0				Sample: AOC42-SB02 (14-14.8')
16				TOTAL DEPTH = 14.8 FEET			
18							
20							

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-42		BORING NUMBER: AOC42-SB03	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: AETC D05068		DRILLING CONTRACTOR: JEDI	
LOGGED BY: S. PEARSON		REF. LOGBOOK: 738625	
BORING DEPTH (ft-BGL): 14.1		DRILLER: E. JONES	
BORING ELEVATION (ft-MSL):		DRILLING RIG: MOBILE B-61	
EAST COORDINATE: 537400.93		DRILLING METHOD: 6-5/8 HOLLOW STEM AUGER/3-1/4" AIR CORE	
NORTH COORDINATE: 3286258.26		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 03/21/01		END DRILLING: 03/21/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (feet)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1.8/2			0	CLAY, silt, 2.5YR 3/1 very dark gray, some fine limestone gravel, root material, damp, medium, stiff, plastic.		split-spoon (push)
2						split-spoon (push)
1.8/2			0	CLAY, little silt, caliche and fine gravel, shell fragments, limestone parent material, 10YR 4/4 dark yellowish-brown, increasing caliche/marl content.		
4						
1.6/2			0			
6						
2/2			0	CHALKY MARL, 5Y 8/1 white, clayey, moist, plastic, some portions have a flour consistency, becomes more firm towards 6'.		
8				As above, moist-wet, refusal at 9'.		Sample: AOC42-SB03 (8.5-9')
0.7/1				Overdrill, driller reports yellow limestone (wackestone).		
0/1						
			0.1	LIMESTONE (wackestone), 2.5Y 7/3 pale yellow, damp, hard, weathered limestone, less pelecypods (1/4"), dark organic inclusions.		
			0.5			
			0.7			
3.9/5			0.3			Sample: AOC42-SB03 (11-12.5'), slight hydrocarbon odor
			0.2			
			0.1	As above, no detectable hydrocarbon odor as above, pelecypods (oysters) that are small (1/4-1/2"), root material in fractures at 14', damp, hard, massive.		
			0.2			
14			0.1			
				TOTAL DEPTH = 14.1 FEET		
16						
18						
20						

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-42		BORING NUMBER: AOC42-SB04	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: AETC D05068		DRILLING CONTRACTOR: JEDI	
LOGGED BY: S. PEARSON		REF. LOGBOOK: 736625	
BORING DEPTH (ft-BGL): 15		DRILLER: E. JONES	
BORING ELEVATION (ft-MSL):		DRILLING RIG: MOBILE B-61	
EAST COORDINATE: 537388.80		DRILLING METHOD: 6-5/8" HOLLOW STEM AUGER/3-1/4" AIR CORE	
NORTH COORDINATE: 3286252.32		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 03/19/01		END DRILLING: 03/19/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (feet)	LITHOLOGIC DESCRIPTION	SEC U GRAPHIC LOG	COMMENTS
1.9/2			0	CLAY, silty, 10YR 3/4 brown, moist, soft, plastic, abundant root material.		split-spoon (push)
2				CLAY, 10YR 3/1 very dark gray, damp, medium stiff, slightly plastic.		split-spoon (push)
1.6/2			0	CLAY, 1/16" gravel, moist, stiff, 10YR 3/4 dark brown, gravel is angular limestone fragments and caliche nodules.		split-spoon (push)
0.9/2			0			
1.7/2			0	CHALKY MARL, 10YR 8/6 yellow, soft, brittle, some clayey (calcareous) zones.		Sample: AOC42-SB04 (7-7.5')
0.8/2			0	Refusal at 9', overdrill to 10', rock at 9.8'.		split-spoon (hammer)
5/5			0	LIMESTONE (WACKESTONE), massive, dry, hard, 2.5YR 8/3 pale yellow, pitted appearance from 13-13.6', becomes fossiliferous with "china hat" forams, small pelecypods.		
				LIMESTONE (MUDSTONE-WACKESTONE), 5Y 7/1 light gray forams and 1/4" pelecypod shell fragments, very similar to above with color changes.		Sample: AOC42-SB04 (14-14.5')
				TOTAL DEPTH = 15 FEET		

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-42		BORING NUMBER: AOC42-SB05	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: AETC D05068		DRILLING CONTRACTOR: JEDI	
LOGGED BY: S. PEARSON		REF. LOGBOOK: 736625	
BORING DEPTH (ft-BGL): 16		DRILLER: E. JONES	
BORING ELEVATION (ft-MSL):		DRILLING RIG: MOBILE B-61	
EAST COORDINATE: 537361.55		DRILLING METHOD: 6-5/8" HOLLOW STEM AUGER/3-1/4" AIR CORE	
NORTH COORDINATE: 3286240.05		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 03/21/01		END DRILLING: 03/21/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (feet)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1.8/2			0	CLAY and organic material, (Peak) 10YR 2/1 black, trace of fine gravel, soft, plastic, moist.	CL	split-spoon (push)
2						split-spoon (push)
1.6/2			0	CLAY, little fine gravel, 7.5YR 4/4 brown, medium stiff, plastic, damp, caliche nodules at 3.5'.		split-spoon (push)
4						split-spoon (push)
1.3/2			0	As above, increasing caliche and limestone fragments.		Sample: AOC42-SB05 (5-5.5')
6				No recovery - weathered marly limestone.		Air core
8						
0/5						
10						
12	1.6/2		0	LIMESTONE (WACKESTONE/PACKSTONE), 2.5Y 8/3 pale yellow, weathered, pitted appearance, quite fossiliferous with forams and small pelecypods.		
14						
2.5/3			0			Sample: AOC42-SB05 (15-16')
16				TOTAL DEPTH = 16 FEET		
18						
20						

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-42		BORING NUMBER: AOC42-SB06	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: AETC D05088		DRILLING CONTRACTOR: JEDI	
LOGGED BY: S. PEARSON		REF. LOGBOOK: 738825	
BORING DEPTH (ft-BGL): 14.9		DRILLER: E. JONES	
BORING ELEVATION (ft-MSL):		DRILLING RIG: MOBILE B-61	
EAST COORDINATE: 537395.24		DRILLING METHOD: 6-5/8" HOLLOW STEM AUGER/3-1/4" AIR CORE	
NORTH COORDINATE: 3286218.82		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 03/19/01		END DRILLING: 03/19/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (feet)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1.6/2			0	CLAY, gravelly, 7.5YR 3/2 dark brown, moist, soft, plastic, root material.	CL	split-spoon (push)
2						split-spoon (push)
1.8/2			0	CHALKY MARL or very weathered limestone, 2.5YR 8/3 pale yellow, some of the limestone fragments are pink, possibly indicating that they have been subjected to heat (possible fill).		
4				CLAY, 5YR 4/6 yellowish-red, little silt, medium stiff, plastic, damp, increasing caliche to 4'.	CL CH	split-spoon (push)
1.9/2			0	CHALKY MARL, 2.5Y 8/3 pale yellow, moist, plastic, medium stiff, slightly clayey, no hydrocarbon odor like SB07.		Sample: AOC42-SB06 (5-5.5') VOC's, metals, & explosives
6						split-spoon (push)
2/2			0			
8						split-spoon (hammer)
1.3/2			0			
10				Refusal at 9.5', overdrill to 10'.		Air core
1.6/2			0	LIMESTONE (WACKESTONE), 2.5Y 8/2 pale yellow, massive, hard, damp, pitted appearance, only a trace of fossils.		
12				LIMESTONE as above, massive, moist.		Air core, water came out at start of run.
2.9/ 2.9			0	14-14.9' is fossiliferous with "china hat" forams.		Sample: AOC42-SB06 (14.5-14.9')
16				TOTAL DEPTH = 14.9 FEET		3' of water in hole after drilling (1315) Depth to water = 10' (1320)
18						
20						

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-42		BORING NUMBER: AOC42-SB07	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: AETC D05068		DRILLING CONTRACTOR: JEDI	
LOGGED BY: S. PEARSON		REF. LOGBOOK: 738625	
BORING DEPTH (ft-BGL): 14.2		DRILLER: E. JONES	
BORING ELEVATION (ft-MSL):		DRILLING RIG: MOBILE B-61	
EAST COORDINATE: 537410.07		DRILLING METHOD: 6-5/8" HOLLOW STEM AUGER/3-1/4" AIR CORE	
NORTH COORDINATE: 3286216.05		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 03/19/01		END DRILLING: 03/19/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PID (ppm)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1.6/2			0	CLAY, silty and gravelly, 7.5YR 4/3 brown, caliche nodules (1/8-1/4"), limestone gravel, moist, soft, plastic.	CL	split-spoon UXO clearance.
2			0	CLAY, 7.5YR 4/3 brown, grading contact with decreasing gravel content, some silt, trace of caliche, medium stiff, moist, plastic.		split-spoon UXO clearance
1.8/2			0			
4			0	CLAY, 5YR 8/8 reddish-yellow, soft, wet, hydrocarbon odor.		Sample: AOC42-SB07 (4-4.5') VOC's, metals, explosives
1.7/2			0	LIMESTONE MARL, 2.5YR 8/4 pale yellow, grades to white, soft, brittle (powdery), chalky, damp, no odor.		Did not pick up VOC's on PID, check calibration, hydrocarbon odor only 4-4.25'.
6			0	As above, chalky white marl.		
1.25/2			0			
8			0	Refusal with spoon, overdrill to 8'.		
			0	As above, limestone marl.		Refusal at 8.3'.
0.3/2			0	Refusal, overdrill to 10'.		
10			0	MARLY LIMESTONE, weathered, no recovery, log off of cuttings.		Air core
0/2			0			
12			0			
2.2/ 2.2			0	LIMESTONE (WACKESTONE), 2.5Y 8/2 pale yellow, fossiliferous, small "china hat" forams, soft and slightly weathered, dry.		
14			0			
				TOTAL DEPTH = 14.2 FEET		Sample: AOC42-SB07 (14.5-15')
16						
18						
20						

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-42		BORING NUMBER: AOC42-SB08	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: AETC D05088		DRILLING CONTRACTOR: JEDI	
LOGGED BY: S. PEARSON		REF. LOGBOOK: 738825	
BORING DEPTH (ft-BGL): 19.2		DRILLER: E. JONES	
BORING ELEVATION (ft-MSL):		DRILLING RIG: MOBILE B-61	
EAST COORDINATE: 537391.21		DRILLING METHOD: 6-5/8" HOLLOW STEM AUGER/3-1/4" AIR CORE	
NORTH COORDINATE: 3286205.71		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 03/21/01		END DRILLING: 03/21/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (feet)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1.7/2			0	CLAY AND GRAVEL (FILL), stiff, plastic, damp, silty, gravel is fine to cobble-sized, 7.5YR 4/4 brown, large cobbles (1") start at 1' bgs.	CL	split-spoon (push)
2						split-spoon (push)
1.9/2			0	CLAY, some silt, 1/8" caliche and limestone gravel, 7.5YR 5/4 brown, medium stiff, plastic, damp, increasing caliche with depth.		split-spoon (push)
4						split-spoon (push)
1.8/2			0	MARLY CLAY, 10YR 8/2 very pale brown.		
6					CH	split-spoon (push)
1.7/2	✖		0	MARLY CLAY, 7.5YR 5/4 and 10YR 8/2, mottled brown and very pale brown, moist, medium stiff, plastic, less chalky than at other borings, trace of foram shells.		Sample: AOC42-SB08 (6.5-7')
8						
2/2			0	CLAY, 7.5YR 5/4, brown, mottled with caliche, rounded nodules (3/4") at 9.5', damp, stiff, very plastic.		
10				No recovery.		Air core
0/2.5						
12						split-spoon (push)
2/2			0	CLAY AND CHALKY MARL, 10YR 7/3 very pale brown, soft and plastic from 12.5-13', powdered and brittle 13-14.5', moist at 13.5-14.5'.		
14						split-spoon (push)
1.3/2			0	As above, starting to see limestone fragments from 16-16.5'.		
16						split-spoon (hammer)
1/1	✖		0	As above with more limestone fragments, refusal at 17.5'.		Sample: AOC42-SB08 (16.5-17.5')
1.7/1.7			0	LIMESTONE (WACKESTONE), 2.5YR 8/2 pale yellow, weathered with orange staining (2.5Y 6/6) along basal planes, chertful limestone from 17-19', dry, massive, hard.		Air core
18						
20				LIMESTONE (PACKSTONE), small vugs (1/4") that are either worm tubes or moldic porosity, dry, hard, massive, small pelecypod (oyster shells) 1/4-1/2".		

TOTAL DEPTH = 19.2 FEET

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-42		BORING NUMBER: AOC42-SB09	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: AETC D05068		DRILLING CONTRACTOR: JEDI	
LOGGED BY: S. PEARSON		REF. LOGBOOK: 738825	
BORING DEPTH (ft-BGL): 14.5		DRILLER: E. JONES	
BORING ELEVATION (ft-MSL):		DRILLING RIG: MOBILE B-61	
EAST COORDINATE: 537348.58		DRILLING METHOD: 6-5/8" HOLLOW STEM AUGER/3-1/4" AIR CORE	
NORTH COORDINATE: 3286210.76		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 03/21/01		END DRILLING: 03/21/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (feet)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
2/2			0	CLAY, organic topsoil (peat), 7.5YR 2.5/1 black, very rich organic soil, moist, slightly plastic, soft, abundant root and plant material, small fine gravel inclusions.		split-spoon (push)
2						split-spoon (push)
2/2			0	CLAY, little fine gravel, 2.5YR 4/2 dark grayish brown, damp, medium stiff, plastic.		split-spoon (push)
4						split-spoon (push)
1.9/2			0			
6						split-spoon (push)
1.4/2			0	CLAY AND LIMESTONE GRAVEL, 7.5YR 4/6 strong brown, angular limestone fragments, possibly fill material or high energy stream deposit.		
8						
1.4/1.5			0	LIMESTONE GRAVEL AND CLAY, as above with significantly more angular gravel, refusal at 9.5'.		Sample: AOC42-SB09 (9-9.5')
10	0.6/2.5		0	LIMESTONE (WACKESTONE), 10YR 8/1 white, dry, hard, massive, poor recovery, rubblized core return, a few "china hat" forams.		Air core Core block.
12						
1.5/2.5			0			Sample: AOC42-SB09 (13.5-14.5')
14						
				TOTAL DEPTH = 14.5 FEET		
16						
18						
20						