

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-67	BORING NUMBER: AOC67-SB01
CLIENT: CAMP STANLEY STORAGE ACTIVITY	CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.
PROJECT: D05084	DRILLING CONTRACTOR: JEDI
LOGGED BY: MELISSA NUGENT	REF. LOGBOOK: 738290.04
BORING DEPTH (ft-BGL): 35	DRILLER: ERIC JONES
BORING ELEVATION (ft-MSL): 1233	DRILLING RIG: MOBILE B-61
EAST COORDINATE: 535754.374	DRILLING METHOD: AIR CORE
NORTH COORDINATE: 3283798.579	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 04/03/01	END DRILLING: 04/03/01

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PID (ppm)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
1.1/2			0	FILL, 10YR 3/3, dark brown soil, moist, slightly plastic with limestone clasts (angular, white, up to pebble size).		Sample: AOC67-SB01 (0-1')
2				FILL, 5YR 4/6, yellowish-red soil, plastic, slightly moist, limestone clasts, angular, white.		Hit rock at 1'.
2.4/3			0	LIMESTONE (PACKSTONE), 5Y 8/2, pale yellow, hard, dry, massive.		Began air core.
4				WEATHERED LIMESTONE, 5Y 7/3, pale yellow, softer, dry, massive, iron oxide staining in vertical fracture at 4'.		
6				CLAY/LIMESTONE FRAGMENTS in iron oxide rich clay, 5YR 4/6, yellowish-red, moist, plastic, limestone is 5Y 8/1, white, massive.		Drillers note: the loss of core is probably between 5-8'.
3/5			0	MARLY LIMESTONE, 5Y 8/1, white, clayey, slightly plastic, slightly moist.		
8				LIMESTONE (PACKSTONE), 5Y 8/2, pale yellow, massive, hard, dry, grades into highly weathered 5Y 7/6, yellow marly limestone from 9.4 to 10'.		
10				Note: 9.6-9.8' & 10-10.2', same color as marly limestone but very soft, very moist, plastic.		
12			0	LIMESTONE (PACKSTONE), 5Y 8/1, white, many mud lamellae, erosional boundary.		
4.7/5				LIMESTONE (PACKSTONE), GLEY 1/7/N, light gray, hard, dry, massive.		
14				LIMESTONE (PACKSTONE), 5Y 8/1, hard, dry.		
16				LIMESTONE, GLEY 1/7/N, light gray laminated limestone, slightly moist, brittle.		
5/5			0	LIMESTONE (PACKSTONE), 5Y 8/1, white, hard, dry, laminated packstone.		
18				LIMESTONE (PACKSTONE), 5Y 8/2, pale yellow limestone; packstone is massive, grades into clay.		
20				LIMESTONE, GLEY 1/7/N, light gray, laminated limestone with mud lamellae.		
20				LIMESTONE, 2.5Y 8/1, white, hard, dry, massive.		

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CLIENT: CAMP STANLEY STORAGE ACTIVITY	CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.
PROJECT: D05084	DRILLING CONTRACTOR: JEDI
LOGGED BY: MELISSA NUGENT	REF. LOGBOOK: 738290.04
BORING DEPTH (ft-BGL): 35	DRILLER: ERIC JONES
BORING ELEVATION (ft-MSL): 1233	DRILLING RIG: MOBILE B-61
EAST COORDINATE: 535754.374	DRILLING METHOD: AIR CORE
NORTH COORDINATE: 3283798.579	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 04/03/01	END DRILLING: 04/03/01

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (ppm)	LITHOLOGIC DESCRIPTION	SCS GRAPHIC LOG	COMMENTS
		X				Sample: AOC67-SB01 (20-21')
22	5/5		0	LIMESTONE, 5Y 8/1, white, laminated, hard, dry, mud borings at 22', mud lamellae throughout. More weathered, softer, massive.	-22	Samples analyzed for VOC's, SVOC's, metals, and TPH.
24					-24	
26				SHALEY LIMESTONE, GLEY 1/4/N, dark gray, fissile, massive.	-26	
28	5/5		0	MARLY LIMESTONE, 2.5Y 8/2, pale yellow, dry, slightly soft. MARLY LIMESTONE, 2.5Y 7/4, pale yellow, soft, slightly plastic.	-28	
30				LIMESTONE, 5Y 8/1, white, hard, dry, vug ~1" at 28.9'. LIMESTONE, 5Y 8/1, white, hard, dry, many vugs (<1"), vug fill (on some vugs) is 7.5YR 5/6, strong brown iron oxide clay fill with lithic fragments of white limestone.	-30	
32	5/5		0	SHALEY LIMESTONE, GLEY 1/3/N, very dark gray. LIMESTONE (PACKSTONE), GLEY 1/7/N, light gray, shells, bivalves.	-32	
34				WEATHERED LIMESTONE, same as above but more weathered, mud burrows (filled with GLEY 1/6/N, gray). LIMESTONE (PACKSTONE), GLEY 1/7/N, light gray with shells, bivalves.	-34	
36				TOTAL DEPTH = 35 FEET	-36	
38					-38	
40					-40	

SOIL BORING LOG

CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-67		BORING NUMBER: AOC67-SB02	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: D05084		DRILLING CONTRACTOR: JEDI	
LOGGED BY: MELISSA NUGENT		REF. LOGBOOK: 738290.04	
BORING DEPTH (ft-BGL): 35		DRILLER: ERIC JONES	
BORING ELEVATION (ft-MSL): 1233		DRILLING RIG: MOBILE B-61	
EAST COORDINATE: 535750.979		DRILLING METHOD: AIR CORE	
NORTH COORDINATE: 3283806.583		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 04/03/01		END DRILLING: 04/03/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PID (ppm)	LITHOLOGIC DESCRIPTION	SCS GRAPHIC LOG	COMMENTS
0				CONCRETE.		
2			0	LIMESTONE (PACKSTONE), white, hard, dry, massive, packstone grades toward more weathered, softer, clayier, laminated.		Sample: AOC67-SB02 (2-3')
	2/3		0.4			
			0.1			
4			0			
6				LIMESTONE (PACKSTONE), pale yellow, 2.5Y 8/2.		
				MARLY LIMESTONE, soft, crumbly, slightly moist, 2.5Y 7/4, pale yellow, highly weathered.		
8			0	LIMESTONE, 2.5Y 7/4, pale yellow, hard, dry, erosional, intact.		
	4.7/5			LIMESTONE, GLEY 1/7/N, light gray, massive with some bioturbation, hard, dry, brittle.		
10				LIMESTONE (MUDSTONE), GLEY 1/6/N, gray, massive, moist, grades from not laminated to laminated.		
12			0			
	5/5			LIMESTONE (PACKSTONE), 2.5Y 8/3, pale yellow, hard, dry, poorly laminated.		
14						
16				LIMESTONE, GLEY 1/7/N, light gray, laminated.		
18			0	MARLY LIMESTONE, 2.5Y 7/4, pale yellow, soft, slightly moist, massive.		
	5/5			LIMESTONE, 2.5Y 8/1, white, hard, dry, no fossils.		
20						

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SITE LOCATION: AOC-67	BORING NUMBER: AOC67-SB02
CLIENT: CAMP STANLEY STORAGE ACTIVITY	CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.
PROJECT: D05084	DRILLING CONTRACTOR: JEDI
LOGGED BY: MELISSA NUGENT	REF. LOGBOOK: 738290.04
BORING DEPTH (ft-BGL): 35	DRILLER: ERIC JONES
BORING ELEVATION (ft-MSL): 1233	DRILLING RIG: MOBILE B-61
EAST COORDINATE: 535750.979	DRILLING METHOD: AIR CORE
NORTH COORDINATE: 3283806.583	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 04/03/01	END DRILLING: 04/03/01

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (ft)	LITHOLOGIC DESCRIPTION	USCS GRAPHIC LOG	COMMENTS
22	/5	X	0	LIMESTONE, 2.5Y 8/2, pale yellow, highly laminated, hard, dry.		Drillers note: last foot of core was soft, probable loss of core in last foot.
22-23				WEATHERED LIMESTONE, 2.5Y 8/2, pale yellow, iron oxide staining.		Sample: AOC67-SB02 (22-23')
24				LIMESTONE, 2.5Y 8/2, pale yellow, highly laminated, hard, dry.		Samples analyzed for VOC's, SVOC's, metals, and TPH.
24-25				WEATHERED LIMESTONE, sandy, 2.5Y 7/6, yellow, slightly moist, soft.		
26				LIMESTONE, same as 23-24'.		
26-27				MARLY LIMESTONE, 2.5Y 8/2, pale yellow, slightly moist.		
28	/5		0	LIMESTONE, grades into less weathered, more bioturbated.		
28-29				LIMESTONE (PACKSTONE), pale yellow, mud lamellae, dry, hard.		
29-30				LIMESTONE, GLEY 1/5/N, gray, massive, somewhat fissile.		
30-31				LIMESTONE, same as above, moist.		
31-32				LIMESTONE, same as above, dry.		
32	/5		0	LIMESTONE, same as above, moist.		
32-33				LIMESTONE, vug 2 inches.		
33-34				LIMESTONE (PACKSTONE), GLEY 1/7/1, light gray, fossiliferous, dry, hard.		
34-35				TOTAL DEPTH = 35 FEET		

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CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-87		BORING NUMBER: AOC67-SB03	
CLIENT: CAMP STANLEY STORAGE ACTIVITY		CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.	
PROJECT: D05084		DRILLING CONTRACTOR: JEDI	
LOGGED BY: MELISSA NUGENT		REF. LOGBOOK: 738290.04	
BORING DEPTH (ft-BGL): 35		DRILLER: ERIC JONES	
BORING ELEVATION (ft-MSL): 1233		DRILLING RIG: MOBILE B-61	
EAST COORDINATE: 535742.19		DRILLING METHOD: AIR CORE	
NORTH COORDINATE: 3283807.518		SAMPLING METHOD: SPLIT SPOON	
BEGIN DRILLING: 04/04/01		END DRILLING: 04/04/01	

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (ppm)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
22	4.9/5		0	LIMESTONE, 5Y 8/1, white limestone, hard, dry, poorly laminated.		
24						
26	5/5		0	MARLY LIMESTONE, 5Y 7/6, yellow, slightly moist, soft.		
28				LIMESTONE, 5y 8/1, white, bioturbated with gray muddy infill.		
30				SHALEY LIMESTONE, GLEY 1/7/N, dark gray, massive.		
30				LIMESTONE (PACKSTONE), GLEY 1/7/N, light gray, hard, dry, shell fragments.		Sample: AOC67-SB03 (30-30.5')
32	/5		0	weathered zone 32.5-32.8'		Samples analyzed for VOC's, SVOC's, metals, and TPH.
34				bivalve shells with cm abundant		
36				TOTAL DEPTH = 35 FEET		
38						
40						

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CAMP STANLEY STORAGE ACTIVITY

SITE LOCATION: AOC-67	BORING NUMBER: AOC67-SB03
CLIENT: CAMP STANLEY STORAGE ACTIVITY	CONTRACTOR: PARSONS ENGINEERING SCIENCE, INC.
PROJECT: D05084	DRILLING CONTRACTOR: JEDI
LOGGED BY: MELISSA NUGENT	REF. LOGBOOK: 738290.04
BORING DEPTH (ft-BGL): 35	DRILLER: ERIC JONES
BORING ELEVATION (ft-MSL): 1233	DRILLING RIG: MOBILE B-61
EAST COORDINATE: 535742.19	DRILLING METHOD: AIR CORE
NORTH COORDINATE: 3283807.518	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 04/04/01	END DRILLING: 04/04/01

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	PTD (opp)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	COMMENTS
				FILL, 2.5Y 6/4, light yellowish-brown, few white limestone clasts.		Sample: AOC67-SB03 (0-0.6') and field duplicate.
2				LIMESTONE (PACKSTONE), 5Y 8/1, white, hard, dry limestone, massive packstone.		Began air coring.
3/4.5			0	LIMESTONE (PACKSTONE), 5Y 8/3, pale yellow limestone, poorly laminated packstone breaks along bedding planes.		Drillers note: very soft from 3-4'.
4						
6				MARLY LIMESTONE, 2.5Y 8/6, yellow, soft.		
4.5/5			0	LIMESTONE, 5Y 8/4, pale yellow, massive, clayey. Note: 8.5-9' fractures with iron oxide and black staining.		
8						
10				LIMESTONE (PACKSTONE), GLEY 1/6/N, gray, shell fragments, massive, erosional boundary.		
12			0	LIMESTONE, 5Y 7/2, light gray, bioturbated, burrow fill is GLEY 1/6/N, gray.		
14				LIMESTONE (PACKSTONE), 5Y 8/2, pale yellow, hard, dry, massive.		
16				LIMESTONE (PACKSTONE), 5Y 7/4, pale yellow limestone, massive packstone, erosional boundary.		
18			0	LIMESTONE (PACKSTONE), GLEY 1/7/N, light gray limestone, packstone dry and brittle.		
20				MARLY LIMESTONE, 5Y 7/4, pale yellow marly limestone, with worm burrows (abundant) and mud lamellae. Mud is GLEY 1/7/N, light gray.		