

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 6 SHEETS
1. PROJECT C&SF US DOI Modified Waters to ENP 8.5 Square Mile Area			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION CP02-85SMA-CB-0089		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83
3. DRILLING AGENCY Law Engineering, Inc.		11. MANUFACTURER'S DESIGNATION OF DRILL CME-55		<input checked="" type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER David Johns, Jr.		12. TOTAL SAMPLES		DISTURBED 26
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		6.0 Ft.
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING		STARTED 11-09-02
8. TOTAL DEPTH OF BORING 100.0 Ft.		16. ELEVATION TOP OF BORING		COMPLETED 11-11-02
		17. TOTAL RECOVERY FOR BORING		63 %
		18. SIGNATURE AND TITLE OF INSPECTOR		Kevin Leving, Civil Engineer

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/0.5 FT.	N-VALUE	
7.0	0.0		LIMESTONE, 0, soft, slightly weathered, fine-grained, with silty sand seams, orange-tan	50	1		7.0	5	0	
							SPT Sampler	6	13	
								7		
					72	2		5.5	WOR	
							SPT Sampler	26	51	
				At El. 4.0 Ft., 0, trace silt, light tan				4.0	25	
					100	3			13	
							SPT Sampler	12	25	
					100	4		2.5	13	
							SPT Sampler	15	5	
				90	5		1.0	18	33	
			At El. 0.0 Ft., 0, light gray					12		
			At El. -0.5 Ft., 0, moderately hard, vuggy, fractured, tan					12	24	
				38		RQD 0	4 x 5-1/2" Diamond Set Bit DT = 7 mins HP = 300 psi		10	
-4.5	11.5		LIMESTONE, 0, hard, gray		BOX 2		-4.5			
				30		RQD 0	4 x 5-1/2" Diamond Set Bit DT = 21 mins HP = 300 psi		15	

DRILLING LOG (Cont. Sheet)	INSTALLATION Jacksonville District		SHEET 2 OF 6 SHEETS	
	PROJECT C&SF US DOI Modified Waters to ENP	COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83	VERTICAL NAVD88
LOCATION COORDINATES X = 811,454 Y = 479,606		ELEVATION TOP OF BORING 7.0 Ft.		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/0.5 FT.	N-VALUE	
		Slightly Weathered		30	BOX 2	RQD 0	4 x 5-1/2" Diamond Set Bit DT = 21 mins HP = 300 psi -9.5		15	
				At El. -10.5 Ft., 0, moderately weathered, porous, fossiliferous, tan	83		RQD 35	4 x 5-1/2" Diamond Set Bit DT = 2 mins HP = 300 psi		20
				At El. -13.0 Ft., 0, lateral fracture						
				From El. -14.5 to -16.5 Ft., 0, fractured	63		RQD 17	4 x 5-1/2" Diamond Set Bit DT = 2 mins HP = 300 psi -14.5		25
-18.5	25.5	Moderately Weathered	LIMESTONE, 0, moderately hard, pitted, fossiliferous		BOX 3		-18.5			
				At El. -21.0 Ft., 0, lateral fracture	100		RQD 45	4 x 5-1/2" Diamond Set Bit DT = 1 mins HP = 300 psi		30
-23.5	30.5			From El. -22.5 to -23.5 Ft., 0, fractured From El. -23.0 to -25.5 Ft., 0, fractured						
			LIMESTONE, 0, hard, porous, gray							
			From El. -27.5 to -28.0 Ft., 0, fractured	67		RQD 28	4 x 5-1/2" Diamond Set Bit DT = 12 mins HP = 300 psi		35	

DRILLING LOG (Cont. Sheet)	INSTALLATION Jacksonville District		SHEET 3 OF 6 SHEETS	
	PROJECT C&SF US DOI Modified Waters to ENP	COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83	VERTICAL NAVD88
LOCATION COORDINATES X = 811,454 Y = 479,606		ELEVATION TOP OF BORING 7.0 Ft.		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/0.5 FT.	N-VALUE
			From El. -28.5 to -29.5 Ft., 0, gray	67					
				72		RQD 10	4 x 5-1/2" Diamond Set Bit DT = 14 mins HP = 300 psi		
-33.5	40.5	Moderately Weathered	LIMESTONE, 0, moderately hard, tan From El. -33.6 to -34.5 Ft., 0, pitted						
				78		RQD 23	4 x 5-1/2" Diamond Set Bit DT = 1 mins HP = 300 psi		
-38.5	45.5		From El. -37.5 to -38.5 Ft., 0, fractured LIMESTONE, 0, hard, slightly weathered			BOX 4			
				5		RQD 0	4 x 5-1/2" Diamond Set Bit DT = 21 mins HP = 300 psi		
		Slightly Weathered							
				58		RQD 17	4 x 5-1/2" Diamond Set Bit DT = 5 mins HP = 300 psi		
			From El. -47.5 to -48.5 Ft., 0, sand seams						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 4 OF 6 SHEETS			
PROJECT C&SF US DOI Modified Waters to ENP			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 811,454 Y = 479,606			ELEVATION TOP OF BORING 7.0 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/0.5 FT.	N-VALUE
		Slightly Weathered	From El. -48.5 to -50.5 Ft., 0, fractured	58					
					50	RQD 17		4 x 5-1/2" Diamond Set Bit DT = 4 mins HP = 300 psi	
					50	RQD 12	BOX 5	4 x 5-1/2" Diamond Set Bit DT = 23 mins HP = 300 psi	
					0	RQD 0		4 x 5-1/2" Diamond Set Bit DT = 3 mins HP = 300 psi	
-61.5	68.5		SAND, silty, mostly subrounded fine to medium-grained quartz, little silt, no reaction with HCl, moist, with thin limestone seams, dark gray (SM)	NR 6			SPT Sampler	8 6 7	13
			From El. -64.5 to -67.5 Ft., trace shell	NR 7			SPT Sampler	5 6 6	12
				NR 8			SPT Sampler	1 2 4	6
				NR 9			SPT Sampler	2 3 4	7
			At El. -67.5 Ft., green-gray	100	10		SPT Sampler	3	

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 5 OF 6 SHEETS			
PROJECT C&SF US DOI Modified Waters to ENP			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 811,454 Y = 479,606			ELEVATION TOP OF BORING 7.0 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
				100	10		SPT Sampler	5	10
							-69.0	5	
				100	11		SPT Sampler	6	7
							-70.5	3	
								4	
				100	12		SPT Sampler	3	12
							-72.0	6	
								6	
				100	13		SPT Sampler	4	7
							-73.5	4	80
								3	
				100	14		SPT Sampler	2	4
							-75.0	2	
								2	
				100	15		SPT Sampler	WOR	0
							-76.5	0	0
			At El. -76.5 Ft., little silt					0	
				100	16		SPT Sampler	7	48
							-78.0	15	85
			At El. -78.0 Ft., some silt, weak cementation, light gray					33	
				89	17		SPT Sampler	15	38
							-79.5	22	
								16	
				67	18		SPT Sampler	11	30
							-81.0	14	
								16	
				39	19		SPT Sampler	6	25
							-82.5	10	
								15	
				78	20		SPT Sampler	10	90
							-84.0	10	17
								7	
				78	21		SPT Sampler	5	6
							-85.5	3	
			At El. -85.5 Ft., little silt, little shell, gray-green					3	
				78	22		SPT Sampler	9	28
							-87.0	11	
								17	
				100	23		SPT Sampler	10	
								7	95

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 6 OF 6 SHEETS					
PROJECT C&SF US DOI Modified Waters to ENP			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88					
LOCATION COORDINATES X = 811,454 Y = 479,606			ELEVATION TOP OF BORING 7.0 Ft.								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE		
-93.0	100.0		At El. -91.5 Ft., little clay	100	23		-88.5 SPT Sampler	6	13		
									4		
						100	24		SPT Sampler	4	10
									-90.0	6	
						100	25		SPT Sampler	4	12
							-91.5	8			
				100	26		SPT Sampler	3	8		
							-93.0	5			
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System.				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.). Abbreviations: WOR = Weight of Rods. NR = Not Recorded. DT = Drill Time. HP = Hydraulic Pressure.				