

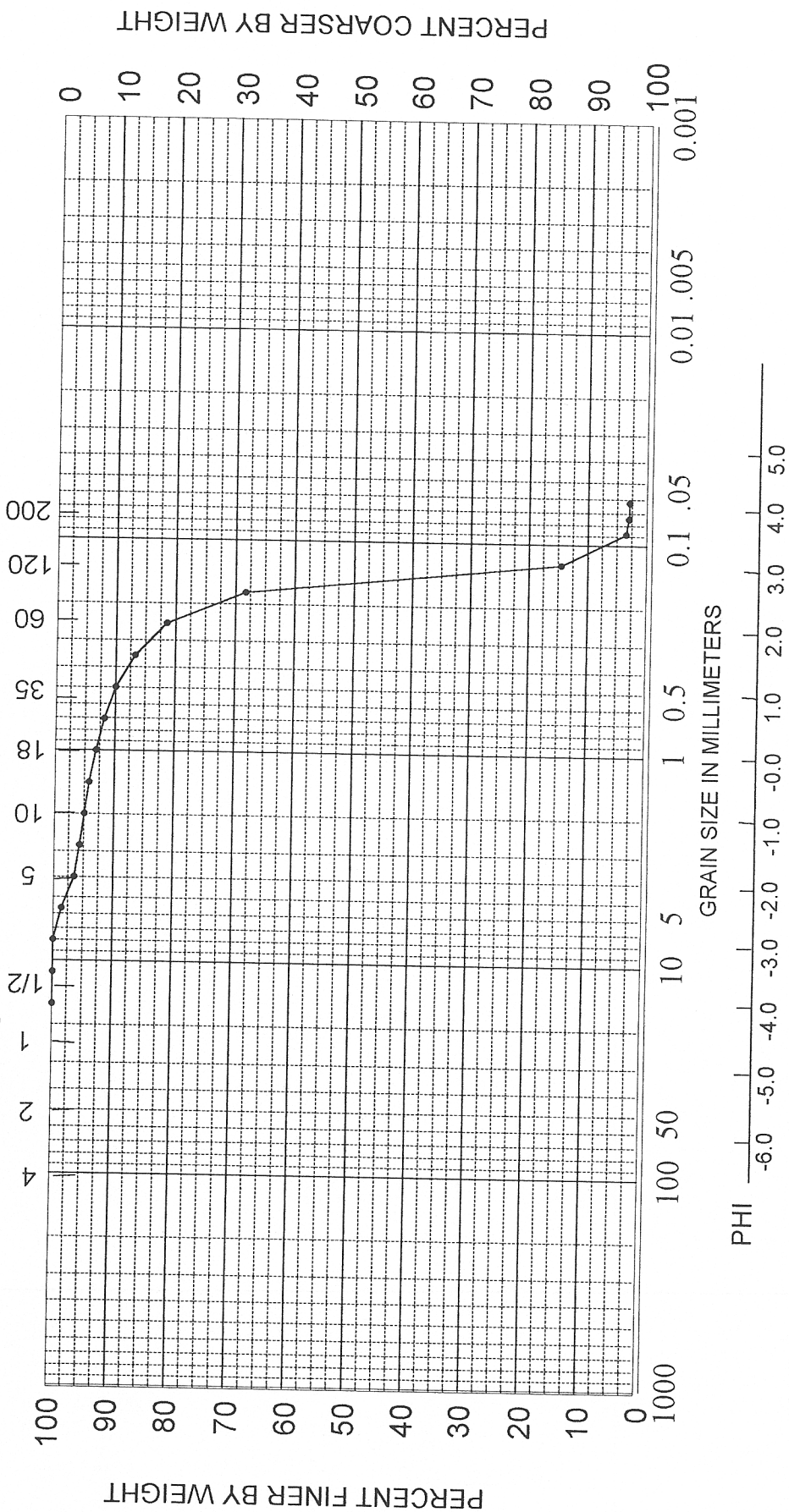
DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 1	
1. PROJECT Cumberland Shoals Project				10. SIZE AND TYPE OF BIT 4" VIBRACORE			
2. LOCATION (Coordinates or Station) X=514269.400 Y=2319583.800				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLLW			
3. DRILLING AGENCY AOSS/Olsen & Associates, Inc.				12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE			
4. HOLE NO. (As shown on drawing title and file number) SM-8				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 4 undisturbed: 0			
5. NAME OF DRILLER E. Olsen				14. TOTAL NUMBER OF CORE BOXES 2			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				15. ELEVATION GROUND WATER			
7. THICKNESS OF BURDEN 0 Ft.				16. DATE HOLE STARTED COMPLETED 4-4-02 4-4-02			
8. DEPTH DRILLED INTO ROCK 0 Ft.				17. ELEVATION TOP OF HOLE -28.3 Ft.			
9. TOTAL DEPTH OF HOLE 20.2 Ft.				18. TOTAL CORE RECOVERY FOR BORING 100 %			
				19. SIGNATURE OF G. Zarillo, SEA, Inc.			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS	
-28.3	.0					-28.3	0
-29.5	1.2		Light gray fine quartz sand. 10 YR 7.5/0.5-8/0.5 (SP)		1.0		
-30.7	2.4		Light gray medium to fine quartz sand, scattered gray, black and light brown shell fragments in fine to medium gravel range. 10 YR 7/0.5-7/1 (SP)	100	2.0		2.5
-32.9	4.6		Light gray fine quartz sand, mixed with abundant gray to white shell fragments in fine to coarse gravel range, some quartz gravel. 10 YR 7.5/0.5-7/0.5 (SW)		4.0	-33.3	5
-33.6	5.3		Light gray medium to fine quartz sand, some gray whole shells and shell fragments in fine to medium gravel range. 10 YR 7.5/0.5 (SP)				
-35.0	6.5		Layer of coarse shell fragments and fine quartz sand and silt. 10 YR 7/0.5 (GW)	100	7.0		7.5
-36.7	8.4		Yellowish fine quartz sand and silt with few scattered inclusions of gray plastic clay and large whole shells. 10 YR 7.5/3-8/3 (SM)				
			Brownish gray medium to fine silty quartz sand, medium plasticity. 10 YR 5/2.0 (SM)			-38.3	10
-41.7	13.4			100			12.5
-42.6	14.3		Large white oyster shells in matrix of medium to fine quartz gray quartz sand. 10 YR 7/0.5 (GW)			-43.3	15
			Brown medium quartz sand, abundant silt, inclusions of plastic clay, scattered large white oyster shells. 10 YR 4/2 (SM)	100			17.5
-48.5	20.2					Composite 0-5.0 ft.	20
						Revised 7/29/02	
							22.5

Sediment Analysis Data Sheet

Sample SM-8-1.0

Sieve	Size (mm)	Phi size	Wt %	Wt %	Cuml %	Folk	Statistics phi mm	
5/8	16.00	-4.00	0.00	0.00	0.00			
1/2	11.31	-3.50	0.00	0.00	0.00			
5/16	8.00	-3.00	0.00	0.00	0.00			
1/4	5.66	-2.50	0.48	1.39	1.39	5% :	-0.98	1.97
5	4.00	-2.00	0.70	2.03	3.42	16% :	1.76	0.29
7	2.83	-1.50	0.29	0.85	4.27	25% :	2.25	0.21
10	2.00	-1.00	0.24	0.70	4.96	50% :	2.67	0.16
14	1.41	-0.50	0.25	0.74	5.70	75% :	2.90	0.13
18	1.00	0.00	0.39	1.13	6.83	84% :	2.99	0.13
25	0.71	0.50	0.46	1.34	8.17	95% :	3.43	0.09
35	0.50	1.00	0.63	1.84	10.01			
45	0.35	1.50	1.09	3.17	13.19	Med.	2.67	0.16
60	0.25	2.00	1.83	5.34	18.53	Mean	2.47	0.18
80	0.18	2.50	4.49	13.09	31.62	St Dev.	0.97	
120	0.13	3.00	18.47	53.84	85.47	Skew	-0.57	
170	0.09	3.50	3.77	11.00	96.47	Kurt.	2.76	
200	0.07	3.75	0.16	0.46	96.93			
230	0.06	4.00	0.04	0.11	97.04			
Pan			0.02	0.06	97.10			
Total			33.31	97.10	97.10			
						Moment Statistics		
							Phi	mm
Cu =	1.55	Gravel			2	Mean	2.25	0.21
		Coarse Sand			3	St. Dev.	1.25	0.42
		Med. Sand			7	Skewness	-2.56	
Cc =	1.05	Fine Sand			85	Kurtosis	9.27	
		Silt/Clay			3			

U.S. STANDARD SIEVE OPENING U.S. STANDARD SIEVE NUMBERS HYDROMETER
IN INCHES



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION				PROJECT Olsen & Associates, Inc. - Cumberland Shoals	
1.0	-29.3'	Fine quartz sand (SP)				AREA	St. Mary's Inlet, FL
						BORING NO.	SM-8
						DATE	July 2002