

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=518840.300 Y=2320087.400				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-7				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 6 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 -7.4 Ft.			
9. TOTAL DEPTH OF HOLE 16.6 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	
-7.4	.0		Light gray fine quartz sand. 10 YR 7.5/0.5 (SP)			-7.4	0
				100	1.0		
-10.5	3.1		Light gray fine quartz sand, mixed with gray to white to light brown shell fragments in coarse sand to coarse gravel range. 10 YR 7.5/0.5 (SW)		3.0	Organic debris, vegetation-leaves, 3.1 ft	2.5
-12.5	5.1		Gray to light gray medium to fine quartz sand, very abundant gray to white whole shells and shell fragments in coarse sand to coarse gravel range. 10 YR 6.5/0.5-7/0.5 (SP)		5.0	-12.4	5
				100	7.0		7.5
-16.4	9.0		Light gray fine quartz sand, few thin layers of dark gray plastic clay. 10 YR 7.5/0.5-7/0.5 (SP)			-17.4	10
				100	11.0		12.5
					15.0	-22.4	15
-24.0	16.6			100		-24.0	17.5
						Composite 1 0-8.0 ft.	20
						Composite 2 0-15.0 ft.	
						Revised 7/29/02	
							22.5

Sediment Analysis Data Sheet

Sample SM-7-1.0

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	0.00	0.00	0.00			
5	4.00	-2.00	0.09	0.25	0.25	5% :	0.57	0.67
7	2.83	-1.50	0.23	0.68	0.93	16% :	2.04	0.24
10	2.00	-1.00	0.31	0.90	1.83	25% :	2.17	0.22
14	1.41	-0.50	0.28	0.83	2.66	50% :	2.50	0.18
18	1.00	0.00	0.32	0.94	3.59	75% :	2.78	0.15
25	0.71	0.50	0.40	1.17	4.77	84% :	2.87	0.14
35	0.50	1.00	0.58	1.69	6.46	95% :	2.99	0.13
45	0.35	1.50	0.77	2.25	8.71	Med.	2.50	0.18
60	0.25	2.00	1.41	4.11	12.81	Mean	2.47	0.18
80	0.18	2.50	12.60	36.77	49.59	St Dev.	0.58	
120	0.13	3.00	15.75	45.98	95.57	Skew	-0.35	
170	0.09	3.50	1.18	3.44	99.01	Kurt.	1.63	
200	0.07	3.75	0.05	0.14	99.14			
230	0.06	4.00	0.01	0.04	99.18			
Pan			0.01	0.02	99.20			
Total			33.98	99.20	99.20			
						Moment	Statistics	
							Phi	mm
Cu =	1.48	Gravel			0	Mean	2.31	0.20
		Coarse Sand			2	St. Dev.	0.82	0.57
		Med. Sand			6	Skewness	-2.93	
Cc =	0.91	Fine Sand			92	Kurtosis	12.98	
		Silt/Clay			1			

Sediment Analysis Data Sheet

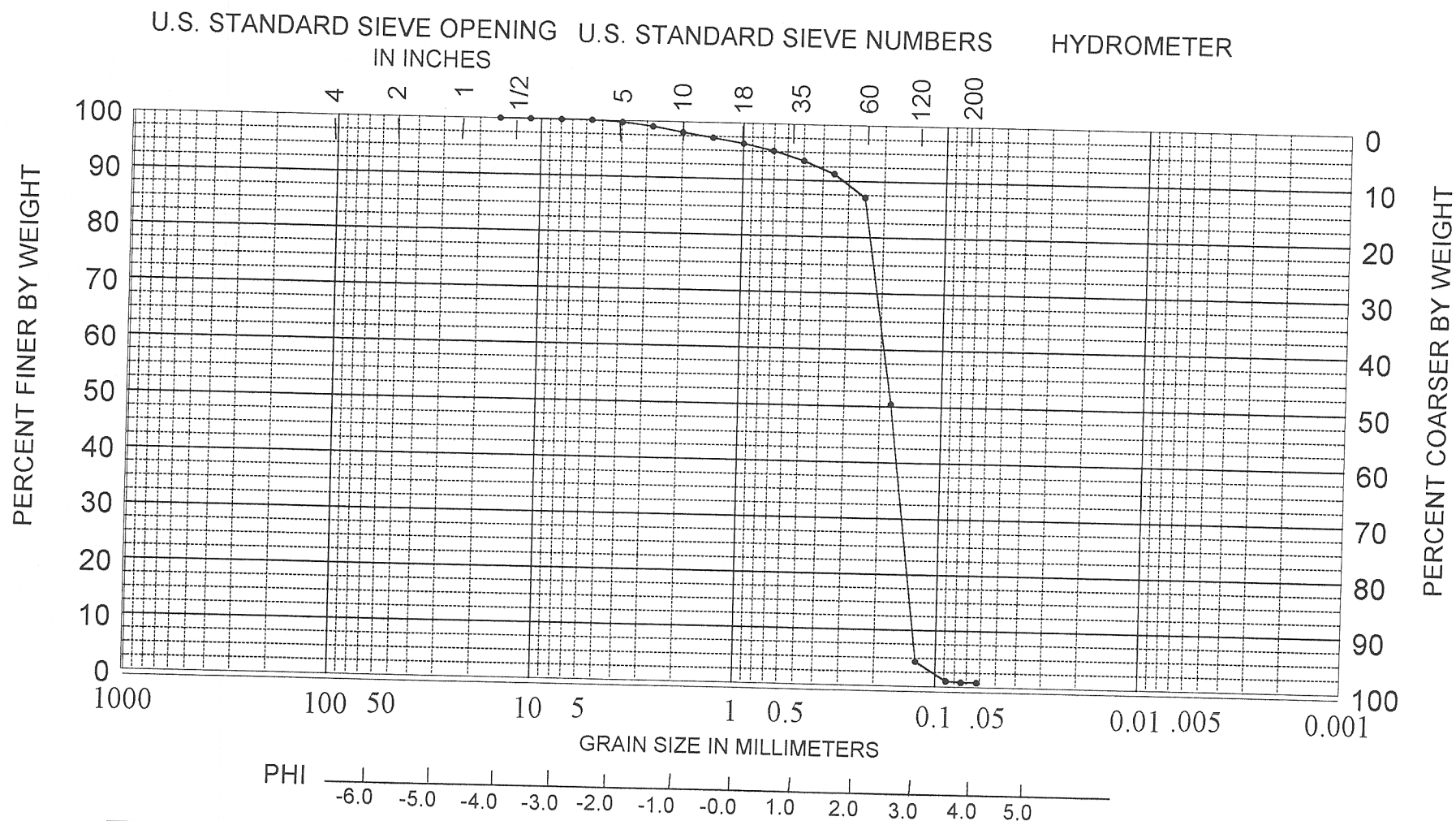
Sample SM-7-7.0

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	0.60	1.64	1.64			
1/4	5.66	-2.50	1.17	3.24	4.88			
5	4.00	-2.00	0.68	1.86	6.74	5% :	-2.47	5.53
7	2.83	-1.50	1.55	4.27	11.01	16% :	-1.05	2.07
10	2.00	-1.00	2.00	5.52	16.53	25% :	-0.26	1.20
14	1.41	-0.50	2.03	5.60	22.13	50% :	1.13	0.46
18	1.00	0.00	2.15	5.93	28.06	75% :	2.16	0.22
25	0.71	0.50	3.04	8.39	36.45	84% :	2.56	0.17
35	0.50	1.00	3.70	10.22	46.67	95% :	2.94	0.13
45	0.35	1.50	4.82	13.31	59.98	Med.	1.13	0.46
60	0.25	2.00	4.20	11.60	71.58	Mean	0.88	0.54
80	0.18	2.50	3.81	10.52	82.10	St Dev.	1.72	
120	0.13	3.00	5.31	14.65	96.75	Skew	-0.27	
170	0.09	3.50	0.70	1.93	98.68	Kurt.	0.92	
200	0.07	3.75	0.05	0.14	98.83			
230	0.06	4.00	0.02	0.06	98.89			
Pan			0.00	0.01	98.90			
Total			35.82	98.90	98.90			
						Moment	Statistics	
							Phi	mm
Cu =	4.27	Gravel			6	Mean	0.80	0.57
		Coarse Sand			11	St. Dev.	1.63	0.32
		Med. Sand			37	Skewness	-0.63	
Cc =	0.75	Fine Sand			46	Kurtosis	2.55	
		Silt/Clay			1			

Sediment Analysis Data Sheet

Sample SM-7-15.0

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	0.00	0.00	0.00	5% :	2.31	0.20
5	4.00	-2.00	0.00	0.00	0.00	16% :	2.56	0.17
7	2.83	-1.50	0.00	0.00	0.00	25% :	2.63	0.16
10	2.00	-1.00	0.00	0.00	0.00	50% :	2.82	0.14
14	1.41	-0.50	0.01	0.04	0.04	75% :	3.01	0.12
18	1.00	0.00	0.00	0.01	0.05	84% :	3.21	0.11
25	0.71	0.50	0.02	0.05	0.10	95% :	3.45	0.09
35	0.50	1.00	0.01	0.03	0.13			
45	0.35	1.50	0.02	0.07	0.20	Med.	2.82	0.14
60	0.25	2.00	0.12	0.37	0.56	Mean	2.86	0.14
80	0.18	2.50	2.37	7.16	7.73	St Dev.	0.34	
120	0.13	3.00	22.14	66.82	74.55	Skew	0.16	
170	0.09	3.50	7.48	22.57	97.11	Kurt.	1.23	
200	0.07	3.75	0.37	1.11	98.23			
230	0.06	4.00	0.10	0.30	98.53			
Pan			0.02	0.07	98.60			
Total			32.66	98.60	98.60			
						Moment	Statistics	
							Phi	mm
Cu =	1.52	Gravel			0	Mean	2.83	0.14
		Coarse Sand			0	St. Dev.	0.31	0.81
		Med. Sand			0	Skewness	-1.10	
Cc =	1.11	Fine Sand			98	Kurtosis	14.59	
		Silt/Clay			1			



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT Olsen & Associates, Inc. - Cumberland Shoals
1.0	-8.4'	Fine quartz sand (SP)	AREA St. Mary's Inlet, FL
			BORING NO. SM-7
			DATE July 2002

