

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=512975.600 Y=2319795.900				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-3				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 5 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 -10.5 Ft.			
9. TOTAL DEPTH OF HOLE 13.6 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	
-10.5	.0		Brown to light brown silty fine quartz sand, inclusions of gray plastic clay. 10 YR 6/2-6/3 (SM)			-10.5	0
-11.8	1.3		Dark gray plastic clay. 10 YR 4/0.5 (CL)		1.0		
-12.2	1.7		Gray to brownish gray silty, fine quartz sand, thin layers and inclusions of gray plastic clay. 10 YR 4/2 (SM)	100	3.0		2.5
-13.3	2.8		Light gray to light brownish gray fine quartz sand, some silt, thin layers and inclusions of gray plastic clay. 10 YR 7/1-7/2 (SP)			-15.5	5
-15.9	5.4		Light gray fine quartz sand, few thin layers of dark gray plastic clay. 10 YR 7/0.5-7/1 (SP)		7.0		7.5
-18.6	8.1		Light gray medium to fine quartz sand, layers of gray to white shells and shell fragments in coarse sand to medium gravel range, thin layers of dark gray plastic clay. 10 YR 7/0.5-7.5/0.5 (SP)	100	9.0	-20.5	10
-21.1	10.6		Layers of dark gray plastic clay interbedded with layers of light gray fine quartz sand. 10 YR 5/1 (SM)				
-21.5	11.0		Light gray fine quartz sand, few thin layers of dark gray plastic clay. 10 YR 7/0.5-7/1 (SP)	100	12.0	-24.1	12.5
-24.1	13.6						15
							17.5
							20
							22.5

No Composite.

Revised 7/29/02

Sediment Analysis Data Sheet

Sample SM-3-3.0

Sieve	Size (mm)	Phi size	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% :	0.69 0.62
5	4.00	-2.00	0.12	0.37	0.37	16% :	1.90 0.27
7	2.83	-1.50	0.11	0.36	0.73	25% :	2.55 0.17
10	2.00	-1.00	0.17	0.54	1.28	50% :	2.87 0.14
14	1.41	-0.50	0.17	0.54	1.82	75% :	3.23 0.11
18	1.00	0.00	0.31	1.00	2.82	84% :	3.36 0.10
25	0.71	0.50	0.43	1.38	4.21	95% :	3.51 0.09
35	0.50	1.00	0.66	2.11	6.32		
45	0.35	1.50	1.71	5.46	11.78	Med.	2.87 0.14
60	0.25	2.00	1.65	5.28	17.06	Mean	2.71 0.15
80	0.18	2.50	1.39	4.46	21.52	St Dev.	0.79
120	0.13	3.00	11.97	38.36	59.88	Skew	-0.44
170	0.09	3.50	10.41	33.36	93.24	Kurt.	1.70
200	0.07	3.75	1.06	3.38	96.63		
230	0.06	4.00	0.33	1.07	97.70		
Pan			0.03	0.10	97.80		
Total			30.52	97.80	97.80		
					Moment Statistics		
						Phi	mm
Cu =	1.64	Gravel		0	%	Mean	2.61 0.16
		Coarse Sand		1	%	St. Dev.	0.94 0.52
		Med. Sand		8	%	Skewness	-2.26
Cc =	0.93	Fine Sand		89	%	Kurtosis	8.99
		Silt/Clay		2	%		

Sediment Analysis Data Sheet

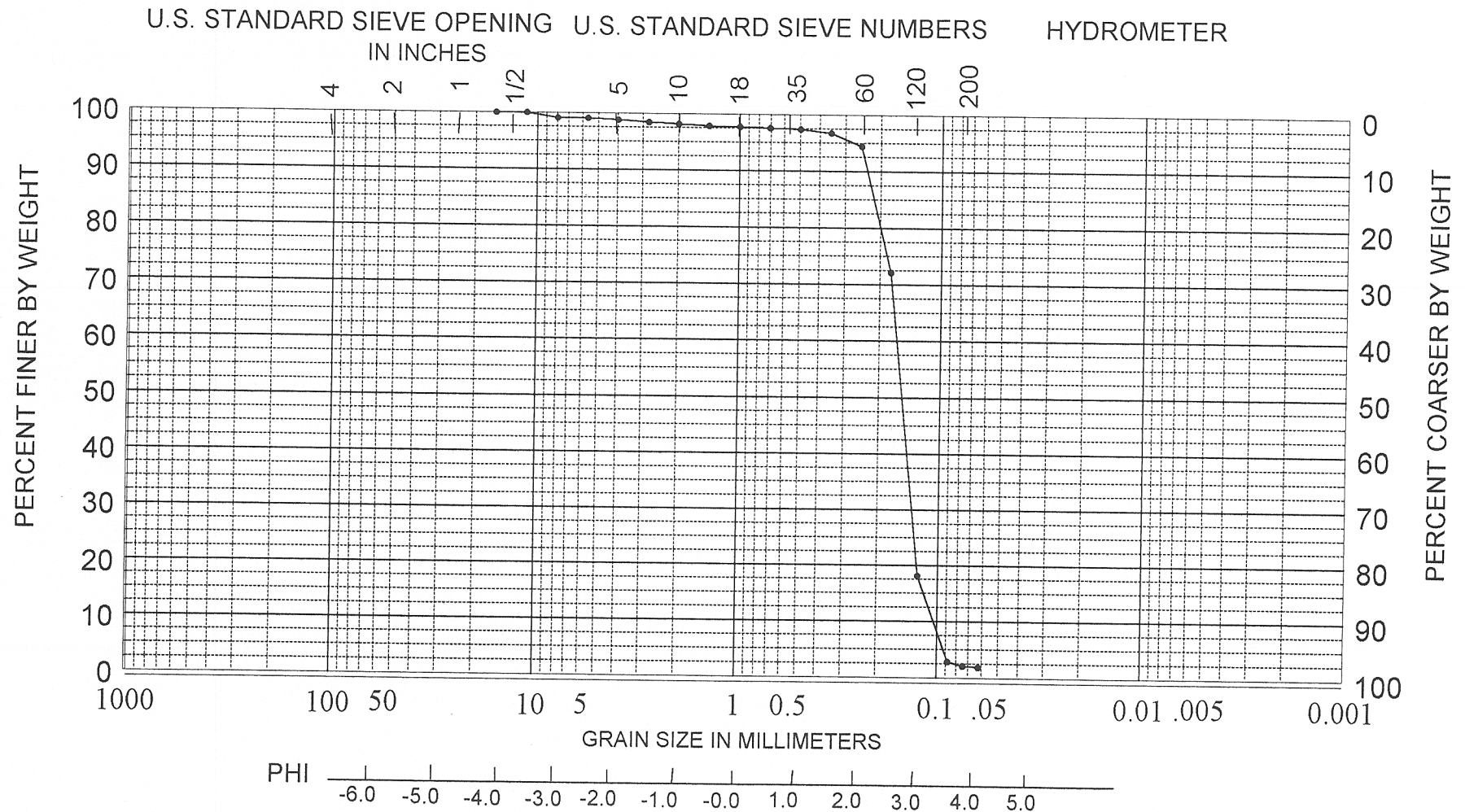
Sample SM-3-7.0

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	0.32	0.92	0.92			
1/4	5.66	-2.50	0.00	0.00	0.92	5% :	1.88	0.27
5	4.00	-2.00	0.08	0.24	1.16	16% :	2.23	0.21
7	2.83	-1.50	0.14	0.40	1.56	25% :	2.44	0.18
10	2.00	-1.00	0.10	0.30	1.86	50% :	2.71	0.15
14	1.41	-0.50	0.09	0.25	2.11	75% :	2.94	0.13
18	1.00	0.00	0.05	0.14	2.25	84% :	3.07	0.12
25	0.71	0.50	0.05	0.14	2.39	95% :	3.43	0.09
35	0.50	1.00	0.08	0.22	2.61			
45	0.35	1.50	0.21	0.60	3.21	Med.	2.71	0.15
60	0.25	2.00	0.82	2.36	5.57	Mean	2.67	0.16
80	0.18	2.50	7.74	22.23	27.80	St Dev.	0.44	
120	0.13	3.00	18.80	54.03	81.83	Skew	-0.10	
170	0.09	3.50	5.31	15.26	97.10	Kurt.	1.27	
200	0.07	3.75	0.26	0.75	97.85			
230	0.06	4.00	0.07	0.20	98.05			
Pan			0.02	0.05	98.10			
Total			34.14	98.10	98.10			
						Moment	Statistics	
							Phi	mm
Cu =	1.57		Gravel	1	%	Mean	2.57	0.17
			Coarse Sand	1	%	St. Dev.	0.84	0.56
			Med. Sand	1	%	Skewness	-4.68	
Cc =	1.07		Fine Sand	95	%	Kurtosis	29.88	
			Silt/Clay	2	%			

Sediment Analysis Data Sheet

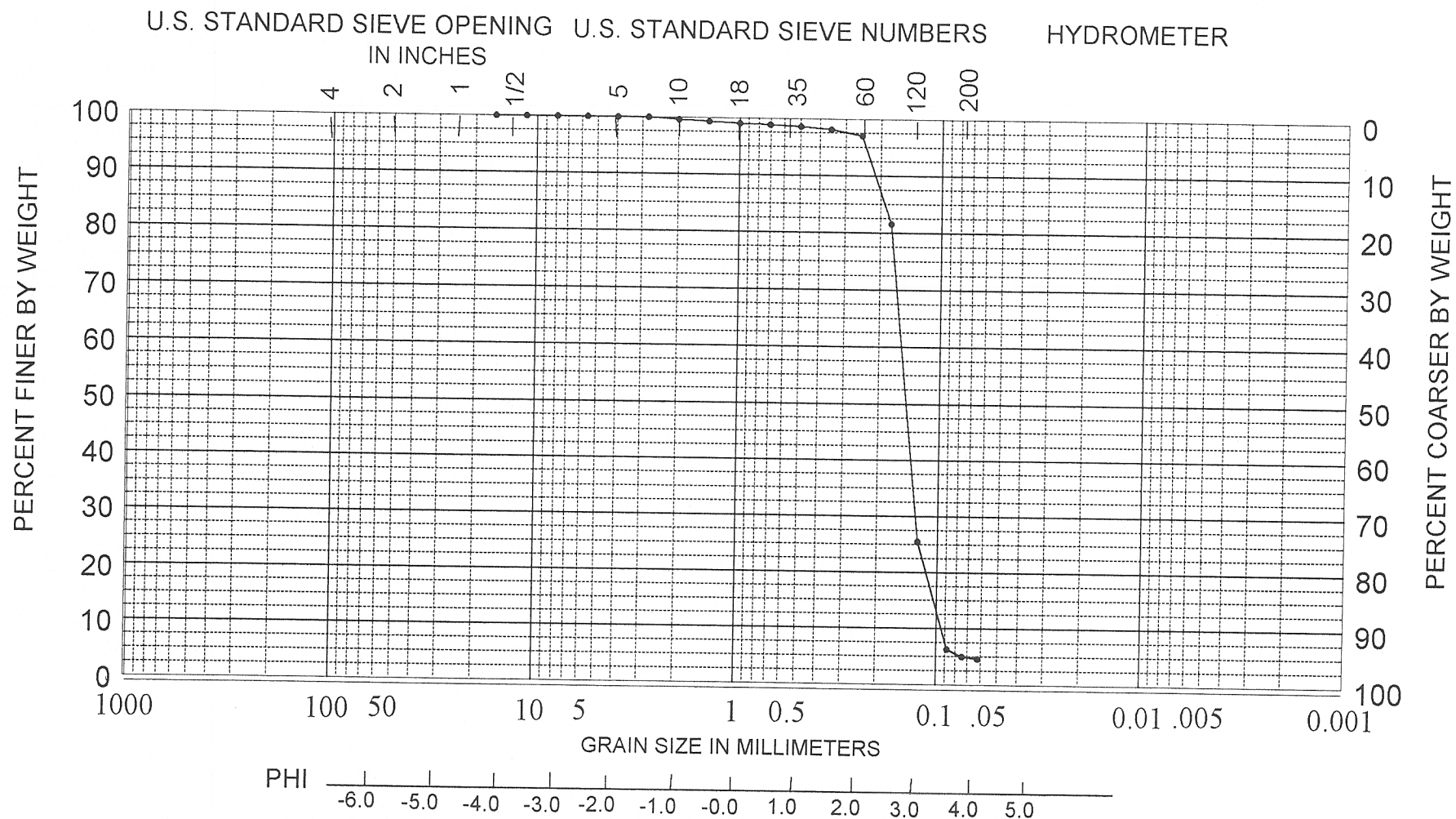
Sample SM-3-12.0

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% :	2.06	0.24
5	4.00	-2.00	0.00	0.00	0.00	16% :	2.42	0.19
7	2.83	-1.50	0.01	0.04	0.04	25% :	2.56	0.17
10	2.00	-1.00	0.10	0.30	0.34	50% :	2.78	0.15
14	1.41	-0.50	0.09	0.28	0.62	75% :	3.01	0.12
18	1.00	0.00	0.09	0.26	0.88	84% :	3.25	0.11
25	0.71	0.50	0.08	0.25	1.13	95% :	3.76	0.07
35	0.50	1.00	0.10	0.30	1.42			
45	0.35	1.50	0.13	0.39	1.81	Med.	2.78	0.15
60	0.25	2.00	0.40	1.20	3.01	Mean	2.82	0.14
80	0.18	2.50	5.10	15.36	18.36	St Dev.	0.46	
120	0.13	3.00	18.63	56.10	74.46	Skew	0.14	
170	0.09	3.50	6.40	19.28	93.74	Kurt.	1.53	
200	0.07	3.75	0.41	1.23	94.97			
230	0.06	4.00	0.14	0.43	95.41			
Pan			0.06	0.19	95.60			
Total			31.74	95.60	95.60			
						Moment	Statistics	
							Phi	mm
Cu =	1.64	Gravel			0	Mean	2.72	0.15
		Coarse Sand			0	St. Dev.	0.52	0.70
		Med. Sand			1	Skewness	-3.42	
Cc =	1.13	Fine Sand			94	Kurtosis	23.85	
		Silt/Clay			5			



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT Olsen & Associates, Inc. - Cumberland Shoals
7.0	-17.5'	Fine quartz sand (SP)	AREA St. Mary's Inlet, FL
			BORING NO. SM-3
			DATE July 2002



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV.	CLASSIFICATION	PROJECT Olsen & Associates, Inc. - Cumberland Shoals
12.0	-22.5'	Fine quartz sand (SP)	AREA St. Mary's Inlet, FL
			BORING NO. SM-3
			DATE July 2002