

Line 13

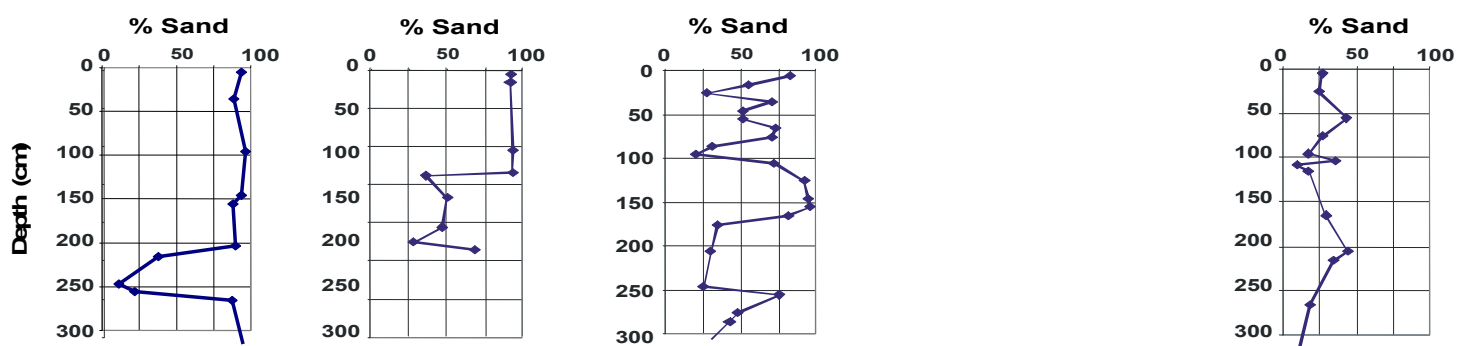


Figure 47: Fence Profile for Line 13

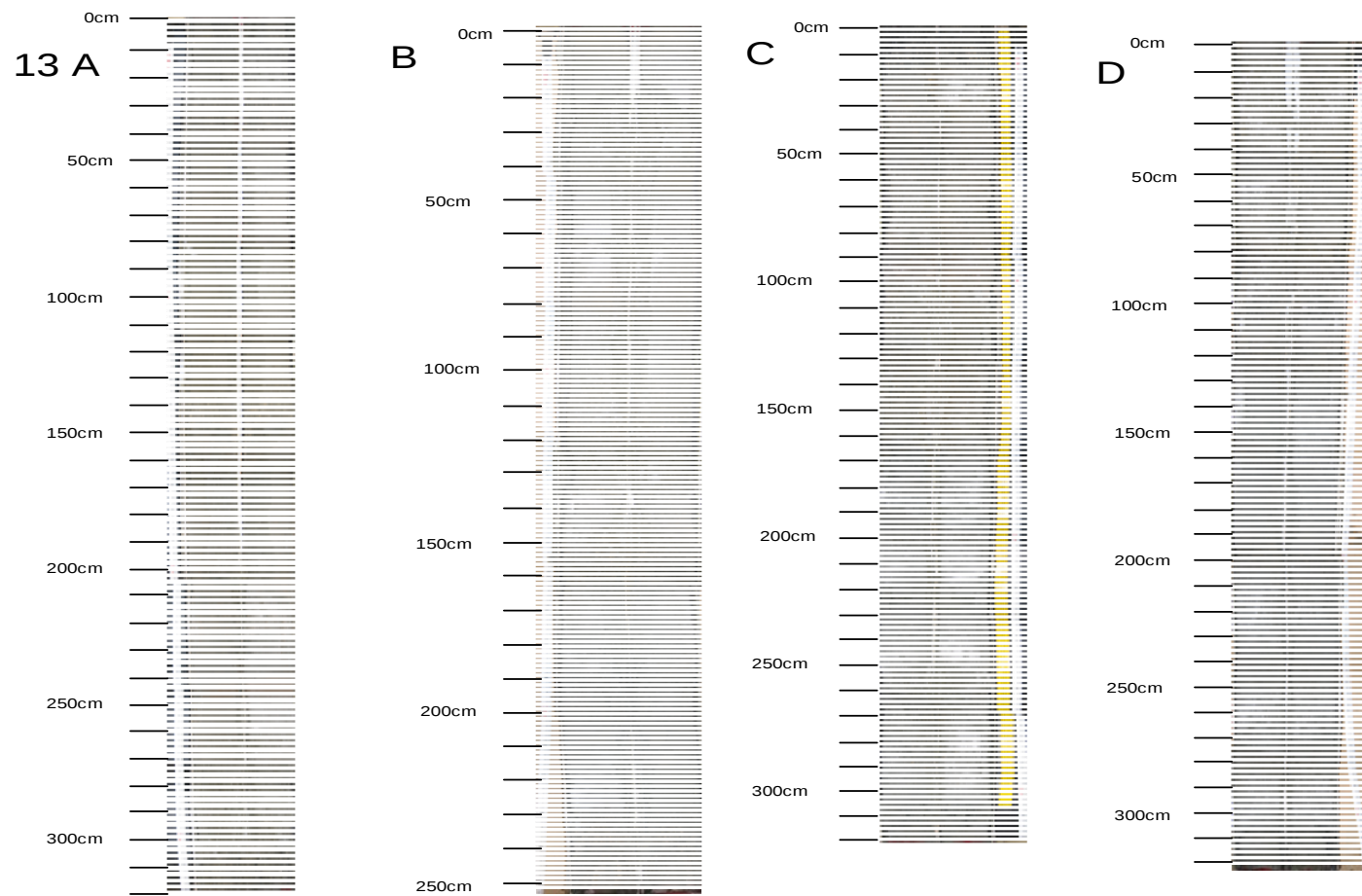


Figure 48: Core Photographs for Line 13

CORE 13A:

Core 13A was taken at a water depth of 4.76m (15ft) (Table1) and had a total length of 318cm (125.2in) (Figures 49-52). A total of 11 grain size samples were taken at

depths of 1-10cm (0.4-3.9in), 31-40cm (12.2-15.7in), 91-100cm (35.8-39.4in), 141-150cm (55.1-59.1in), 151-160cm (59.4-63in), 201-206cm (78.7-81.1in), 211-220cm (83.1-86.6in), 244-250cm (96.1-98.4in), 251-260cm (98.8-102.4in), and 311-320cm (122.4-126in). The top 206cm (81.1in) was observed to be sand, and contained at least 79% sand and had a mean grain size 0.093mm (3.4phi). From depths of 210cm (82.7in) to 320cm (126in) there is a decrease and then an increase in percent sand ranging from 9 to 92% (Tables 35&36). Sand and shell weights are shown in Table 34. Percent sand, silt and clay are shown in Table 35. Median grain size, mean grain size, skewness and sorting index are shown in Table 36. Graphs of the results are located in Figures 53-56.

It was determined that core 13A had approximately 268cm (105.5in) of sediment contained at least 50% sand, of which 100cm (39.4in) was located shallower than 1m (39.4in) depth. The average grain size in the upper 1m (3.28ft) was determined to be 0.1062mm.

Core#: 13A
Core Date: 7/18/05

Date Split/subsampled: 7/18/05
Length: 318cm
Lat: 29 11 51.3
Long: 94 54 01.8

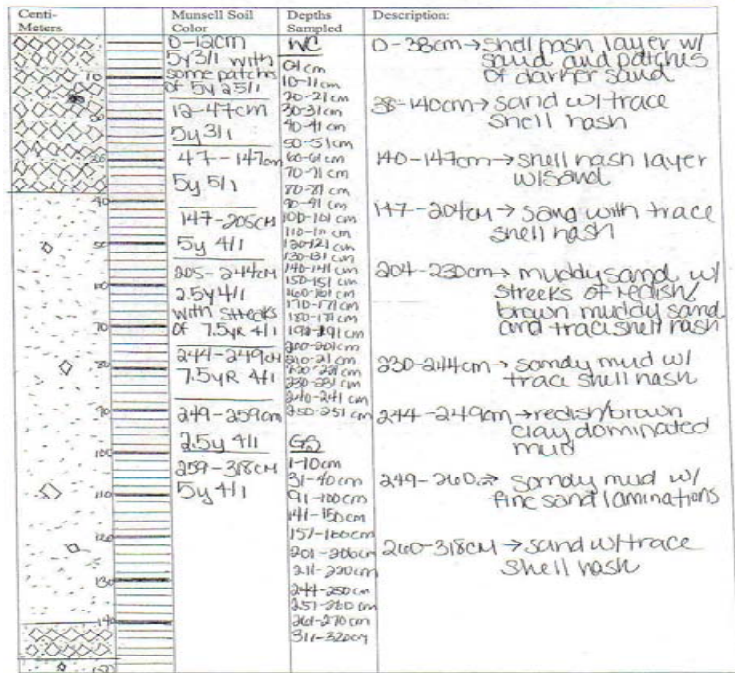
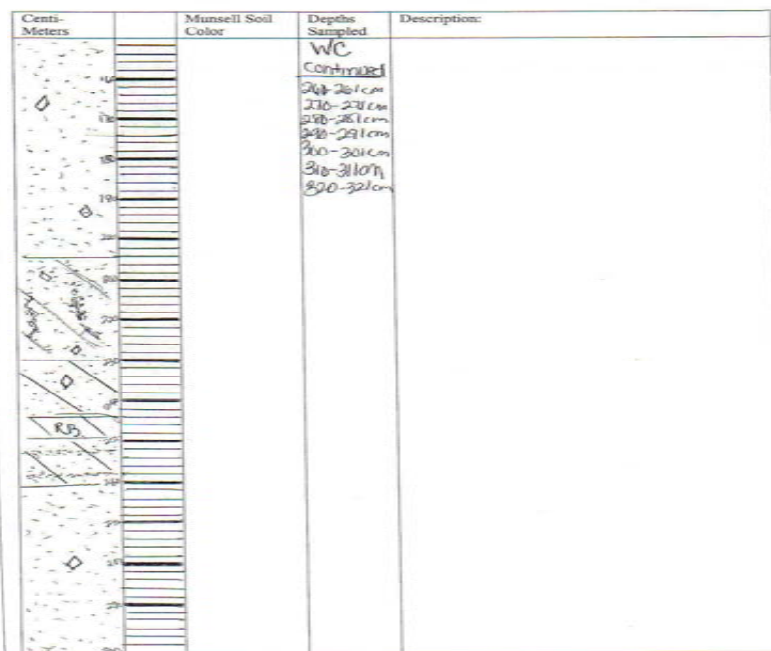


Figure 49: Core Log of 13A for depths 0-150cm

Figure 50: Core Log of 13A for depths 150-300cm

Core#: 13A
Core Date: 7/18/05

Date Split/subsampled: 7/18/05
Length: 318cm
Lat: 29 11 51.3
Long: 94 54 01.8



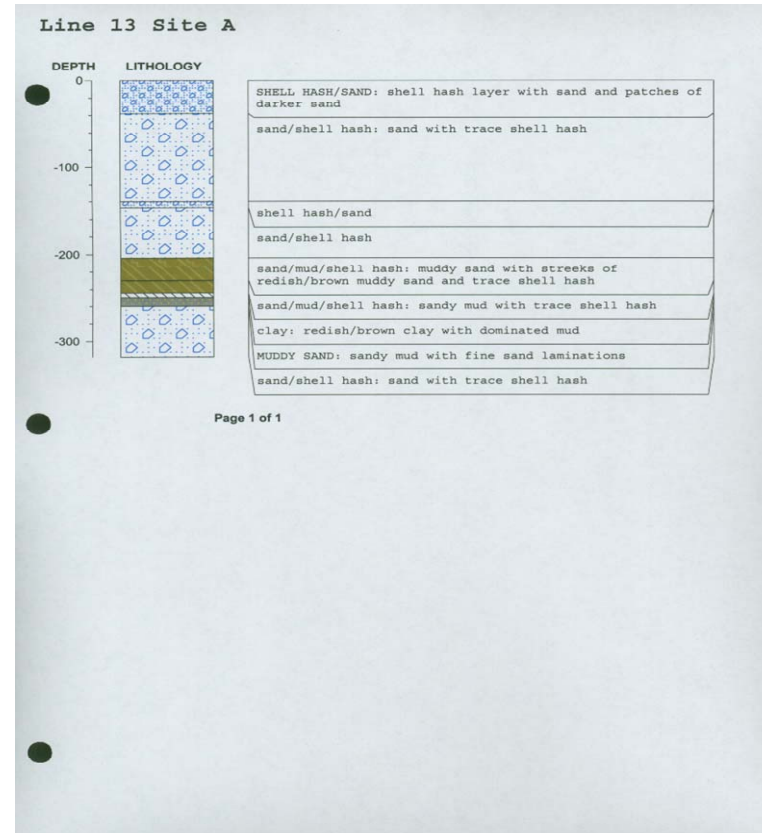
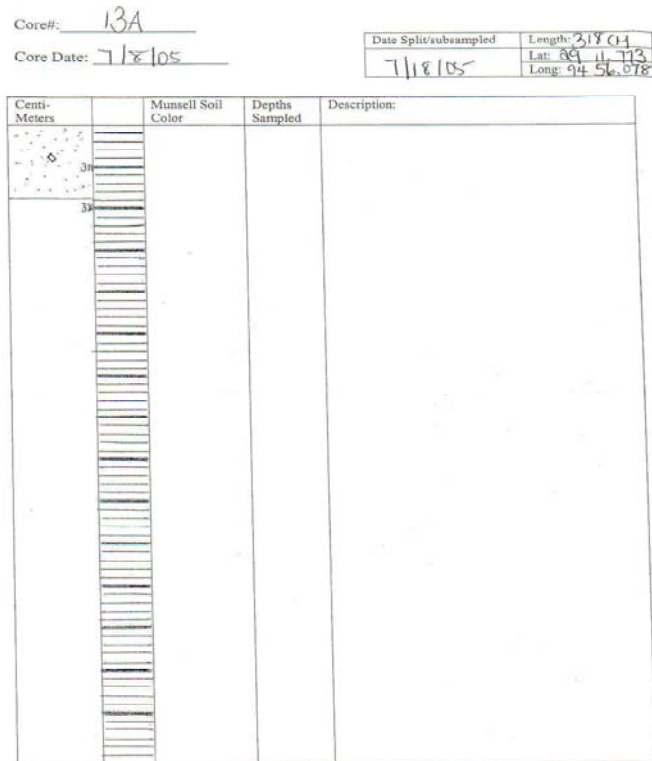


Figure 51: Core log of 13A for depths 300-318cm
 Figure 52: Computerized core log of 13A

Core ID	Sample Depth (cm)	#10/ 2.0mm Screen Sample Weight (g)	#14/ 1.40mm Screen Sample Weight (g)	#18/ 1.00mm Screen Sample Weight (g)	#25/ 710µm Screen Sample Weight (g)	#35/ 500µm Screen Sample Weight (g)	#45/ 355µm Screen Sample Weight (g)	#60/ 250µm Screen Sample Weight (g)	#80/ 180µm Screen Sample Weight (g)	#125/ 125µm Screen Sample Weight (g)	#170/ 90µm Screen Sample Weight (g)	#200/ 75µm Screen Sample Weight (g)	#230/ 63µm Screen Sample Weight (g)
13A	1-10	0.29	0.44	0.43	0.47	0.26	0.36	0.67	1.70	12.03	71.69	14.93	9.36
13A	31-40	3.28	2.49	1.85	1.40	0.66	0.65	1.03	2.46	22.63	90.88	9.55	7.17
13A	91-100	0.00	0.02	0.05	0.08	0.17	0.29	0.24	0.89	37.92	81.41	15.06	1.10
13A	141-150	2.28	1.55	0.91	0.57	0.34	0.38	0.71	1.80	29.51	107.13	24.14	10.17
13A	151-160	0.38	0.27	0.21	0.03	0.11	0.09	0.23	0.50	9.86	59.92	27.36	11.81
13A	201-206		0.01	0.03	0.06	0.09	0.25	0.28	0.64	11.79	82.04	15.42	7.22
13A	211-220											15.19	5.86
13A	244-250											2.08	0.39
13A	251-260											11.22	2.20
13A	261-270	0.00	0.02	0.02	0.03	0.04	0.13	0.44	1.14	20.99	121.35	16.69	7.53
13A	311-320	0.14	0.06	0.02	0.04	0.03	0.12	0.25	0.97	13.48	84.52	11.48	3.57

Table 32: RO-TAP data for core 13A

ASTM Classification		coarse sand	medium sand	medium sand	medium sand	medium sand	fine sand	fine sand	fine sand	fine sand	fine sand	fine sand	silt
Wentworth Classification		granule	very coarse sand	very coarse sand	coarse sand	coarse sand	medium sand	fine sand	fine sand	fine sand	very fine sand	very fine sand	very fine silt
Core ID	Sample Depth (cm)	% finer than N10/ 2.0mm/ -1.0Φ Screen	% finer than N14/ 1.40mm / -0.5Φ Screen	% finer than N18/ 1.00mm/ 0.0Φ Screen	% finer than N25/ 710µm / 0.5Φ Screen	% finer than N35/ 500µm/ 1.0Φ Screen	% finer than N45/ 355µm / 1.5Φ Screen	% finer than N60/ 250µm 2.0Φ Screen	% finer than N80/ 180µm/ 2.5 Φ Screen	% finer than N125/ 125µm/ 3.0Φ Screen	% finer than N170/ 90µm / 3.5Φ Screen	% finer than N200/ 75µm / 4.0Φ Screen	% finer than 4µm/ 8Φ
Observed Contents of the sample		shell only	shell only	shell only	shell only	shell only	shell only	shell only	sand	sand	sand	sand	silt
13A	1-10	99.8	99.4	99.0	98.6	98.4	98.1	97.5	96.1	85.8	24.9	12.2	2.3
13A	31-40	97.8	96.2	94.9	94.0	93.6	93.1	92.4	90.8	75.8	15.3	9.0	2.4
13A	91-100	100.0	100.0	100.0	99.9	99.8	99.6	99.4	98.8	72.0	14.5	3.9	1.7
13A	141-150	98.8	97.9	97.4	97.1	96.9	96.7	96.4	95.4	79.4	21.5	8.4	1.7
13A	151-160	99.7	99.5	99.3	99.3	99.2	99.1	98.9	98.5	90.6	42.4	20.3	3.4
13A	201-206	100.0	100.0	100.0	99.9	99.9	99.7	99.5	99.0	90.0	27.3	15.5	4.8
13A	211-220											72.5	31.8
13A	244-250											90.7	37.8
13A	251-260											81.4	40.9
13A	261-270	100.0	100.0	100.0	100.0	99.9	99.9	99.6	99.1	88.1	25.1	16.4	5.7
13A	311-320	99.9	99.8	99.8	99.8	99.8	99.7	99.5	98.6	87.5	17.3	7.8	2.3

Table 33: Percent Finer table for core 13A

Core ID	Sample Depth (cm)	shell weight	200+ weight	200-230 weight	sand + shell
13A	1-10	2.25	101.02	9.36	103.27
13A	31-40	10.33	126.55	7.17	136.88
13A	91-100	0.61	135.52	1.10	136.13
13A	141-150	6.03	163.29	10.17	169.32
13A	151-160	1.09	97.87	11.81	98.96
13A	201-206	0.44	110.17	7.22	110.61
13A	211-220		15.19	5.86	15.19
13A	244-250		2.08	0.39	2.08
13A	251-260		11.22	2.20	11.22
13A	261-270	0.24	160.61	7.53	160.85
13A	311-320	0.41	110.70	3.57	111.11

Table 34: Shell and Sand weights for core 13A

Core ID	sample id	mid sample depth	% shell	% sand	%silt	%clay	total %
13A	1-10	5.5	1.9	85.9	9.9	2.3	100
13A	31-40	35.5	6.9	84.2	6.6	2.4	100
13A	91-100	95.5	0.4	95.7	2.1	1.7	100
13A	141-150	145.5	3.3	88.3	6.7	1.7	100
13A	151-160	155.5	0.9	78.8	17.0	3.4	100
13A	201-206	203.5	0.3	84.1	10.7	4.8	100
13A	211-220	215.5		27.5	40.8	31.8	100
13A	244-250	247		9.3	52.9	37.8	100
13A	251-260	255.5		18.6	40.6	40.9	100
13A	261-270	265.5	0.1	83.5	10.7	5.7	100
13A	311-320	315.5	0.3	91.9	5.5	2.3	100

Table 35: Percent Shell, Sand, Silt and Clay for core 13A

Station ID	Average Depth	Median Grain Size	Median Grain Size	Mean Grain Size	Mean Grain Size	Skewness	Sorting Index
	(cm)	(phi)	(mm)	(phi)	(mm)		
CC13A/1-10	5.5	3.291	0.1017	3.3247	0.0994	0.1879	0.3359
CC13A/31-40	35.5	3.205	0.108	3.1955	0.1087	-0.3335	0.7549
CC13A/91-100	95.5	3.182	0.1097	3.1713	0.1105	-0.0491	0.3069
CC13A/141-150	145.5	3.251	0.1046	3.2544	0.1044	-0.0059	0.3519
CC13A/151-160	155.5	3.41	0.0937	3.4198	0.0930	0.0869	0.3475
CC13A/201-206	203.5	3.309	0.1005	3.3673	0.0965	0.3527	0.3743
CC13A/211-220	215.5						
CC13A/244-250	247						
CC13A/251-260	255.5						
CC13A/260-270	265	3.267	0.1034	3.3077	0.1006	0.3299	0.3544
CC13A/311-370	340.5	3.252	0.1045	3.2489	0.1040	0.1386	0.255

PINK=Upper sand area

Table 36: Median grain size, Mean grain size, Skewness and Sorting Index for core 13A

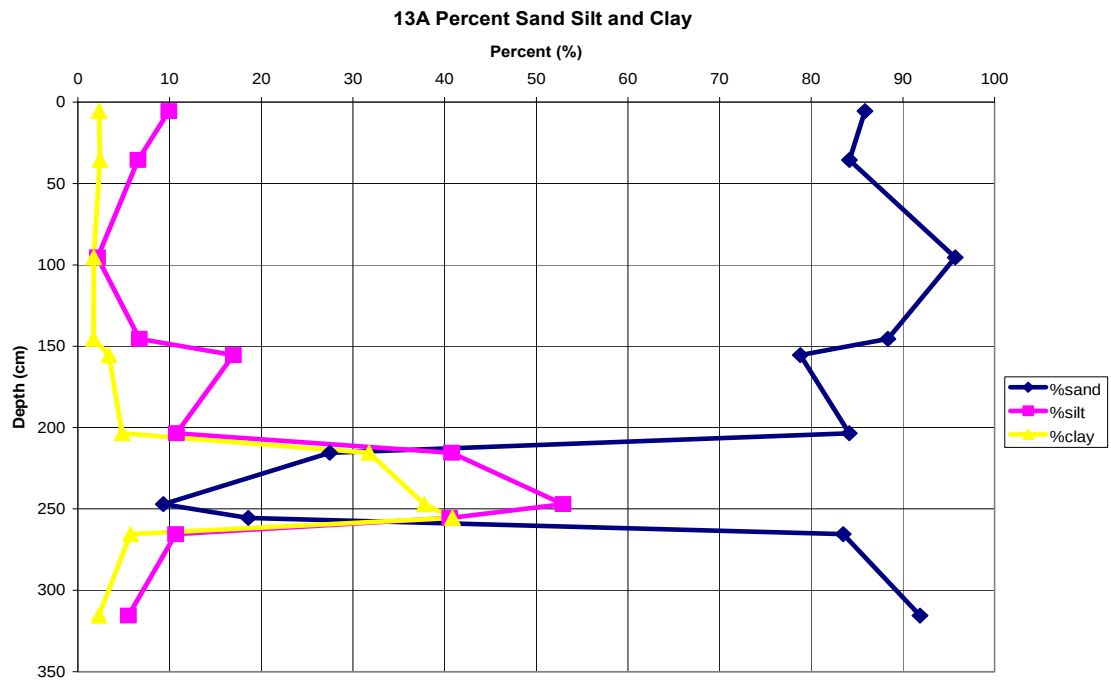


Figure 53: Percent Sand, Silt and Clay graph for core 13A

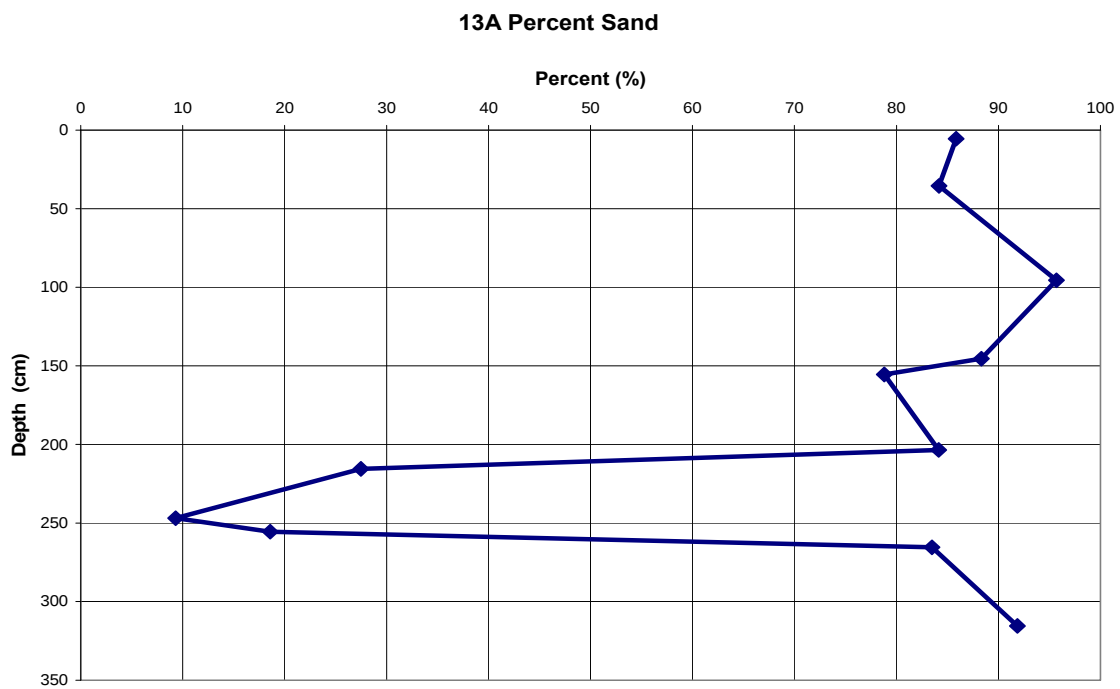


Figure 54: Percent Sand graph for core 13A

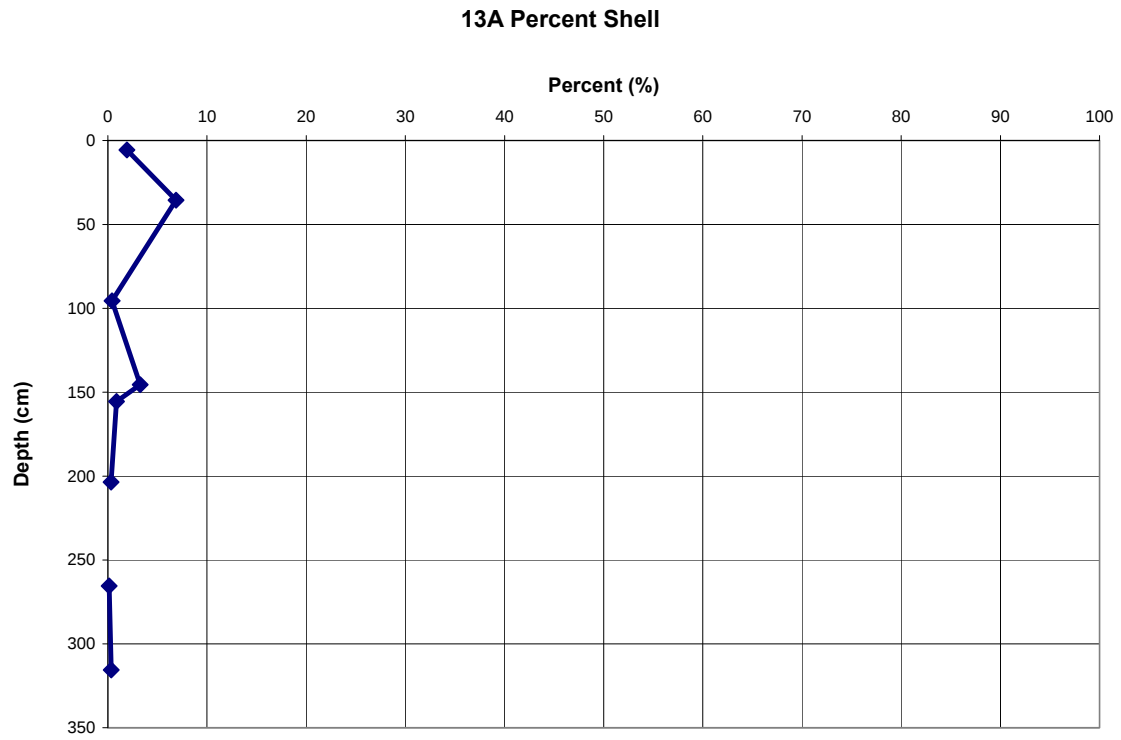


Figure 55: Percent Shell graph for core 13A

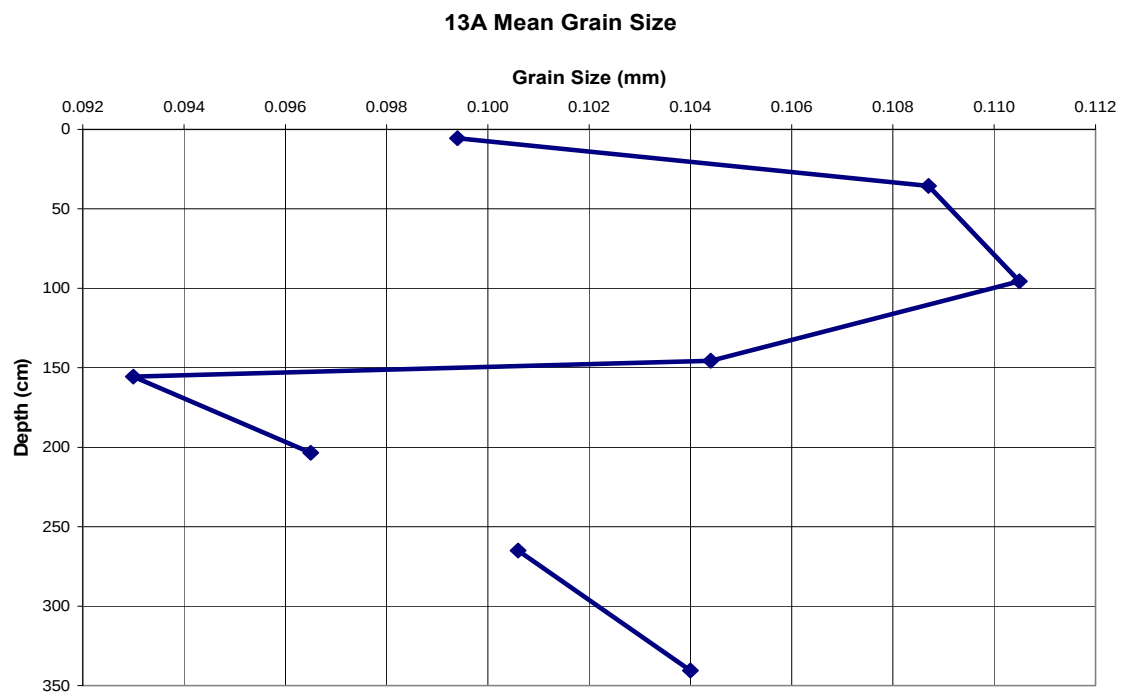


Figure 56: Mean Grain Size for core 13A