

Sample Description For Virginia Beach Geoprobe Site 62D 15

Depth	Lithology	Recovery	Description
0-4		99+	Tan sand at 3.8 ft
4-8		90+	
8-12		90+	Water at 9.5 ft. Tan silty sand with small lenses of bluish gray sandy silt. Bands of iron staining.
12-16		5	Extremely wet on top. Nearly dry at the bottom. PVC liner shattered. Perched zone? Stiff med-fine sandy silt from appx 14-15.5. Unable to recover core intact - had to extract piecemeal. Upper 2-3 feet was nearly liquid.
16-20			Unable to retrieve core intact. Obtained 8-10" from near top of zone (bagged). Bottom of zone is a coarse-v. coarse, orangish-tan, subangular to well rounded sand w/ minor silty fine sand.
20-22		90+	Gray, subrounded-rounded, fine-medium, moderately sorted, qtz sand. Trace dark grains. Good water bearing unit. Material is oxidizing quickly at surface.
22-24		30	Same as above, perhaps more medium grained. Excellent water. Shattered liner during retrieval. Collected a bag sample from appx 23 ft.
24-26			No information
26-28		90	Gray, fine-med, moderately well sorted sand. Increase in the amt of silt and dark grains. Shell frags.
28-36			Driller Note: Easy pushing. No hammering needed. Feels similar to the last two sampled intervals.
36-38		95	Silty sand to sandy silt. Substantially more silt in this interval than before. Siltiest at 36 ft, becoming sandier downward. Material has a degree of plasticity to it where absent before. Few scattered shell frags. Liner shattered, but full recovery. Bagged samples.
38-43			Driller Note: More resistant than overlying layers, requiring hammering. Noted a change at 43'
44-46		95+	Sample is drier than the last 4 cores. Silty fine sand. Traces of dark grains and mica. Siltier upwards. No shell.

Sample Description For Virginia Beach Geoprobe Site 62D 15

46-56			Driller Note: Easy push, no hammer. Feels similar to 44-46 ft.
56-58		0	No recovery. Very wet core liner. Either losing core to cohesion, to extreme liquidity of sample, or to softness of material causing it to be pushed out of way.
58-60			Driller Note: Interbedding of soft and hard beds. Geoprobe is rocking up and down every foot ore so. Easier-harder-easier. Still no hammering needed.
60-62		95+	cm-scale interbedding of silty fine sand to fine sandy silt & clayey silt to silty clay. No shell. No water draining from sample. Top of sample has a small amount of excess water.
62-70			No information
70-72		90	Upper 1.3 ft is a silty fine sand. Much excess water. Lower 0.6 ft is a plastic silty clay to clayey silt.
72-76.3			Driller Note: Very hard drilling starting at 75.5 ft. Hardest yet encountered.
76.3-78		90	Moderately well sorted, subangular, fine to med. sand. Trace of dark grains and mica. No shell. Upper 0.3 ft of liner damaged during retrieval and removed.