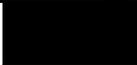
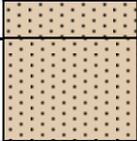


Sample Description For Virginia Beach Geoprobe Site 61C 37

Depth	Lithology	Recovery	Description
0-4		100	Organic-rich soil near surface grading to a silty med sand near 4 ft.
4-8		95+	Silty med sand grading to a med sand at 5.5 ft. Material at 8 ft is a light gray to light tan clean, subrounded, med sand. Trace of DM. Material is wet, but uncertain whether we have reached the WT because the liner was dry when we retrieved it from the sample barrel.
8-12	 	95	Saturation at 8.5 ft. Removed upper 0.7 ft of liner (containing 0.4 ft of sample) to retrieve the drive point. Color change from tan to gray at 9.9 ft. Upper material is a tan, clean, med sand. A small pebble bed is at 8.8 ft. Lower material is a well sorted, subrounded, fine to med med sand. DM are abundant.
12-16			
16-19.5		100	16-17.8 ft is a tan, well sorted, subangular, med sand with DM (uncertain whether the material is tan in situ or oxidized on trip up, probably the latter). Material is very permeable. Silty bed from 17.8-18.3. 18.3-19.5 is a slightly silty, med to v coarse sand. DM scarce. This material is a good water bearing zone. Water present in two drill flights.
19.5-28			Driller Note: Easier hammering beginning at 27 ft.
28-31.5		100+	Drilling felt similar to 27 ft. 28-30 ft is a fine to med sand becoming a silty, v fine to med sand w/ traces of shell frags below 30 ft. Water present in 3 drill flights. SC = 250 μ S/cm.
31.5-36			Driller Note: Pushing became easier at 34-35 ft.
36-39.5		100+	Silty, v fine to med sand. Mica and DM present. Material has low permeability. Slightly plastic.
39.5-44			Driller Note: Easy pushing, no hammer, from 40-43.5. Hammering needed beginning at 43.5, but still driving easily. Much more difficult driving starting at 44 ft.
44-47.5		50+	Liner split. Collected 2 bag samples. Poorly sorted, subangular to well rounded, coarse to v coarse shelly sand. DM present. Abundant shell frags (up to fine pebble sized). Material retrieved from shoe is a silty, v fine to fine sand w/ DM and scarce shell. Pebble sized, very hard clayey silt nodules were obtained.

Sample Description For Virginia Beach Geoprobe Site 61C 37

47.5-52			Driller Note: Switching to the 2 ft sampler. Little to no hammering required to drive.
52-54		95+	Upper 1.8 ft is a silty, v fine to med sand. It is slightly plastic. Shell frags uncommon. DM common. Lower 0.2 ft is much less silty, but otherwise similar to the upper 1.8 ft.
54-58			Driller Note: Drilling became moderately more difficult at 55-56 ft and by 57 ft much more difficult, requiring hammering the entire time. The probe still advances easily, however.
58-60		50+	Lost most of sample during liner retrieval from sample barrel. Material was uniform throughout the interval and was a v fine to fine sand w/ mica and DM. Thin lenses of silt or clay are present, but rare.
60-69			Material feels similar to that 58-60 ft. At 68 ft driving became very difficult, nearly stopping our advance.
69-70		150	Well sorted, clean, med sand. DM and trace of mica.