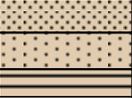


## Sample Description For Virginia Beach Geoprobe Site 61C 38

Depth	Lithology	Recovery	Description
0-4		70	Interbedded sand and silty sand to ~3 ft. Lower portion of interval is a coarse, pebbly, silty, med to coarse sand. Abundant wood frags and organics.
4-8		40	Material is highly variable through this interval. Fred had difficulty driving through the last 1-2 ft. Material ranges from a silty fine to med sand to a clayey silty to silty clay. A 1 cm layer of peat was obtained from the drive shoe, which was immediately overlain by a silty clay. Coarse to v coarse pebbles are found in the silty sands.
8-12		100	8-10.2 ft is interbedded sand, silt, and peat. 10.2-11 ft is a gray, med sand. 11-11.3 ft the soil changes to a tannish-gray color. At 11.3 ft the color abruptly changes to an orangish-brown. The orangish-brown material is a well sorted, subangular, fine to med sand; DM are rare. Saturation at ~10.2 ft.
12-16		100	Material is similar to the bottom of the last interval. SC = 287 $\mu$ S/cm
16-20			Driller Note: Hard hammering required to drive sampler.
20-24		Not noted	Lost most of this sample while extracting the liner from the barrel. Gray, slightly silty fine to med sand.
24-28			Driller Note: Switching to the 2 ft sampler. Easy pushing to 27 ft. At 27 ft, pushing became more difficult, requiring light hammering.
28-30		1-2	Silty, v fine to fine sand. Moderately plastic. Liner was mostly empty upon retrieval from barrel. The only portion retrieved was stuck to the drive shoe. <b>Material probably very wet, soft, and plastic causing the sample to pull (or slide) out of the barrel during retrieval. Mica and DM present.</b>
30-32			Easy pushing to 31 ft. Required light hammering from 31-32 ft. Became softer at 32 ft.
32-34		1	Lost most of sample again. Drive point was only pushed ~25% of the way up the barrel. Material is very soft and liquidy. Material retrieved is probably from the firmer zone 32-33 ft. It is a fine to med sand w/ a little silt. Mica and DM present. Material stuck in shoe is a silty, v fine to fine
34-48			Driller Note: Material is still very soft from 34-47 ft. Occasional a harder bed (< 1ft) requiring hammering is encountered, but mostly easy, no hammer, pushing. At 47 ft, drilling became harder requiring hammering.
48-50		80	Lost ~25% of sample during retrieval from the sampler. I bagged what I salvaged. Material is a gray, fine pebbly, fine to v coarse sand. DM abundant. Pink colored grained are rare.

## Sample Description For Virginia Beach Geoprobe Site 61C 38

50-60			Driller Note: Same material as above from 50-60 ft.
60-61.5		95	Gray, subrounded to well rounded, med to coarse sand. Abundant DM, no mica or shell, occasional v coarse sized grains. SC = 206 $\mu$ S/cm.
61.5-75			Driller Note: Drilling similar to that needed for 60-61.5 ft. From ~64--70 ft, it was slightly easier, but became harder again from 70-72 ft. At 74.5 drilling became much softer.
75-77		25	Gray, fine to med sand w/ abundant DM, some mica, v coarse sand to v fine pebble sized wood frags. Upper interval contains thin silty/clayey lenses and overall is slightly finer grained than the lower portion. The pushing for this sample was v. easy. We had 14 flights of water!
77-78.5			Driller Note: Stopped dead at 78.5 ft.
78.5-80		100	Silty, poorly sorted v fine to med sand. Abundant fine sand-sized shell frags. Thin lenses of sandy silt and coarse sand found in this interval.