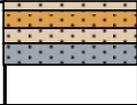
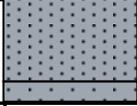
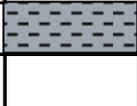
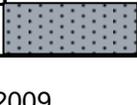


## Sample Description For Virginia Beach Geoprobe Site 61C 36

Depth	Lithology	Recovery	Description
0-4			
4-8		75	4 color zones: 4-4.5: med brown; 4.5-5.2: orangish brown; 5.2-6.3: brownish gray; 6.3-6.8: gray. Upper zone has a 0.05 ft cap of gray silty coarse sand which is immediately underlain by a brown to tan, coarse sand. V coarse sand to v fine pebbles rare. The two middle zones appear to be med sands. Lowest zone is a gray, clean, lower med qtz sand. DM common.
8-10			
10-14		100	10-12 ft: similar to bottom of last sample - dark gray, lower med qtz sand. DM common. 12-? Ft: slightly silty, sandy shell hash. The entire sample is v full of water and much of it ran out of the liner when we pulled it from the barrel. The sample was v soft - easy pushing to collect.
14-16			Driller Note: Much more difficult to drive around 15-15 ft.
16-20		90+	16-18 ft: gray, angular to well rounded, well sorted, lower middle coarse qtz sand. Shell frags 0.5-7 mm common. DM abundant. 18.2-18.4 ft: sequence fines. 18.4-20 ft: gray, well sorted, subangular to well rounded, clean, lower to middle med qtz sand. DM abundant. Medium sand-sized shell frags common. SC = 675 $\mu$ S/cm. 2 drill flights of water.
20-24		90+	Driller Note: Very hard driving to collect 20-24 ft. Removed upper 1.5 ft of sample to retrieve drive point. Sample v wet - runs out of liner. 20-21 ft: gray, clean, rounded to well rounded, upper fine to lower med qtz sand. DM abundant. Coarse to med sand-sized shell frags uncommon. 21-23 ft: gray, med sand similar to the one described at 18.4-20 ft. 23-23.5 ft: similar to above, but more shells. 23.5-24 ft: gray, moderately well sorted, upper med to upper coarse qtz sand. Mica uncommon. DM and colored grains common. NO SHELL. SC = 503 $\mu$ S/cm. 4 drill flights of water.
24-28			Driller Note: Same difficult driving to 26.5 ft. Easier (no hammering) from 26.5-30 ft.
28-30		75	Gray, v fine to fine sandy silt interfingered with clayey silt. Mica common to abundant. Much water in sample, but low permeability.
30-34			Driller Note: Much harder at 34 ft. Hammering now needed.
34-36		100	Gray, v fine to lower fine sand. Very slightly silty and v v slightly plastic. DM and mica abundant.
36-40			Driller Note: 38-39 ft driving got very easy - no hammering.
40-42		100	Gray, clayey silt. DM and mica abundant. Thin (<1 cm) lenses of silty clay containing less DM and mica are interfingered throughout on a scale of 0.5 to 2 cm.
42-48			Driller Note: Same feel as above down to 47 or 48 ft. Then began encounter occasional harder beds. Alternating hard-soft-hard.
48-50		95	48-48.8 ft: gray, med to upper fine sand. DM and mica abundant. 48.8-49.5 ft: material fines. 49.5 ft: coarsens to an upper fine to lower med sand. DM and mica abundant. The entire zone is well saturated and full of water, but has low permeability.

## Sample Description For Virginia Beach Geoprobe Site 61C 36

50-64.5			Driller Note: Hard drilling from 50-63 ft. At 63 ft is became very hard and we were stopped dead at 64.5 ft.
64.5-65.5		100+	Gray, clean, subangular to well rounded, med sand. DM common. Mica uncommon. SC = 1024 $\mu$ S/cm.