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Subject: Chilmark / Squibnocket / Geo-tech boring plan and narrative.
Date: Thursday, May 28, 2015 8:00:00 PM
Attachments: [Preliminary Boring Plan.pdf](#)
Importance: High

The following site characterization / subsurface exploration is planned within land owned in fee by the Town of Chilmark as shown approximately on the attached annotated survey/conceptual site plan.

Site preparation/identification of work

Prior to excavation, all test pit and test boring locations will be marked in the field with stakes and white flagging for Dig Safe purposes. While subsurface exploration includes one soil boring within a state and locally regulated bordering vegetated wetland, efforts will be made to avoid and minimize potential impacts to the wetlands and Squibnocket Pond to the extent practicable.

Test Borings

Two test borings are contemplated within Town-owned land. Additional borings could be necessary if refusal is encountered at a shallow depth. Test borings will be completed using a track mounted or rubber tired all-terrain vehicles (ATV). Borings are anticipated to be completed using drive and wash techniques. 4.5 Inch outside diameter (O.D.) steel casing will be driven to sampling depth and washed out using a roller bit. Wash water and cuttings will be contained in a mud tub. Split spoon samples will be collected every 5 feet or at stratigraphic changes (based on drill action). The sampler will be driven in accordance with ASTM D1586 Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils. It is possible that Hollow Stem Augers (HSA) may be used instead of the drive and wash technique. If HSA method is used 8.5-inch O.D. augers will be used to advance the borehole to the sampling intervals. Test borings are anticipated to be 35 feet in depth or less, however the soil conditions and/or elevation of bedrock will determine the final depth of each boring. Upon completion boreholes will be backfilled with drill cuttings and pea gravel as necessary to grade. Wash water will be disposed of in a suitable upland location outside of any local or state regulated wetland resource area or buffer zone.

Test pits

Two test pits are contemplated within Town-owned land using a rubber tired backhoe (e.g., Case 580 or similar). We anticipate that test pits will be excavated to a depth less than 12 feet. The actual dimensions of the test pits will be dictated by the depth excavated. In general we anticipate that shallow test pits will be 10-15 feet long by 4 feet wide. Deeper test pits will be longer and wider. For safety purposes the sides of the excavation may be widened or sloped back to prevent sidewall collapse. Upon completion the test pits will be backfilled with spoils from the excavation and compacted with the bucket of the backhoe. The soil surface of the disturbed areas will be temporarily stabilized by clean straw and allowed to re-vegetate naturally or re-seeded if required by the Chilmark Conservation Commission.

[Team Notes regarding the plan.](#)

TP-2, TP-3, SC-3, SC-4 are all on Town-owned land.

The rest of the TP and SC's are not within town-owned land.

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