

Scope of Work for DOT Well Testing in Boxborough

DRAFT 20220110

Prepared by the Boxborough Water resources Committee

Well Testing in Boxborough, Massachusetts, hereinafter called the PROJECT.

SCOPE OF SERVICES

The PROJECT site was tested in 2006 and found to have potential for municipal groundwater supply development. The purpose of the following scope of services is to retest the site to see if conditions have changed since 2006 and evaluate whether the site still has potential for the development of such a supply. The ENGINEER shall perform the following scope of services for the PROJECT:

Conduct a short-term pumping test and water quality testing at the site of an existing test well installed by CDM in 2006 (site #1-06). The site is located in Boxborough, Massachusetts on property owned by the Harvard Sportsmen's Club, Inc. (HSC) (Boxborough Assessor's parcel 02-007). See accompanying maps. Access to the site shall be either from Littleton County Road and an internal path within HSC, or via two properties owned Campanelli: (1) Beaver Brook Road and (2) an undeveloped property for which the town holds a conservation restriction (Assessor's parcel 03-002). The work shall comply with license agreements between the Town of Boxborough and HSC and Campanelli.

Evaluate the existing 2006 test well at the HSC site and existing monitoring wells on the Campanelli property. Test the existing 2006 well, if feasible. If testing the 2006 well is not feasible, either redevelop the well, install a new well in the existing borehole, or install a new well nearby with a 4.5-inch cased hole to a target depth of 75 feet, taking 3-inch core samples in 5-foot coring runs. Complete the core hole as a 2-inch test well, with 10 feet of stainless steel screen and a schedule 40 PVC riser to 3 feet above ground surface. Install a new 2-inch observation well meeting these same specifications.

Conduct a 4-hour pumping test on the well. Collect water quality samples at the conclusion of the pumping test and deliver them to a Massachusetts certified laboratory for analysis. The samples shall be analyzed for DEP-listed biological contaminants, inorganic chemicals, secondary contaminants, VOCs, lead, and PFAS. Water quality testing shall meet all applicable DEP requirements, including confirmation testing for PFAS, if necessary. Secure both wells at the surface with 4-inch steel casing, locking caps, and locks. Replace locks cut for access to existing monitoring wells and provide the keys to all locks to the OWNER. Restore both properties as required by the license agreements. Provide a written report to the OWNER and the Town of Boxborough summarizing the testing results and the suitability of the site for municipal groundwater supply development, including configurations and estimated yields of possible production wells.

RESPONSIBILITIES OF THE TOWN

The Town of Boxborough shall provide the location of the existing CDM test well and monitoring wells; existing reports and other data; license agreements with HSC and Campanelli, and recommendations for locating Zone I.