

EXHIBIT A

SCOPE OF WORK

The City of Dover will use funds provided by the NHDES Local Drinking Water Source Protection Grant funds to reevaluate the wellhead protection area (WHPA) boundaries and safe yields for the Bouchard (0651010-005, referred hereafter as “Well 5”) and Hughes (0651010-006, referred hereafter as “Well 6”) wells currently used by the city as public water supply wells. The primary objectives are to better define the area contributing groundwater to the two production wells and prevent negative impacts to Barbados Pond due to excessive well pumping by establishing a technical based pumping rate. Specifically, the City will hire a qualified consulting firm to complete the following work tasks.

Task 1A. Develop a Quality Assurance Project Plan (QAPP). As required by NHDES and US EPA, the City, through its consultant, will draft a QAPP related to the collection methods, equipment and data quality control measures required for the project. NHDES will provide guidance for developing a QAPP, such as QAPPs from similar projects, for the City’s review. A final draft of the QAPP will be provided to NHDES for review and approval by NHDES and USEPA prior to commencement of the following tasks.

Task 1B. Review Background Materials and Water Level Monitoring Plan. The City’s consultant will complete a review of existing published geologic and hydrogeologic data (including studies done by BCI and others), pumping records, existing water level data, boring logs, well completion records, and any existing field pumping test data in order to build the conceptual framework for determining the safe yield of wells 5 and 6 in relation to maintaining Barbados Pond, and for use during follow-on data reduction and WHPA delineation.

At the completion of this task the City's consultant will prepare an interim report that includes a description of the background technical information reviewed, proposed locations for up to five additional monitoring wells, a well pumping and surface water level monitoring test plan, and notation of any changes to the water level test plan and/or the QAPP, as necessary. This interim report will be reviewed by NHDES. Any changes proposed to the QAPP or monitoring plan will be subject to prior approval by NHDES and USEPA.

Task 2. Meeting with NHDES to Review Interim Report. The City will solicit and attend a meeting with NHDES to discuss Task 2’s final interim report, including review the contents of the interim report that will outline the proposed pump test plan and mapped locations of the proposed monitoring wells and the schedule of measurement of surface water levels using the piezometers. NHDES comments from this meeting will be reflected in the interim report and implemented.

Task 3. Installation of additional monitoring wells/piezometers and installation of Data Loggers. In accordance with the methods established in the QAPP and the locations proposed/approved in the interim report, the City will install a series of overburden monitoring wells/piezometers that are to be used as monitoring points during the pumping test, and install at least one gage in Barbados Pond. Following installation and development of the monitoring wells, the City shall rent and install up to 14 water level

well loggers to measure and record groundwater level data during the pump test in the new wells/piezometers, existing monitoring wells in the Pike Property, the Production Wells, and, potentially, domestic wells. Use of additional data loggers and/or water level measurements shall be completed at other points in accordance with the QAPP. In coordination with the project consultant, City staff may assist with some of the water level data collection.

Task 4. Well Field Pumping Test. In accordance with the NHDES and US EPA approved QAPP, the City will proceed with the pumping test. The City's consultant will coordinate all equipment, personnel and associated permits for completion of the pumping test. All data collection methods, locations, schedules and frequencies; equipment technical specifications; associated monitoring plan; and criteria related to the quality control measures approved in the QAPP shall be followed.

Task 5. Refinement of Wells 5 and 6 Wellhead Protection Area (WHPA). Following completion of Task 4, the City's consultant shall refine the wellhead protection area delineation within the context and limits of the data collected. In order to ensure that the test related data is appropriately reduced and the associated WHPA is properly developed, the selected consultant will have a licensed professional geologist or engineer on the project team, have proficiency in collecting and analyzing hydrogeologic information, and have experience in developing Well Head Protection Areas.

Task 6. Final Report. Completion of this task will include preparation and submittal of a final report to NHDES that will include a revised WHPA delineation for well 5 and 6, establishment of the safe yields of the wells, and an assessment of the limits on yield in relation to the influence the productions wells have on Barbados Pond. The report shall include the range of parameters derived through reduction of pumping test data, any analytical calculations, at least one site map showing both capture zone and WHPA delineation for the wells, a description of all assumptions made as part of the analysis of the pumping test data, and a summary of any deviations from the QAPP or approved test plan. The final report shall also provide a summary of the plan to establish/implement a permanent water level monitoring network to assess long term trends in the source formation that is influenced by the wells and better manage water resources in the future.

EXHIBIT B**BUDGET & PAYMENT METHOD**

All services shall be performed to the satisfaction of the Department of Environmental Services before payment is made. All payments shall be made upon receipt and approval of stated outputs and upon receipt of associated invoice. **Payments will be made based on submitted invoices. If invoice is less than initial estimate only the amount on the invoice will be paid.** Payments shall be made in accordance with the following schedule based upon completion of specific tasks:

Task Number/Description	Source Water Protection Grant Funding
1A. Develop a Quality Assurance Project Plan (QAPP).	\$4,000
1B. Review Background Materials and Water Level Monitoring Plan with Interim Report.	\$6,500
2. Meeting with NHDES to Review Interim Report.	\$1,500
3. Installation of Additional Monitoring Wells/Piezometers and Rental and Installation of Data Loggers.	\$26,850
4. Well Field Pumping Test.	\$35,000
5. Refinement of Wells 5 and 6 Wellhead Protection Area (WHPA).	Included in Item 6
6. Final Report.	<u>\$20,000</u>
TOTAL	\$93,850