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GEOTECHNICAL  
ENVIRONMENTAL  
ECOLOGICAL  
WATER  
CONSTRUCTION  
MANAGEMENT

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**VIA EMAIL ONLY**

**November 3, 2015  
File No. 04.0190030.00**

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**Re: Residential Water Supply Well Sampling  
Hydrogeologic Investigation  
Dartmouth College, Rennie Farm Site  
NHDES Site No. 201111109, DES Project No. 277737**

**Dear:**

As was discussed, Dartmouth College has been collecting samples of groundwater from residential water supply wells (drinking water wells) in the Rennie Road area of Hanover, New Hampshire. Your water supply well is located beyond the area that was included in the sampling program. However, we understand that you would like Dartmouth College to collect groundwater samples from your well for laboratory analysis. We are sending you this letter to provide you with information regarding the sampling program and to request access to your property to collect samples of water for laboratory analysis.

The sampling is being performed due to the detection of a volatile organic compound known as 1,4 dioxane in groundwater samples collected at the Dartmouth College, Rennie Farm property located at 572 Center Hanover Road. 1,4 dioxane is manmade and was primarily used in solvents. It has also been used in varnishes and paint strippers, and can be present in certain personal care products. We have attached summary sheets developed by the United States Department of Health and Human Services (USDHHS) and The New Hampshire Department of Environmental Services (NHDES) that provide information regarding 1,4-dioxane.

The investigation of 1,4-dioxane in groundwater at the Rennie Farm property is being performed by Dartmouth College in accordance with State of New Hampshire environmental regulations, and under the guidance of the NHDES. Detection of this contaminant in groundwater samples recently collected from the Rennie Farm property prompted Dartmouth College to proactively collect groundwater samples from residential water supply wells in the general vicinity of the Rennie Farm property. Water quality samples collected from residential water supply wells are being analyzed by a laboratory for 1,4-dioxane. A summary of the history of the Rennie Farm property relevant to the investigation and a figure illustrating the locations of features referenced in the history are attached.

Dartmouth College has contracted GZA GeoEnvironmental, Inc. (GZA) to perform the sampling. A GZA field technician will visit your property to collect the sample. Sampling your well should take about one-half hour. Sampling will involve running an outside spigot or faucet for about 20



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minutes prior to sampling, and will require GZA to access the pressure tank for the well, which is usually located in the basement or attic. GZA will be collecting two rounds of samples from your well, including an initial sample and a second sample approximately 2 weeks later to confirm the results of the initial sample.

Laboratory analysis of the samples typically takes about 1 week. Following completion of laboratory analysis of each of the samples, you will be provided with the results of analyses by telephone and by letter. The letter will provide you with an explanation of the results of the analysis and applicable information regarding the use of water from your well. A copy of the letter will also be submitted to Dartmouth College and the NHDES. NHDES may also send you a copy of the results and applicable information regarding the use of water from your well.

GZA will attempt to contact you to coordinate sampling your well, but would greatly appreciate you contacting Mr. James M. Wieck GZA at (603) 232-8732 or [james.wieck@gza.com](mailto:james.wieck@gza.com) to set up a time that would be convenient for you. If you have any questions, please feel free to contact Dr. Maureen O'Leary, Director Environmental Health & Safety, Dartmouth College at (603) 646-1762 or Mr. Wieck of GZA. We have attached a copy of an agreement that, if signed by you, provides GZA with written authorization to access your property for the purpose of collecting the samples of water from your well and describes GZA's obligations.

On behalf of Dartmouth College, we appreciate your review of this letter and are pleased to include you in the sampling program.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

James M. Wieck, P.G.  
Senior Project Manager

Steven R. Lamb, P.G., C.G.W.P.  
Principal

JMW/SRL:

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Attachments: USDHHS Fact Sheet  
NHDES Environmental Fact Sheet  
Rennie Farm Site History  
Site/Site Vicinity Plan  
Access Agreement



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cc: **Maureen O'Leary, PhD, MBA, CBSP – Dartmouth College**  
**Mr. Paul Rydel, P.G. – NHDES Hazardous Waste Remediation Bureau**