FPM group — Engineering and Environmental Science

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VIA EMAIL

September 13, 2018

Mr. Brian Jankauskas
Remedial Bureau A, Section C
New York State Department of Environmental Conservation
625 Broadway, 11th Floor
Albany, NY 12233-7015

Re: **PFAS and 1,4-Dioxane Monitoring Work Plan**
1735 Express Drive North, Hauppauge, NY
NYSDEC BCP Site #C152238
FPM File No. 894-16-06 (02)

Dear Brian:

In accordance with your recent request, monitoring for emerging contaminants 1,4-dioxane and perfluorinated substances (PFAS) will be conducted for a limited number of wells at the above-referenced site. It is our understanding that this is a one-time requirement from the New York State Department of Environmental Conservation (NYSDEC) unless 1,4-dioxane or PFAS are found to be present at levels of concern.

As the most recent groundwater monitoring for volatile organic compounds (VOCs) was conducted in September 2015, we also propose to conduct monitoring for VOCs at all of the onsite monitoring wells during the same sampling event. This monitoring will be conducted in accordance with the procedures in the NYSDEC-approved Remedial Investigation Work Plan (RI WP) for this site (December 2013).

Proposed Scope of Work

It is proposed to conduct the required groundwater monitoring for 1,4-dioxane and PFAS at three onsite wells, including one well near the former source area (MW-1), one downgradient well that appears to be the most impacted by VOCs (MW-2I), and one additional downgradient well that appears to be less affected by VOCs (MW-4). The attached site plan (Figure 1.2.2.1) shows the well locations relative to other site features.

The proposed scope of work is as follows:

- Following NYSDEC approval of this work plan, the monitoring work will be scheduled. You will be notified at least 5 days in advance of the proposed sampling date. It should be noted that due to the prevalence of PFAS in consumer products, laboratory-recommended quality assurance protocols will be followed to reduce the potential for field contamination. Some of these protocols will include prohibiting the use of certain personal care products by field personnel on the day of sampling and the use of certain common field equipment. These

prohibitions will apply to all field personnel, including observers who may be present at the time of sampling. FPM will advise you in advance of these prohibitions and we request that they be followed by any NYSDEC observers;

- Prior to conducting any purging or sampling activities, FPM will obtain a depth to groundwater measurement from each of the onsite wells. These measurements will be obtained using a properly decontaminated water level indicator in accordance with the procedures in the NYSDEC-approved RI WP;

- FPM will purge the three monitoring wells proposed for emerging contaminants sampling in accordance with the approved procedures documented in the RI WP, as modified by the laboratory-recommended procedures for these analytes. Purging will be conducted using a stainless steel Waterra check valve, HDPE tubing, and related equipment. Following the completion of purging, all of the samples for PFAS testing will be obtained, containerized, labeled, and managed under chain of custody procedures and in accordance with laboratory recommendations. Following the completion of PFAS sampling, and after those samples have been properly secured, the targeted wells will each be sampled for 1,4-dioxane. These samples will also be obtained, containerized, labeled and managed under chain of custody procedures and in accordance with laboratory recommendations. A field blank sample will also be obtained during the emerging contaminant sampling;

- Following the completion of emerging contaminant sampling, the samples for VOCs testing will be obtained from the previously-purged wells in accordance with the procedures in the RI WP. The remaining onsite wells will then be purged and sampled for VOCs in accordance with the procedures in the RI WP. Quality assurance/quality control samples will also be collected as per the RI WP;

- Purging and sampling forms will be completed to document the field procedures and the samples will be submitted to Alpha Analytical, which is ELAP-certified for all of the analyses to be performed. The PFAS samples will be analyzed for the NYSDEC's full PFAS Target Analyte List using Method 537(M) with SIM-isotope dilution. The 1,4-dioxane samples will be analyzed by Method 8270D-SIM-isotope dilution. The VOC samples will be analyzed in accordance with Method 8260, as per the RI WP. The laboratory reports will be provided with Category B deliverables and the data will be uploaded to the NYSDEC's electronic information system; and

- FPM will review the laboratory data and prepare a report to summarize the sampling procedures and results and our conclusions and recommendations. A Data Usability Summary Report (DUSR) will be prepared for each laboratory dataset. For the emerging contaminants, as per recent NYSDEC correspondence we understand that certain of the PFAS results (PFOA, PFOS, and the sum of PFOA and PFOS) will be compared to guidance of 70 parts per trillion (ppt). We further understand that that NYSDEC presently has no standards or guidance for the other PFAS constituents or 1,4-dioxane and that any detections of these other constituents will be compared to standards and guidance from other states. In the event that there are no detections of the targeted emerging contaminants at levels of concern, it is anticipated that our report will include recommendations for no further monitoring for these constituents. The VOCs results will be evaluated as per the procedures in the RI WP.

Please confirm NYSDEC approval of this work plan or provide any comments you may have. Should you have any questions, please do not hesitate to call me at (631) 737-6200, ext. 218.

Sincerely,

John S. Bukoski, PG
Environmental Scientist
Project Manager

Ben T. Cancemi, PG
Senior Hydrogeologist
Department Manager

JB:sod
Attachment

cc: James Maggio; Robert Maggio; Daniel Spandau

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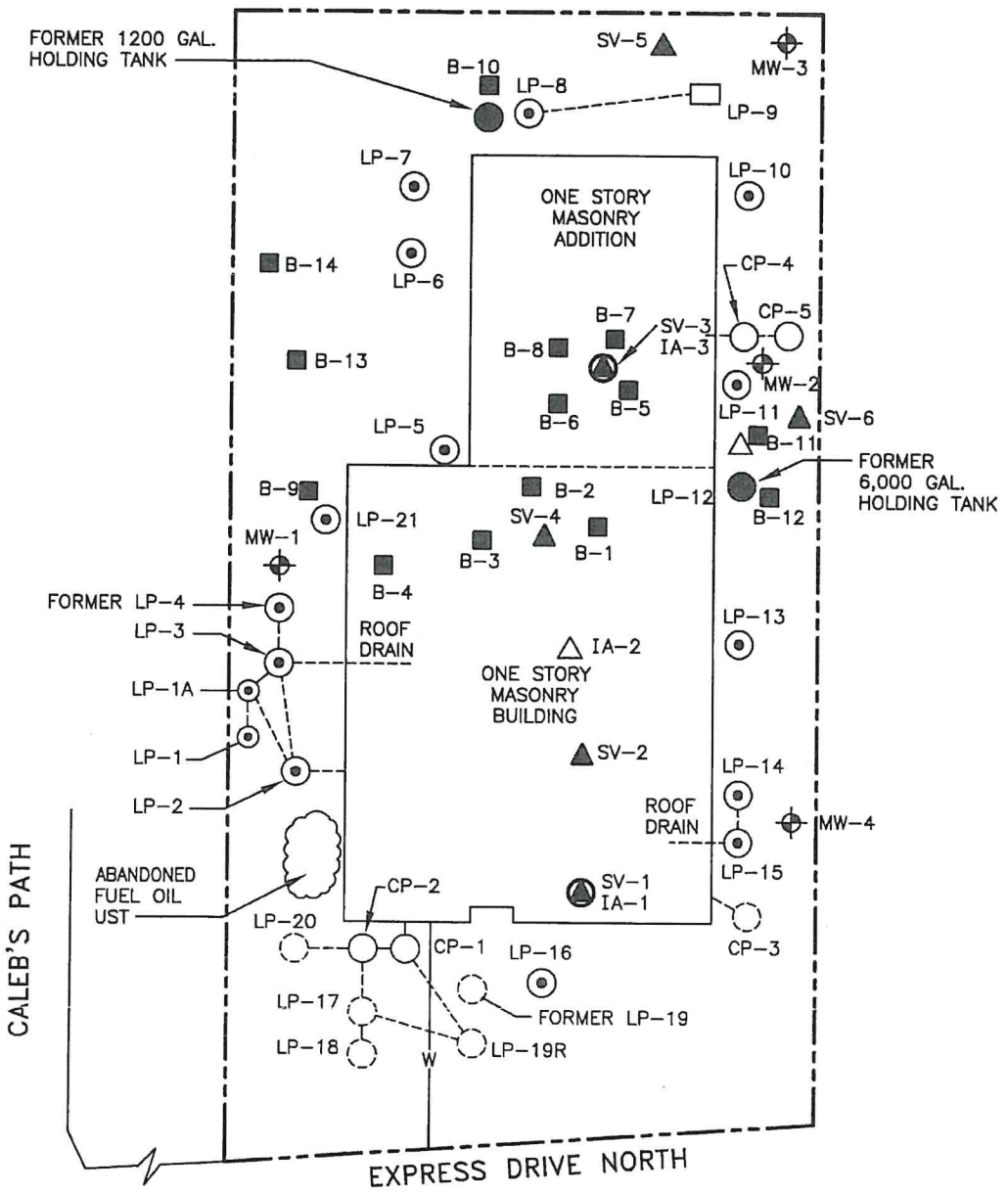

LEGEND:

- = GROUNDWATER MONITORING WELL
- = CESSPOOL/SEPTIC TANK
- = SANITARY WASTE LEACHING POOL
- = STORMWATER OR OTHER LEACHING POOL
- = SOLID-BOTTOM CATCH BASIN
- = INDOOR AIR SAMPLE LOCATION
- = FORMER USTs
- —W— = WATER SERVICE CONNECTION
- = SOIL VAPOR SAMPLE LOCATION
- = SUB-SLAB SOIL VAPOR & INDOOR AIR LOCATION
- = SOIL SAMPLE LOCATION

APPROXIMATE SCALE:

0' 30' 60' 120'

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FIGURE 1.2.2.1
SAMPLING LOCATIONS
1735 EXPRESS DRIVE NORTH
HAUPPAUGE, NEW YORK

Drawn By: H.C. | Checked By: S.D. | Date: 12/20/16

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