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13 August 2018  
File No. 127841-005

New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway  
Albany, New York 12233

Attention: Mr. Robert DeCandia Jr. P.E.

Subject: Groundwater Sampling and Analysis Scope of Work  
Oerlikon Metco  
1101 Prospect Avenue  
Westbury, New York  
Site No: C130178

Dear Mr. DeCandia:

This letter is being provided on behalf of Oerlikon Metco and provides the requested scope of work (SOW) for sampling and analysis of groundwater at the above-referenced site. The SOW is provided in response to the 9 February 2018 email request from the New York State Department Environmental Conservation (NYSDEC) for supplemental groundwater sampling and analysis for 1,4-dioxane and polyfluoralkyl substances (PFAS).

## **BACKGROUND**

Recently, the NYSDEC has implemented an initiative to collect groundwater data for 1,4-dioxane and PFAS across New York state. The 9 February 2018 email request is part of the NYSDEC groundwater sampling initiative.

## **EXISTING ONSITE GROUNDWATER MONITORING WELLS**

Six onsite overburden groundwater monitoring wells were previously installed and sampled by AECOM on behalf of the NYSDEC in 2012 prior to acceptance of the Site into the NYSDEC Brownfield Cleanup Program (BCP) as shown in the attached Figure. A review of the data indicates that the monitoring well data collected by AECOM were not adequately sensitive for 1,4-dioxane and did not assess for the presence of PFAS. The monitoring wells have not been recently sampled.

To assess the condition and adequacy of existing onsite groundwater monitoring wells for sampling of 1,4-dioxane and PFAS, an evaluation was conducted on 26 June 2018 by Haley & Aldrich.

Four of the six onsite wells were identified and evaluated (MW-1, MW-1D, MW-2, MW-3). Two of the wells could not be found or were obstructed as follows:

- Upgradient well BOC-C could not be located.
- Upgradient well MW-4 was inaccessible due to the presence of a hydrogen trailer staged in this area.

Groundwater in the area is reported to flow to the south/southwest and the four accessible monitoring wells, MW-1, MW-1D, MW-2, MW-3, are generally considered to be downgradient or cross gradient wells. Those wells were observed to still contain the Teflon-lined tubing previously used for sampling by AECOM. Since Teflon is a polyfluoroalkyl substance and sampling guidance suggests that it can potentially interfere with sampling results, the Teflon-lined tubing left in the usable monitoring wells was removed and disposed on 26 June 2018.

Of the four groundwater monitoring wells, monitoring well MW-2 is located directly downgradient of the Oerlikon Metco building. Accordingly, Oerlikon Metco proposes to develop and sample monitoring well location MW-2 per the scope of work described below.

#### SCOPE OF WORK

The following scope of work will be performed on existing monitoring well MW-2 as follows:

1. **Well Development:** MW-2 will be developed using a submersible or bladder pump equipped with non-Teflon-containing tubing/bladders. The type of pump used will be based on the effectiveness of the pump due to the depth of the well. Approximately 10 well volumes will be purged to remove fines and reduce potential residual PFAS impacts from the Teflon-lined tubing previously stored in the well. Per approval from the NYSDEC in an email dated 27 June 2018, the development water will be discharged to the ground surface away from drains or impervious surfaces on the site property.
2. **Well Sampling and Analysis:** At least one week following development, MW-2 will be sampled using either a bladder pump or bailer. Tubing, bailers, string, and/or bladders will be non-Teflon-containing. Prior to sampling, three well volumes will be purged from the well. The purge water will be discharged to the ground surface away from drains or impervious surfaces on the site property. A sample will be collected and submitted via courier to Alpha Analytical Services of Westborough, MA for analysis of the following:
  - 1,4-Dioxane via EPA Method 8270D-SIM
  - NY Polyfluoroalkyl Analytes (NY PFAAs) via EPA Method 537(M)-Isotope Dilution

The laboratory will be requested to achieve adequately sensitive reporting limits for the individual compounds as noted in the 9 February 2018 email.

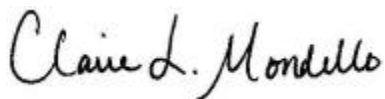
In addition to the well sample, one equipment blank will be collected and analyzed for 1,4-dioxane and PFAS for quality assurance/quality control purposes.

3. **Data Transmittal:** A letter transmittal that includes tabulated analytical results will be provided and submitted to the NYSDEC once the results are received from the laboratory. Data will also be submitted to the NYSDEC database in the electronic data deliverables format.

We plan to undertake the proposed scope of work promptly upon your approval. Please do not hesitate to reach out to the undersigned if you have any questions.

Sincerely yours,

HALEY & ALDRICH OF NEW YORK



Claire L. Mondello, CHMM  
Senior Project Manager



Richard J. Rago  
Senior Associate

Attachments:

Figure 3 – Groundwater Sample Results (Prepared by AECOM, 2012)

- c: Jacquelyn Nealon, New York State Department of Health  
Charlotte Bethoney, New York State Department of Health  
Daphne Cirino, Esq.; Oerlikon Metco (U.S.) Inc  
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