

July 2021

Sarah Saucier, P.E.
Chief, Remedial Section C
Remedial Bureau E
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7012

RE: Contract/WA No: D009806-23
Haviland Complex and Haviland Road (Site No. 314059)
Hyde Park, Dutchess County, New York

Dear Ms. Saucier:

This letter sampling plan describes the activities proposed for the Haviland Complex and Haviland Road Site (Site) in the Village of Hyde Park, Dutchess County, New York. The Site is currently classified as Class 4 in the New York State Superfund Program (Site No. 314059), which is administered by the New York State Department of Environmental Conservation (NYSDEC).

Representatives from EA Engineering, P.C. and its affiliate EA Science and Technology (EA) will visit the Site on 2 through 4 August 2021 to perform groundwater sampling activities in accordance with discussions held between EA and the NYSDEC. The proposed field activities can be found attached to this letter.

Please do not hesitate to contact me at 315-565-6565 with any questions you might have regarding this sampling.

Sincerely,



Chris Schroer
Project Manager



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

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EA SCIENCE AND TECHNOLOGY

Cc: Liane DeSantis, Task Manager
Frank DeSantis, Deputy Program Manager
Don Conan, P.E., P.G., Program Manager

Attachment A: Sampling Plan

ATTACHMENT A: SAMPLING PLAN

The objective for performing sampling activities at the Haviland Complex and Haviland Road Site is to determine current concentrations of per- and polyfluoroalkyl substances (PFAS), dissolved and total metals, and volatile organic compounds (VOCs) in groundwater. Field activities will be completed in accordance with EA's Generic Field Activities Plan (April 2020)¹.

TASK 1—FIELD ACTIVITIES

- **Site Inspection**—A site inspection will be conducted prior to groundwater gauging and sampling that will include locating and documenting well condition of the 12 existing monitoring wells. EA will gauge and sample the 12 existing wells to evaluate local groundwater flow patterns. The monitoring wells targeted for gauging and sampling are listed in **Table 1**. It has been noted in background documents that monitoring well MW-86-29/MW-13S is damaged; EA will attempt to gauge and collect samples from the well, if possible.
- **Evaluation of Groundwater**—EA will collect groundwater samples to evaluate the overall groundwater quality with respect to New York State Department of Environmental Conservation Ambient Water Quality Standards. Groundwater samples will be collected at each monitoring well location using U.S. Environmental Protection Agency Region 2 low-flow sampling procedures and protocols that will include water level measurements, well purging, field water quality measurements (including temperature, pH, conductivity, dissolved oxygen, oxidation reduction potential, and turbidity). Purge and sample log forms will be used to record well purging, water quality measurements, and sampling flow rates. The objective of the groundwater sampling protocol is to obtain samples that are representative of the aquifer in the well vicinity so that analytical results reflect the composition of the groundwater as accurately as possible.

Table 1 summarizes the sample collection locations and analytical methods, and **Figure 1** identifies the monitoring well locations. Groundwater samples from the 12 wells (including appropriate quality control samples) will be analyzed for VOCs and total and dissolved target analyte list metals. Additionally, samples will be collected from five monitoring wells (MW-86-1SH, MW-99-04, MW-86-X3, MW-99-02, and MW-86-27) to be analyzed for PFAS (**Table 1** and **Figure 1**).

- **Investigative Derived Waste Disposal**—Purge water generated during groundwater sampling activities will be discharged to the ground surface in accordance with the Section 13 of EA's Generic Field Activities Plan¹.

¹ EA 2020. *Generic Field Activities Plan for Work Assignments under NYSDE Contract No D009806*. April.

Table 1 Sampling Analysis Plan

Well	VOCs by EPA-8260C	Total Metals & Mercury by EPA-6010C/6020/7470A	Dissolved Metals & Mercury by EPA - 6010C/6020/7470A	PFAS by Modified EPA-537
GROUNDWATER				
MW-86-1SH/HS-1	X	X	X	X
MW-99-03	X	X	X	---
MW-99-04	X	X	X	X
MW-86-X2/HS-3	X	X	X	---
MW-86-X3/HS-4	X	X	X	X
MW-86-24A	X	X	X	---
MW-99-01	X	X	X	---
MW-99-02	X	X	X	X
MW-86-28/MW-9	X	X	X	---
MW-86-27/MW-27D	X	X	X	X
MW-12	X	X	X	---
MW-86-29/MW-13S ¹	X	X	X	---
1. Well MW-86-29/MW-13S is damaged NOTES: EPA = U.S. Environmental Protection Agency No. = Number PFAS = Per- and poly-fluoroalkyl substances VOC = Volatile organic compound				

**Figure 1
 Site Map**

SITE NAME: Haviland Complex and Haviland Rd.

SITE #: 314059

LOCATION: Route 9G and Haviland Rd, Hyde Park NY



DATE: 2/11/2019

REVISED BY: JMR

FIGURE: 1

SCALE: NTS

LEGEND

-  MONITORING WELL
-  Proposed PFAS Wells

NOTES:

- BASE MAP PROVIDED BY GOOGLE EARTH
- ALL LOCATIONS ARE APPROXIMATE
- MAP TAKEN FROM GROUNDWATER SAMPLING REPORT (PES 2019)

