

VIA ELECTRONIC MAIL

November 8, 2019

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**RE: Monthly Progress Report – October 2019
Taconic Site (Site No. 442047)
Petersburgh, New York**

Dear Madam;

Pursuant to Section XIII of Appendix A of the Order on Consent and Administrative Settlement for the Tonoga Inc. d/b/a Taconic facility in Petersburg, New York, the Monthly Progress Report is attached. Please contact me at 518.658.3202 x328 or at jeffm@4taconic.com if you have any questions.

Sincerely,



A. Jeffrey Mirarchi, P.E.
Project Engineer

cc: Jason Johnson, NYSDEC
Barbara Firebaugh, NYSDEC
Ian Beilby, NYSDEC
Justin Deming, NYSDOH
Dawn Hettrick, NYSDOH
Lori Mason, Esq., Taconic
Jeff Mirarchi, Taconic
Paul Hare, OBG

**MONTHLY PROGRESS REPORT
TACONIC FACILITY (NYSDEC SITE NO. 442047)
PETERSBURGH, NEW YORK
October 2019**

Actions Taken to Comply with the Settlement Agreement During Previous Month (October):

- Preparation of the Interim Investigation Deliverable as described in Section 6.2 of the RI/FS Work Plan continued in October 2019 and is due to the NYSDEC within 60-days of receiving the final analytical data package from the Phase 1 work. This activity also involves identification of data gaps in the Phase 1 of the RI and evaluation of additional investigations in Phase 2 of the RI.
- The final round of the Phase 1 Surface Water Sampling was conducted on October 17, 2019.
- Discrete interval groundwater sampling and hydraulic conductivity testing of the new production Well, PW-4 was conducted on October 23-25, 2019.
- A 72-hour pumping test of PW-4 was conducted between October 29-November 4, 2019. Although the purpose of the test was primarily to support the permitting of the new well for potable water supply, periodic measurements of water levels in the remedial investigation groundwater monitoring wells were also collected throughout the pumping test and will be reviewed for information that may assist in refining the conceptual site model.
- The status of the point-of-entry treatment (POET) system and non-POET location monitoring is provided in the attached tables.

Plans, Reports, and Other Deliverables Required by the Settlement Agreement Completed and Submitted in the Previous Month (October):

- None.

Results of Sampling, Tests and Any Other Data Received or Generated by or on behalf of Respondent During the Previous Month (October):

- Analytical results received during the month for the POET systems and annual raw only properties were submitted to NYSDEC/NYSDOH/RCDOH on October 8, and 14, 2019. POET analytical results EDDs were submitted to NYSDEC on October 8, and 28, 2019.
- Analytical results received during the month for the Town of Petersburg treatment system were submitted to NYSDEC/NYSDOH/RCDOH on October 14, 2019. Town treatment system analytical result EDDs were submitted to NYSDEC on October 28, 2019.

Activities Undertaken in Support of the Citizen Participation Plan (CPP) During Previous Month (October):

- None.

Actions, Plans and Data Scheduled for the Next Month (November):

- On November 6, 2019, Taconic received the analytical results for the surface water sampling event conducted on October 17, 2019. These results will be uploaded to the NYSDEC once validated by the third-party data validator.
- The analytical results for the depth-discrete sampling of the new production well, PW-4, will be received in November 2019. These results will be uploaded to the NYSDEC once validated by the third-party data validator.
- The analytical results for the groundwater samples collected during the pumping test of the new production well, PW-4, will be received in November 2019. These results will be uploaded to the NYSDEC once validated by the third-party data validator.
- The Interim Deliverable presenting the results of the Phase 1 RI activities will be submitted in November 2019.

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- Analytical results are scheduled to be received for the installed POET systems and raw water only locations with no POET systems.
- Sampling of the installed POET systems and raw water only locations with no POET systems will continue.
- Installation and maintenance services of POET systems will continue.
- Installation of POET system(s) not yet completed at locations included in Exhibit C of the Settlement Agreement will continue if accepted by the homeowners.
- Operation and maintenance support services for the Town of Petersburg Treatment System will continue.

Activities in Support of the Citizen Participation Plan (CPP) Anticipated for the Next Month (November):

- Although not a specific element of the CPP, in November, Taconic mailed letters to nearby property owners requesting access to their property to allow Taconic to collect samples of environmental media during future phases of the RI.

Delays Encountered or Anticipated and Mitigation Measures:

- None.

Proposed or Approved Modifications (Work Scope and/or Schedule):

- As requested by the NYSDEC, an additional surface water sample was collected within the drainage swale along Coonbrook Road on October 17, 2019.

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Percentage of Completion and Additional Information Relating to the Progress of Work:

RI Phase 1a Tasks	Percent Complete
Miscellaneous Sampling (USTs, Bldg 6 pipe)	100%
Underground Utility Location	100%
Surface Soil Sampling	100%
Surface Water Sampling-Initial	100%
Surface Water Sampling-Periodic (3 events)	100%
Sediment Sampling	100%
Direct Sensing-DPT	100%
Subsurface Soil Sampling-DPT	100%
Discrete Interval Groundwater Sampling-DPT	100%
Borehole Geophysical Investigations	100%
Discrete Interval Groundwater Sampling-Geophysical	100%
Shallow Bedrock Borehole Installation	100%
Discrete Interval Groundwater Sampling-Boreholes	100%
Data Validation	100%

RI Phase 1b Tasks	Percent Complete
Phase 1b Overburden Well Installation	100%
Phase 1b Overburden Well Development	100%
Phase 1b Groundwater Sampling	100%
Phase 1b Hydraulic Conductivity Testing	100%
Data Validation	99%
Phase 1 Interim RI Deliverable	95%

<p align="center">MONTHLY PROGRESS REPORT TACONIC FACILITY (NYSDEC SITE NO. 442047) PETERSBURGH, NEW YORK October 2019</p>

POET System Monthly Report

Raw-Only Sampling of Locations with No POET System	
Total Raw-Only Locations	144
Total Raw-Only Sampled	4Q19 =2 Completed; 27 Scheduled <ul style="list-style-type: none"> • October =2 Completed; 7 Scheduled. • November = 0 Completed; 11 Scheduled. • December = 0 Completed; 9 Scheduled.
Locations On Hold	10 (5 vacant locations and 5 current owners that requested no additional samples be collected and to be removed from the list.)
New POET System Installed as a result of Raw-Only Sampling	6 (0 pending)
New POET System Cleared for Use	5 (1 pending, waiting for sample results)
POET Systems	
<u>Updated Exhibit C POET System Installation List:</u>	
Total POET System Locations	98
Total POET Systems Installed	95 (0 pending)
POET Systems Clear for Use	94 (1 pending, waiting for sample results)
POET Systems on Hold	3 (Contacted homeowners.)
POET Installations - Exhibit C of the Settlement Agreement	96% (Will complete with homeowners' acceptance)
<u>POET System O&M:</u>	
Total POET System Properties Sampled this Quarter	4Q19 = 15 Completed; 76 Scheduled <ul style="list-style-type: none"> • October = 15 Completed; 36 Scheduled. • November = 0 Completed; 14 Scheduled. • December = 0 Completed; 26 Scheduled.
GAC Tank Exchanges	4 (0 pending)
3 rd Quarter Maintenance Monitoring of the POET Systems through October	42% through October 2019