Long, Payson D (DEC)

From: Miller, Megan <mmiller@eaest.com>
Sent: Thursday, February 06, 2020 3:39 PM
To: Long, Payson D (DEC)
Cc: Cummings, Emily; Conan, Donald; Hayward, Jim
Subject: National Heatset Update

Hello Payson,

Here is a summary of EA's activities at National Heatset since November 2019:

Compliance with project schedule:

- No issues to report
- Projected activities for next month:
    - Submit PRR 20 February
    - Perform monthly O&M week of 17 February
    - Perform Q120 system air sampling and quarterly groundwater monitoring the week of 9 March

Accomplishments during the reporting period:

- Performed monthly O&M visits for SVE and DDC systems (on-site/off-site) on 2-5 December and 15-16 January
- Performed annual site inspection and Q419 system air sampling 5 December
- Prepared Q318 and Q418 quarterly reports, submitted via FTS on 6 February

Current system status (issues are italicized):

- SVE system – operating properly
    - Currently operating lines 1, 4, and 5 as of October 2017 O&M visit

- Onsite DDC #1 system – *currently off (as described below)*
    - NOTE: During the March 2018 site visit, EA observed that the controls associated with the moisture knockout for the onsite DDC #1 system had malfunctioned, which allowed water to accumulate in the knockouts as well as the vapor-phase GAC vessels. EA left the system off until further troubleshooting could be performed and necessary repairs could be made. *New/replacement knockouts were purchased and installed during the week of 17 December 2018; in addition, the vapor-phase carbon was changed out during the week of 17 December 2018. Additional electrical/control work was completed March and April 2019 to allow system to be restarted; EA attempted to restart DDC #1 on 23 May 2019, but vacuum lines were observed to be under pressure and system was shut down for further troubleshooting. It was suspected that the operational issues were due to the high water table; however further troubleshooting on 28 August led EA to determine that there was a potential issue with the VFD controlling blower operation. D&D Electric was onsite 18 September to assist in troubleshooting VFD. D&D confirmed that VFD needs to be replaced at onsite DDC #1. EA has requested a quote from D&D to repair onsite DDC #1; water table has decreased enough to run the systems, awaiting repair (date TBD, pending new WA).*

- Onsite DDC #2 system – *currently off (as described below)*

- *NOTE: During the January 2019 site visit, unusually high water table conditions were observed which were creating operational difficulties (i.e., excess water recovery), therefore the system was turned off as a precaution until conditions return to normal. In addition, the float switch associated with the knockout transfer pump was repaired. EA attempted to restart DDC #2 system 28 August. During restart, a grinding noise was observed at the blower and the belt tensioner was observed to be faulty. D&D was onsite 18 September and determined that noise from blower indicated a potential blower motor bearing issue. D&D confirmed the belt tensioner needs to be replaced. EA has requested a quote from D&D to replace the belt tensioner and repair the blower motor; water table has decreased enough to run the systems, awaiting repair (date TBD, pending new WA).*

- Offsite DDC system – *currently off (as described below)*
  - *NOTE: Unusually high water table conditions observed that have been observed since January 2019 were creating operational difficulties (i.e., excess water recovery), therefore the system was turned off as a precaution until conditions return to normal. During the August and September monthly visits, EA observed several inoperable sump pumps. Sump pumps were replaced 4 November 2019. System was turned on during December 2019 visit; however, on 17 January EA received a call from a resident near one of the manholes on Benjoe Drive who said that a manhole was rattling. EA called PES to have the system shut down. EA to troubleshoot and hopefully restart system during monthly site visit week of 17 February.*

Projected scope of work:

- For the impending new contract with NYSDEC, EA has estimated that roughly $300K would be required for a new work assignment. This would cover monthly and quarterly site visits and monitoring, unscheduled site visits (once per month), known repairs, some contingency for additional repairs, and reporting for two years. This does not include additional scope, such as optimization of the current systems. I'd like to set up a call for a scoping meeting, at your convenience. Please let me know if there is a time/date that works for you.

If you have any questions or need additional information please let me know.

Megan Miller
Engineer

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