

## CORRESPONDENCE/MEMORANDUM

DATE: January 26, 2016 FILE REF: Manitowoc City / Former Newton Tn Gravel Pit  
BRRTS # 02-36-000268

TO: File

FROM: Tauren Beggs (DNR Project Manager)

SUBJECT: Correspondence with AECOM Regarding Report Updates and Remedial Action Discussion

Beggs received a call from Dave Henderson – AECOM.

Groundwater Monitoring Report: Henderson will be submitting the report for the annual groundwater monitoring once he receives the final comments from the City of Manitowoc.

Groundwater and Potable Well Reporting: Henderson is requesting DNR concurrence to only include hard copies of analytical tables for detected contaminants in the report and provide the complete analytical tables of all sampling locations on CD/electronically.

Remedial Action Planning: remedial actions will be completed in the western source area (SVE and free product removal) and down-gradient groundwater plume (current plan is a remedial pond).

- Henderson stated the design life has a direct impact on the horsepower needed SVE blower for the remedial action. Henderson prefers to keep the horsepower small (1-3 HP instead of 5-10 HP) and remediate over a prolonged period of time with annual progress reporting.
  - 1-3 HP Motor Scenario: long-term remedial action over multiple years providing long-term sustainability, taking into consideration this site is a gravel pit and is not planned to sold or developed. 8 SVE wells cover the western source area. To start, would have 1-3 SVE wells activated at a time to focus on hotspot removal (2-3 SVE wells would cover the free product area). Over the long-term life, different SVE wells can be activated for focused SVE and/or all 8 SVE wells can be activated.
  - 5-10 HP Motor Scenario: All 8 SVE wells covering the western source area would be activated at the same time resulting in quick mass removal over the short-term. However, over the long term, only limited HP (1-3 HP) is needed for long-term operation, so the higher HP motor is not effective for long-term sustainability.
  - Henderson is requesting to see if DNR agrees with his approach of mass removal over a sustainable long-term vs. quick mass removal over a short term.

Beggs told Henderson he would evaluate the remedial scenarios and reporting requests and will respond back to him soon.