

TO: Rick Wenzel
The Dow Chemical Company

FROM: Jim M. McDade
GSI Environmental Inc.

RE: Monthly Status Report, June 2017, Charlie Burch Site, Spring, Texas. VCP No. 421.

Activities Completed During June 2017

- **Groundwater Pump-and-Treat System in Source Area:** The monthly operation and maintenance (O&M) inspection was performed on 28 June 2017. Bi-weekly system inspections and effluent sampling were conducted on 2, 16, and 30 June 2017. The in-line pH meter was brought back on line and daily pH measurements resumed per the operation manual's protocols. The pump at RW-CB-3R was pulled to diagnose performance issues observed recently with that pump, and it was discovered that the lead wires had become rusted and need to be replaced. In addition, biofouling on the pump intake was observed, so the intake will be cleaned and the pump tested to ensure optimal pumping rates can be achieved before reinstalling it in the recovery well.

Continued to prepare for installation of the new, more efficient air stripper as part of the Phase 4 Enhanced Anaerobic Bioremediation (EAB) construction. On 13 June 2017, submitted a letter to the TCEQ documenting proposed modifications to the groundwater extraction and treatment system discharge, including re-routing of the discharge from the treatment system.

- **Groundwater Pump-and-Treat System on the 13-Acre Tract:** The monthly O&M inspection was performed on 28 June 2017, and pre- and post-GAC samples were also obtained. The system was operating with pumping from recovery well TRW-CB-4 only. The pump at recovery well TRW-CB-3 was removed for testing to diagnose recent operational issues.
- **Plume Remediation Activities:** On 1 June 2017, submitted the Response Action Effectiveness Report (RAER) to the TCEQ documenting the effectiveness of the EAB remedy and groundwater extraction and treatment systems for the period June 2014 to June 2017. Completed the semiannual EAB performance groundwater monitoring for Phases 1, 2, 4, and 5 and began evaluating the semiannual sampling results.

Continued to develop a plan for adjustments to the Phase 1 EAB treatment on the Dyring property to monitor 1,2-dichloroethane (1,2-DCA) in groundwater migrating from the Wert Property and to optimize treatment near the Wert property boundary to prevent further downgradient migration.

- **Comprehensive Groundwater Monitoring:** Completed the evaluation of the semiannual sentinel monitoring well (MW-CB-39 through MW-CB-48, OBS-1, and OBS-2) groundwater sampling event conducted on 21 April 2017. Results of the monitoring event are consistent with historical concentrations and groundwater flow

direction (south-southeast), confirming that the current monitoring well network continues to delineate the southern extent of the 1,2-DCA plume.

- **Public Communications and Information Website:** Continued updating the project website (see below for link) with the prior period's monthly progress report and other relevant documents.

Link to website: <http://charlieburchproject.com/>

Activities Planned for July 2017

The following activities are planned during the next reporting period:

- **Groundwater Pump-and-Treat System in Source Area:** The system will be operated per its design, and routine inspections and maintenance activities during the site inspections will be conducted, which will include repairing, testing, and placing the pump at RW-CB-3R back into service per its design. Begin preparations for replacement of the groundwater treatment system.
- **Groundwater Pump-and-Treat System on the 13-Acre Tract:** The system will continue to be operated per its design, and routine inspections and maintenance activities during the site inspections will be conducted, which will include addressing issues with the power supply to TRW-CB-3. Analytical results for pre- and post-GAC water samples will be received and evaluated.
- **Plume Remediation Activities:** Continue to evaluate data from the semiannual EAB performance groundwater monitoring event for Phases 1, 2, 4, and 5. Continue to develop a plan for adjustments to the Phase 1 EAB treatment on the Dyring property. Begin preparing a modification to the Underground Injection Control (UIC) application, to document additional Phase 1 EAB injections and the infiltration gallery for Phase 4 EAB.
- **Comprehensive Groundwater Monitoring:** Prepare a response to the TCEQ's letter dated 7 June 2017 to address comments in the letter regarding semiannual sampling of the sentinel monitoring wells located on the ICG Partners property.
- **Public Communications and Information Website:** The information on the project website will be updated and maintained with the most recent information submitted to TCEQ.