

US EPA ARCHIVE DOCUMENT



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September 26, 2012

Mr. Christopher Black
U.S. EPA Region 5
Corrective Action Section 2
Remediation and Reuse Branch, LU-9J
77 West Jackson Boulevard
Chicago, IL 60604-3590

RE: Second 2011 Semiannual Monitoring Report, Chevron Cincinnati Facility, Hooover, Ohio

Dear Mr. Black:

Chevron Environmental Management Company (Chevron) is submitting the above referenced document to the United States Environmental Protection Agency (USEPA) in accordance with the November 1, 2006 Administrative Order on Consent between Chevron and USEPA and the December 13, 2007 *Operation, Maintenance, and Monitoring Plan for Final Groundwater Remedy, Chevron Cincinnati Facility (OMM Plan)*. This report summarizes the results of routine monitoring completed as part of final groundwater corrective measures implementation at the Chevron Cincinnati Facility for the period from July 1 through December 31, 2011. The following bullets provide a brief outline and summary of the findings in the attached report:

- Section 1.0 describes the purpose of the report and provides a brief history of the former refinery and off-site properties, including the processes acting to deplete the smear zone.
- Section 2.0 provides a summary of the infrastructure, methods, and results of monitoring activities conducted during the second semiannual monitoring period in 2011.
- Section 3.0 presents the qualitative and quantitative lines of evidence supporting the efficacy of natural attenuation mechanisms to degrade petroleum hydrocarbons across the smear zone. Data collected during the second semiannual monitoring period continue to demonstrate that the intrinsic processes in the saturated zone are degrading petroleum hydrocarbons. These same processes are reducing dissolved hydrocarbons to levels that are protective of sensitive receptors at the point of compliance boundaries.
- Section 4.0 provides the results of high-grade recovery operation completed between August and November 2011 including performance of the HSVE systems during this event.
- Section 5.0 describes the results of biovent system operation conducted in Gulf Park and the construction of the southern barrier wall installed along the Great Miami River. This section also presents the results of natural attenuation indicator analyses in groundwater across the Park.

The smear zone and associated dissolved phase constituents attributable to releases from the refinery remain stable and there has not been redistribution of constituents following termination of continuous hydraulic control (i.e., year round pumping) following execution of the 2006 AOC. Monitoring results continue to demonstrate that the final groundwater remedy at the former refinery is progressing as anticipated and will meet remedial goals while ensuring that sensitive receptors remain protected.

If you have any questions regarding the enclosed documents, please contact me at (713) 432-2631 or Matt Mitchell at (513) 353-1323, ext. 23.

Sincerely,



Gene Choquette – Site Manager
Chevron Cincinnati Facility
Chevron Environmental Management Company

500-020-094

cc: Matt Mitchell, Trihydro