



Maryland

Department of the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Crumbles, Secretary
Horacio Tablada, Deputy Secretary

September 10, 2018

Mr. Jack Tevis
Tevis Oil, Inc.
P.O. Box 26
Westminster MD 21158

RE: REQUEST FOR CONTINUED MONITORING
Case No. 2006-0466-CL
Winfield BP Station
1631 West Liberty Road, Winfield
Carroll County, Maryland
Facility I.D. No. 6338

Dear Mr. Tevis:

The Maryland Department of the Environment's (the Department) Oil Control Program recently completed a review of the case file for the above-referenced facility, including the *Quarter 3, 2017 Monitoring Well Sampling, Request for Case Closure and Seven Risk Factors Report*, dated November 30, 2017. The on-site monitoring well network includes ten groundwater monitoring wells, the former drinking water supply well (PW-1), the active drinking water supply well (PW-1A), and four tank field monitoring pipes. Remedial activities included the removal of several underground storage tanks and the excavation of petroleum-impacted soils. Interim corrective action involved pilot testing of an air sparge/soil vapor extraction system. The system initially started in July 2012 using former drinking water supply well PW-1 as an extraction well. The system operated until April 2016 and recovered approximately 80 pounds of equivalent hydrocarbon mass.

In September 2017, methyl tertiary-butyl ether (MTBE) was detected at concentrations above the State action level of 20 parts per billion (ppb) in the following monitoring wells: 2,560 ppb in MW-5S; 534 ppb in MW-8D; 348 ppb in MW-4; and 208 ppb in MW-7D. Benzene was also detected in MW-8D at a concentration of 5.94 ppb. Samples collected from the remainder of the monitoring well network, the station's former drinking water supply well (PW-1), and the station's active drinking water supply well were non-detect for petroleum constituents. Based on our review of the risk evaluation and the request for case closure, the Department requires the following:

1. Groundwater monitoring must continue until written approval to discontinue is received from the Department.
 - a. Continue quarterly sampling of the entire monitoring well network. All samples collected must be analyzed for full-suite volatile organic compounds (VOCs), including fuel oxygenates and naphthalene, using EPA Method 8260; and
 - b. Continue semi-annual sampling of the station's drinking water supply well (PW-1A). All samples collected must be analyzed for full-suite VOCs using EPA Method 524.2.

2. The results of monthly gauging and quarterly sampling must be presented in *Quarterly Status Reports* and submitted to the Oil Control Program. The *Quarterly Status Reports* must be submitted by the 15th of May, July, October, and January.
 - a. In all data tables, for any constituent reported as non-detect (ND), include the detection limit; and
 - b. Data tables must be presented in larger fonts/format in future reports. The amount of data points included in the data tables on the hard copies may be reduced if necessary. Continue to include all data points in the tables on the electronic reports.
3. Include a Mann-Kendall statistical analysis of dissolved phase trends for each for the following constituents in all future *Quarterly Status Reports*: benzene; toluene; ethylbenzene; xylene, and MTBE.
4. In addition to the *EDR GEOCheck Report*, field verify the presence and location of all potential wells within 1,000 feet of the site and accurately plot all wells identified within 1,000 feet on a US Geological Survey topographic map or similar scaled map. Annotate on the map the 500-foot, 1,000-foot, and 0.5-mile radii. Include a well summary table with, at a minimum, the property address, owner name and address, well tag identification number, depth of the well, casing depth, screen and/or open hole depth, and a current status of usage. Review well completion reports and evaluate if site conditions could potentially impact any off-site drinking water supply wells in the area.

Notify the Oil Control Program at least five (5) working days prior to conducting any work at this site so we can be present during field activities. If you have any questions, please contact the case manager, Mr. Matt Mueller, at 410-537-3574 (email: matthew.mueller@maryland.gov) or me at 410-537-3482 (email: ellen.jackson@maryland.gov).

Sincerely,



Ellen Jackson, Northern Region Section Head
Remediation and State-Lead Division
Oil Control Program

MKM/nln

cc: Mr. Greg Beal (Advanced Environmental Concepts, Inc.)
Mr. Leigh Broderick (Carroll County Health Department)
Mr. Tom Devilbiss (Carroll County Government)
Mr. Andrew B. Miller (Chief, Remediation and State-Lead Division, Oil Control Program)
Mr. Christopher H. Ralston (Administrator, Oil Control Program)
Ms. Kaley Laleker (Acting Director, Land and Materials Administration)