



FACTS ABOUT: ROYAL FARMS STORE NO. 1

ENVIRONMENTAL INVESTIGATION ROYAL FARMS STORE NO. 1 2620 MOUNTAIN ROAD, JOPPA HARFORD COUNTY, MARYLAND MDE CASE NO. 2005-0357HA (OPEN)

SITE LOCATION

The Maryland Department of the Environment (MDE), Oil Control Program (OCP), in coordination with the Harford County Health Department, is evaluating the impacts of petroleum constituents at the Royal Farms Store No. 1, located at 2620 Mountain Road in Joppa. This location has been an active gasoline retail station since 1996 when two composite underground storage tank (UST) systems were installed. The piping is comprised of double-walled fiberglass reinforced plastic. The site is equipped with Stage I and Stage II vapor recovery systems. Currently, five monitoring wells, two tank field monitoring pipes, and a transient non-community drinking water supply well are located on-site. Groundwater flow is northerly/northeasterly and depth to groundwater is between 8 and 20 feet.

SITE HISTORY

In July 2004, sampling of the tank field monitoring pipes first detected benzene at 20.3 parts per billion (ppb) and methyl tertiary-butyl ether (MTBE) at 11,632 ppb. The MDE-OCP opened Case No. 2005-0357-HA in September 2004. In July 2005, the MDE-OCP received groundwater sampling results from the three monitoring wells installed pursuant to Code of Maryland Regulations (COMAR) 26.10.02.03-4. MTBE was detected in a monitoring well up to 730 ppb. The station's drinking water supply well has been sampled regularly since 2005 and all results have been below regulatory levels for petroleum constituents.

ENVIRONMENTAL INVESTIGATIONS AND ACTIONS

In March 2009, a soil vapor extraction (SVE) system was installed in the tank field area to reduce and mitigate MTBE impact. Operating until May 2011, the SVE system recovered approximately 28 pounds of total volatile organic compounds. In June 2011, two additional monitoring wells were installed on-site. In August 2011, a surfactant flush was conducted in the tank field, during which approximately 10,367 gallons of water and 445 gallons of surfactant were introduced into the tank field. Approximately 10,035 gallons of liquid was recovered following surfactant flush event.



CURRENT STATUS

To date, several private off-site drinking water supply wells, located in close proximity to the active station, have been sampled by Royal Farms. All results have been non-detect for petroleum constituents. At this time, the MDE-OCF does not anticipate expanding the off-site residential sampling effort beyond sampling needed to ensure community safety. The Department has required that Royal Farms continue to gauge and sample the monitoring well network and the on-site drinking water supply well.

FUTURE UPDATES

- Postings on www.mde.maryland.gov
- File available at the MDE Headquarters

CONTACTS

- Maryland Department of the Environment – Oil Control Program: 410-537-3442
- Harford County Health Department: 410-877-2321 or 410-877-2322
- Royal Farms: 410-889-0200 ext. 110

DISCLAIMER

The intent of this fact sheet is to provide the reader a summary of site events as they are contained within documents available to MDE. To fully understand the site and surrounding environmental conditions, MDE recommends that the reader review the case file that is available at MDE through the Public Information Act. The inclusion of a person or company's name within this fact sheet is for informational purposes only and should not be considered a conclusion by MDE on liability, involvement in a wrongful act, or contribution to environmental damage.

