



Maryland
Department of
the Environment

FACTS ABOUT: Jarrettsville High's #86

**GROUNDWATER INVESTIGATION
HIGH'S DAIRY STORE #86
3711 FEDERAL HILL ROAD, JARRETTSVILLE
HARFORD COUNTY, MARYLAND
OCP CLOSED CASE NOS. 1995-2516-HA and 2006-0439-HA
OCP OPEN CASE NO. 2021-0221-HA**

SITE LOCATION

The Maryland Department of the Environment's (MDE) Oil Control Program (OCP) received notification of elevated petroleum constituents in the groundwater and is currently evaluating this notification for High's Dairy Store #86, located at 3711 Federal Hill Road in Jarrettsville. This facility is owned and operated by High's of Baltimore, LLC (High's) and has been an active gasoline retail station since the mid-1990s. In May 1995, the two active underground storage tanks (USTs) were installed at the site: two 12,000-gallon compartmentalized gasohol and diesel USTs with varied compartment sizes. The USTs are double-walled composite steel with a fiberglass-reinforced plastic outer wall and double-walled flexible plastic piping. In June 2019, upgrades were made to the dispenser containment sumps and select piping lines. Currently, three groundwater monitoring wells and a transient non-community drinking water supply well are located on site.

SITE HISTORY

In June 2005, three monitoring wells were installed pursuant to the State's high-risk groundwater use area (HRGUA) regulations, Code of Maryland Regulations (COMAR) 26.10.02.03-4. The initial HRGUA sampling results had detections of methyl tertiary-butyl ether (MTBE) ranging from 15 to 3,000 parts per billion (ppb). In November 2005, following receipt of the results, MDE opened Case No. 2006-0439-HA and required the monitoring well network and on-site supply well be sampled on a semi-annual basis. Throughout the case, additional monitoring wells were installed for a total of 8 monitoring wells and sampling of the monitoring well network exhibited detections of benzene and MTBE. Select monitoring wells were the focus of targeted total fluids and soil vapor extraction remediation between June 2012 and January 2013. Sampling results for the on-site supply well were non-detect for petroleum related constituents from 2011 to present. Case No. 2006-0439-HA was closed April 8, 2015 following the abandonment of select wells; however, annual sampling of the on-site drinking water supply well and a network of three monitoring wells continued to be a requirement to meet HRGUA regulations.



ENVIRONMENTAL INVESTIGATION AND ACTIONS

On November 9, 2020, MDE received a groundwater sampling report for routine annual sampling conducted by High's on October 9, 2020. The report showed that petroleum-related compounds were detected in the groundwater sample collected from one of three monitoring wells located on the property, MW-4. The petroleum-related compound benzene was detected at a concentration of 139 parts per billion (ppb), which exceeds the notification standard of 5 ppb. The petroleum-related compound methyl tertiary butyl ether (MTBE) was detected at a concentration of 452 ppb, which exceeds the notification standard of 20 ppb. The other on-site monitoring wells (MW-1 and MW-3) were non-detect for petroleum-related compounds, and the on-site drinking water supply well results have been non-detect for petroleum constituents from 2011 to the present.

CURRENT STATUS

Based on the detections of petroleum constituents received November 9, 2020, MDE opened Case No. 2021-0221-HA. In cooperation with the OCP, High's collected confirmation samples from groundwater monitoring well MW-4 on November 19 and 20, 2020. Results from the original and confirmation samples for MW-4 are summarized in the table below. The petroleum underground storage tank (UST) systems were tested for tightness on November 19, 2020, and found to be tight. Based upon the sampling results summarized above and the UST system testing, there is no evidence of a current or ongoing discharge from the UST systems.

MW-4 Sample Results:

Sample Date	Benzene	MTBE
10/09/2020 ¹	139	452
11/19/2020 ²	ND	ND
11/20/2020 ¹	ND	34.5
11/20/2020 ²	ND	6.95

Notes:

1. Sample collected immediately after purging the well of groundwater.
2. Sample collected after purging but allowing groundwater in the well to recharge to the pre-sampling level.

All results are reported in parts per billion.

ND – Result not detected above method detection limit.

The MDE is working with the Harford County Health Department to notify property owners within one-half mile of the site, as required by state law. The MDE will evaluate the status of the case and determine if High's will be required to perform additional actions.

FUTURE UPDATES

- Postings available on www.mde.maryland.gov
- File available at MDE's headquarters in Baltimore.

CONTACTS

- Oil Control Program: 410-537-3442 or 1-800-633-6101, ext. 3442
- Harford County Health Department: 410-877-2200
- High's Dairy Store #86: 410-261-5450

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, which can be requested 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.