Maryland
Department of
the Environment

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

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

May 25, 2022

CERTIFIED MAIL

RE: INFORMATIONAL NOTIFICATION LETTER
Case No. 1995-1777-BA
Charlies Service Station
11024 Liberty Road, Randallstown
Baltimore County, Maryland
Facility I.D. No. 15095

Dear Resident or Property Owner:

This letter is provided in compliance with Section 4-411.2 of the Environment Article, Annotated Code of Maryland. The intent of this letter is to **notify you that petroleum-related compounds have been detected in a groundwater monitoring well sample at the above-referenced property at a concentration exceeding the statutory notification level**. As a property owner within 0.5-mile of the subject property (see enclosed map), notification is required to be submitted to you to provide information about the detection at the referenced service station.

On May 2, 2022, the Maryland Department of the Environment (MDE) Oil Control Program (OCP) received notification that elevated dissolved phase petroleum impacts, relative to historical sampling results, were detected in a water sample collected from monitoring well MW-3R on April 19, 2022. The sampling was performed pursuant to MDE directives associated with active OCP Case No. 1995-1777-BA. The following petroleum-related compounds were reported at levels exceeding notification levels:

- **benzene was detected at a concentration of 42,800 parts per billion (ppb), which exceeds the notification level of 5 ppb;**
- **toluene was detected at a concentration of 146,800 ppb, which exceeds the notification level of 1,000 ppb;**
- **ethylbenzene was detected at a concentration of 126,800 ppb, which exceeds the notification level of 700 ppb; and**
- **total xylenes were detected at a concentration of 380,000 ppb, which exceeds the notification level of 10,000 ppb.**

The other on-site monitoring wells (MW-1 and MW-2) were either non-detect (ND) for petroleum-related compounds or below notification limits. Sample results from a recently installed replacement on-site water supply well reported the detection of methyl tertiary-butyl ether (MTBE) at a concentration of 1,070 ppb. A second sample from this water supply well was collected on May 4, 2022 and reported a MTBE concentration of 3.81 ppb. There were no other compounds detected above groundwater standards during either sampling events.

In response to the detections, MDE required a confirmation sample to be collected from MW-3R. The confirmation sample was collected on May 10, 2022, and received by MDE on May 12, 2022. Sample results reported the following concentrations exceeding notification levels:

- **benzene was detected at a concentration of 2,300 ppb;**
- **toluene was detected at a concentration of 7,200 ppb;**
- **ethylbenzene was detected at a concentration of 2,400 ppb; and**
- **total xylenes were detected at a concentration of 11,700 ppb.**

MTBE was reported as ND in this sample: however, the sample had a MTBE detection limit of 500 ppb, which exceeds the notification level of 20 ppb.

The OCP Compliance Division conducted an initial review of the underground storage tank (UST) systems at the facility and **did not find evidence of an active or ongoing release** from the UST systems. A more thorough inspection of the UST systems is currently in progress and the station owner will be directed to make corrections, as needed.

On May 16, 2022, MDE provided official notice to the Baltimore County Department of Environmental Protection and Sustainability (BCDEPS) of the petroleum detections and of the open investigation. MDE is working with the BCDEPS to evaluate risks to the community associated with the recent detections. Charlie's Service Station will continue to monitor groundwater at the site, as directed by MDE. In addition, **MDE has selected an initial group of private drinking water wells adjacent to the facility for sampling**. MDE will evaluate the results of these selected water well samples and determine if additional sampling or other actions are warranted. Your cooperation in the matter is appreciated.

MDE will continue to monitor the subject property to ensure community health and safety. This will include continued evaluation of the property and monitoring of the situation until the property has been investigated and the contamination mitigated to the satisfaction of MDE.

If your property has not been selected within the initial group for sampling, you may elect to have your well water tested by a private laboratory. Your decision should be based on the proximity of your well(s) to Charlie's Service Station and whether you have noticed any change in the taste or odor of your well water. For your convenience, enclosed is a list of private laboratories that can assist you should you decide to have your well water tested privately. The recommended test to request is U.S. Environmental Protection Agency (EPA) Method 524.2 for full-suite volatile organic compounds (VOCs), including fuel oxygenates and naphthalene. Samples should be collected by a certified sampler and prior to the water passing through any treatment device.

A project Fact Sheet has been prepared to provide information regarding the site (enclosed). The Fact Sheet will be updated periodically as the case progresses. The Fact Sheet and other documents related to the investigation will be posted to the OCP webpage: mde.maryland.gov/programs/LAND/OilControl/Pages/remediationsites.aspx.

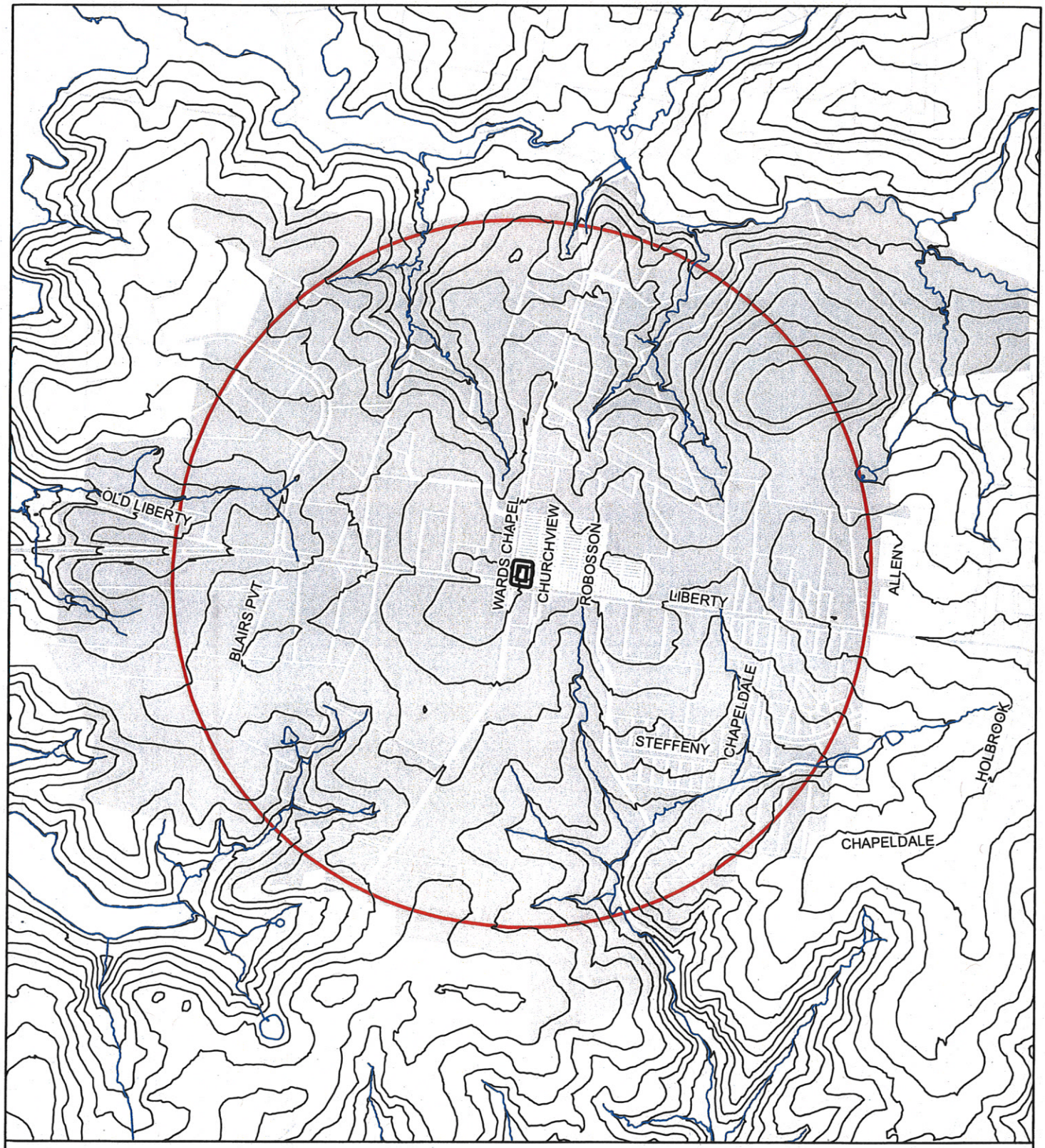
If you have any questions, please contact the case manager, Mr. Matt Mueller, at 410-537-3574, or matthew.mueller@maryland.gov.

Sincerely,

Christopher H. Ralston
Program Manager
Oil Control Program

Enclosures:
- Map
- Fact Sheet
- Testing Laboratory List

cc: Christopher Brocato, Charlies Service Station
Kevin Koepenick, Manager, BCDEPS
Kaley Laleker, Director, Land and Materials Administration, MDE
Robert Peoples, Chief, Source Protection and Administration Division, MDE
Andrew B. Miller, Chief, Remediation Division, Oil Control Program, MDE



11024 Liberty Road: Properties to be Notified

800 400 0 800 1,600 2,400 Feet

1:12,000 1 inch equals 1,000 feet

N

Streams

Spilllocation

20' Elevation Contours

1/2 Mile Radius

Other Properties

Properties to be Notified

Prepared by Geographic Information Services, Baltimore County Department of Environmental Protection and Resource Management
06.30.07
R:\Depts\Deprm\Projects\Groundwater\MDEgroundwaterAlert.mxd
C:\GIS_Projects\11024_LibertyRoad.pdf

Maryland
Department of
the Environment

FACTS ABOUT:

Charlie's Service Station

GROUNDWATER INVESTIGATION
CHARLIE'S SERVICE STATION
11024 LIBERTY ROAD, RANDALLSTOWN
BALTIMORE COUNTY, MARYLAND
OCP OPEN CASE NO. 1995-1777-BA
FACILITY ID No. 15095

SITE LOCATION

Charlie's Service Station, located at 11024 Liberty Road in Randallstown, is currently owned and operated by Christopher Brocato and has been an active gasoline retail station since prior to the 1980s. The current underground storage tank (UST) system was installed in October 1996, and consists of a 15,000-gallon compartmentalized double-walled fiberglass-reinforced plastic UST and double-walled flexible plastic piping. Currently, three groundwater monitoring wells and a transient non-community water supply well are located on site.

SITE HISTORY

Petroleum related impacts to groundwater were first identified at the site in the 1980s when the Baltimore County Health Department conducted sampling of nearby residential water supply wells. Exxon ceased operations of the station in May 1981, and removed UST systems in July 1981. In February 1995, OCP Case No. 95-1777-BA was opened when five gasoline USTs were removed, and petroleum-impacted soils were detected. The petroleum-impacted soils were removed, and groundwater monitoring wells were required; however, the monitoring wells were abandoned due to lack of groundwater. In 2007, three new monitoring wells were installed to comply with the high-risk groundwater use area (HRGUA) regulations, Code of Maryland Regulations (COMAR) 26.10.02.03-4. Since the monitoring wells were installed, dissolved phase petroleum hydrocarbons have been periodically detected in the monitoring wells. Sampling of select residential water supply wells has been performed periodically over the history of the project. Only samples collected from the well serving 4507 Wards Chapel Road have detected concentrations of dissolved phase petroleum hydrocarbons at levels exceeding groundwater standards since 2007.

ENVIRONMENTAL INVESTIGATION AND ACTIONS

In April 2022, MW-3 was abandoned and replaced with MW-3R, as required by the Maryland Department of the Environment (MDE). On May 2, 2022, MDE received notification of the detection of dissolved phase petroleum-related constituents in the station's water supply well, the replacement monitoring well MW-3R, and the residential water supply well serving 4507 Wards

Chapel Road. The dissolved phase concentrations reported in monitoring well MW-3R indicated an increase in concentrations relative to historic data trends. During the April 2022 sampling event, benzene, toluene, ethylbenzene, and total xylenes were detected in MW-3R at a concentration exceeding the notification levels specified in COMAR 26.10.02.03-4. Additionally, MTBE was detected in the station's water supply well and in the 4507 Wards Chapel Road water supply well.

In response to the recent detections, MDE required the collection of confirmation samples from the station's water supply well, monitoring well MW-3R, the 4507 Wards Chapel Road water supply well, and the water supply well serving 11023 Liberty Road. On May 4, 2022, a confirmation sample was collected from the station's water supply well and results were below regulatory levels (MTBE was detected at a concentration of 3.81 ppb). On May 9 and 10, 2022, confirmation samples were collected from the 4507 Wards Chapel Road water supply well and MW-3R, and a sample was collected from the water supply well serving 11023 Liberty Road. The May 10, 2022, sample results confirmed the impacts to the 4507 Wards Chapel Road water supply well and MW-3R. The sample results for the 11023 Liberty Road water supply wells were non-detect. Treatment systems were required to be installed on the impacted water supply wells serving 4507 Wards Chapel Road and the service station.

CURRENT STATUS

Based on the detections of petroleum constituents received May 2, 2022, MDE is working with the Baltimore County Department of Environmental Protection and Sustainability to notify property owners within one-half mile of the site, as required by state law. The MDE has requested access to select adjacent properties to perform water supply well sampling. Once sampling results are obtained, MDE will evaluate what additional actions will be necessary to ensure protection of human health and the environment.

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
- Baltimore County Dept. of Environmental Protection and Sustainability: 410-887-2762
- Charlie's Service Station: 410-922-2910

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.

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Land and Materials Administration • Oil Control Program
1800 Washington Boulevard • Suite 620 • Baltimore Maryland 21230-1719
410-537-3442 • 800-633-6101 x3442 • 410-537-3092 (fax) • www.mde.maryland.gov

LABORATORIES

The laboratories listed below are capable of analyzing samples for the purpose of testing for petroleum hydrocarbons. You are encouraged to fully discuss with the company you select the issues associated with sampling for fuel oxygenates, such as methyl tertiary-butyl ether (MTBE), tertiary-amyl methyl ether (TAME), diisopropyl ether (DIPE), and tertiary-butyl alcohol (TBA).

Please note that EPA Method 524.2 is the recommended method for laboratory analysis of groundwater samples collected from drinking water supply wells since petroleum compounds of concern can be detected at very low levels using this specific method. EPA Method 524.2 encompasses a wide range of petroleum hydrocarbons such as benzene, toluene, ethylbenzene, and xylene (BTEX), in addition to fuel oxygenates such as MTBE. Please note that you should verify with each laboratory if they are certified in Maryland to collect drinking water samples.

Companies with an asterisk (*) have notified the Oil Control Program that they are prepared to either test for the suite of common fuel oxygenates following the U.S. EPA's validated analytical methods for common fuel oxygenates or they have taken the necessary alternative steps to determine the levels of fuel oxygenates in water and soil. Contact these companies to be fully informed of the sample preservation method they require prior to your sampling event. For more information, access EPA's Underground Storage Tank Fact Sheet – Analytical Methodologies for Fuel Oxygenates at www.epa.gov/oust/mtbe/omethods.pdf.

The Maryland Department of the Environment assembled this list from the best available information at the time of preparation. The Department makes no claim as to the list's completeness or to the quality of work performed by these laboratories. Inclusion on this list is not to be considered an endorsement by the State of Maryland.

Aardvark Water Testing Laboratory, Inc.*
260 Gateway Drive, Suite 3A
Bel Air, Maryland 21014
410-893-5257

Anabell Environmental, Inc.*
8648 Dakota Drive
Gaithersburg, Maryland 20877
301-548-9425

Analytical Laboratory Services, Inc.*
8965 Guilford Road, Suite 100
Columbia, Maryland 21046
410-290-8884

Caliber Analytical Services, LLC*
8851 Orchard Tree Lane
Towson, Maryland 21286
410-825-1151

Chemtech
284 Sheffield Street
Mountainside New Jersey 07092
908-728-3142

Chesapeake Environmental Lab, Inc.
P.O. Box 946
Stevensville Maryland 21666
410-643-0800
1-800-300-TEST

ECS Mid-Atlantic, LLC
1340 Charwood Road, Suite P
Hanover, Maryland 21076
410-859-4300

Enviro-Chem Laboratories, Inc.
47 Loveton Circle, Suite K
Sparks, Maryland 21152
410-472-1112

Environmental Management Services, Inc.
1688 East Gude Drive, Suite 301
Rockville, Maryland 20850
301-309-0475

Envirosystems, Inc.
9200 Rumsey Road, Suite B102
Columbia, Maryland 21045-1934
410-964-0330

Federated Environmental Assoc., Inc.
1314 Bedford Avenue
Baltimore, Maryland 21208
410-653-8434

Fountain Valley Analytical Laboratory, Inc.
1413 Old Taneytown Road
Westminster, Maryland 21158
410-848-1014

Fredericktowne Lab, Inc.*
3039-C Ventrie Court, P.O. Box 244
Myersville, Maryland 21773
301-293-3340

GPL Laboratories, LLLP
7210 Corporate Court, Suite A
Frederick, Maryland 21703
301-694-5310

Martel Laboratories JDS, Inc.*
1025 Cromwell Bridge Road
Baltimore, Maryland 21204
410-825-7790

Maryland Spectral Services, Inc.*
1500 Caton Center Drive, Suite G
Baltimore, Maryland 21227
410-247-7600

Microbac Laboratories, Inc.*
2101 Van Deman Street
Baltimore, Maryland 21224-6697
410-633-1800

Penniman & Browne, Inc.
6252 Falls Road
Baltimore, Maryland 21209
410-825-4131

Phase Separation Science, Inc.*
6630 Baltimore National Pike
Baltimore, Maryland 21228
410-747-8770

Trace Laboratories, Inc.*
5 North Park Drive
Hunt Valley, Maryland 21030
410-584-9099