

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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Environmental Investigation Former High's No. 129 1919 Pulaski Highway, Northeast Cecil County, Maryland Case No. 1994-2649CE

The Maryland Department of the Environment (MDE), Oil Control Program (OCP), in coordination with the Cecil County Health Department (CECHD), is evaluating the impact of methyl tertiary-butyl ether (MTBE) at the former High's Store No. 129. Currently the facility is no longer an active station. To assist with accessing the groundwater there are six (6) groundwater monitoring wells being used: five (5) on-site and one (1) off-site. Groundwater flow at the site is northeast, with a depth to groundwater of four (4) to ten (10) feet.

Between 1989 and 2003, this former gasoline retail facility was operated by High's of Baltimore, Inc. In 1989, five (5) underground storage tanks (USTs) were installed: three 10,000-gallon gasoline, a 10,000-gallon diesel and a 6,000 kerosene. These UST systems comprised double-walled composite steel with fiberglass-reinforced plastic and double-walled flexible plastic piping. All tanks were removed from the property in June 2003. Following UST removal activities, sampling of the on-site drinking water supply well detected MTBE at 130 parts per billion (ppb).

MTBE is a fuel additive commonly used to reduce carbon monoxide and ozone levels caused by auto emissions. There is no national regulatory standard for MTBE in drinking water. In 1997, the U.S. Environmental Protection Agency (EPA) issued an advisory for MTBE of 20 to 40 parts per billion (ppb), based on taste and odor. Although the EPA has not established a regulated Maximum Contaminant Level (MCL) for MTBE, the MDE has adopted an action level of 20 ppb.

Between 2004 and 2007, a total of eight (8) off-site private drinking water wells have been sampled. Petroleum constituents have impacted only one (1) off-site private well. However, High's, currently maintains two GAC systems at no expense to the property owners, including the impacted property. At this time, the MDE-OCP does not anticipate expanding the off-site sampling effort beyond sampling needed to ensure community safety.

- 8 off-site private drinking water wells and the on-site supply well have been sampled:
 - 5 wells No detectable levels of MTBE
 - 2 wells MTBE below 5 ppb
 - 1 well MTBE detected above 20 ppb
 - 1921 Pulaski Highway (*Sampling event 02/27/07, MTBE first detected at 148 ppb*)
GAC installation completed 06/2004
(Last sampling event 02/08/08 MTBE at 170 ppb)
 - 1919 Pulaski Highway former High's #129
(Sampling event 09/23/03, MTBE first detected at 130 ppb)
GAC installation completed 06/2004
(Last sampling event 02/08/08 MTBE at 170 ppb)

Chronology

- March 29, 1989. MDE-OCP performed a routine site inspection. Several violations noted, including the presence of liquid-phase hydrocarbons in the kerosene monitoring pipe.
- April 19, 1994. MDE-OCP performed a routine site inspection. Several violations noted, including:
 - Petroleum product found in kerosene tank field monitoring pipes.
 - Product found in the regular unleaded submersible pump sump and in dispenser catch basins.
 - Dispenser nozzles noted to allow product release after system was off.
- 1997: MDE-OCP performed follow-up compliance inspection. Minor violations noted.
- 2000: Site compliance issues.

- February 10, 2000. MDE-OCP follow-up compliance inspection revealed gasoline present in fill catch basins.
 - April 6, 2000. MDE-OCP follow-up compliance inspection. Saturated sorbent pads present in catch basins.
 - April 20, 2000. MDE-OCP follow-up compliance inspection. Product/water and debris in catch basins.
 - May 18, 2000. MDE-OCP performed a vapor recovery inspection, no equipment deficiencies were found in the Stage I or Stage II vapor recovery systems.
- 2003: UST removal.
- June 9, 2003. MDE-OCP on-site for the removal of a 6,000-gallon buffhide kerosene tank.
 - No perforations in the UST or the piping. A soil sample collected at the bottom of the excavation.
 - June 10, 2003. MDE-OCP on-site for the removal of (3) 10,000-gallon buffhide gasoline tanks and (1) 10,000-gallon buffhide diesel tank.
 - No perforations in the USTs or the piping. Soil samples collected below the USTs.
 - June 27, 2003. MDE-OCP received *Underground Tank Closure Report – June 26, 2003*.
 - All soil samples below regulatory levels.
 - Two groundwater samples collected from the tank field monitoring pipes (*See table for sampling results*).
 - July 8, 2003. MDE-OCP follow-up site visit. Product lines remain in place and have been capped.
 - September 12, 2003. MDE-OCP site visit to observe soil borings collected along piping run.
 - September 18, 2003. MDE-OCP issued a letter to High's of Baltimore, Inc. requiring:
 - Sampling of the on-site drinking water supply well;
 - A subsurface investigation along the piping run.
 - October 16, 2003. MDE-OCP received *Sampling Report – October 15, 2003*.
 - Sampling of the on-site drinking water supply well in September 2003 detected MTBE at 130 ppb;
 - Four (4) soil samples were collected beneath the piping; all soil samples were below regulatory levels;
 - Soil excavation during piping removal was proposed.
 - December 9, 2003. MDE-OCP was informed as to the status of the piping removal.
 - Piping removed. No soils were excavated.
 - Groundwater samples collected. TPH/DRO detected up to 18.2 ppm
- 2004: Impacts to drinking water supply wells, GAC installation and monitoring. MDE-OCP received *Monthly Sampling Reports*.
- February 10, 2004. MDE-OCP directive letter to High's requiring:
 - Sampling of the on-site drinking water supply well;
 - Sampling of adjacent drinking water supply wells; and
 - Submittal of well logs for all wells sampled.
 - March 24, 2004. MDE-OCP received on-site and off-site well sampling results (*see Table*).
 - March 26, 2004. MDE-OCP received a *Site Status Letter* request to facilitate a pending real estate transaction.
 - April 5, 2004. MDE-OCP sampled the drinking water supply well at 1921 Pulaski Highway (Circle Motel).
 - April 9, 2004. MDE-OCP received copies of well logs from CCHD.
 - April 21, 2004. MDE-OCP directive letter to High's, requiring:
 - Installation of GAC systems at 1919 and 1921 Pulaski Highway, with monthly sampling;
 - A hydrogeological study to determine the extent of the petroleum contamination.
 - June 29, 2004. MDE-OCP received *Report – June 28, 2004*, detailing the installation of carbon filtration systems at 1919 and 1921 Pulaski Highway.
 - June 8, 2004 sampling event (*see Table*).
 - The drinking water supply well at the former High's (1919 Pulaski Highway) was no longer active.
 - August 2, 2004. MDE-OCP received a second request for a *Site Status Letter* for the property to assist in the pending settlement. A copy of the 4/21/04 directive letter was faxed in response.
 - August 30, 2004. MDE-OCP received *Drinking Well Sampling Report – August 27, 2004*.
 - A ¼ mile well survey performed;
 - Six (6) private drinking water wells sampled. Sampling results below regulatory levels (*see Table*);
 - Four (4) temporary monitoring points installed along the property boundary was proposed.
 - October 1, 2004. MDE-OCP directive letter requiring:
 - GAC systems upgraded to adequately remove petroleum contamination in the drinking water supply wells at 1919 and 1921 Pulaski Highway;
 - Submit a *Work Plan* to delineate the extent of petroleum contamination on-site.
 - November 2, 2004. MDE-OCP received, via fax, of a subsurface investigation geoprobe to be conducted in response to the Department's 10/01/04 requirements.
 - November 12, 2004. MDE-OCP on-site to observe the subsurface investigation geoprobe.
 - Groundwater encountered approximately seven (7) to twelve (12) feet.

- Three (3) piezometers to be installed. Six (6) samples collected from borings, including one (1) sample from the adjacent Circle Motel Property (1921 Pulaski Highway).
 - December 8, 2004. MDE-OCP received *Work Plan – December 6, 2004* for the subsurface geoprobe investigation conducted 11/12/04.
 - Nine (9) direct push borings; seven (7) on-site and two (2) off-site at 1921 Pulaski Highway;
 - Three (3) borings converted to temporary piezometers;
 - Groundwater samples collected from the remaining six (6) boring locations;
 - Two (2) soil samples collected from the deepest borings;
 - High's requested that the on-site GAC system not be upgraded until the property sale transaction had been completed, since the well was not in use;
 - The GAC system at 1921 Pulaski Highway (Circle Motel) to be upgraded.
 - December 27, 2004. MDE-OCP directive letter to High's requiring upgrading of both GAC filtration systems at 1919 and 1921 Pulaski Highway, as well as sampling pre-, mid-, and post-treatment.
 - December 27, 2004. MDE-OCP received *Site Assessment Report – December 23, 2004* detailing the 11/12/04 geoprobe subsurface investigation.
 - Groundwater flow northwesterly;
 - Soil samples below regulatory levels;
 - Groundwater samples detected: benzene - 8.12 ppb; MTBE - 2,820 ppb; TPH/GRO - 2,590 ppb
 - December 28, 2004. CECHD letter to High's, requiring that potable water be supplied to the property at 1921 Pulaski Highway (Circle Motel) and that well permits be submitted for any monitoring wells installed during the subsurface investigation. (*See table for sampling events conducted in 2004.*)
- 2005: Monthly drinking water well sampling. MDE-OCP received *Monthly Sampling Reports*.
- January 3, 2005. MDE-OCP informed that the GAC systems at both 1919 Pulaski Highway (former High's) and 1921 Pulaski Highway (Circle Motel) had been upgraded.
 - April 11, 2005. MDE-OCP received *Monthly Sampling Report – March 2005*.
 - March 21, 2005 sampling event (*see Table*).
 - MDE-OCP on-site to collect split samples.
 - June 8, 2005. MDE-OCP received a request that the sampling frequency be decreased to bi-monthly for both properties (1919 and 1921 Pulaski Highway).
 - July 7, 2005. MDE-OCP directive letter to High's, requiring the following:
 - Continued maintenance of the GAC systems at the former High's and 1921 Pulaski Highway (Circle Motel).
 - A subsurface investigation to delineate the extent of contamination on-site and off-site.
 - July 22, 2005. MDE-OCP received a proposal for additional groundwater and soil sampling to the north and northwest of the original subsurface investigation.
 - August 24, 2005. MDE-OCP letter to High's requesting a meeting to discuss the present status of the case.
 - November 28, 2005. MDE-OCP received a proposal for the installation of five (5) groundwater monitoring wells (four on-site, one off-site) to delineate the extent of groundwater contamination.
 - December 7, 2005. MDE-OCP directive letter to High's, approving the proposed *Work Plan*, with the relocation of one monitoring well and the installation of an additional monitoring well.
 - December 27, 2005. MDE-OCP informed High's via email that carbon change-out should be performed due to MTBE breakthrough in the mid- and post-treatment results.
 - December 29, 2005. MDE-OCP required, via email, that GAC change-out be performed.
 - *See table for sampling events conducted in 2005.*
- 2006: Drinking water well sampling. Monitoring wells installed. MDE-OCP received *Monthly Sampling Reports*.
- Carbon rebedded at 1919 Pulaski Highway on 1/31/06.
 - March 7, 2006. MDE-OCP received *Phase II Well Sampling Report – March 6, 2006*.
 - Six (6), four-inch diameter monitoring wells installed in January 2006.
 - Soil samples below regulatory levels.
 - Groundwater encountered between six (6) and eight (8) feet.
 - Groundwater sampling of the monitoring wells on 02/10/06 detected MTBE up to 3,300 ppb.
 - Groundwater flow to the northeast.
 - Case closure requested.
 - May 2, 2006. MDE-OCP received a request for case closure based on the drinking water well sampling results at 1919 and 1921 Pulaski Highway. GAC systems would remain in place and be monitored.
 - May 23 and June 2, 2006. MDE-OCP directive letter to High's denying the request for case closure, and requesting the submittal of a *Corrective Action Plan* to mitigate potential risk to on-site and off-site receptors.

- June 14, 2006. MDE-OCP received *Letter Response – June 12, 2006*, proposing follow-up sampling of the monitoring well network and consideration of a geoprobe subsurface investigation study and further study of the impacted well at 1921 Pulaski Highway (Circle Motel).
 - August 31, 2006. MDE-OCP directive letter to High's, recommending proper abandonment of the supply wells at 1919 Pulaski Highway (former High's) and 1921 Pulaski Highway (Circle Motel); and requiring:
 - Submittal of a Site Conceptual Model;
 - A detailed *Corrective Action Plan*;
 - Continued quarterly sampling of all monitoring wells; and
 - Continued monthly sampling and maintenance of the GAC systems at 1919 Pulaski Highway and Circle Motel (1921 Pulaski Highway).
 - The GAC carbon at 1921 Pulaski Highway (Circle motel) was rebedded in September 2006.
 - November 6, 2006. MDE-OCP received *Response Letter – November 1, 2006*.
 - The supply well at 1921 Pulaski Highway (Circle Motel) was installed on 05/22/96.
 - A request for no further action at the site
 - *See table for sampling events conducted in 2006.*
- 2007: Continued sampling.
- January 10, 2007. MDE-OCP received *December 2006 Monthly Sampling – January 8, 2007. (see Table)*.
 - January 19, 2007. MDE-OCP received *January 2007 Monthly Sampling – January 12, 2007. (see Table)*.
 - February 5, 2007. MDE-OCP received *Monitoring Well Sampling Event 1st Quarter 2007 – January 30, 2007.*
 - March 23, 2007. MDE-OCP received *February 2007 Monthly Sampling – March 8, 2007 (see Table)*.
 - April 18, 2007. MDE-OCP received *March 2007 Monthly Sampling – April 10, 2007.* March 23, 2007 sampling event (*see Table*). The carbon at 1921 Pulaski Highway (Circle Motel) rebedded in March 2007.
 - May 3, 2007. MDE-OCP received *April 2007 Monthly Sampling – May 1, 2007. (see Table)*.
 - May 4, 2007. MDE-OCP received *Monitoring Well Sampling Event, 2nd Quarter 2007 – May 1, 2007. (see Table)*. An attempt to locate MW-2 with a metal detector was unsuccessful.
 - June 22, 2007. MDE-OCP received *May 2007 Monthly Sampling – May 1, 2007 (see Table)*.
 - July 10, 2007. MDE-OCP received *June 2007 Monthly Sampling – July 2, 2007 (see Table)*.
 - August 10, 2007. MDE-OCP received *July 2007 Monthly Sampling – August 8, 2007 (see Table)*.
 - September 11, 2007. MDE-OCP received *Third Quarter 2007 Groundwater Sampling Report – September 3, 2007. (see Table)*.
 - September 17, 2007. MDE-OCP received *August 2007 Monthly Sampling – September 13, 2007. (see Table)*.
 - October 4, 2007. MDE-OCP received *September 2007 Monthly Sampling – October 1, 2007. (see Table)*.
 - October 29, 2007. MDE-OCP received *October 2007 Monthly Sampling – October 25, 2007 and October Groundwater Sampling Event – October 22, 2007.*
 - 10/11/07 sampling event (*see Table*).
 - Plumbing repairs scheduled for the week of 10/29/07.
 - December 14, 2007. MDE-OCP received *November 2007 Monthly Sampling – November 30, 2007.*
 - 11/16/07 sampling event (*see Table*).
 - December 18, 2007. MDE-OCP verified that carbon replacement at the 1919 and 1921 Pulaski Highway.
 - December 20, 2007. MDE-OCP site visit. Split samples collected from the supply wells located at 1919 Pulaski Highway (former High's No. 129) and 1921 Pulaski Highway (Circle Motel).
 - January 10, 2008. MDE-OCP received *December 2007 Monthly Sampling – January 3, 2008*
 - 12/20/08 sampling event (*see Table*).
 - Carbon at the Circle Motel (1921 Pulaski Highway) rebedded in December 2007.
 - January 11, 2008. MDE-OCP received sampling results conducted 12/20/07 (*see Table*).
 - January 22, 2008. MDE-OCP received *January Groundwater Sampling Event – January 16, 2008.*
 - 01/08/08 monitoring well sampling event (*see Table*).
 - January 23, 2008. MDE-OCP received *January 2008 Monthly Sampling – January 16, 2008.*
 - 01/08/08 sampling event (*see Table*).
 - March 10, 2008. MDE-OCP received *February 2008 Monthly Sampling – March 5, 2008.*
 - 02/08/08 sampling event (*see Table*).
 - April 23, 2008. MDE-OCP received *Second Quarter 2008 GW Sampling Event – April 21, 2008.*
 - 04/11/08 sampling event (*see Table*).

Future Updates:

- Future updates on this case investigation will be posted at www.mde.state.md.us [at the MDE home page, (select) Land, (select) Program, (select) Oil Control, (select) Remediation Sites].

Contacts:

- Maryland Department of the Environment (MDE) – Oil Control Program 410-537-3443
- Cecil County Health Department (CECHD) 410-996-5160

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 guilt, involvement in a wrongful act or contribution to environmental damage.

**Monitoring Well Data at the former High's No. 129 facility located at 1919 Pulaski Highway,
Northeast**

| Groundwater Sampling Data | Sampling Event | Benzene MCL at 5 ppb | MTBE State's Action Level at 20 ppb | Other petroleum constituents of concern Ethylbenzene – MCL at 700 ppb Toluene – MCL at 1000 ppb Xylenes – MCL at 10,000 ppb |
|---|----------------|-------------------------|--|--|
| TP-1 (abandoned in June 2003) | 05/08/03 | 6.79 | 2,230 | --- |
| TP-2 (abandoned in June 2003) | 05/08/03 | 247 | 57,600 | --- |
| MW1 4 in. diameter well ; Borehole depth 25 ft. Screen depth 5 to 25 ft ; Casing depth 0-5 ft. | 02/10/06 | ND | 3 | --- |
| | 06/19/06 | ND | 3 | ND |
| | 09/14/06 | ND | ND | ND |
| | 10/03/06 | ND | ND | ND |
| | 01/17/07 | ND | ND | ND |
| | 04/13/07 | ND | 1 | ND |
| | 07/25/07 | ND | ND | ND |
| | 10/11/07 | ND | ND | ND |
| | 01/08/08 | ND | ND | ND |
| MW2 4 in. diameter well ; Borehole depth 25 ft. Screen depth 5 to 25 ft ; Casing depth 0-5 ft. | 02/10/06 | ND | 1,300 | --- |
| | 06/19/06 | ND | 1,000 | ND |
| | 09/14/06 | 1 | 450 | ND |
| | 10/03/06 | Not sampled (NS) | NS | NS |
| | 01/03/07 | NS | NS | NS |
| MW3 4 in. diameter well ; Borehole depth 25 ft. Screen depth 5 to 25 ft ; Casing depth 0-5 ft. | 04/13/07 | NS (well lost) | NS (well lost) | NS (well lost) |
| | 02/10/06 | ND | 3,300 | --- |
| | 06/19/06 | ND | 1,800 | ND |
| | 09/14/06 | ND | 2,000 | ND |
| | 10/03/06 | ND | 1,800 | ND |
| | 01/03/07 | ND | 1,600 | ND |
| | 04/13/07 | ND | 2,800 | ND |
| | 07/25/07 | 3 | 1,100 | --- |
| | 10/11/07 | 21 | 2,400 | --- |
| | 01/08/08 | ND | 1,000 | ND |
| MW4 4 in. diameter well ; Borehole depth 25 ft. Screen depth 5 to 25 ft ; Casing depth 0-5 ft. | 04/11/08 | ND | 430 | ND |
| | 02/10/06 | ND | 6 | --- |
| | 06/19/06 | ND | 3 | ND |
| | 09/14/06 | ND | ND | ND |
| | 10/03/06 | ND | 3 | ND |
| | 01/03/07 | ND | 7 | ND |
| | 04/13/07 | ND | 3 | ND |
| | 07/25/07 | ND | ND | ND |
| | 10/11/07 | ND | ND | ND |
| MW5 4 in. diameter well ; Borehole depth 25 ft. Screen depth 5 to 25 ft ; Casing depth 0-5 ft. | 01/08/08 | ND | ND | ND |
| | 04/11/08 | ND | ND | ND |
| | 02/10/06 | ND | 12 | --- |
| | 06/19/06 | ND | 50 | ND |
| | 09/14/06 | ND | ND | ND |
| | 10/03/06 | ND | 1 | ND |
| | 01/17/07 | ND | 1 | ND |
| | 04/13/07 | ND | 3 | ND |
| | 07/25/07 | ND | 1 | ND |
| MW6 4 in. diameter well ; Borehole depth 25 ft. Screen depth 5 to 25 ft ; Casing depth 0-5 ft. | 10/11/07 | ND | 11 | ND |
| | 01/08/08 | ND | 7 | ND |
| | 04/11/08 | ND | 4 | ND |
| | 02/10/06 | ND | ND | --- |
| | 06/19/06 | ND | ND | ND |
| | 09/14/06 | ND | ND | ND |
| | 10/03/06 | ND | ND | ND |
| | 01/03/07 | ND | ND | ND |
| | 04/13/07 | ND | ND | ND |
| 07/25/07 | ND | ND | ND | |
| 10/11/07 | ND | ND | ND | |
| 01/08/08 | ND | ND | ND | |
| 04/11/08 | ND | ND | ND | |

Drinking Water Sampling Results from the Former High's No. 129

| Sample Location | Sample Date | Petroleum Constituents of Concern | |
|---|------------------|--|---|
| | | Benzene (MCL - 5 ppb) | MTBE(20 ppb – action level) |
| 1919 Pulaski Highway (Former High's Store No. 129) MDE Case No. 1994-2649CE 150 ft. deep ✓ GAC installed (6/2004) | 01/04/88 | ND | Not sampled (NS) |
| | 09/23/03 | ND | 130 |
| | 02/27/04 | 7.25 | 321 |
| | 06/08/04 | ND (pre/post-filtration) | 152 (pre-filtration) 32 (post-filtration) |
| | 07/21/04 | 7.4 (pre-filtration) | 266 (pre-filtration) |
| | 08/06/04 | 6.3 (pre-filtration) ND (post-filtration) | 302 (pre-filtration) 69.7 (post-filtration) |
| | 09/07/04 | ND (pre-filtration) 1.0 (post-filtration) | 40.6 (pre-filtration) 60.5 (post-filtration) |
| | 10/11/04 | ND (pre/post-filtration) | 20.8 (pre-filtration) 31.0 (post-filtration) |
| | 11/23/04 | 3.1 (pre-filtration) ND (post-filtration) | 132 (pre-filtration) ND (post-filtration) |
| | 12/21/04 | ND (post-filtration) | ND (post-filtration) |
| | 01/05/05 | ND (pre/mid/post-filtration) | 69.2 (pre-filtration) 2.8 (mid-filtration) 43.8 (post-filtration) |
| | 02/04/05 | ND (pre/mid/post-filtration) | 38 (pre-filtration) 1.5 (mid-filtration) ND (post-filtration) |
| | 03/21/05 | ND (pre/mid/post-filtration) | 32 (pre-filtration) ND (mid/post-filtration) |
| | 3/21/05 (MDE) | ND (pre/mid/post-filtration) | 34.9 (pre-filtration) ND (mid/post-filtration) |
| | 04/07/05 | ND (pre/mid/post-filtration) | 40 (pre-filtration) ND (mid/post-filtration) |
| | 05/11/05 | ND (pre/mid/post-filtration) | 25 (pre-filtration) ND (mid/post-filtration) |
| | 06/01/05 | ND (pre/mid/post-filtration) | 67 (pre-filtration) ND (mid/post-filtration) |
| | 07/07/05 | ND (pre/mid/post-filtration) | 35 (pre-filtration) 1.7 (mid-filtration) 0.6 (post-filtration) |
| | 08/02/05 | ND (pre/mid/post-filtration) | 37 (pre-filtration) 1.7 (mid-filtration) ND (post-filtration) |
| | 10/06/05 | ND (pre/mid/post-filtration) | 68 (pre-filtration) 0.8 (mid-filtration) ND (post-filtration) |
| | 11/23/05 | ND (pre/mid/post-filtration) | 31 (pre-filtration) 1.8 (mid-filtration) 1.1 (post-filtration) |
| | 12/12/05 | ND (pre/mid/post-filtration) | 56 (pre-filtration) 0.7 (mid-filtration) ND (post-filtration) |
| | 01/06/06 | ND (pre/mid/post-filtration) | 96 (pre-filtration) 8.1 (mid-filtration) 1.6 (post-filtration) |
| | 02/02/06 | ND (pre/mid/post-filtration) | 26 (pre-filtration) 0.9 (mid-filtration) ND (post-filtration) |
| | 03/07/06 | ND (pre/mid/post-filtration) | 21 (pre-filtration) 0.8 (mid-filtration) ND (post-filtration) |
| | 04/06/06 | ND (pre/mid/post-filtration) | 26 (pre-filtration) ND (mid/post-filtration) |
| | 05/10/06 | ND (pre/mid/post-filtration) | 53 (pre-filtration) ND (post-filtration) |
| | 06/06/06 | ND (pre/mid/post-filtration) | 66 (pre-filtration) 0.7 (mid-filtration) ND (post-filtration) |
| | 07/18/06 | ND (pre/mid/post-filtration) | 87 (pre-filtration) 1 (mid-filtration) ND (post-filtration) |

Off-site Drinking Water Sampling Results from the Former High's No. 129 cont.

| Sample Location Transient Non-Community Supply Wells cont. | Sample Date | Petroleum Constituents of Concern | |
|---|----------------|-----------------------------------|---|
| | | Benzene (MCL - 5 ppb) | MTBE(20 ppb – action level) |
| 1919 Pulaski Highway (Former High's Store No. 129) MDE Case No. 1994-2649CE 150 ft. deep ✓ GAC installed (06/2004) | 08/21/06 | ND (pre/mid/post-filtration) | 60 (pre-filtration) ND (mid/post-filtration) |
| | 09/14/06 | ND (pre/mid/post-filtration) | 66 (pre-filtration) 0.7 (mid-filtration) ND (post-filtration) |
| | 10/03/06 | ND (pre/mid/post-filtration) | 74 (pre-filtration) 1.1 (mid-filtration) ND (post-filtration) |
| | 11/27/06 | ND (pre/mid/post-filtration) | 18 (pre-filtration) ND (mid/post-filtration) |
| | 12/04/06 | ND (pre/mid/post-filtration) | 33 (pre-filtration) ND (mid/post-filtration) |
| | 01/03/07 | ND (pre/mid/post-filtration) | 65 (pre-filtration) ND (mid/post-filtration) |
| | 02/20/07 | ND (pre/mid/post-filtration) | 38 (pre-filtration) ND (mid/post-filtration) |
| | 03/23/07 | ND (pre/mid/post-filtration) | 38 (pre-filtration) ND (mid/post-filtration) |
| | 04/13/07 | ND (pre/mid/post-filtration) | 54.1 (pre-filtration) ND (mid/post-filtration) |
| | 05/31/07 | ND (pre/mid/post-filtration) | 37 (pre-filtration) ND (mid/post-filtration) |
| | 06/13/07 | ND (pre/mid/post-filtration) | 180 (pre-filtration) ND (mid/post-filtration) |
| | 07/25/07 | ND (pre/mid/post-filtration) | 65 (pre-filtration) ND (mid/post-filtration) |
| | 08/28/07 | ND (pre/mid/post-filtration) | 57.6 (pre-filtration) ND (mid/post-filtration) |
| | 09/19/07 | ND (pre/mid/post-filtration) | 107 (pre-filtration) ND (mid/post-filtration) |
| | 10/11/07 | ND (pre/mid/post-filtration) | 83 (pre-filtration) ND (mid/post-filtration) |
| | 11/16/07 | ND (pre/mid/post-filtration) | 81 (pre-filtration) ND (mid/post-filtration) |
| | 12/20/07 | ND (pre/mid/post-filtration) | 132 (pre-filtration) ND (mid/post-filtration) |
| | 12/20/07 (MDE) | ND (pre/mid/post-filtration) | 116 (pre-filtration) ND (mid/post-filtration) |
| | 01/08/08 | ND (pre/mid/post-filtration) | 150 (pre-filtration) ND (mid/post-filtration) |
| | 02/08/08 | ND (pre/mid/post-filtration) | 170 (pre-filtration) ND (mid/post-filtration) |

Off-site Drinking Water Sampling Results in the vicinity of the Former High's No. 129 cont.

| Sample Location Transient Non-Community Supply Wells cont. | Sample Date | Petroleum Constituents of Concern | |
|---|------------------|--|---|
| | | Benzene (MCL - 5 ppb) | MTBE (20 ppb – action level) |
| 1921 Pulaski Highway (Circle Motel) 162 ft. deep ✓ GAC installed (06/04) | 02/27/04 | ND | 148 |
| | 04/05/04 | ND | 131.9 (estimated value) |
| | 06/08/04 | ND (pre/post-filtration) | 46.7 (pre-filtration) 2.3 (post-filtration) |
| | 07/21/04 | ND (pre-filtration) 2.3 (post-filtration) | 142 (pre-filtration) 143 (post-filtration) |
| | 08/06/04 | ND (pre/post-filtration) | 182 (pre-filtration) 17.4 (post-filtration) |
| | 09/07/04 | ND (pre/post-filtration) | 188 (pre-filtration) 149 (post-filtration) |
| | 10/11/04 | ND (pre/post-filtration) | 215 (pre-filtration) 137 (post-filtration) |
| | 11/23/04 | ND (pre/post-filtration) | 202 (pre-filtration) 24 (post-filtration) |
| | 12/21/04 | ND (pre/post-filtration) | 224 (pre-filtration) 50.5 (post-filtration) |
| | 01/05/05 | ND (pre/mid/post-filtration) | 6.2 (pre-filtration) ND (mid-filtration) 37.3 (post-filtration) |
| | 02/04/05 | ND (pre/mid/post-filtration) | 210 (pre-filtration, estimated value) ND (mid/post-filtration) |
| | 03/21/05 | ND (pre/mid/post-filtration) | 170 (pre-filtration) ND (mid/post-filtration) |
| | 3/21/05 (MDE) | ND (pre/mid/post-filtration) | 168 (pre-filtration) ND (mid/post-filtration) |
| | 04/07/05 | ND (pre/mid/post-filtration) | 210 (pre-filtration) ND (mid/post-filtration) |
| | 05/11/05 | ND (pre/mid/post-filtration) | 219 (pre-filtration) ND (mid/post-filtration) |
| | 06/01/05 | ND (pre/mid/post-filtration) | 200 (pre-filtration) ND (mid/post-filtration) |
| | 07/07/05 | ND (pre/mid/post-filtration) | 230 (pre-filtration) ND (mid/post-filtration) |
| | 08/02/05 | ND (pre/mid/post-filtration) | 236 (pre-filtration) ND (mid/post-filtration) |
| | 10/06/05 | ND (pre/mid/post-filtration) | 194 (pre-filtration) ND (mid-filtration) 0.7 (post-filtration) |
| | 11/23/05 | ND (pre/mid/post-filtration) | 157 (pre-filtration) ND (mid/post-filtration) |
| | 12/12/05 | ND (pre/mid/post-filtration) | 190 (pre-filtration) ND (mid/post-filtration) |
| | 01/06/06 | ND (pre/mid/post-filtration) | 188 (pre-filtration) ND (mid/post-filtration) |
| | 02/02/06 | ND (pre/mid/post-filtration) | 160 (pre-filtration) ND (mid/post-filtration) |
| | 03/07/06 | ND (pre/mid/post-filtration) | 150 (pre-filtration) ND (mid/post-filtration) |
| | 04/06/06 | ND (pre/mid/post-filtration) | 120 (pre-filtration) 0.6 (mid-filtration) ND (post-filtration) |
| | 05/10/06 | ND (pre/mid/post-filtration) | 144 (pre-filtration) ND (post-filtration) |
| | 06/06/06 | ND (pre/mid/post-filtration) | 160 (pre-filtration) 17 (mid-filtration) ND (post-filtration) |
| | 07/18/06 | ND (pre/mid/post-filtration) | 170 (pre-filtration) 52 (mid-filtration) ND (post-filtration) |
| | 08/21/06 | ND (pre/mid/post-filtration) | 139 (pre-filtration) 70 (mid-filtration) ND (post-filtration) |
| | 09/14/06 | ND (pre/mid/post-filtration) | 134 (pre-filtration) 13 (mid-filtration) ND (post-filtration) |

Off-site Drinking Water Sampling Results in the vicinity of the Former High's No. 129 cont.

| Sample Location Supply Wells cont. | Sample Date | Petroleum Constituents of Concern | |
|---|------------------------------|--|--|
| | | Benzene (MCL - 5 ppb) | MTBE (20 ppb – action level) |
| 1921 Pulaski Highway (Circle Motel) 162 ft. deep | 10/03/06 | ND (pre/mid/post-filtration) | 150 (pre-filtration) ND (mid/post-filtration) |
| | 11/27/06 | ND (pre/mid/post-filtration) | 99 (pre-filtration) 0.6 (mid-filtration) ND (post-filtration) |
| | 12/04/06 | ND (pre/mid/post-filtration) | 82 (pre-filtration) ND (mid/post-filtration) |
| | 01/03/07 | ND (pre/mid/post-filtration) | 171 (pre-filtration) 1 (mid-filtration) ND (post-filtration) |
| | 02/20/07 | ND (pre/mid/post-filtration) | 110 (pre-filtration) 11 (mid-filtration) 1.5 (post-filtration) |
| | 03/23/07 | ND (pre/mid/post-filtration) | ND (pre/mid/post-filtration) |
| | 04/13/07 | ND (pre/mid/post-filtration) | 158 (pre-filtration) ND (mid/post-filtration) |
| | 05/31/07 | ND (pre/mid/post-filtration) | 60 (pre-filtration) ND (mid/post-filtration) |
| | 06/13/07 | ND (pre/mid/post-filtration) | 170 (pre-filtration) ND (mid/post-filtration) |
| | 07/25/07 | ND (pre/mid/post-filtration) | 100.6 (pre-filtration) ND (mid/post-filtration) |
| | 08/28/07 | ND (pre/mid/post-filtration) | 110 (pre-filtration) ND (mid/post-filtration) |
| | 09/19/07 | ND (pre/mid/post-filtration) | 207 (pre-filtration) 5.7 (mid-filtration) ND (post-filtration) |
| | 10/11/07 | ND (pre/mid/post-filtration) | 175 (pre-filtration) 9.8 (mid-filtration) ND (post-filtration) |
| | 11/16/07 | ND (pre/mid/post-filtration) | 143 (pre-filtration) 24 (mid-filtration) ND (post-filtration) |
| | 12/20/07 | ND (pre/mid/post-filtration) | 138 (pre-filtration) ND (mid/post-filtration) |
| | 12/20/07 (MDE) | ND (pre/mid/post-filtration) | 144 (pre-filtration) ND (mid/post-filtration) |
| | 01/08/08 | ND (pre/mid/post-filtration) | 270 (pre-filtration) ND (mid/post-filtration) |
| 02/08/08 | ND (pre/mid/post-filtration) | 170 (pre-filtration) ND (mid/post-filtration) | |
| 24 Chatham Rd | 08/06/04 | ND | ND |
| 1903 Pulaski Highway (A.C. Auto Sales) | 02/27/04 | ND | ND |
| 1957 Pulaski Highway | 08/06/04 | ND | ND |
| 1941 Pulaski Highway | 08/06/04 | ND | ND |
| 1920 Pulaski Highway | 08/06/04 | ND | 1.8 |
| 1872 Pulaski Highway | 08/06/04 | ND | 0.6 |
| Cecil Woods Mobile Homes | 08/06/04 | ND | ND |