

# MARYLAND DEPARTMENT OF THE ENVIRONMENT

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Land Management Administration • Oil Control Program

**Environmental Investigation  
Hahn Transportation, Inc.  
90 West Main Street  
New Market, Frederick County, Maryland  
MDE Case No. 1997-0257 FR**

The Maryland Department of the Environment (MDE), Oil Control Program (OCP), continues to oversee cleanup actions related to the subsurface impact of petroleum hydrocarbons from the tank field located at the Hahn Transport facility in Frederick County. On August 12, 1996, MDE opened a case in response to a report of a diesel fuel release from a leaking pump. Approximately 3 inches of liquid phase hydrocarbon (LPH or free product) were observed in a tank field monitoring pipe.

The facility has been an active bulk trucking terminal since 1933 and houses corporate offices, a maintenance building, and fuel dispensers. In 1996, two (2) diesel underground storage tanks (USTs) failed a precision test. The diesel fuel lines were replaced on September 24, 1996 and the UST systems subsequently passed. The dispenser area and tank field are located on the eastern boundary of the Hahn property. The current UST systems are comprised of a 10,000-gallon gasoline and two (2) 15,000-gallon diesel USTs. These USTs are single-walled, cathodically protected steel tanks with double-walled flexible plastic piping.

Regional groundwater flow is primarily through fractures and joints in the bedrock. Shallow groundwater flows generally is to the south towards Interstate 70. Depth to groundwater fluctuates between 13 and 27 feet. The facility is served by two (2) production wells.

On August 29, 1996, MDE issued *Notice of Violation (NV-97-026)* to Hahn Transportation, Inc. based on the presence of LPH in tank field monitoring wells and the failed line tests. The Notice of Violation required the installation of monitoring wells and a hydrogeological investigation. Subsequently, MDE required the installation of a groundwater remediation system. A vapor extraction recovery system (SVE) to remove petroleum constituents was installed in 1999 and continued to operate until 2004. The SVE system was again put into operation in February 2007 and continues to operate to date. This SVE continues venting from wells MW-3, TF-1, and TF-2 using a regenerative blower and successfully removing a total of 180.45 gallons of hydrocarbons. Currently, five (5) monitoring wells exist on-site. Remedial activities formerly included manual recovery of LPH from the two-tank field monitoring pipes. The site is currently under a quarterly monitoring schedule.

Residences and businesses in New Market are served by private wells. Due to petroleum impacts to the private well at 88 West Main Street, Hahn Transportation currently supplies drinking water via a stainless steel storage tank. Granular activated carbon (GAC) treatment systems are currently in place at five off-site private wells on West Main Street properties. MDE has directed Hahn Transportation to conduct periodic sampling of twenty-three off-site drinking water wells and to maintain the GAC systems on the five off-site impacted properties.

■ Twenty three (23) off-site properties sampled to date:

- 14 properties Non-detect

*(Two of these properties servicing the Middle and Elementary schools were connected to public water)*

- 3 property MTBE below 5 ppb
- 6 properties MTBE greater than 20 ppb (GAC systems maintained by Hahn on the first five properties)
  - 69 W. Main Street MTBE 405 to 2.8 ppb (*recent sample 09/27/06 – MTBE at 26.6 ppb*)
  - 71 West Main Street MTBE 338 to 61 ppb (*recent sample 09/26/06 – MTBE at 161 ppb*)
  - 73 West Main Street MTBE 555 to 31 ppb (*recent sample 09/27/06 – MTBE at 78.3 ppb*)
  - 82 West Main Street MTBE 137 to 59.6 ppb (*recent sample 09/26/06 – MTBE at 59.6 ppb*)
  - 84 West Main Street MTBE 118 to 0.44 ppb (*recent sample 09/26/06 – MTBE at 0.44 ppb*)

- 88 West Main Street MTBE 3220 to 1 ppb (*recent sample 09/29/06 – MTBE at 29.1 ppb*)  
Supplied with water by a tanker.

### Chronology:

- 1996: Initial report of a release. MDE site inspections.
  - August 7, 1996: Initial report of leaking diesel pump at Hahn Transport.
  - August 12, 1996: MDE site visit identified approximately 3 inches of diesel fuel (i.e. LPH) in a tankfield monitoring well. The Department required immediate testing of all USTs.
    - Surface spill already cleaned.
    - Leak identified as a seal in the dispenser (replaced).
  - August 14, 1996: MDE site visit to observe precision testing.
    - Identified dripping dispensers & LPH in tankfield monitoring wells.
    - Required sampling of supply wells at Hahn and nearby private residence.
  - August 19, 1996: MDE site visit to observe results of precision testing.
    - Two diesel lines failed.
    - Gasoline UST passed.
  - August 26, 1996: MDE site visit to observe line excavation.
    - LPH seeping into pipeline trenches.
  - August 29, 1996: MDE site visit to observe line excavation.
    - Some LPH-stained soils removed for disposal.
    - Required additional tank tests.
  - August 29, 1996: MDE issued *Notice of Violation (NV-97-026)* to Hahn Transportation based on the presence of LPH in tank field monitoring pipes and the failed line tests. The following was required:
    - Install five (5) monitoring wells.
    - Conduct a hydrogeological study to define plume.
    - Submit monthly reports on remedial progress.
    - Plan for long-term remediation
  - September 9, 1996: MDE site visit to select monitoring well locations.
    - LPH observed seeping into pipeline trenches.
  - September 10, 1996: MDE advised neighboring resident of MTBE contamination in supply well.
    - FCHD notified.
    - Residents not to drink water.
    - Hahn to provide filtration.
  - September 20, 1996: MDE site visit to observe monitoring well installations.
  - September 23, 1996: MDE received testing results for individual USTs.
    - All three USTs tested tight.
  - September 25, 1996: MDE site visit. UST system upgrade completed (diesel lines replaced).
  - December 26, 1996: MDE received *Hydrogeologic Investigation Report - December 6, 1996*.
    - Groundwater samples collected from supply wells at Hahn and neighboring private residence.
    - Installation and sampling of five (5) monitoring wells.
    - Recommended collection of product sample & continued sampling of wells.
    - Discontinue use of contaminated supply wells.
    - Sample monitor and drinking water wells.
- 1997: *Quarterly Ground-Water Quality Reports*.
  - February 12, 1997: MDE letter to Hahn Transportation, Inc.:
    - Treat water from adjacent supply well until alternate water source is provided.
    - Submit CAP for long-term remediation
    - Bail monitoring pipes daily.
  - March 21, 1997: MDE site visit: saturated sorbents changed every other day.
  - March 24, 1997: MDE received update letter from Hahn Transportation.
    - GAC filters in place at 88 West Main St. (neighboring residence).
    - LPH manually removed from TF-2 with sorbents.
    - Supply wells will be sampled monthly for MTBE.
  - March 31, 1997: MDE site visit: 1/8inches LPH in TF-1. All monitoring wells to be sampled.
  - May 17, 1997: MDE received *Long-Term Corrective Action Plan* from Hahn Transportation.

- GAC filters will be maintained at 88 West Main St.
- LPH will be manually removed from TF-1 and TF-2 with sorbents.
- Supply and monitoring wells will be sampled quarterly using EPA method 8020.
- July 17, 1997: MDE received *Quarterly Groundwater Quality Report-July 11, 1997*.
  - GAC filter at 88 West Main Street was replaced on June 3, 1997.
  - Sampling of monitoring and supply wells on June 25, 1997.
- August 27, 1997: MDE meeting on-site with Hahn Transportation.
  - Add third GAC filter to system in place at 88 West Main St.
  - No LPH present (sorbent removed from TF-2 for evaluation).
- 1998: *Quarterly Ground-Water Quality Reports* submitted to MDE-OCP for review.
  - January 6, 1998: MDE letter to Frederick County Health Department requested condemnation of potable well at 88 W. Main.
  - January 7, 1998: MDE issued *Addendum to Notice of Violation NV-97-026*.
    - Provide potable water supply to 88 West Main St.
    - Install recovery system and implement recovery procedures.
    - Submit plan for long-term remediation.
  - January 12, 1998 to December 23, 1998: MDE site visits for sampling and to check remedial system.
    - LPH again visible in tank field pipe.
  - March 16, 1998: MDE received *Site Remediation Work Plan-March 14, 1998* from Hahn Transportation.
    - Provide potable water supply to 88 West Main St.
    - Install petroleum recovery system (mobile trailer with liquid ring vacuum pump for total fluids recovery).
    - Long-term remediation plan to be submitted after evaluation of temporary trailer system.
  - March 23, 1998: MDE approved *Site Remediation Work Plan*.
  - June 10, 1998: MDE letter to resident at 84 West Main advising of MTBE contamination.
  - June 23, 1998: MDE letter to Hahn Transportation required sampling of potable well at 84 West Main.
  - July 24, 1998: MDE issued *Amended Notice of Violation NV-97-026*.
    - Sample potable water supply wells monthly.
    - Install SVE system to supplement existing pump and treat recovery system
    - Sample monitoring wells quarterly and submit reports.
  - September 23, 1998: MDE letter to resident at 88 West Main advising of intent to install a water tank.
  - September 23, 1998: MDE letter to Hahn Transportation concerning well impacts.
  - October 15, 1998: MDE site visit to collect potable water samples.
  - November 12, 1998: MDE letter to resident at 84 West Main advising of MTBE contamination.
  - November 12, 1998: MDE letters to residents on West Main St. advising that contamination was not detected.
  - November 17, 1998: MDE letter to Hahn Transportation required potable water at 84 W. Main St.
  - December 11, 1998: MDE letter to Hahn Transportation approved removal of temporary dual-phase extraction system to be replaced by a Vacuum Extraction System.
  - December 23, 1998: MDE site visit observed sampling and verified installation of potable water tank.
- 1999: *Quarterly Ground-Water Quality Reports*: Installation of groundwater remediation system
  - March 1, 1999: MDE approved Vacuum Extraction System.
  - March 19, 1999 to December 3, 1999: MDE site visits to check remedial system status.
    - Petroleum remediation system has been started.
  - April 30, 1999: MDE site status letter to mayor of New Market requested an expedited approval of a remediation shed for Hahn Transportation.
  - May 5, 1999: MDE letter to Hahn Transportation required sampling potable water along West Main St.
    - Provide sample results and plot a map.
  - May 19, 1999: Operation of SVE system initiated.
  - June 15, 1999: MDE letter to Hahn Transportation required potable water at 71 West Main St.
  - June 30, 1999: MDE letter to Hahn Transportation required potable water at 69 and 84 West Main St.
    - Quarterly sampling of potable wells located at 65, 69, 71, 75, 81, 84, 88, and 90 West Main Street.
  - December 3, 1999: Operation of SVE system removed 67 gallons of hydrocarbons to date.
- 2000: *Quarterly Monitoring and System Status Reports*.
  - April 19, 2000: Hahn Transportation installed GAC for potable water at 73 West Main St.

- June 29, 2000: MDE site status letter to Henry Meyer named Hahn Transportation as responsible party.
  - August 11, 2000: MDE letter to Hahn Transportation approved reduction of sampling to quarterly.
  - December 8, 2000: Operation of SVE system removed 99 gallons of hydrocarbons to date.
- 2001: *Quarterly Monitoring and System Status Reports.*
    - MDE site inspections: SVE system operational venting MW-3, TF-1 and TF-2.
    - Shallow groundwater flow depicted as southwest.
    - No LPH detected in any monitoring well.
    - Quarterly sampling of GAC systems at 69, 71, 73, and 84 West Main Street.
    - Quarterly sampling of 5 monitoring wells & 2 Hahn supply wells.
    - Quarterly sampling of supply wells at 65, 75, 81, and 88 West Main St.
  - February 14, 2001: MDE letter to Hahn Transportation required testing for TBA in all samples.
  - December 27, 2001: Operation of SVE system removed 116 gallons of hydrocarbons to date.
- 2002: *Quarterly Monitoring and System Status Reports.*
    - MDE site inspections: SVE system continues operational, venting MW-3, TF-1 and TF-2.
    - Shallow groundwater flow depicted as southwest.
    - No LPH in monitoring wells.
    - Quarterly sampling of GAC systems at 69, 71, 73, and 84 West Main Street.
    - Quarterly sampling of 5 monitoring wells & 2 Hahn supply wells.
    - Quarterly sampling of supply wells at 65, 75, 81, and 88 West Main St.
  - December 26, 2002: Operation of SVE system removed 135 gallons of hydrocarbons to date.
- 2003: *Quarterly Monitoring and System Status Reports.*
    - SVE system continues to operate, venting MW-3, TF-1 and TF-2.
    - Shallow groundwater flow veered to slightly west of due south.
    - No LPH in monitoring wells.
    - Quarterly sampling of GAC systems at 69, 71, 73, and 84 West Main Street.
    - Quarterly sampling of 5 monitoring wells & 2 Hahn supply wells.
    - Quarterly sampling of supply wells at 65, 75, 81, and 88 West Main St.
  - December 19, 2003: Operation of SVE system removed 153 gallons of hydrocarbons to date.
- 2004: *Quarterly Monitoring and System Status Reports.*
    - SVE system operational venting MW-3, TF-1 and TF-2.
    - No LPH detected in any monitoring well.
    - Quarterly sampling of 5 monitoring wells & 2 Hahn supply wells.
    - Quarterly sampling of GAC systems at 69, 71, 73, and 84 West Main Street.
    - Quarterly sampling of other supply wells at 65, 75, 81, and 88 West Main St.
    - Groundwater flow almost due south.
  - June 30, 2004: SVE system shut down due to diminishing recovery, having removed a total of 180 gallons of hydrocarbons to date.
- 2005: *Quarterly Monitoring and System Status Reports.*
    - SVE system not operating.
    - No LPH in monitoring wells.
    - Inferred groundwater flow veered further towards the southeast.
    - Quarterly sampling of 5 monitoring wells & 2 Hahn supply wells.
    - Quarterly sampling of GAC systems at 69, 71, 73, and 84 West Main Street.
    - Quarterly sampling of other supply wells at 65, 75, 81, and 88 West Main St.
    - Quarterly sampling of supply wells at 65, 69, 71, 73, 75, 81, 84, and 88 West Main St.
    - No private unregulated gasoline UST's found in nearby area by reconnaissance.
- May 16, 2006: MDE received *First Quarter 2006 Status Report - April 2006.*
    - Quarterly sampling of 5 monitoring wells & 2 Hahn supply wells.
    - Quarterly sampling of supply wells at 65, 69, 71, 73, 75, 81, 84, and 88 West Main St.

- August 1, 2006: MDE letter to Hahn Transportation required testing of UST systems.
  - Quarterly sampling of 5 monitoring wells, 2 tank field pipes, & 2 Hahn supply wells.
  - Quarterly sampling of supply wells at 65, 69, 71, 75, 81, 84, and 88 West Main St.
  - Sampling of 78, 80, 82, and 94 West Main Street.
  
- August 18, 2006: MDE received *Quarterly Status Report, April-June 2006 - August 17, 2006*.
  - Quarterly sampling of 5 monitoring wells and the two supply wells on the subject property.
  - Quarterly sampling of supply wells at 65, 69, 71, 73, 75, 81, 84, and 88 West Main St.
  - Sampling of new GAC filter system added to 82 West Main Street.
  
- August 23, 2006: MDE received *Tank Test Summary Report - June 23, 2006*.
  - Pressure test passed gasoline tank on 06/23/06.
  
- September 26, 2006: MDE received *Spill Bucket Secondary Containment Testing Results*.
  - Containment sumps failed on 09/05/06.
  - Helium test pending because of failure.
  - Copy of daily inventory and three months reconciliation.
  
- October 3, 2006: MDE received *Cathodic Protection Compliance Survey - September 25, 2006*.
  - All Uses passed cathodic protection test on 09/06/06.
  
- October 27, 2006: MDE received *Secondary Containment Summary Results*.
  - All UST systems passed containment test on 10/06/06.
  - Helium test still pending completion of upgrade.
  
- February 5, 2007. MDE directive letter to Hahn Transportation requiring the following:
  - Conduct a helium test on the UST systems.
  - Submit a *Supplemental Work Plan* for further site characterization and geophysical investigation to assess the horizontal and vertical extent of the groundwater contamination plume.
  - Develop a *Site Conceptual Model* of current site conditions.
  - Reactivate the SVE to reduce vapors in the tank field area by connecting tank field monitoring pipes (TF-1 and TF-2), and monitoring wells MW-2, 3, and 4.
  - Continue to conduct quarterly sampling of 5 on-site monitoring wells, 2 tank field pipes, and 2 Hahn supply wells.
  - Continue to conduct quarterly sampling of 9 off-site private supply wells.
    - 65 West Main Street; 69 West Main Street; 71 West Main Street; 73 West Main Street
    - 75 West Main Street; 81 West Main Street; 82 West Main Street; 84 West Main Street
    - 88 West Main Street
  - Conduct semi-annual sampling of 5 off-site supply wells.
    - Fire Company (address unknown)
    - 68 West Main Street; 78 West Main Street; 80 West Main Street; 94 West Main Street
  - Conduct annual sampling of 6 off-site supply wells.
    - 98 West Main Street; 105 West Main Street; 108 West Main Street; 113 West Main Street
    - 122 West Main Street
    - Smith Alley
  
- February 15, 2007. MDE-OCP received the results of the required Helium testing of the 10,000-gallon gasoline tank and associated product lines. *Pass 01/07/07*.
  
- February 21, 2007: MDE-OCP received *Quarterly Status Report, October –December 2006-February 2007*.
  - Gasoline UST system was tested for Vapor leaks- *Pass with minor repairs to the Stage I dry break*.
  - Quarterly sampling of 5 monitoring wells, 2 tank field pipes, & 2 Hahn supply wells.
  - Quarterly sampling of supply wells at 65, 69, 71, 73, 75, 81, and 88 West Main St.
  - GAC systems at 69, 71, 73, 82, and 84 West Main Street.

- February 22, 2007. MDE-OCP received the *Supplemental Work Plan-February 22, 2007*. The work plan proposed the following:
  - Modification of the groundwater sampling program to include the required parameters of full suite VOC analysis;
  - Reactivation of the SVE system;
  - Identification of all wells within a half-mile of the site; and
  - Review sampling data for the next two quarters following system reactivation to determine if additional geophysical studies are required.
- March 9, 2007. MDE-OCP received notification that the soil vapor extraction system (SVE) was reactivated 02/28/07.
- March 15, 2007. MDE-OCP received the required half-mile radius well search. A total of 115 wells were located within the half-mile radius.
- March 27, 2007. MDE-OCP received notification, via email, that a high vacuum extraction event was conducted on the tank field observation wells to remove residual dissolved petroleum concentrations.
- March 29, 2007. MDE-OCP received notification that the three former production wells that serviced the New Market Middle and Elementary Schools have been abandoned. Both schools are now serviced by public water.
- May 9, 2007. MDE-OCP issues Notice of Violation NV-2007-079 citing violations of (COMAR) 26.10.02.01A, 26.10.02.01C, and 26.10.09.06A and approving *Supplemental Work Plan February 2007*.
  - (COMAR) 26.10.02.01A, 26.10.02.01C, and 26.10.09.06A
    - These regulations provide that oil may not be discharged into, or in an area likely to pollute waters of the State and that the responsibility for the prompt control, containment, and removal of any released regulated substance shall be with the person responsible for the discharge, the owner/operator of the storage system, and the person in charge of the facility.
  - *Supplemental Work Plan-February 2007* is approved as a means of interim corrective action.
    - *First Quarter 2007 Groundwater Monitoring* results due no later than May 22, 2007.
    - *Complete a Site Conceptual Model (SCM)* to redefine the plume.
    - Tank field monitoring pipes TF-1 and TF-2 and monitoring wells MW-2 and MW-4 must be connected to the SVE system.
    - Re-evaluate the existing monitoring well network; Redevelop the all-monitoring wells.
    - Provide a detailed *work plan*; include a fracture trace analysis for completion of the SCM, using the data to define placement of off-site monitoring wells.
    - Install three (3) additional monitoring wells locations outlined.
    - Provide a detailed schedule of the work necessary to implement the approved *Work Plan* by July 30, 2007.
- May 11, 2007. MDE-OCP receives *New Market Water Line Project Letter-May 8, 2007*.
  - Discusses the possibility of providing public water to the residences of New Market.
- May 22, 2007. MDE-OCP received *1<sup>st</sup> Quarter 2007 Quarterly Status Report May 21, 2007. (See Table)*
- July 19, 2007. MDE-OCP received an e-mail request from Hahn's consultant requesting a 30-day extension for submitting an amended Supplemental Work Plan. The request is granted the same day.
- August 1, 2007. MDE-OCP received *2<sup>nd</sup> Quarter 2007 Quarterly Status Report July 27, 2007. (See Table)*
- November 1, 2007. MDE-OCP on-site with URS representative to collect samples from the drinking water well and GAC treatment system at the private residence (84 West Main Street)
- February 19, 2008. MDE-OCP received *Fourth Quarterly Status Report February 15, 2008*.
- May 23, 2008. MDE-OCP received *First Quarter Status Report –May 2008. (See Table)*
- August 14, 2008. MDE-OCP directive letter.
  - Denies the use of ORC
  - Requires that TF-1, TF-2 and MW-4 be connected to the SVE system.

- November 13, 2008. MDE-OCP received *3<sup>rd</sup> Quarter 2008 Quarterly Status Report-Novembers 12, 2008. (See Table)*
- December 2008. MDE-OCP received *Facility Information-June 27, 2008.*
  - Dispenser sump testing results.
    - Gasoline sump-passed.
    - Diesel sump-passed.
    - Diesel sump-passed.
  - Spill containment sumps.
    - Gasoline containment sump-passed.
    - Diesel containment sump-passed.
    - Diesel containment sump-passed.
    - Waste oil containment sump-passed.

**Future Updates:**

- Future updates on this case investigation will be posted at [www.mde.state.md.us](http://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
- Frederick County Health Department (FCHD): 301-600-1715

**Other Related Cases**

- MDE Case No. 1989-1131 FR and 1991-2083 FR are closed cases for the subject property.

**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.

Legend

ND	= Not Detected above the laboratory quantitation limit.
-	= No data Available: Not Applicable, Not Sampled, Not Reported, or Not Analyzed
J	= Indicates an estimated value
All results are in micrograms per liter (ug/L) or parts per billion (ppb)	

### Monitoring Wells at Hahn Transportation, Inc.

Well Information	Sample Dates	Depth to groundwater	LP H	Benzene (MCL -5 ppb)	MTBE (Action Level - 20 ppb)	Naphthalene	TBA (unregulated compound)	TPH-GRO	TPH-DRO
MW-1 45 ft, 4" diameter  Installed 9/20/1996	10/23/96	16.78 ft	---	ND	46	-	-	-	-
	03/31/97	16.90 ft	---	38	39	6.3	-	-	-
	06/25/97	22.21ft	---	10	35	ND	-	ND	ND
	09/17/97	22.21ft	---	8	28	ND	-	ND	ND
	12/17/97	23.09 ft	---	31	29	ND	-	-	-
	03/31/98	15.89 ft	---	33	22	ND	-	-	-
	05/14/98	15.98ft	---	21	26	ND	-	-	-
	09/2/98	21.14ft	---	13	25	ND	-	-	-
	12/23/98	25.24 ft	---	ND	28	ND	-	-	-
	03/29/99	20.77 ft	---	ND	45	ND	-	-	-
	06/07/99	20.66 ft	---	ND	27	ND	-	-	-
	09/08/99	22.33 ft	---	4.7	44	ND	-	-	-
	12/03/99	19.68 ft	---	3.9	56	ND	-	-	-
	03/17/00	18.12 ft	---	ND	42	-	-	-	-
	06/30/00	17.78 ft	---	ND	29	-	-	-	-
	09/22/00	19.45 ft	---	ND	49	-	-	-	-
	12/08/00	21.95 ft	---	ND	97	-	-	-	-
	03/20/01	21.84 ft	---	ND	70	-	ND	-	-
	06/22/01	17.88 ft	---	ND	96	-	ND	-	-
	09/27/01	20.96 ft	---	ND	89	-	ND	-	-
	12/14/01	23.21 ft	---	ND	113	-	ND	-	-
	03/21/02	21.49 ft	---	ND	115	-	ND	-	-
	06/06/02	19.47 ft	---	ND	123	-	ND	-	-
	09/16/02	22.33 ft	---	ND	160	-	ND	-	-
	12/12/02	18.35 ft	---	ND	149	-	ND	-	-
	03/18/03	14.75 ft	---	ND	111	-	ND	-	-
	06/13/03	14.01 ft	---	ND	121	-	ND	-	-
	09/26/03	15.82 ft	---	ND	124	-	ND	-	-
	12/19/03	16.12 ft	---	ND	105	-	ND	-	-
	03/19/04	16.16 ft	---	ND	52	-	ND	-	-
	06/11/04	15.11 ft	---	ND	52	-	ND	-	-
	09/10/04	18.16 ft	---	ND	2.8 J	-	ND	-	-
	12/14/04	17.31 ft	---	ND	131	-	ND	-	-
	03/31/05	15.41 ft	---	ND	133	-	ND	-	-
06/09/05	16.12 ft	---	ND	62	-	ND	-	-	
09/07/05	19.25 ft	---	ND	22	-	ND	-	-	
12/01/05	17.93 ft	---	ND	8.2	-	ND	-	-	
03/21/06	17.25 ft	---	ND	153	-	ND	-	-	
06/30/06	19.34 ft	---	ND	156	-	22.6	-	-	
09/27/06	18.66 ft	---	ND	150	-	11.1	224	1,720	
12/19/06	17.11 ft	---	ND	207	---	ND	226	959	
03/28/07	14.90 ft	---	ND	170.0	-	13	ND	ND	
06/19/07	17.63ft	---	ND	210	-	ND	ND	1.2	
09/27/07	20.77ft	---	ND	160	-	ND	ND	ND	
12/19/07	21.24ft	---	ND	200	-	ND	600	ND	
04/8/08	17.68ft	---	ND	180	-	ND	210	ND	
09/18/08	19.34ft	---	ND						

## Monitoring Wells at Hahn Transportation, Inc.

Well Information	Sample Dates	Depth to groundwater	LPH	Benzene (MCL -5 ppb)	MTBE (Action Level - 20 ppb)	Naphthalene	TBA (unregulated compound)	TPH-GRO	TPH-DRO
MW-2  45 ft, 4" diameter  Installed 9/20/1996	10/23/96	19.01 ft	---	ND	3,640	-	-	-	-
	03/31/97	18.88 ft	---	15	4,200	ND	-	-	-
	06/25/97	24.31ft	---	ND	1,550	ND	-	ND	ND
	09/17/97	27.62 ft	---	ND	1,640	ND	-	ND	ND
	12/17/97	26.11 ft	---	ND	2,680	ND	-	-	-
	03/31/98	18.56 ft	---	ND	2,150	ND	-	-	-
	05/14/98	18.78 ft	---	ND	2,500	ND	-	-	-
	09/02/98	23.90 ft	---	ND	1,880	ND	-	-	-
	12/23/98	30.33 ft	---	ND	2,600	ND	-	-	-
	03/29/99	17.97 ft	---	ND	2,670	ND	-	-	-
	06/07/99	23.28 ft	---	ND	2,700	ND	-	-	-
	09/08/99	25.54 ft	---	ND	2,330	ND	-	-	-
	12/03/99	22.93 ft	---	ND	2,260	ND	-	-	-
	03/17/00	20.38 ft	---	ND	2,870	-	-	-	-
	06/30/00	20.34 ft	---	ND	3,010	-	-	-	-
	09/22/00	22.10 ft	---	ND	3,170	-	-	-	-
	12/08/00	24.30 ft	---	ND	3,960	-	-	-	-
	03/20/01	24.28 ft	---	ND	3,460	-	2,200	-	-
	06/22/01	20.38 ft	---	ND	4,380	-	2,080	-	-
	09/27/01	23.54 ft	---	ND	2,900	-	1,160	-	-
	12/14/01	25.62 ft	---	ND	4,160	-	2,140	-	-
	03/21/02	24.06 ft	---	ND	4,780	-	ND	-	-
	06/06/02	22.02 ft	---	ND	4,520	-	1,540	-	-
	09/26/02	25.09 ft	---	ND	4,480	-	1,780	-	-
	12/12/02	21.25 ft	---	ND	4,500	-	2,150	-	-
	03/18/03	16.86 ft	---	ND	730	-	ND	-	-
	06/13/03	15.72 ft	---	ND	ND	-	ND	-	-
	09/26/03	18.03 ft	---	ND	163	-	ND	-	-
	12/19/03	18.11 ft	---	ND	22	-	ND	-	-
	03/19/04	18.58 ft	---	ND	3,400	-	1,650	-	-
	06/11/04	18.59 ft	---	ND	4,160	-	ND	-	-
	09/10/04	20.82 ft	---	ND	193	-	ND	-	-
	12/14/04	19.29 ft	---	ND	3,320	-	1,980	-	-
	03/31/05	17.00 ft	---	ND	840	-	403	-	-
	06/09/05	18.90 ft	---	ND	1,980	-	ND	-	-
09/07/05	21.89 ft	---	ND	2,880	-	1,480	-	-	
12/01/05	20.76 ft	---	ND	3,600	-	1,000	-	-	
03/21/06	19.75 ft	---	ND	3,460	-	1,930	-	-	
07/01/06	21.96 ft	---	ND	4,220	-	1,760	-	-	
09/27/06	21.64 ft	---	ND	3,890	-	2,190	4780	1,020	
12/21/06	20.25 ft	---	ND	4940	-	1700	3950	437	
03/29/07	83.38 ft	---	ND	120	-	35	ND	ND	
06/20/07	20.97 ft	---	ND	2,900	-	950	0.240	ND	
9/27/07	24.18ft	---	ND	4,100	-	1600	460	ND	
12/19/07	19.01ft	---	ND	2,500	-	530	230	ND	
01/23/08		---	ND	2,500	-	17	ND	ND	
4/9/08	19.94ft	---	ND	2,800	-	380	ND	3100	
09/18/08	21.57ft	---	ND	2200	-	800	690	ND	

## Monitoring Wells at Hahn Transportation, Inc. (cont.)

Well Information	Sample Dates	Depth to groundwater	LPH	Benzene (MCL -5 ppb)	MTBE (Action Level - 20 ppb)	Naphthalene	TBA (unregulated compound)	TPH-GRO	TPH-DRO
MW-3 45 ft, 4" diameter  Installed 9/20/1996	10/23/96	19.48 ft	---	ND	18,400	-	-	-	-
	03/31/97	22.39 ft	---	ND	15,400	ND	-	-	-
	06/25/97	29.68 ft	---	ND	16,100	ND	-	400	-
	09/17/97	31.60 ft	---	ND	13,400	ND	-	500	-
	12/17/97	24.54 ft	---	ND	5,850	ND	-	-	-
	03/31/98	18.65 ft	---	ND	3,150	ND	-	-	-
	05/14/98	22.65 ft	---	ND	4,390	ND	-	-	-
	09/02/98	27.34 ft	---	ND	5,340	ND	-	-	-
	12/23/98	27.85 ft	---	ND	7,480	ND	-	-	-
	03/29/99	19.16 ft	---	ND	4,800	ND	-	-	-
	06/07/99	20.75 ft	---	ND	4,980	ND	-	-	-
	09/08/99	18.85 ft	---	ND	3,790	ND	-	-	-
	12/03/99	20.00 ft	---	ND	9.7	ND	-	-	-
	03/17/00	17.85 ft	---	ND	59	-	-	-	-
	06/30/00	18.04 ft	---	ND	1,700	-	-	-	-
	09/22/00	19.86 ft	---	ND	14	-	-	-	-
	12/08/00	21.37 ft	---	ND	193	-	-	-	-
	03/20/01	21.18 ft	---	ND	67	-	ND	-	-
	06/22/01	18.46 ft	---	ND	1,270	-	508	-	-
	09/27/01	21.48 ft	---	ND	14	-	ND	-	-
	12/14/01	23.21 ft	---	ND	780	-	328	-	-
	03/21/02	21.34 ft	---	ND	45	-	ND	-	-
	06/06/02	21.19 ft	---	ND	60	-	ND	-	-
	09/26/02	25.64 ft	---	ND	620	-	345	-	-
	12/16/02	21.44 ft	---	ND	6.5	-	ND	-	-
	03/18/03	15.08 ft	---	ND	107	-	ND	-	-
	06/13/03	13.58 ft	---	ND	ND	-	ND	-	-
	09/26/03	15.60 ft	---	ND	8.4	-	ND	-	-
	12/19/03	15.89 ft	---	ND	5.5	-	ND	-	-
	03/19/04	18.38 ft	---	ND	148	-	158	-	-
	06/11/04	15.33 ft	---	ND	137	-	270	-	-
	09/10/04	21.49 ft	---	ND	212	-	256	-	-
	12/14/04	19.57 ft	---	ND	93	-	127	-	-
	03/31/05	15.14 ft	---	ND	73	-	ND	-	-
06/09/05	19.00 ft	---	ND	28	-	ND	-	-	
09/07/05	22.53 ft	---	ND	ND	-	ND	-	-	
12/01/05	19.55 ft	---	ND	ND	-	ND	-	-	
03/21/06	21.77 ft	---	ND	313	-	365	-	-	
06/30/06	22.05 ft	---	ND	898	-	730	-	-	
09/27/06	20.94 ft	---	ND	629	-	534	814	1,620	
12/20/06	24.26 ft	---	ND	535	-	408	576	506	
03/38/07	20.7 ft	---	ND	1,000.0	-	760	ND	ND	
06/19/07	22.26 ft	---	ND	64	-	ND	ND	ND	
9/27/07	23.79ft	---	ND	520	-	470	ND	ND	
12/19/07	21.75ft	---	ND	600	-	600	ND	ND	
04/09/08	22.81ft	---	ND	380	-	220	390	ND	
09/18/08	24.62ft	---	ND	190	-	170	ND	ND	

### Monitoring Wells at Hahn Transportation, Inc. (cont.)

Well Information	Sample Dates	Depth to groundwater	LPH	Benzene (MCL- 5 ppb)	MTBE (Action Level - 20 ppb)	Naphthalene	TBA (Unregulated compound)	TPH-GRO	TPH-DRO
MW-4 45 ft, 4" diameter  Installed 9/20/1996	10/23/96	19.95 ft	---	ND	2,500	-	-	-	-
	03/31/97	20.38 ft	---	ND	282	ND	-	-	-
	06/25/97	28.69 ft	---	ND	1,430	ND	-	ND	ND
	09/17/97	31.39 ft	---	ND	1,680	ND	-	ND	ND
	12/17/97	25.10 ft	---	ND	4,140	ND	-	-	-
	03/31/98	17.73 ft	---	ND	359	ND	-	-	-
	05/14/98	23.92 ft	---	ND	137	ND	-	-	-
	09/02/98	28.07 ft	---	ND	63	ND	-	-	-
	12/23/98	29.16 ft	---	ND	412	ND	-	-	-
	03/29/99	18.74 ft	---	ND	34	ND	-	-	-
	06/07/99	23.24 ft	---	ND	38	ND	-	-	-
	09/08/99	21.58 ft	---	ND	43	ND	-	-	-
	12/03/99	21.22 ft	---	ND	15	ND	-	-	-
	03/17/00	17.52 ft	---	ND	5.1	-	-	-	-
	06/30/00	17.91 ft	---	ND	7.6	-	-	-	-
	09/22/00	19.60 ft	---	ND	13	-	-	-	-
	12/08/00	22.29 ft	---	ND	23	-	-	-	-
	03/20/01	22.14 ft	---	ND	8.8	-	ND	-	-
	06/22/01	18.18 ft	---	ND	4.7 J	-	ND	-	-
	09/27/01	20.93 ft	---	ND	18	-	ND	-	-
	12/14/01	22.50 ft	---	ND	17	-	ND	-	-
	03/21/02	21.50 ft	---	ND	6.1	-	ND	-	-
	06/06/02	20.89 ft	---	ND	4 J	-	ND	-	-
	09/26/02	25.93 ft	---	ND	2.8 J	-	44	-	-
	12/12/02	18.29 ft	---	ND	10	-	ND	-	-
	03/18/03	14.88 ft	---	ND	3.2 J	-	ND	-	-
	06/13/03	13.40 ft	---	ND	2.1 J	-	ND	-	-
	09/26/03	15.55 ft	---	ND	2.2 J	-	ND	-	-
	12/19/03	15.77 ft	---	ND	2.1 J	-	ND	-	-
	03/19/04	18.31 ft	---	ND	3.0 J	-	ND	-	-
	06/11/04	16.78 ft	---	ND	ND	-	ND	-	-
	09/10/04	22.01 ft	---	ND	515	-	212	-	-
	12/14/04	17.69 ft	---	ND	ND	-	ND	-	-
	03/31/05	15.02 ft	---	ND	ND	-	ND	-	-
06/09/05	19.03 ft	---	ND	ND	-	ND	-	-	
09/07/05	22.69 ft	---	ND	ND	-	ND	-	-	
12/01/05	19.67 ft	---	ND	2.6	-	ND	-	-	
03/21/06	23.47 ft	---	ND	176	-	42.9	-	-	
06/30/06	23.25 ft	---	ND	207	-	38.2	-	-	
09/27/06	20.91 ft	---	ND	94.4	-	13.7	ND	236	
12/19/06	21.25 ft	---	ND	136	-	ND	ND	163	
03/28/07	16.50 ft	---	ND	140.0	-	33	ND	ND	
06/19/07	22.36ft	---	ND	64	-	ND	ND	ND	
09/27/07	23.41ft	---	ND	84	-	ND	ND	1.4	
12/19/07	20.73ft	---	ND	42	-	ND	ND	ND	
04/09/08	20.3ft	---	ND	100	-	11	ND	ND	
09/18/08	21.81ft	---	ND	240	-	140	ND	ND	

## Monitoring Wells at Hahn Transportation, Inc. (cont.)

Well Information	Sample Dates	Depth to groundwater	LPH	Benzene (MCL- 5 ppb)	MTBE (Action Level - 20 ppb)	Naphthalene	TBA (Unregulated compound)	TPH-GRO	TPH-DRO
MW-5 45 ft, 4" diameter  Installed 9/20/1996	10/23/96	14.48 ft	---	ND	876	-	-	-	-
	3/31/97	20.73 ft	----	ND	708	ND	-	-	-
	6/25/97	30.30 ft	----	ND	39	ND	-	ND	ND
	9/17/97	29.63 ft	----	ND	40	ND	-	ND	ND
	12/17/97	19.50 ft	---	ND	426	ND	-	-	-
	03/31/98	10.67 ft	---	ND	2,330	ND	-	-	-
	05/14/98	10.61 ft	---	ND	2,610	ND	-	-	-
	09/02/98	21.29 ft	---	ND	914	ND	-	-14	-
	12/23/98	24.44 ft	---	ND	70	ND	-	-	-
	03/29/99	18.60 ft	---	ND	795	ND	-	-	-
	06/07/99	19.32 ft	---	ND	498	ND	-	-	-
	09/08/99	18.40 ft	---	ND	1,220	-	-	-	-
	12/03/99	20.91 ft	---	ND	188	-	-	-	-
	03/17/00	17.32 ft	---	ND	15	-	-	-	-
	06/30/00	15.54 ft	---	ND	28	-	-	-	-
	09/22/00	17.75 ft	---	ND	9.9	-	-	-	-
	12/08/00	21.57 ft	---	ND	58	-	-	-	-
	03/20/01	21.46 ft	---	ND	23	-	ND	-	-
	06/22/01	17.11 ft	---	ND	6.1	-	ND	-	-
	09/27/01	20.15 ft	---	ND	402	-	ND	-	-
	12/14/01	23.37 ft	---	ND	89	-	ND	-	-
	03/21/02	16.22 ft	---	ND	1,350	-	ND	-	-
	06/06/02	14.00 ft	---	ND	695	-	ND	-	-
	09/26/02	19.62 ft	---	ND	483	-	360	-	-
	12/12/02	13.08 ft	---	ND	110	-	57	-	-
	03/18/03	9.52 ft	---	ND	136	-	43	-	-
	06/13/03	8.57 ft	---	ND	144	-	26	-	-
	09/26/03	9.78 ft	---	ND	83	-	35	-	-
	12/19/03	9.95 ft	---	ND	38	-	ND	-	-
	03/19/04	15.45 ft	---	ND	74	-	38	-	-
	06/11/04	13.09 ft	---	ND	3,080	-	ND	-	-
	09/10/04	15.02 ft	---	ND	3,730	-	1,390	-	-
	12/14/04	17.60 ft	---	ND	355	-	117	-	-
03/31/05	9.14 ft	---	ND	176	-	95	-	-	
06/09/05	11.26 ft	---	ND	114	-	167	-	-	
09/07/05	16.21 ft	---	ND	3 J	-	ND	-	-	
12/01/05	12.32 ft	---	ND	9.5	-	ND	-	-	
03/21/06	13.75 ft	---	ND	16.1	-	ND	-	-	
06/30/06	12.73 ft	---	ND	53.8	-	117	-	-	
09/25/06	14.75 ft	---	ND	30.2	-	118	ND	752	
12/19/06	14.57 ft	---	ND	31	-	31.7	ND	257	
03/28/07	10.00 ft	---	ND	20.0	-	ND	ND	ND	
06/19/07	15.74 ft	---	ND	29	-	58	ND	ND	
09/27/07	18.83ft	---	ND	74	-	29	ND	ND	
12/19/07	16.20ft	---	ND	49	-	54	ND	ND	
04/08/08	12.27ft	---	ND	14	-	ND	ND	ND	
9/18/08	11.90	---	ND	4	-	ND	ND	ND	
<b>Tank Field Monitoring Pipes</b>									
TF-1 13.5 ft, 4" diameter	08/12/96	10.72 ft	LPH	-	-	-	-	-	-
	09/17/97	10.60 ft	---	-	-	-	-	-	-
	12/17/97	10.81 ft	---	-	-	-	-	-	-
	09/02/97	12.52 ft	---	-	-	-	-	-	-
	09/26/06	9.54 ft	---	ND	8.1	-	17.1	ND	2,610
	12/20/06	9.66 ft	---	0.43	0.8	-	ND	ND	694
	03/28/07	8.10 ft	---	ND	ND	-	ND	ND	1,820.000
	06/19/07	9.37 ft	---	ND	ND	-	ND	ND	ND
	09/27/07	9.83ft	---	ND	ND	-	ND	ND	700
	12/19/07	9.54ft	---	ND	ND	-	ND	ND	1,600
	04/10/08	8.76ft	---	ND	ND	-	ND	ND	ND
09/18/08	8.49ft	---	ND	ND	-	ND	ND	950	
TF-2 13.5 ft, 4" diameter	08/12/96	10.70 ft	LPH	-	-	-	-	-	-
	09/17/97	10.59 ft	-	-	-	-	-	-	-
	12/17/97	10.81 ft	-	-	-	-	-	-	-
	09/02/97	12.54 ft	-	-	-	-	-	-	-
	09/26/06	9.38 ft	-	0.35	1.3	-	ND	ND	1,820
	12/20/06	17.11ft	-	0.4	14	-	ND	ND	1,210.00
03/28/07	9.30 ft	-	ND	ND	-	ND	ND	2,50.00	

	06/20/07	9.51ft	-	ND	ND	-	ND	ND	ND
	09/27/07	9.80ft	-	ND	ND	-	ND	ND	76
	12/19/07	8.80ft	-	ND	ND	-	ND	ND	770
	04/10/08	8.48ft	-	ND	ND	-	ND	ND	100,000
	09/18/08	8.51ft	-	ND	ND	-	ND	ND	7300

## Supply Well Sampling Results at Hahn Transport

Sample location	Sample dates	Petroleum constituents of Concern			
		MTBE (20 ppb – action level)	Benzene (MCL-5 ppb)	TBA	Other petroleum constituents
H-1  (Approx. 200' deep)	08/27/96	ND	ND	-	ND
	03/31/97	ND	ND	-	ND
	06/25/97	ND	ND	-	ND
	09/17/97	ND	ND	-	ND
	12/17/97	ND	ND	-	ND
	03/31/98	ND	ND	-	ND
	05/14/98	ND	ND	-	ND
	09/02/98	ND	ND	-	ND
	12/23/98	ND	ND	-	ND
	03/29/99	ND	ND	-	ND
	06/07/99	ND	ND	-	ND
	09/08/99	ND	ND	-	Toluene: 3.9
	12/03/99	ND	ND	-	ND
	03/17/00	ND	ND	-	ND
	06/30/00	ND	ND	-	ND
	09/22/00	ND	ND	-	ND
	12/08/00	ND	ND	-	ND
	03/20/01	ND	ND	ND	ND
	06/22/01	ND	ND	ND	ND
	09/27/01	ND	ND	ND	ND
	12/14/01	ND	ND	ND	ND
	03/21/02	ND	ND	ND	ND
	06/06/02	ND	ND	ND	ND
	09/26/02	ND	ND	ND	ND
	12/12/02	ND	ND	ND	ND
	03/18/03	ND	ND	ND	ND
	06/13/03	ND	ND	ND	ND
	09/26/03	ND	ND	ND	ND
	12/19/03	ND	ND	ND	ND
	03/19/04	ND	ND	ND	ND
	06/11/04	ND	ND	ND	ND
	09/10/04	ND	ND	ND	ND
	12/14/04	ND	ND	ND	ND
	03/31/05	ND	ND	ND	ND
	06/09/05	ND	ND	ND	ND
	09/07/05	ND	ND	ND	ND
	12/01/05	ND	1.1	ND	Toluene: 3
	03/20/06	ND	ND	ND	ND
	06/30/06	ND	ND	ND	ND
	09/26/06	0.21	ND	ND	ND
12/19/06	ND	ND	ND	ND	
03/28/07	ND	ND	ND	ND	
06/19/07	ND	ND	ND	ND	
09/27/07	ND	ND	ND	ND	
12/20/07	ND	ND	ND	ND	
04/08/08	ND	ND	ND	ND	
09/18/08	ND	ND	ND	ND	

## Supply Well Sampling Results at Hahn Transport

Sample location	Sample dates	Petroleum constituents of Concern			
		MTBE (20 ppb – action level)	Benzene (MCL-5 ppb)	TBA	Other petroleum constituents
H-2  (Approx. 200' deep)	08/27/96	330	ND	-	ND
	09/11/96	330	ND	-	ND
	03/31/97	171	ND	-	ND
	06/25/97	101	ND	-	ND
	09/17/97	144	ND	-	ND
	12/17/97	373	ND	-	Toluene: 5
	03/31/98	205	ND	-	ND
	05/14/98	180	ND	-	ND
	09/02/98	115	ND	-	ND
	12/23/98	156	ND	-	ND
	03/29/99	144	ND	-	ND
	06/07/99	184	ND	-	ND
	09/08/99	179	ND	-	Toluene: 7.8, Xylene: 4.1
	12/03/99	103	ND	-	ND
	03/17/00	133	ND	-	ND
	06/30/00	93	ND	-	ND
	09/22/00	102	ND	-	Toluene: 12, Xylene: 12
	12/08/00	136	ND	-	ND
	03/20/01	132	ND	30	ND
	06/22/01	147	ND	46	ND
	09/27/01	112	ND	ND	ND
	12/14/01	117	ND	ND	ND
	03/21/02	142	ND	36	ND
	06/06/02	160	ND	ND	ND
	09/26/02	138	ND	ND	ND
	12/12/02	61	ND	ND	ND
	03/18/03	113	ND	ND	ND
	06/13/03	83	ND	ND	ND
	09/26/03	64	ND	ND	ND
	12/19/03	113	ND	ND	ND
	03/19/04	135	ND	ND	ND
	06/11/04	101	ND	ND	ND
	09/10/04	163	ND	34	ND
	12/14/04	158	ND	23	ND
	03/31/05	39	ND	ND	ND
	06/09/05	37	ND	ND	ND
	09/07/05	91	ND	ND	ND
	12/01/05	130	ND	ND	ND
	03/20/06	49.2	ND	ND	ND
	06/30/06	61.4	ND	ND	ND
09/26/06	205	ND	21.9	ND	
12/19/06	132	ND	14.4	ND	
3/28/07	61.0	ND	9	ND	
06/19/07	80	ND	21	TAME-2.6	
09/27/07	120	ND	ND	ND	
12/20/07	110	ND	19	ND	
04/10/08	44	ND	ND	ND	
09/18/08	38	ND	ND	ND	

## Drinking Water Sampling Results near the Hahn Transportation Facility in New Market

Sample location	Sample dates	Petroleum constituents of Concern			
		MTBE (20 ppb – action level)	TBA	Benzene (MCL-5 ppb)	Other petroleum constituents
61-63 W. Main	05/21/99	ND	-	ND	ND
65 W. Main	06/25/99	ND	-	ND	ND
	09/22/00	ND	-	ND	ND
	03/22/01	ND	ND	ND	ND
	06/22/01	ND	ND	ND	ND
	09/27/01	ND	ND	ND	ND
	12/14/01	ND	ND	ND	ND
	03/21/02	ND	ND	ND	ND
	06/06/02	ND	ND	ND	ND
	09/26/02	ND	ND	ND	ND
	12/12/02	ND	ND	ND	ND
	03/18/03	ND	ND	ND	ND
	06/13/03	ND	ND	ND	ND
	09/26/03	ND	ND	ND	ND
	12/19/03	ND	ND	ND	ND
	03/19/04	ND	ND	ND	ND
	06/11/04	ND	ND	ND	ND
	09/10/04	ND	ND	ND	ND
	12/14/04	ND	ND	ND	ND
	03/31/05	2.7 J	ND	ND	ND
	06/09/05	ND	ND	ND	ND
	09/07/05	ND	ND	ND	ND
	12/01/05	ND	ND	ND	ND
	03/20/06	1	ND	ND	ND
06/30/06	ND	ND	ND	ND	
09/26/06	ND	ND	ND	ND	
12/19/06	ND	ND	ND	ND	
06/23/07	ND	ND	ND	ND	
12/18/07	ND	ND	ND	ND	
04/08/08	ND	ND	ND	ND	
09/18/08	ND	ND	ND	ND	
68 W. Main	05/11/99	ND	ND	ND	ND
	12/18/07	3.8	ND	ND	ND
	04/08/08	ND	ND	ND	ND
	09/23/08	ND	ND	ND	ND

## Drinking Water Sampling Results near the Hahn Transportation Facility in New Market

Sample location	Sample dates	Petroleum constituents of Concern			
		MTBE (20 ppb – action level)	TBA	Benzene (MCL-5 ppb)	Other petroleum constituents
69 W. Main  (GAC installed- 1999)	06/14/99	145	-	ND	ND
	07/01/99	14	-	ND	ND
	08/19/99	184	-	ND	ND
	09/09/99	309	-	ND	Toluene: 4.9
	10/27/99	334	-	ND	ND
	11/17/99	316	-	ND	ND
	12/03/99	196	-	ND	ND
	01/28/00	405	-	ND	ND
	02/25/00	200	-	ND	ND
	03/31/00	41	-	ND	ND
	04/18/00	380	-	ND	ND
	05/25/00	346	-	ND	ND
	06/30/00	228	-	ND	ND
	07/27/00	331	-	ND	ND
	09/22/00	141	-	ND	ND
	12/08/00	272	-	ND	ND
	03/20/01	200	ND	ND	ND
	06/22/01	125	ND	ND	ND
	09/27/01	23	ND	ND	ND
	12/14/01	150	46	ND	ND
	03/21/02	128	44	ND	ND
	06/06/02	6.4	ND	ND	ND
	09/26/02	151	ND	ND	ND
	12/12/02	350	57	ND	ND
	03/18/03	25	ND	ND	ND
	06/13/03	68	ND	ND	ND
	09/26/03	4.6 J	ND	ND	ND
	12/19/03	ND	ND	ND	ND
	03/19/04	9.2	ND	ND	ND
	06/11/04	2.8 J	ND	ND	ND
	09/10/04	124	ND	ND	ND
	12/14/04	46	ND	ND	ND
	03/31/05	2.9 J	ND	ND	ND
	06/09/05	12	ND	ND	ND
	09/07/05	37	ND	ND	ND
	12/01/05	42	ND	ND	ND
	03/20/06	3.2	ND	ND	ND
	09/27/06	26.6	ND	ND	DIPE: 0.23, TAME: 0.14
	12/19/06	35.5	ND	ND	ND
	07/5/07	13	ND	ND	ND
09/27/07	100	ND	ND	ND	
12/18/07	ND	ND	ND	ND	
04/08/08	21	ND	ND	ND	
09/18/08	2.5	ND	ND	ND	

## Drinking Water Sampling Results near the Hahn Transportation Facility in New Market

Village Tea Room 71 W. Main  (GAC installed-1999)	Sample dates	Petroleum constituents of Concern			
		MTBE (20 ppb – action level)	TBA	Benzene (MCL-5 ppb)	Other petroleum constituents
	04/12/99	259	-	ND	ND
	05/11/99	229	-	ND	ND
	08/19/99	259	259	259	259
	10/12/99	229	229	229	229
	11/17/99	318	318	318	318
	12/03/99	209	209	209	209
	03/31/00	201	201	201	201
	07/26/00	188	188	188	188
	09/22/00	210	210	210	210
	12/08/00	140	140	140	140
	03/20/01	156	156	156	156
	06/22/01	146	146	146	146
	09/27/01	93	93	93	93
	12/14/01	220	220	220	220
	03/21/02	208	208	208	208
	06/06/02	131	131	131	131
	09/26/02	183	183	183	183
	12/12/02	338	338	338	338
	03/18/03	61	61	61	61
	06/13/03	149	149	149	149
	09/26/03	187	187	187	187
	12/19/03	230	230	230	230
	03/19/04	296	296	296	296
	06/11/04	312	312	312	312
	09/10/04	187	187	187	187
	12/14/04	133	133	133	133
	03/31/05	102	102	102	102
	06/09/05	168	168	168	168
	09/07/05	189	189	189	189
	12/01/05	172	172	172	172
	03/20/06	137	137	137	137
	06/30/06	270	270	270	270
	09/26/06	205	205	205	205
	12/19/06	154	ND	ND	ND
	06/23/07	190	ND	ND	ND
	12/18/07	120	11	ND	ND
	04/09/08	97	ND	ND	ND
	09/18/08	120	ND	ND	ND
	12/19/06	154	ND	ND	ND
	06/23/07	190	ND	ND	ND
	12/18/07	120	11	ND	ND
	04/09/08	97	ND	ND	ND
	09/18/08	120	ND	ND	ND

## Drinking Water Sampling Results near the Hahn Transportation Facility in New Market

73 W. Main (GAC installed- 2000)	03/17/00	555	-	ND	ND
	04/26/00	434	-	ND	ND
	05/25/00	398	-	ND	ND
	06/30/00	151	-	ND	ND
	07/28/00	200	-	ND	ND
	09/22/00	461	-	ND	ND
	12/08/00	355	-	ND	ND
	03/20/01	116	ND	ND	ND
	06/22/01	192	ND	ND	ND
	09/27/01	387	53 J	ND	Toluene: 6.8 J, Xylene 8.5 J
	12/14/01	332	51	ND	ND
	03/21/02	174	ND	ND	ND
	06/06/02	124	ND	ND	ND
	09/26/02	147	ND	ND	ND
	12/12/02	31	ND	ND	ND
	03/18/03	51	ND	ND	ND
	06/13/03	59	ND	ND	ND
	09/26/03	49	ND	ND	ND
	12/19/03	34	ND	ND	ND
	03/19/04	13	ND	ND	ND
	06/11/04	40	ND	ND	ND
	09/10/04	64	ND	ND	ND
	12/14/04	59	ND	ND	ND
	03/31/05	93	ND	ND	ND
	06/09/05	75	ND	ND	ND
	09/07/05	61	ND	ND	ND
	12/01/05	49	ND	ND	ND
	03/20/06	62.3	ND	ND	ND
	06/30/06	36	ND	ND	ND
	09/27/06	78.3	ND	ND	ND
	12/20/06	23.9	ND	ND	ND
	06/23/07	25	ND	ND	ND
	12/19/07	28	ND	ND	ND
04/09/08	17	ND	ND	ND	
09/18/08	9.6	ND	ND	ND	

## Drinking Water Sampling Results near the Hahn Transportation Facility in New Market

Sample location	Sample dates	Petroleum constituents of Concern			
		MTBE (20 ppb – action level)	TBA	Benzene (MCL-5 ppb)	Other petroleum constituents
75 W. Main	05/11/99	ND	-	ND	ND
	09/24/99	6.9	-	ND	ND
	10/27/99	ND	-	ND	ND
	12/03/99	4.8	-	ND	ND
	03/17/00	ND	-	ND	ND
	06/30/00	ND	-	ND	ND
	09/22/00	ND	-	ND	ND
	12/08/00	ND	-	ND	ND
	03/20/01	ND	ND	ND	ND
	06/22/01	ND	ND	ND	ND
	09/27/01	ND	ND	ND	ND
	12/14/01	ND	ND	ND	ND
	03/21/02	ND	ND	ND	ND
	06/06/02	ND	ND	ND	ND
	09/26/02	ND	ND	ND	ND
	12/16/02	ND	ND	ND	ND
	03/18/03	ND	ND	ND	ND
	06/13/03	ND	ND	ND	ND
	09/26/03	ND	ND	ND	ND
	12/19/03	ND	ND	ND	ND
	03/19/04	ND	ND	ND	ND
	06/11/04	ND	ND	ND	ND
	09/10/04	ND	ND	ND	ND
	12/14/04	ND	ND	ND	ND
	03/31/05	ND	ND	ND	ND
	06/09/05	2.7 J	ND	ND	ND
	09/07/05	ND	ND	ND	ND
	12/01/05	ND	ND	ND	ND
03/20/06	0.9	ND	ND	ND	
06/30/06	0.7	ND	ND	ND	
09/26/06	0.57	ND	ND	ND	
12/19/06	ND	ND	ND	ND	
06/23/07	0.8	ND	ND	ND	
12/19/07	ND	ND	ND	ND	
09/18/08	ND	ND	ND	ND	
78 W. Main	05/11/99	ND	-	ND	ND
	09/26/06	0.18	ND	ND	ND
	07/5/07	ND	ND	ND	ND
	12/19/07	0.6	ND	ND	ND
80 W. Main	09/26/06	ND	ND	ND	ND
	12/19/06	ND	ND	ND	ND
	06/23/07	ND	ND	ND	ND
	09/27/07	1.1	ND	ND	ND
	NS				

## Drinking Water Sampling Results near the Hahn Transportation Facility in New Market

Sample location	Sample dates	Petroleum constituents of Concern			
		MTBE (20 ppb – action level)	TBA	Benzene (MCL-5 ppb)	Other petroleum constituents
81 W. Main	05/11/99	ND	-	ND	ND
	09/09/99	ND	-	ND	Toluene: 4.9
	11/05/99	ND	-	ND	ND
	12/03/99	ND	-	ND	ND
	03/17/00	ND	-	ND	ND
	06/30/00	ND	-	ND	ND
	09/22/00	ND	-	ND	ND
	12/08/00	ND	-	ND	ND
	03/20/01	ND	ND	ND	ND
	06/22/01	ND	ND	ND	ND
	09/27/01	ND	ND	ND	ND
	12/14/01	ND	ND	ND	ND
	03/21/02	ND	ND	ND	ND
	06/06/02	ND	ND	ND	ND
	09/26/02	ND	ND	ND	ND
	12/12/02	ND	ND	ND	ND
	03/18/03	ND	ND	ND	ND
	06/13/03	ND	ND	ND	ND
	09/26/03	ND	ND	ND	ND
	12/19/03	ND	ND	ND	ND
	03/19/04	ND	ND	ND	ND
	06/11/04	ND	ND	ND	ND
	09/10/04	ND	ND	ND	ND
	12/14/04	ND	ND	ND	ND
	03/31/05	ND	ND	ND	ND
	06/09/05	ND	ND	ND	ND
	09/07/05	ND	ND	ND	ND
	12/01/05	ND	ND	ND	ND
	03/20/06	ND	ND	ND	ND
	07/01/06	ND	ND	ND	ND
09/26/06	ND	ND	ND	ND	
12/19/06	ND	ND	ND	ND	
07/5/07	ND	ND	ND	ND	
12/19/07	ND	ND	ND	ND	
04/08/08	ND	ND	ND	ND	
09/18/08	ND	ND	ND	ND	

## Drinking Water Sampling Results near the Hahn Transportation Facility in New Market

Sample location	Sample dates	Petroleum constituents of Concern			
		MTBE (20 ppb – action level)	TBA	Benzene (MCL-5 ppb)	Other petroleum constituents
82 W. Main (GAC installed- 2006)	05/18/99	ND	-	ND	ND
	06/30/06	137	ND	ND	ND
	09/26/06	59.6	ND	ND	ND
	12/19/06	106	29.8	ND	ND
	03/28/07	ND	ND	ND	ND
	07/15/07	ND	ND	ND	ND
	09/27/07	79	ND	ND	ND
	12/19/07	180	ND	ND	ND
	04/09/08	27	ND	ND	ND
84 W. Main (GAC installed- 1999)	05/13/98	24.4	-	ND	ND
	06/16/98	18	-	ND	ND
	07/14/98	31	-	ND	ND
	09/02/98	55	-	ND	ND
	10/28/98	66	-	ND	ND
	11/24/98	118	-	ND	ND
	06/22/99	19	-	ND	ND
	07/16/99	28	-	ND	ND
	08/19/99	32	-	ND	ND
	09/24/99	24	-	ND	ND
	10/27/99	ND	-	ND	ND
	11/17/99	22	-	ND	ND
	12/03/99	13	-	ND	ND
	01/28/00	ND	-	ND	ND
	02/25/00	ND	-	ND	ND
	03/17/00	ND	-	ND	ND
	05/25/00	ND	-	ND	ND
	06/30/00	ND	-	ND	ND
	07/27/00	ND	-	ND	ND
	09/22/00	ND	-	ND	ND
	12/08/00	4.6	-	ND	ND
	03/22/01	ND	ND	ND	ND
	06/22/01	ND	ND	ND	ND
	09/27/01	ND	ND	ND	ND
	12/14/01	6.9	ND	ND	ND
	03/21/02	ND	ND	ND	ND
	06/06/02	3.5 J	ND	ND	ND
	09/26/02	12	ND	ND	ND
	12/12/02	7.3	ND	ND	ND
	03/18/03	ND	ND	ND	ND
	06/13/03	ND	ND	ND	ND
	09/26/03	ND	ND	ND	ND
	12/19/03	ND	ND	ND	ND
03/19/04	ND	ND	ND	ND	
06/11/04	ND	ND	ND	ND	
09/10/04	ND	ND	ND	ND	
12/14/04	ND	ND	ND	ND	
03/31/05	ND	ND	ND	ND	
06/09/05	ND	ND	ND	ND	
09/07/05	ND	ND	ND	ND	
12/01/05	ND	ND	ND	ND	
03/20/06	0.7	ND	ND	ND	
09/26/06	0.44	ND	ND	ND	
03/28/07	NS	NS	NS	NS	
09/27/07	0.44	ND	ND	ND	
12/19/07	0.6	ND	ND	ND	
	09/18/08	1.7	ND	ND	ND

# Drinking Water Sampling Results near the Hahn Transportation Facility in New Market

Sample location	Sample dates	Petroleum constituents of Concern			
		MTBE (20 ppb – action level)	TBA	Benzene (MCL-5 ppb)	Other petroleum constituents
88 W. Main (Kipe residence)  (storage tank not supplied by well)	08/27/96	825	-	ND	ND
	09/11/96	1,120	-	ND	ND
	03/31/97	1,680	-	ND	ND
	06/03/97	ND	-	ND	ND
	06/25/97	3,220	-	ND	ND
	09/03/97	2,040	-	ND	ND
	09/17/97	3,210	-	ND	ND
	10/20/97	2,890	-	ND	ND
	10/31/97	2,370	-	ND	ND
	12/17/97	2,340	-	ND	ND
	01/29/98	2,950	-	ND	ND
	02/17/98	1,170	-	ND	ND
	03/31/98	574	-	ND	ND
	04/30/98	387	-	ND	ND
	05/14/98	284	-	ND	Ethylbenzene: 3.6
	06/16/98	524	-	ND	ND
	07/14/98	610	-	ND	ND
	08/10/98	874	-	ND	ND
	09/02/98	641	-	ND	Ethylbenzene: 3.5, Xylene: 5.6
	10/28/98	898	-	ND	ND
	11/24/98	908	-	ND	ND
	09/24/99	517	-	ND	ND
	12/03/99	303	-	ND	ND
	03/17/00	562	-	ND	ND
	06/30/00	198	-	ND	ND
	09/22/00	228	-	ND	ND
	12/08/00	491	-	ND	ND
	03/20/01	334		ND	ND
	06/22/01	173		ND	ND
	09/27/01	24		ND	ND
	12/14/01	116		ND	ND
	03/21/02	320		ND	ND
	06/06/02	62		ND	ND
	09/26/02	42		ND	ND
	12/12/02	7		ND	ND
	03/18/03	ND		ND	ND
	06/13/03	ND		ND	ND
	09/26/03	12		ND	Xylene: 8.1 J
	12/19/03	36		ND	ND
	03/19/04	26		ND	ND
06/11/04	29		ND	ND	
09/10/04	27		ND	ND	
12/14/04	3.8 J		ND	ND	
03/31/05	ND		ND	Xylene: 3.8 J	
06/09/05	3.2 J		ND	ND	
09/07/05	ND		ND	ND	
12/01/05	5.4		ND	ND	
03/20/06	19.9		ND	ND	
07/01/06	1		ND	ND	
09/29/06	29.1		ND	ND	
12/19/06	22.6		ND	ND	
03/28/07	39.0		4.7	ND	
09/27/07	25		ND	ND	
12/19/07	35		ND	ND	
04/08/08	24		ND	ND	
09/18/08	3.2		ND	ND	

## Drinking Water Sampling Results on Main Street, New Market

Sample location	Sample dates	Petroleum constituents of Concern			
		MTBE (20 ppb – action level)	TBA	Benzene (MCL-5 ppb)	Other petroleum constituents
94 W. Main	05/11/99	ND	-	ND	ND
	09/26/06	ND	ND	ND	ND
	03/28/07	ND	ND	ND	ND
	06/19/07	ND	ND	ND	ND
	12/19/07	ND	ND	ND	ND
98 W. Main	05/11/99	ND	-	ND	ND
	04/08/08	ND	ND	ND	ND
105 W. Main	05/11/99	ND	-	ND	ND
108 W. Main	05/11/99	ND	-	ND	ND
122 W. Main	05/11/99	ND	-	ND	ND
Fire Co.	05/11/99	ND	-	ND	ND
	06/21/07	ND	ND	ND	ND
Wheel Horse at 113 W. Main	05/11/99	ND	-	ND	Toluene: 6.5
Elementary School at 109 W. Main (Facility has since hooked up to public water – pers. comm. MDE-Water Management)	05/11/99	ND	-	ND	ND
Middle School at 125 W. Main (facility has since hooked up to public water – pers. comm. MDE-Water Management)	05/11/99	ND	-	ND	ND
Mobile Homes (behind 113 W. Main)	05/11/99	ND	-	ND	ND
Smith Alley	05/11/99	ND	-	ND	ND
SVE Effluent	12/20/07	ND	ND	ND	ND