SOURCE WATER ASSESSMENT

FOR W.L. GORE AT CHERRY HILL **CECIL COUNTY, MD**

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Prepared By Water Management Administration Water Supply Program December 2005



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SUMMARY

The Maryland Department of the Environment's (MDE's) Water Supply Program (WSP) has conducted a Source Water Assessment for W.L. Gore & Associates, Inc.'s Cherry Hill Plant located near Elkton in Cecil County, Maryland. This report delineates the area that contributes water to the drinking water wells, identifies potential sources of contamination within the area and determines the susceptibility of the water supply to contamination. Recommendations for protecting the water supply conclude the report.

The source of the plant's potable water supply is a fractured-rock aquifer known as the Port Deposit Gneiss. The system uses three wells to obtain its drinking water supply. The Wellhead Protection Area was delineated using by the WSP using EPA-approved methods.

Point sources of contamination were identified within and near the assessment area from field inspections and MDE databases. The Maryland Department of Planning's 2002 land use map for Cecil County was used to identify non-point sources of contamination. Maps showing location of the wells, potential sources of contamination, and land use are included at the end of this report.

The susceptibility analysis is based on a review of existing water quality data for the water system, the presence of potential sources of contamination, in the assessment area, well integrity and the inherent vulnerability of the aquifer. It was determined that the Cherry Hill Plant's water supply is susceptible to nitrates and to volatile organic contaminants. It is not susceptible to synthetic organic compounds, other inorganic compounds, fecal coliform or protozoans like *cryptosporidia* and *giardia*. To reduce the risk of bacterial contamination, the water system should evaluate the integrity of the casings for both wells and abandon any unused wells on the property. Also, Well 1, which is located next to a road, has no protective structures around it. A structure to protect it from traffic is recommended.

INTRODUCTION

The Water Supply Program has conducted a Source Water Assessment for W.L. Gore & Associates, Inc.'s Cherry Hill Plant located in Cecil County, Maryland. The facility operates its own water treatment plant and uses three wells, which supply the water treatment plant.

As defined as part of Maryland's Source Water Assessment Plan (SWAP), "large systems" are community and non-community water systems that have water appropriation and use permits with average annual appropriation permit exceeding 10,000 gpd. The Cherry Hill Plant's water appropriation and use permit allows for an average annual water use of 55,500 gpd, however, most of the water is used for cooling water, process water and ground water remediation. The plant has about 200 employees and average annual water use for potable and sanitary uses is about 2,000 gpd.

HYDROGEOLOGY

The Cherry Hill Plant is located about four miles north of Elkton (Figure 1). This region is underlain by metamorphic rock. The 1986 Geologic Map of Cecil County designates the underlying rock Gneiss at Rolling Mill. Older literature labels it Port Deposit Gneiss. The rock is described as "Medium Gray, fine- to medium-grained, biotite-quartz-plagioclase gneiss, commonly with crystals of magnetite and tiny garnets. Contacts are very poorly exposed but apparently are gradational and/or interfingering with units of the James Run Formation." In such rocks, water is stored in fractures and in the overlying saprolite and soils. The ground water is generally unconfined and the water table mimics the surface topography. Well yields are dependent on the number and nature of fractures penetrated by the well. Yields range from 1 to 200 gpm, with median yield around 10 gpm.

WELL INFORMATION

Well information for the system was obtained from the Water Supply Program's database, site visits, well completion reports and sanitary survey inspection reports. The plant is served by three potable supply wells that are listed in Table 1. The Appendix consists of copies of the applications to drill the wells and the well completion reports for those wells. There are also six remediation wells on the property. The water from the remediation wells is treated and used for cooling and process water. Since their water is not used for drinking water source waters for those wells have not been included in this report.

TABLE 1. WELL INVENTORY

		TOTAL	CASING	YEAR	
WELL#	PERMIT #	DEPTH	DEPTH	DRILLED	COMMENTS
WELL 1	CE720386	400'	42'	1972	located along road
WELL 2	CE732923	400'	50'	1979	
WELL 3	CE811412	560'	60'	1985	

SOURCE WATER ASSESSMENT AREA DELINEATION

For ground water systems, a Wellhead Protection Area (WHPA) is considered to be the source water assessment for the system. As defined by Maryland's SWAP, the wellhead protection area for a public water system using less than 10,000 gallons per day whose wells are completed in fractured crystalline rock is a radius of 1,000 feet around the production wells. The water supply wells are located on a topographic high and ground water flow in the vicinity of the Cherry Hill Plant has been altered by the ground water remediation on the property. The WHPA around the water supply wells has been enlarged to a radius of 1,700 feet to account for the impact of their remediation and on-site usage. Figure 2 shows the 208-acre Wellhead Protection Area (WHPA) that was delineated, which is more than adequate to meet the daily average ground water recharge for this system.

POTENTIAL SOURCES OF CONTAMINATION

Potential sources of contamination can be classified as either point or non-point sources. Examples of point sources are underground storage tanks, ground and surface water discharges, landfills, animal feeding operations, and ground water contamination sites. These sites are usually associated with commercial or industrial facilities that use chemicals that may, if handled inappropriately, contaminate ground water via a discrete point location. Non-point sources are associated with land use practices, such as use of pesticides, fertilizer, animal wastes or septic systems, that lead to ground water contamination over a larger area.

Point sources of contamination were identified within and near the assessment area from field inspections and from MDE Water and Waste Management databases. Figure 2 is a topographic map showing potential sources of contamination within and near the WHPA. Three potential contamination sources were found. The closest source is a ground water clean up at the Cherry Hill Plant itself. Impacted ground water is contained on site by a series of recovery wells, treated to remove VOC's, and then returned to the subsurface through an infiltration gallery. There are also two underground storage tanks along Singerly Road.

The Maryland Department of Planning's 2002 land use map for Cecil County was used to identify non-point sources of contamination (Figure 3). Several land use categories were identified within the delineated WHPA (Table 2). The predominant land use within the WHPA is orchards.

TABLE 2. LAND USE SUMMARY FOR THE WELLHEAD PROTECTION AREA

Land Use Categories	Total Area (acres)	Percentage of WHPA
Orchard	65.6	31.5
Industrial	37.6	18.0
Forest	33.1	15.9
Cropland	31.2	15.0
Commercial	25.8	12.4
Low Density Residential	15.1	7.2

The Maryland Department of Planning's Cecil County 2004 Sewer Map (Figure 4) indicates that the Cherry Hill Plant is served by public sewer. The sewer system runs along Singerly Road and serves most of the neighboring water users (Table 3). Most of the WHPA area, which consists of cropland, orchard and forest, is designated no planned service area.

TABLE 3. SEWER SERVICE SUMMARY FOR THE WELLHEAD PROTECTION AREA

Sewage Service Area	Total Area (acres)	Percentage of WHPA
Existing Service Area	72	34
No Planned Service	136	65

WATER QUALITY DATA

Water quality data from the Water Supply Program's (WSP) database was reviewed for Safe Water Drinking Act (SWDA) contaminants. In accordance with Maryland's SWAP, data submitted by the owner/operator of the system was compared with the Maximum Contaminant Levels (MCLs). If monitoring data is greater than 50% of the MCL, the assessment will describe the typical sources of that contaminant and locate the possible sources of the contaminant for this site. At the Cherry Hill Plant, drinking water is treated with post hypochlorination, ultraviolet radiation, activated carbon granules and cartridge filtration.

Inorganic Compounds (IOCs)

Two inorganic compounds were detected in quantities greater than 50% of the MCL. Nitrate has been measured numerous times during the past eleven years. Before 1997, nitrate was present at levels of less than half the MCL of 10 ppm. It appears to be gradually increasing (Figure 4). The high nitrates may be attributed to fertilzer that is applied to the large orchard that is located immediately west of the wells. On-site fertilization of the facility's gardens, trees and grounds can also be a source of elevated nitrates. In 2003 to 2005, nitrate levels ranged from 6.1 ppm to 8.1 ppm.

Table 4. Inorganic Compounds Detected Above 50% of the MCL

CONTAMINANT NAME	MCL (ppm)	SAMPLE DATE	RESULT (ppm)	
NITRATE	10	7-Nov-97	5.8	
NITRATE	10	29-Jan-98	5.47	
NITRATE	10	15-Jun-99	5.09	
NITRATE	10	3-Dec-99	5.58	
NITRATE	10	7-Feb-00	5.4	
NITRATE	10	5-May-00	5.4	

Table 4 continued:

NITRATE	10	1-Sep-00	7.1
NITRATE	10	8-Dec-00	6.32
NITRATE	10	1-Nov-01	7.34
NITRATE	10	21-Dec-01	6
NITRATE	10	21-Dec-01	6
NITRATE	10	9-Dec-02	7.35
NITRATE	10	10-Jan-03	7.52
NITRATE	10	4-Mar-03	7.5
NITRATE	10	7-Mar-03	7.87
NITRATE	10	11-Apr-03	7.31
NITRATE	10	2-May-03	8.13
NITRATE	10	6-Jun-03	7.23
NITRATE	10	7-Jun-03	7.23
NITRATE	10	5-Sep-03	8.09
NITRATE	10	5-Dec-03	6.38
NITRATE	10	5-Mar-04	5.56
NITRATE	10	4-Jun-04	7.18
NITRATE	10	3-Sep-04	7.25
NITRATE	10	3-Dec-04	7.15
NITRATE	10	7-Mar-05	6.58
NITRATE	10	1-Apr-05	6.5
NITRATE	10	6-May-05	6.08
NITRATE	10	3-Jun-05	6.9

Volatile Organic Compounds (VOCs)

A review of the data indicates that no from 1997 to 2000, methyl tert butyl ether levels ranging from 0.9 ppb to 9.0 ppb. Chloroform levels ranging from 0.7 ppb to 3.6 ppb were detected from 2001 to 2004. Trichloroethane and dibromochloromethane were each detected once at levels of 2.5 ppb and 2.8 ppb respectively. Chloroform and dibromochloromethane are both disinfection by products and therefore are not related to ground water contamination.

Synthetic Organic Contaminants (SOCs)

A review of the data indicates that no SOCs have been detected above 50% of the MCL.

Microbiological Contaminants

Routine bacteriological monitoring, which measures total coliform bacteria, is conducted in the finished water for each noncommunity water system on a quarterly basis. Total coliform bacteria are not pathogenic but are used as indicator-organisms for other disease-causing microorganisms. No microbiological contaminants were found in samples from 1996 to 2005. In 2002, additional raw water samples were collected for an evaluation of the sensitivity of the supply wells to microorganisms found in surface water, such as

giardia or cryptosporidium. Initial samples showed low levels of coloform organisms, but after chlorination, flushing and resampling, no coliform organisms were detected.

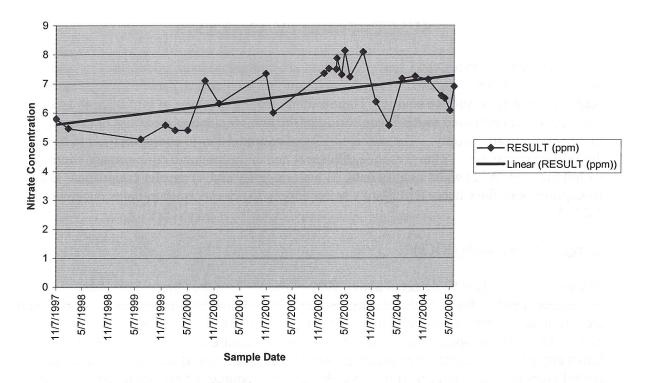
SUSCEPTIBILITY ANALYSIS

The wells serving the Cherry Hill Plant are completed in an unconfined crystalline rock aquifer. Wells completed in unconfined aquifers are generally more susceptible to contamination from surface sources. Therefore, managing this area to minimize the risk to the supply and continued routine monitoring of the contaminants is essential in assuring a safe drinking water supply. The susceptibility of source water to contamination is based on the following criteria: 1) the presence of natural and anthropogenic contaminant sources within the WHPA; 2) water quality data; 3) well integrity and 4) aquifer conditions. The susceptibility of the Cherry Hill Plant's water supply to various contaminants is shown in Table 5.

Inorganic Compounds (IOCs)

Nitrate was the only IOC detected above 50% of the MCL at the Cherry Hill Plant. From November, 1997 to June, 2005, 29 samples had results above 50% of the MCL. A review of the nitrate data shows a gradually increasing trend in nitrate levels. The source of nitrate may be the fertilizer applied to but not utilized by the orchard that is located next to wells. Lawn and grounds maintenance practices should also be reviewed for the plant and nearby school properties to determine if they are also possible sources of nitrate in ground water. Most of the WHPA is in an area not planned for public sewer, but only 7.2 % of the area uses onsite septic systems for wastewater disposal. Onsite septic systems in the WHPA are also sources of nitrate in ground water.

NITRATE RESULTS (ppm)



Volatile Organic Compounds (VOC's)

No VOC's above 50% of the MCL have been detected in samples of treated water at the Cherry Hill Plant, however, since a ground water clean up is in process within the wellhead protection area, the wells are considered vulnerable to VOC contamination. In addition, MTBE has been detected in the water supply on several occasions. The majority of sample results that are available for MDE to evaluate are from finished water samples from which most VOCs are likely to be removed.

Synthetic Organic Compounds (SOC's)

Repeated samples have been collected for SOCs from the Cherry Hill Plant's water sources. No detections have been at levels of concern. The Cherry Hill Plant's water supply is not considered susceptible to SOC contamination.

Radionuclides

Nontransient, noncommunity systems are currently not regulated for radionuclides. No data is available about the presence of radionuclides in the Cherry Hill Plant's water supply.

Microbiological Contaminants

Based on raw water bacteriological data, the Cherry Hill Plant's wells were determined not to be under the influence of surface water. In addition, no bacteria have been detected in any of the routine bacteriological samples that have been collected. The Cherry Hill Plant's water supply is not susceptible to microbiological contaminants.

TABLE 5. SUSCEPTIBILITY CHART

CONTAMINANT TYPE	Are Contaminant Sources present in the WHPA?	Are Contaminants detected in WQ samples at 50% of the MCL?	Is Well Integrity a Factor?	Is the Aquifer Vulnerable?	Is the System Susceptible to the Contaminant?
Inorganic Compounds	YES	YES	NO	YES	YES
Volatile Organic Compounds	YES	YES	NO	YES	YES
Synthetic Organic Compounds	NO	NO	NO	YES	NO
Microbiological Contaminants	NO	NO	NO	NO	NO

MANAGEMENT OF THE SOURCE WATER ASSESSMENT AREA

The wells serving the Cherry Hill Plant appear to be in good condition. Water quality testing indicated the presence of nitrates and four VOCs. Recommendations for maintaining the integrity of this system are listed below:

- Well 1 is located next to an internal road on the plant property. Construction of a protective barrier around the well is recommended to protect it from passing vehicles.
- Continue maintenance and protection of the wells.
- Abandon all wells that are not in use according to State regulations.
- Continue monitoring for VOCs, IOCs, SOCs and radionuclides in accordance with MDE's requirements.
- Annual sampling of raw water for microbiological contaminants is recommended. It is a good indicator of the integrity of the wellhead.
- Any increase in pumpage or addition of new wells to the system may require extension of the WHPA. The system is required to contact the Water Supply Program when an increase in pumpage is applied for or when new wells are being considered.

REFERENCES

- Bartlett, C.L., K.P. Garon, and M.J. Liberati, 1993, Hydrogeologic Evaluation Report, W.L. Gore and Associates, Inc., Cherry Hill, Maryland; Dupont Environmental Remediation Services, Wilmington, DE, 26 p.
- Higgins, M.W. and L.B. Conant, 1990, The Geology Cecil County, Maryland, Maryland Geological Survey Bulletin 37, 183p.
- Otton, E.G., R.E. Willey, R.A. McGreggor, G. Achmad, S.N. Hiortdahl, and J.M. Gerhart, 1988, Water Resources and Estimated Effects of Ground-Water Development, Cecil County, Maryland, Maryland Geological Survey Bulletin 34, 133p.
- Maryland Department of the Environment, Water Supply Program, 1999, Maryland's Source Water Assessment Plan, 36p.

FIGURES

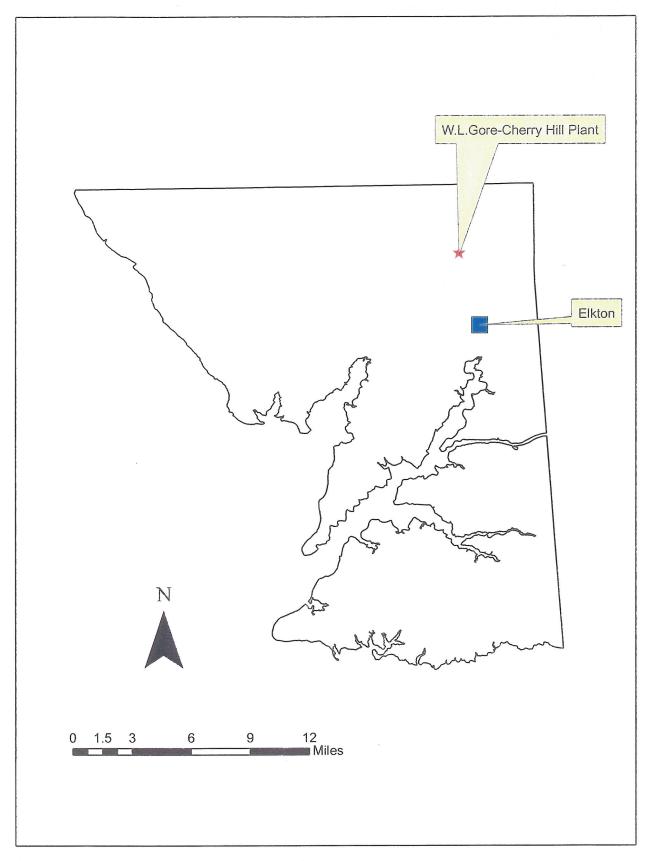


Figure 1. Location Map

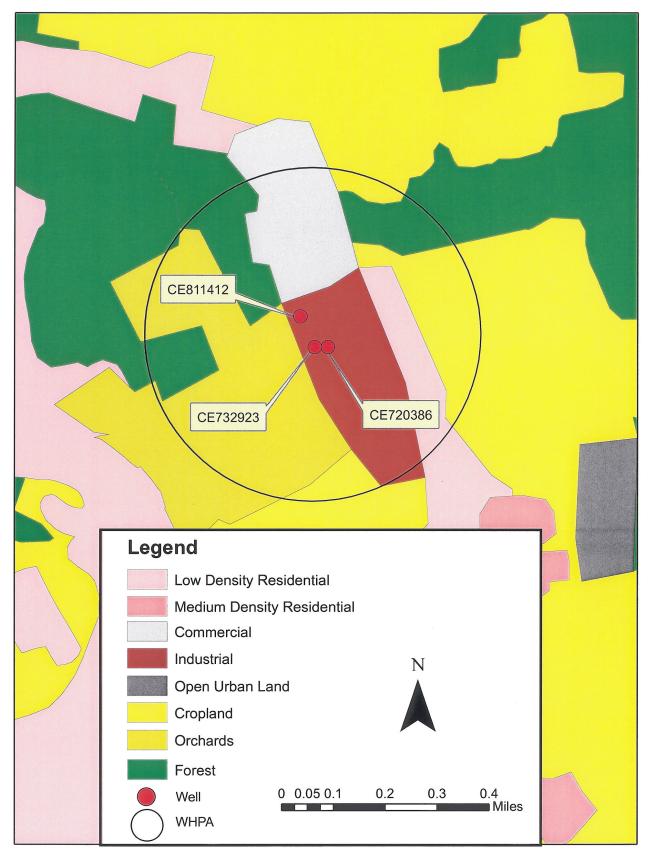


Figure 3. Land Use Map

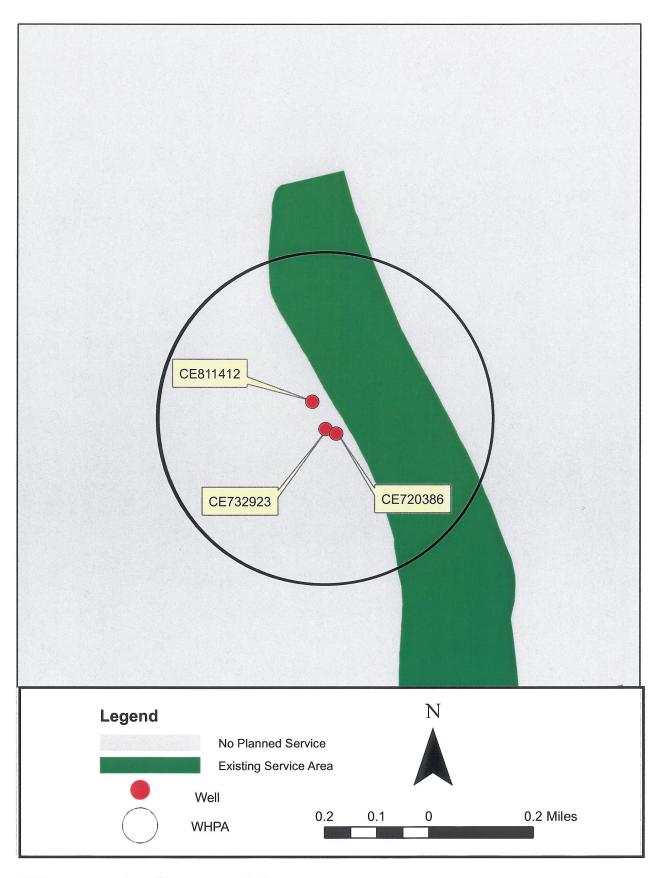


Figure 4. Sewer Map

APPENDIX

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