



Massachusetts Department of Environmental Protection
Source Water Assessment and Protection (SWAP) Report
for
Woburn Water Department

What is SWAP?

The Source Water Assessment Program (SWAP), established under the federal Safe Drinking Water Act, requires every state to:

- inventory land uses within the recharge areas of all public water supply sources;
- assess the susceptibility of drinking water sources to contamination from these land uses; and
- publicize the results to provide support for improved protection.

Susceptibility and Water Quality

Susceptibility is a measure of a water supply's potential to become contaminated due to land uses and activities within its recharge area.

A source's susceptibility to contamination does *not* imply poor water quality.

Water suppliers protect drinking water by monitoring for more than 100 chemicals, disinfecting, filtering, or treating water supplies, and using source protection measures to ensure that safe water is delivered to the tap.

Actual water quality is best reflected by the results of regular water tests. To learn more about your water quality, refer to your water supplier's annual Consumer Confidence Reports.

Table 1: Public Water System Information

<i>PWS Name</i>	Woburn Water Department
<i>PWS Address</i>	50 North Warren Street
<i>City/Town</i>	Woburn, Massachusetts 01801
<i>PWS ID Number</i>	3347000
<i>Local Contact</i>	Fred Russell – DPW Director
<i>Phone Number</i>	(781) 932-4490

Introduction

We are all concerned about the quality of the water we drink. Drinking water sources may be threatened by many potential contaminant sources, including storm runoff, road salting, and improper disposal of hazardous materials. Citizens and local officials can work together to better protect these drinking water sources.

Purpose of this report:

This report is a planning tool to support local and state efforts to improve water supply protection. By identifying land uses within water supply protection areas that may be potential sources of contamination, the assessment helps focus protection efforts on appropriate best management practices (BMPs) and drinking water source protection measures.

Refer to Table 3 for Recommendations to address potential sources of contamination. Department of Environmental Protection (DEP) staff are available to provide information about funding and other resources that may be available to your community.

This report includes the following sections:

1. Description of the Water System
2. Land Uses within Protection Areas
3. Source Water Protection
4. Appendices

Glossary

Aquifer: An underground water-bearing layer of permeable material that will yield water in a usable quantity to a well.

Hydrogeologic Barrier: An underground layer of impermeable material (i.e. clay) that resists penetration by water.

IWPA: A 400 foot to ½ mile radius around a public water supply well proportional to its pumping rate; the area DEP recommends for protection in the absence of a defined Zone II. To determine IWPA radius, refer to the attached map.

Recharge Area: The surface area that contributes water to a well.

Zone I: The area closest to a well; a 100 to 400 foot radius proportional to the well's pumping rate. This area should be owned or controlled by the water supplier and limited to water supply activities.

Zone II: The primary recharge area for the aquifer. This area is defined by hydrogeologic studies that must be approved by DEP. Refer to the attached map to determine the land within your Zone II.

Zone A: is the most critical for protection efforts. It is the area 400 feet from the edge of the reservoir and 200 feet from the edge of the tributaries (rivers and/or streams) draining into it.

Zone B: is the area one-half mile from the edge of the reservoir but does not go beyond the outer edge of the watershed.

Zone C: is the remaining area in the watershed not designated as Zones A or B.

The attached map shows Zone A and your watershed boundary.

Section 1: Description of the Water System

Groundwater Sources

Well Name	Source ID#
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Zone II #: 528 **Susceptibility: High**

Well F	3347000-06G
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Zone II #: 529 **Susceptibility: High**

Well A2	3347000-01G
Well D	3347000-02G
Well C2	3347000-03G
Well B	3347000-04G
Well I	3347000-10G

IWPAs: **Susceptibility: High**

Dug Well	3347000-05G
Well E	3347000-07G
Well G	3347000-08G
Well H	3347000-09G

Surface Water Sources

Source Name	Susceptibility: High
Horn Pond	3347000-01S

The wells for the Woburn Water Department are located within four separate supply protection area, with areas extending into Burlington, Lexington, and Winchester. Each well has a Zone I radius of 400 feet. The wells are located in an aquifer with a high vulnerability to contamination due to the absence of hydrogeologic barriers (i.e. confining clay layer) that can prevent contaminant migration. Please refer to the attached map of the Zone II.

Horn Pond for the Woburn Water Department is located in a water supply protection area that extends into Burlington, Lexington, and Winchester. Horn Pond and the wells with IWPAs are former sources that are currently inactive, but have not been formally abandoned.

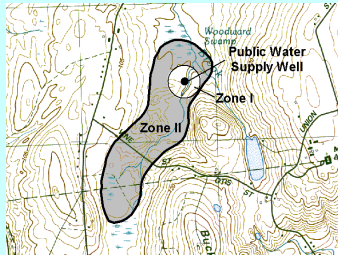
For current information on monitoring results and treatment, please contact the Public Water System contact person listed above in Table 1 for a copy of the most recent Consumer Confidence Report. Drinking water monitoring reporting data is also available on the web at <http://www.epa.gov/safewater/ccr1.html>

Section 2: Land Uses in the Protection Areas

The Zone IIs, IPWAs, and Zone C for Woburn are primarily a mixture of residential, commercial, and industrial land uses, with a small portion of these areas consisting of recreational activities (refer to attached map for details). Land uses and activities that are potential sources of contamination are listed in Table 2, with further detail provided in the Table of Regulated Facilities and Table of Underground Storage Tanks in Appendix B.

What is a Protection Area?

A well's water supply protection area is the land around the well where protection activities should be focused. Each well has a Zone I protective radius and a Zone II protection area.



Key Land Uses and Protection Issues include:

1. Activities in Zone I
2. Activities in Zone A
3. Hazardous Materials Storage and Use
4. Golf Course, Landscaping, and Nurseries
5. Residential Land Uses
6. Transportation Corridors
7. Federal Superfund Site and Oil or Hazardous Material Contamination Sites
8. Comprehensive Wellhead Protection Planning

The overall ranking of susceptibility to contamination for the system is high, based on the presence of at least one high threat land use within the water supply protection areas, as seen in Table 2.

1. Activities in Zone I – The Zone I for each of the wells is a 400 foot radius around the wellhead. Massachusetts drinking water regulations (310 CMR 22.00 Drinking Water) requires public water suppliers to own the Zone I, or control the Zone I through a conservation restriction. Only water supply activities are allowed in the Zone I. However, many public water supplies were developed

prior to the Department's regulations and contain non-water supply activities such as homes and public roads. The following non-water supply activities occur in the Zone Is of the system wells:

Well A2 - Vehicle parking, local roads, passive recreation, and utility substation transformers;

Well B - Vehicle parking, utility substation transformers and passive recreation;

Well C2 - Vehicle parking, utility substation transformers, and passive recreation;

Well D - Passive recreation

Well E - Several buildings, a trunk sewer line, and community gardens;

Well F - Passive recreation

Well I - Passive recreation

Well G - Several buildings and vehicle parking;

Well H - Several buildings and vehicle parking;

Dug Well - Vehicle parking, local roads, and utility substation transformers.

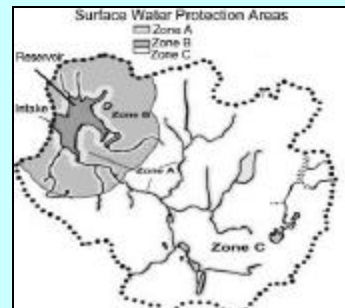
Zone I Recommendations:

- ✓ To the extent possible, remove all non-water supply activities from the Zone Is to comply with DEP's Zone I requirements.
- ✓ Use BMPs for the storage, use, and disposal of hazardous materials such as water supply chemicals and maintenance chemicals.
- ✓ Do not use or store pesticides, fertilizers or road salt within the Zone I.
- ✓ Keep any new non-water supply activities out of the Zone I.
- ✓ Agreement Options - Attempt to obtain a *Memorandum of Understanding*. Memorandum of Understanding (MOU) is an agreement between the landowner and public water supplier in which the landowner agrees not to engage in specific threatening activities. The MOU should be specific to the land use or activity. For instance, if the land is residential with a septic system the owner could agree not to place chemicals, petroleum products, or other hazardous or toxic substances, including septic system cleaners into the septic system, and that the system will be pumped at a specific frequency. The application of lawn care chemicals could also be restricted. Understanding how activity threatens drinking water quality is an important component of developing an effective MOU.

2. Activities in Zone A - Existing and future land use activities which may have an impact on surface water sources include: on-site septic systems; public and private recreational activities; untreated stormwater runoff; uncontained storage of fertilizers, manure, domestic animals; new construction; spills along roads; above ground and underground storage tanks; erosion; and un-permitted and

What is a Watershed?

A watershed is the land area that catches and drains rainwater down-slope into a river, lake or reservoir. As water travels down from the watershed area it may carry contaminants from the watershed to the drinking water supply source. For protection purposes, watersheds are divided into protection Zones A, B and C.



unauthorized activities. Wild animals, farm animals, and domestic pets can be carriers of waterborne diseases such as Giardia, Cryptosporidium, Salmonella, etc. The following activities occur in the Zone A of the system's reservoir:

Horn Pond - There are two oil or hazardous material contamination sites, numerous commercial and industrial businesses, several transmission line rights-of-way, a utility substation, numerous homes, local roads, numerous parking areas, and aquatic wildlife throughout the Zone A of Horn Pond and tributaries to the reservoir. Also, Route 95 passes thorough a small section of the Zone A of a tributary to the reservoir, and there is a sanitary sewer line that passes beneath part of the pond, with a manhole that rises out of the pond. This sewer line occasionally overflows into the pond when the sewer system can not handle the increased volume of infiltration and inflow during large storm events.

Zone A Recommendations:

- ✓ Reduce infiltration and inflow to abate sewer overflow into Horn Pond, as required by the August 16, 2001 Administrative Consent Order.
- ✓ To the extent possible, remove all activities from the Zone As to comply with DEP's Zone A requirements.

- ✓ Use BMPs for the storage, use, and disposal of hazardous materials such as water supply chemicals and maintenance chemicals.
- ✓ Storage of pesticides, fertilizers or road salt within the Zone A should be covered and contained.
- ✓ Keep any new prohibited activities out of the Zone A.

3. Hazardous Materials Storage and Use – Thirteen percent of the land area within the combined source protection areas consist of commercial or industrial land uses. Many small businesses and industries use hazardous materials, produce hazardous waste products, and/or store large quantities of hazardous materials in Underground Storage Tanks (USTs) and Aboveground Storage Tanks (ASTs). If hazardous materials are improperly stored, used, or disposed, they become potential sources of contamination. Hazardous materials should never be disposed of to a septic system or floor drain leading directly to the ground.

Hazardous Materials Storage and Use Recommendations:

- ✓ Support the development and implementation of a hazardous materials program that includes a Bylaw or Health Regulation. Such a program educates businesses on hazardous material

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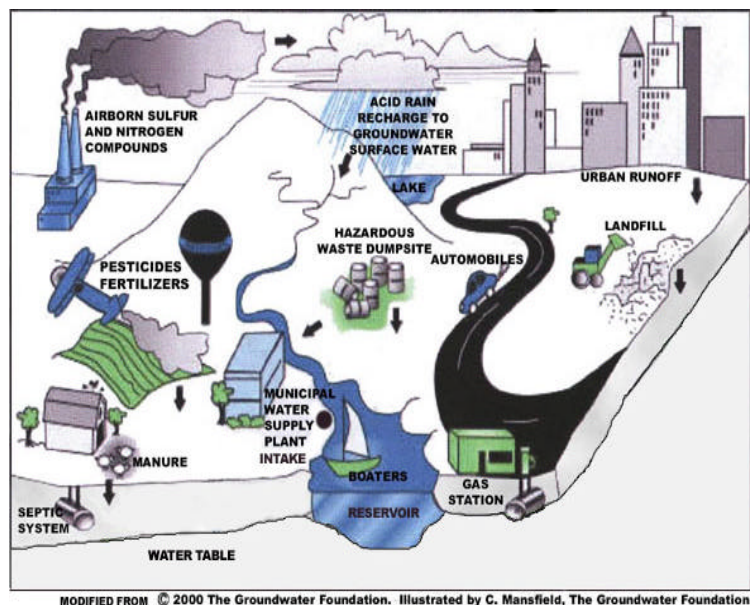


Figure 1: Sample watershed with examples of potential sources of contamination

Potential Source of Contamination vs. Actual Contamination

The activities listed in Table 2 are those that typically use, produce, or store contaminants of concern, which, if managed improperly, are potential sources of contamination (PSC).

It is important to understand that a release may never occur from the potential source of contamination provided facilities are using best management practices (BMPs). If BMPs are in place, the actual risk may be lower than the threat ranking identified in Table 2. Many potential sources of contamination are regulated at the federal, state and/or local levels, to further reduce the risk.

Table 2: Land Use in the Watershed

For more information, refer to Appendix B: Regulated Facilities within the Water Supply Protection Area

Land Uses	Quantity	Threat	Zone II Number or Source ID#	Zone C Source ID	Potential Contaminant Sources*
Agricultural					
Fertilizer Storage or Use	6	M	528	01S	Leaks, spills, improper handling, or over-application of fertilizers
Landscaping	6	M	528	01S	Leaks, spills, improper handling, or over-application of fertilizers and pesticides
Nurseries	7	M	528	01S	Leaks, spills, improper handling, or over-application of fertilizers, pesticides, and other chemicals
Pesticide Storage or Use	6	H	528	01S	Leaks, spills, improper handling, or over-application of pesticides
Commercial					
Car/Truck/Bus Washes	3	L	529, 08G, 09G	01S	Improper management of vehicle wash water; soaps; oils; greases; metals; salts
Body Shops	numerous	H	All sources	01S	Improper management of vehicle paints, solvents, and primer products
Gas Stations	numerous	H	All sources	01S	Spills, leaks, or improper handling or storage of automotive fluids and fuels
Service Stations/ Auto Repair Shops	numerous	H	All sources	01S	Spills, leaks, or improper handling of automotive fluids, and solvents
Bus and Truck Terminals	1	H	08G, 09G		Spills, leaks, or improper handling of fuels and maintenance chemicals
Cemeteries	2	M		01S	Leaks, spills, improper handling, or over-application of pesticides; historic embalming fluids (such as arsenic)
Dry Cleaners	numerous	H	All sources	01S	Spills, leaks, or improper handling of solvents and wastes
Funeral Homes	7	L	529	01S	Spills, leaks, or improper handling of hazardous chemicals
Furniture Stripping and Refinishing	2	H	529	01S	Spills, leaks, or improper handling of hazardous chemicals
Golf Courses	5	M	528, 529, 05G, 07G	01S	Over-application or improper handling of fertilizers or pesticides
Laundromats	numerous	L	All sources	01S	Improper management of wash water
Medical Facilities	3	M	529	01S	Spills, leaks, or improper handling or storage of biological, chemical, and radioactive wastes

Land Uses	Quantity	Threat	Zone II Number or Source ID#	Zone C Source ID#	Potential Contaminant Sources*
Commercial					
Nursing Homes	2	L		01S	Microbial contaminants
Photo Processors	4	H	529	01S	Spills, leaks, or improper handling or storage of photographic chemicals
Printer and Blueprint Shops	numerous	M	528, 529	01S	Spills, leaks, or improper handling or storage of printing inks and chemicals
Railroad Tracks and Yards	1	H	08G, 09G		Over-application or improper handling of herbicides, leaks or spills of transported chemicals and maintenance chemicals; fuel storage
Repair Shops (Engine, Appliances, Etc.)	numerous	H	All sources	01S	Spills, leaks, or improper handling or storage of engine fluids, lubricants, and solvents
Research Laboratories	numerous	M	08G, 09G		Spills, leaks, or improper handling or storage of laboratory chemicals and wastes
Industrial					
Chemical Manufacture or Storage	numerous	H	08G, 09G		Spills, leaks, or improper handling or storage of chemicals and process wastes
Electroplaters	1	H	529		Spills, leaks, or improper handling or storage of solvents and other chemicals
Fuel Oil Distributors	4	H	529	01S	Spills, leaks, or improper handling or storage of fuel oil
Hazardous Materials Storage	numerous	H	All sources	01S	Spills, leaks, or improper handling or storage of hazardous materials
Industry/Industrial Parks	numerous	H	08G, 09G		Spills, leaks, or improper handling or storage of industrial chemicals and metals
Residential					
Fuel Oil Storage (at residences)	numerous	M	All sources	01S	Spills, leaks, or improper handling of fuel oil
Lawn Care/Gardening	numerous	M	All sources	01S	Over-application or improper storage and disposal of pesticides
Septic Systems/Cesspools	numerous	M	All sources	01S	Microbial contaminants, and improper disposal of hazardous chemicals
Miscellaneous					
Aboveground Storage Tanks	11	M	529, 08G, 09G	01S	Spills, leaks, or improper handling of materials stored in tanks
Aquatic Wildlife	numerous	L	All sources	01S	Microbial contaminants
Composting Facilities	2	L	528	01S	Storage and improper handling of organic material, animal waste, and runoff
Fishing/Boating	numerous	L	528, 529, 05G, 07G	01S	Fuel and other chemical spills, microbial contaminants
Large Quantity Hazardous Waste Generators	6	H	529, 08G, 09G	01S	Spills, leaks, or improper handling or storage of hazardous materials and waste
Oil or Hazardous Material Sites	18	--	528, 529, 05G, 08G, 09G	01S	Tier Classified Oil or Hazardous Materials Sites are not ranked due to their site-specific character. Individual sites are identified in Appendix B.

Land Uses	Quantity	Threat	Zone II Number or Source ID#	Zone C Source ID#	Potential Contaminant Sources*
Miscellaneous					
Road and Maintenance Depots	2	M	529	01S	Spills, leaks, or improper handling or storage of deicing materials, automotive fluids, fuel storage, and other chemicals
Schools, Colleges, and Universities	4	M	528, 07G	01S	Spills, leaks, or improper handling or storage of fuel oil, laboratory, art, photographic, machine shop, and other chemicals
Small Quantity Hazardous Waste Generators	18	M	All sources	01S	Spills, leaks, or improper handling or storage of hazardous materials and waste
Storm water Drains/Retention Basins	numerous	L	All sources	01S	Debris, pet waste, and chemicals in storm water from roads, parking lots, and lawns
Superfund Sites	1	H	08G, 09G		Spills, leaks, or improper handling or storage of oil or hazardous materials and waste
Transmission Line Rights-of-Way Type: <u>electric</u>	7	L	528, 529, 05G, 07G	01S	Construction and corridor maintenance, over-application or improper handling of herbicides
Transportation Corridors	3	M	528, 08G, 09G	01S	Accidental leaks or spills of fuels and other hazardous materials, over-application or improper handling of pesticides
Underground Storage Tanks	56	H	All sources	01S	Spills, leaks, or improper handling of stored materials
Utility Substation Transformers	1	L	529, 05G	01S	Spills, leaks, or improper handling of chemicals and other materials including PCBs
Very Small Quantity Hazardous Waste Generators	48	L	All sources	01S	Spills, leaks, or improper handling or storage of hazardous materials and waste
Wastewater Treatment Plant/Collection Facility/ Lagoon	1	M		01S	Improper handling or storage of treatment chemicals or equipment maintenance materials; improper management of wastewater
Notes: <ol style="list-style-type: none"> When specific potential contaminants are not known, typical potential contaminants or activities for that type of land use are listed. Facilities within the watershed may not contain all of these potential contaminant sources, may contain other potential contaminant sources, or may use Best Management Practices to prevent contaminants from reaching drinking water supplies. For more information on regulated facilities, refer to Appendix B: Regulated Facilities within the Water Supply Protection Area information about these potential sources of contamination. For information about Oil or Hazardous Materials Sites in your protection areas, refer to Appendix C: Tier Classified Oil and/or Hazardous Material Sites. <p>* THREAT RANKING - The rankings (high, moderate or low) represent the relative threat of each land use compared to other PSCs. The ranking of a particular PSC is based on a number of factors, including: the type and quantity of chemicals typically used or generated by the PSC; the characteristics of the contaminants (such as toxicity, environmental fate and transport); and the behavior and mobility of the pollutants in soils and groundwater.</p>					

management requirements, explicitly informs the business community what is expected of them, and decreases the potential future liability businesses may be unknowingly creating for themselves. A local program lets the town serve as a consultant, helping businesses protect themselves. See DEP's website for additional information on developing a program for hazardous materials management at <http://www.state.ma.us/dep/brp/dws/files/hazmat.doc>.

- ✓ Coordinate efforts with local officials in the development and implementation of an Inspection Program that is usually conducted by the local Board of Health to prevent hazardous substances from entering water supplies. Inspections target facilities that generate, use, store, or disposal of hazardous/toxic materials. Programs can also include floor drain inspections and underground storage tanks. Local inspection programs often provide educational material and technical assistance on Best Management Practices. Building Inspectors are often involved in local inspection programs.
- ✓ Work with local businesses to encourage training on proper hazardous material use,

disposal, and emergency response. Refer to the attached list of resources for more information on hazardous material BMPs.

- ✓ Support your local fire department in upgrading all above and below ground oil/hazardous material storage tanks in order to meet current construction standards. Funding for replacing underground storage tanks is available through the MA Department of Revenue. For more information, refer to http://www.dor.state.ma.us/ust/ust_home.htm
- ✓ Work with local businesses to register those facilities that are unregistered generators of hazardous waste or waste oil. Partnerships between businesses, water suppliers, and communities enhance successful public drinking water protection practices.
- ✓ Work with the Selectmen, Board of Health and Planning Board to monitor land uses within and proximal to the Zone II. Refer to the Wellhead Protection Plan guidance and model bylaws at <http://www.state.ma.us/dep/brp/dws/files/whplan.doc> for types of activities that should be prohibited and managed in the vicinity of public or private water supplies.

4. Golf Course, Landscaping, and Nurseries – Pesticides and fertilizers have the potential to contaminate a drinking water source if improperly stored, applied, or

**When you wash your car in the driveway,
Remember
you're not just washing your car in the driveway.**



All the soap, suds, and oily grit runs along the curb. Then into a storm drain and directly into our lakes, rivers, and streams. And that causes pollution which is unhealthy for everyone. So how do you avoid this whole mess? Easy! Wash your car on the grass or gravel instead of the street. Or better yet, take it to a car wash where the water gets treated or recycled.

The Massachusetts Department of Environmental Protection One Winter Street Boston, MA 02108

Source Protection Decreases Risk

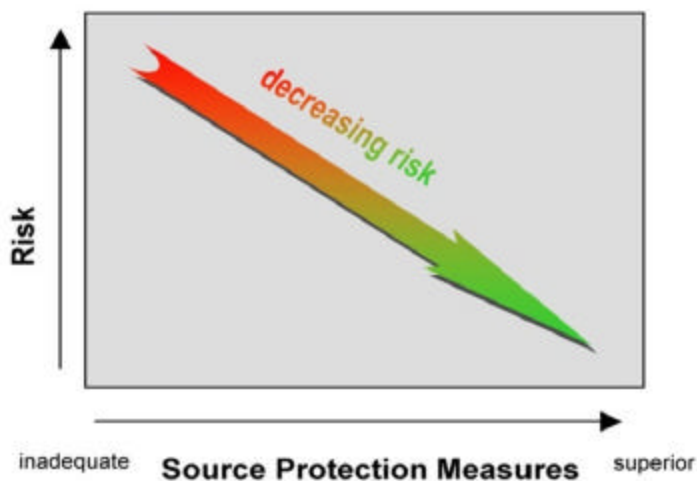


Figure 2: Risk of contamination decreases as source protection increases. This is true for public water systems of any susceptibility ranking, whether High, Moderate, or Low.

disposed of. If managed improperly, Underground and Aboveground Storage Tanks (USTs and ASTs) can be potential sources of contamination due to leaks or spills of the fuel oil they store.

Golf Course, Landscaping, and Nurseries Activities Recommendations:

- ✓ Encourage golf course, landscaping, and nursery managers to incorporate an **Integrated Pest Management** (IPM) approach into their pest management program. IPM is an ecologically-based approach to pest control that links together several related components, including monitoring and scouting, biological controls, mechanical and/or other cultural practices, and pesticide applications. By combining a number of these different methods and practices, satisfactory pest control can be achieved with less impact on the environment.
- ✓ Promote **Best Management Practices** (BMPs) for fuel oil storage, hazardous material handling, storage, disposal, and emergency response planning.
- ✓ Work with golf course, landscaping, and nursery managers to ensure that pesticides and fertilizers are being stored within a structure designed to prevent runoff.

5. Residential Land Uses – Approximately 47% of the combined source protection areas consist of residential activities. If managed improperly, activities associated with residential areas can contribute to drinking water contamination. Common potential sources of contamination include:

- **Household Hazardous Materials** - Hazardous materials may include automotive wastes, paints, solvents, pesticides, fertilizers, and other substances. Improper use, storage, and disposal of chemical products used in homes are potential sources of contamination.
- **Heating Oil Storage** - If managed improperly, Underground and Aboveground Storage Tanks (USTs and ASTs) can be potential sources of contamination due to leaks or spills of the fuel oil they store.
- **Stormwater** – Catch basins transport stormwater from roadways and

adjacent properties to the ground. As flowing stormwater travels, it picks up debris and contaminants from streets and lawns. Common potential contaminants include lawn chemicals, pet waste, and contaminants from automotive leaks, maintenance, washing, or accidents.

Residential Land Use Recommendations:

- ✓ Educate residents on best management practices (BMPs) for protecting water supplies. Distribute the fact sheet “Residents Protect Drinking Water” available in Appendix A and on www.mass.gov/dep/brp/dws/protect.htm, which provides BMPs for common residential issues.
- ✓ Work with planners to control new residential developments in the water supply protection areas.
- ✓ Promote BMPs for stormwater management and pollution controls.

6. Transportation Corridors - Roadway construction, maintenance, and typical highway use can all be potential sources of contamination. Accidents can lead to spills of gasoline and other potentially dangerous transported chemicals. Roadways are frequent sites for illegal dumping of hazardous or other potentially harmful wastes. De-icing salt, automotive chemicals and other debris on roads are picked up by stormwater and wash into catch basins.

Transportation Corridor Recommendations:

- ✓ Identify stormwater drains and the drainage system along transportation corridors. Wherever possible, ensure that drains discharge stormwater outside of the Zone II and Zone Cs.
- ✓ Work with the City and State to have catch basins inspected, maintained, and cleaned on a regular schedule. Street sweeping reduces the amount of potential contaminants in runoff.
- ✓ Work with City and State emergency response teams to ensure that any spills within the Zone II, Zone A and Zone C can be effectively contained.

What is a Zone III?

A Zone III (the secondary recharge area) is the land beyond the Zone II from which surface and ground water drain to the Zone II and is often coincident with a watershed boundary.

The Zone III is defined as a secondary recharge area for one or both of the following reasons:

1. The low permeability of underground water bearing materials in this area significantly reduces the rate of groundwater and potential contaminant flow into the Zone II.
2. The groundwater in this area discharges to a surface water feature such as a river, rather than discharging directly into the aquifer.

The land uses within the Zone III are assessed only for sources that are shown to be groundwater under the direct influence of surface water.

What are "BMPs"?

Best Management Practices (BMPs) are measures that are used to protect and improve surface water and groundwater quality. BMPs can be structural, such as oil & grease trap catch basins, nonstructural, such as hazardous waste collection days or managerial, such as employee training on proper disposal procedures.

- ✓ If storm drainage maps are available, review the maps with emergency response teams. If maps aren't yet available, work with city officials to investigate mapping options such as those in the upcoming Phase II Stormwater Rule requiring some communities to complete stormwater mapping.

7. Presence of Federal Superfund Site and Oil or Hazardous Material Contamination Sites – The IWPA for Well G and Well H contains a United States Environmental Protection Agency (USEPA) Superfund Site that is associated with DEP Tier Classified Oil and/or Hazardous Material Release Sites identified as Release Tracking Numbers 3-0000479, 3-0000534, 3-0000594, 3-0001146, 3-0001423, 3-0001424, and 3-0002198. Other DEP Tier Classified Oil and/or Hazardous Material Release Sites are indicated on the map as Release Tracking Numbers 3-004250, 3-0012647, 3-0000475, 3-0019909, 3-0019134, 3-0018789, 3-0004067, 3-0012279, 3-0010691, 3-0002256, 3-0015002, 3-0012942, 3-0013604, 3-0018820, 3-0003951, 3-0001423, 3-0000534, and 3-0000482. Refer to the attached map and Appendix 3 for more information.

Federal Superfund Site and Oil or Hazardous Material Contamination Sites Recommendation:

- ✓ Monitor progress on any ongoing remedial action conducted for the known oil or contamination sites.

8. Protection Planning – Currently, the City does not have water supply protection controls that meet DEP's Wellhead Protection regulations 310 CMR 22.21(2) and Surface Water Supply Protection Regulations 310 CMR 22.20B and 310 CMR 22.20C. Protection planning protects drinking water by managing the land area that supplies water to a well or reservoir.

A Water Resource Protection Plan coordinates community efforts, identifies protection strategies, establishes a timeframe for implementation, and provides a

forum for public participation. There are resources available to help communities develop a plan for protecting drinking water supply wells.

Protection Planning Recommendations:

- ✓ Establish a protection team, and refer them to <http://mass.gov/dep/brp/dws/protect.htm> for a copy of DEP's guidance, "Developing a Local Wellhead Protection Plan" and "Developing a Local Surface Water Supply Protection Plan".
- ✓ Coordinate efforts with local officials to compare local wellhead and surface water protection controls with current MA Wellhead Protection Regulations 310 CMR 22.21(2) and Surface Water Supply Protection Regulations 310 CMR 22.20B and 310 CMR 22.20C. If there are no local controls or they do not meet the current regulations, adopt controls that meet 310 CMR 22.21 (2), 310 CMR 22.20B and 310 CMR 22.20C. For more information on DEP land use controls see <http://mass.gov/dep/brp/dws/protect.htm>.
- ✓ If local controls do not regulate floor drains, be sure to include floor drain controls that meet 310 CMR 22.21(2).

Other land uses and activities within the IWPA's, Zone IIs and Zone C that are potential sources of contamination are included in Table 2. Refer to Appendix A for more information about these land uses. Identifying potential sources of contamination is an important initial step in protecting your drinking water sources.

Further local investigation will provide more in-depth information and may identify new land uses and activities that are potential sources of contamination. Once potential sources of contamination are identified, specific recommendations like those below should be used to better protect your water supply.

Top 5 Reasons to Develop a Local Wellhead and Surface Water Protection Plan

- ❶ Reduces Risk to Human Health
- ❷ Cost Effective! Reduces or Eliminates Costs Associated With:
 - ♦ Increased monitoring and treatment
 - ♦ Water supply clean up and remediation
 - ♦ Replacing a water supply
 - ♦ Purchasing water
- ❸ Supports municipal bylaws, making them less likely to be challenged
- ❹ Ensures clean drinking water supplies for future generations
- ❺ Enhances real estate values – clean drinking water is a local amenity. A community known for its great drinking water in a place people want to live and businesses want to locate.

Additional Documents:

To help with source protection efforts, more information is available by request or online at www.state.ma.us/dep/brp/dws including:

- 1. Water Supply Protection Guidance Materials such as model regulations, Best Management Practice information, and general water supply protection information.
- 2. MA DEP SWAP Strategy
- 3. Land Use Pollution Potential Matrix
- 4. Draft Land/Associated Contaminants Matrix

Table 3: Current Protection and Recommendations

Protection Measures	Status	Recommendations
Zone A		
Does the Public Water Supplier (PWS) own or control the entire Zone I and/or Zone A?	YES (Wells D, F, and I)	Follow Best Management Practices (BMP's) that focus on good housekeeping, spill prevention, and operational practices to reduce the use and release of hazardous materials.
	NO (Wells A2, B, C2, Dug Well, E, G, H, and Horn Pond)	To the extent possible, remove non-water supply activities from each Zone I and prohibited activities in Zone A to comply with DEP's Zone I and Zone A requirements. Investigate options for gaining ownership or control of the Zone I for groundwater sources.
Are the Zone I and Zone A posted with "Public Drinking Water Supply" Signs?	YES (Except for Wells E, G, and H)	Additional economical signs are available from the Northeast Rural Water Association (802) 660-4988.
Are the Zone I and Zone A regularly inspected?	YES (Except for Wells E, G, H, and Horn Pond)	Wells E, G, H, and Horn Pond are not inspected because of their inactive status. Continue daily inspections of drinking water protection areas for sources that are active.
Are water supply-related activities the only activities within the Zone I and Zone A?	NO	There is passive recreation in the Zone I of Wells A2, B, C2, D, F, and I. Monitor non-water supply activities in Zone I and prohibited activities in Zone A, and investigate options for removing these activities.
Municipal Controls (Zoning Bylaws, Health Regulations, and General Bylaws)		
Does the municipality have Surface Water Protection Controls that meet 310 CMR 22.20C and Wellhead Protection Controls that meet 310 CMR 22.21(2)?	NO	Work with the Planning Board and the City Council to review existing Ordinance to determine if it meets land use controls required by 310 CMR 22.21(2) and 310 CMR 22.20B & C. Refer to www.state.ma.us/dep/brp/dws/ for model bylaws and health regulations, and current regulations.
Do neighboring communities protect the water supply protection areas extending into their communities?	NO	Request that municipal officials in Burlington, Lexington, and Winchester develop land use restrictions that meet 310 CMR 22.21(2), 310 CMR 22.20B and 310 CMR 22.20C.
Planning		
Does the PWS have a local surface water and wellhead protection plan?	NO	Develop a wellhead protection plan. Follow "Developing a Local Wellhead Protection Plan" available at: www.state.ma.us/dep/brp/dws/ . Develop a surface water supply protection plan. Follow "Developing a Local Surface Water Supply Protection Plan" available at: www.state.ma.us/dep/brp/dws/ .
Does the PWS have a formal "Emergency Response Plan" to deal with spills or other emergencies?	NO	Work with local officials to develop a joint emergency response plan with fire department, Board of Health, DPW, and local and state emergency officials. Coordinate emergency response drills with local teams.
Does the municipality have a watershed and wellhead protection committee?	YES	The committee is currently comprised of city council members. Enhance the committee by including representatives from citizens' groups, neighboring communities, and the business community.
Does the Board of Health conduct inspections of commercial and industrial activities?	YES	For more guidance see "Hazardous Materials Management: A Community's Guide" at www.state.ma.us/dep/brp/dws/files/hazmat.doc
Does the PWS provide watershed protection education?	SOME	Currently, the only outreach is through the annual Consumer Confidence Report. Increase residential outreach through bill stuffers, school programs, Drinking Water Week activities, and coordination with local groups. Aim additional efforts at commercial, industrial and municipal uses within the Zone II and Zone C.

Section 3: Source Water Protection Conclusions and Recommendations

Current Land Uses and Source Protection:

As with many water supply protection areas, the system's IWPAs, Zone IIs and Zone C contain potential sources of contamination. However, source protection measures reduce the risk of actual contamination, as illustrated in Figure 2. The water supplier is commended for taking an active role in promoting source protection measures in the Water Supply Protection Areas through:

- Working with Burlington, Wilmington, and Winchester on cross-town source protection issues through Project Impact.

Source Protection Recommendations:

To better protect the sources for the future:

- ✓ Inspect the Zone I and Zone A regularly, and when feasible, remove any non-water supply activities.
- ✓ Educate residents on ways they can help you to protect drinking water sources.
- ✓ Work with emergency response teams to ensure that they are aware of the stormwater drainage in your Zone II and Zone C and to cooperate on responding to spills or accidents.
- ✓ Partner with local businesses to ensure the proper storage, handling, and disposal of hazardous materials.
- ✓ Monitor progress on any ongoing remedial action conducted for the known oil or contamination sites.
- ✓ Develop and implement a Wellhead and Surface Water Protection Plan.

Conclusions:

These recommendations are only part of your ongoing local drinking water source protection. Additional source protection recommendations are listed in Table 3, the Key Issues above and Appendix A. DEP staff, informational documents, and resources are available to help you build on this SWAP report as you continue to improve drinking water protection in your community.

The Department's Wellhead Protection Grant Program and Source Protection Grant Program provide funds to assist public water suppliers in addressing water supply source protection through local projects. Protection recommendations discussed in this document may be eligible for funding under the Grant Program. Please note: each spring DEP posts a new Request for Response for the grant program (RFR).

Other grants and loans are available through the Drinking Water State Revolving Loan Fund, the Clean Water State Revolving Fund, and other sources. For more information on grants and loans, visit the Bureau of Resource Protection's Municipal Services web site at: <http://mass.gov/dep/brp/mf/mfpubs.htm>.

The assessment and protection recommendations in this SWAP report are provided as a tool to encourage community discussion, support ongoing source protection efforts, and help set local drinking water protection priorities. Citizens and community officials should use this SWAP report to spur discussion of local drinking water protection measures. The water supplier should supplement this SWAP report with local information on potential sources of contamination and land uses. Local information should be maintained and updated periodically to reflect land use changes in the Zone II. Use this information to set priorities, target inspections, focus education efforts, and to develop a long-term drinking water source protection plan.

Section 4: Appendices

- A. Protection Recommendations
- B. Regulated Facilities within the Water Supply Protection Area
- C. Table of Tier Classified Oil and/or Hazardous Material Sites within the Water Supply Protection Areas
- D. Additional Documents on Source Protection

For More Information

Contact Anita Wolovick in DEP's Wilmington Office at (978) 661-7768 for more information and assistance on improving current protection measures.

Copies of this report have been provided to the public water supplier, town boards, and the local media.

APPENDIX A: DEP PERMITTED FACILITIES WITHIN WOBURN'S WATER SUPPLY PROTECTION AREAS

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
131463	ABERJONA AUTO PARTS INC	278 - 280 SALEM ST	WOBURN	HANDLER	RECYCLER - BURNER/BLENDER
131463	ABERJONA AUTO PARTS INC	278 - 280 SALEM ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
282220	ABSOLUTE PRECISION PHOTOGRAPHIC SCREEN	87 OLYMPIA AVE	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
287364	ALPHAGENE INC	260 WEST CUMMINGS PARK	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
318406	ANIKA THERAPEUTICS INC	236 WEST CUMMINGS PARK	WOBURN	HANDLER	LARGE QUANTITY GENERATOR
332004	AURORA GRAPHICS	34 CUMMINGS PARK	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
332004	AURORA GRAPHICS	34 CUMMINGS PARK	WOBURN	HANDLER	SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
130712	AW CHESTERTON CO	9 FORBES RD	WOBURN	DISCHARGE	BELOW IWW REGULATED THRESHOLDS
186729	BEST PETROLEUM CO INC	477 MAIN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
186729	BEST PETROLEUM CO INC	477 MAIN ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
33313	BIOTEK INC	21C OLYMPIA AVE	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
282409	BMA LABS	25S OLYMPIA AVE	WOBURN	DISCHARGE	MWRA SEWER CONNECTION

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
282570	CHARLS ICE CREAM SPECIALTIES	242 SALEM ST	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
282574	CHARRETTE PROGRAPHICS	31 OLYMPIA AVE	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
282601	COLOR EXPRESS	266 WEST CUMMINGS PARK	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
30055	CONSOLIDATED FREIGHTWAYS	295 SALEM ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
296788	COVINO ENVIRONMENTAL ASSOCIATES INC	300 WILDWOOD AVE	WOBURN	PLANT	AQ NATURAL MINOR W/ PTE < OR = 25% OF MAJ
34447	CUMMINGS PROPERTIES INC	74 CUMMINGS PARK	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
263971	CURRY COPY CENTER OF WOBURN	482-A MAIN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
325864	CVS #0665	415 MAIN STREET	WOBURN	HANDLER	SMALL QUANTITY GENERATOR
325864	CVS #0665	415 MAIN STREET	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
312323	DATA PRINT	18 CRANES CT	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
257931	DICK A B COMPANY	400 WEST CUMMINGS PARK	WOBURN	HANDLER	SMALL QUANTITY GENERATOR
33163	DIX AUTO BODY	38 HIGH ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
130722	DIXON F W CO	55 SALEM ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
133826	DOLAN JENNER IND INC	99 BLUEBERRY HILL RD	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
130728	EASY WAY CLEANSERS INC	227 MAIN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
31633	EDWARDS WELDING CO	25 CAMPBELL ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
282793	EPIC TECHNOLOGY	500 WEST CUMMINGS PARK	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
263899	EXPRESS FUEL	505 MAIN ST	WOBURN	HANDLER	SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
263899	EXPRESS FUEL	505 MAIN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
263899	EXPRESS FUEL	505 MAIN ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
263899	EXPRESS FUEL	505 MAIN ST	WOBURN	HANDLER	SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
126443	FARRELLS SERVICE CENTER	146 MAIN ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
126443	FARRELLS SERVICE CENTER	146 MAIN STREET	WOBURN	HANDLER	SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
287907	GARYS AUTOMOTIVE AND PERFORMANCE	75 MAIN ST	WOBURN	HANDLER	SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
287907	GARYS AUTOMOTIVE AND PERFORMANCE	75 MAIN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
186528	GETTY 30393	325 WASHINGTON ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
126444	GIBBS OIL 862	107 WINN ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
317352	GILES SERVICE CENTER	8 CAMPBELL ST	WOBURN	HANDLER	SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
133825	GILL PATRICK J & SON INC	9 FOWLER ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
110175	GINN OIL COMPANY	57 WINN ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
52945	GREATER BOSTON YMCA	137 LEXINGTON ST	WOBURN	PLANT	AQ NATURAL MINOR W/ PTE < OR = 25% OF MAJ
35153	GREEN STREET AUTOMOTIVE CENTER INC	7 GREEN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
320555	HAMILTON AUTO BODY INC	4 ABERJONA DR	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
52929	HEIMLICH NURSERIES	71 BURLINGTON ST	WOBURN	PLANT	AQ NATURAL MINOR W/ PTE<MAJ & >50% OF MAJ
178615	HYGEIA LABORATORIES INC	600 WEST CUMMINGS PARK	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
178615	HYGEIA LABORATORIES INC	600 WEST CUMMINGS PARK	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
36048	IMAGRAPH CORP	800 W CUMMINGS PK	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
52908	J SHANNON & SONS	298 LEXINGTON ST	WOBURN	PLANT	AQ SYNTHETIC MINOR W/RESTR PTE < OR = 25% OF MAJ
33066	JIMS AUTO BODY	106 WINN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
32775	KEANES AUTO BODY	93 BEDFORD RD	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
28563	LANNAN CHEVROLET	40 WINN ST	WOBURN	HANDLER	LARGE QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
28563	LANNAN CHEVROLET	29 WINN ST	WOBURN	HANDLER	LARGE QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
28563	LANNAN CHEVROLET	29 WINN ST	WOBURN	HANDLER	SMALL QUANTITY GENERATOR
316937	MAHONEYS GARDEN CENTER	200 WILDWOOD AVE	WOBURN	PLANT	RES APPLICATION APPROVALOVED
33328	MCCAULEY AUTO BODY	16 PARK ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
135844	MCDERMOTTROE GETTY WOBURN	229 LEXINGTON ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
132625	MEMTEK CORP	42 CUMMINGS PARK	WOBURN	GROUND	TEMP CLASS. GNDWATER REG OBJ. CLASS(MAJ,MIN,OTH) UNKNOWN
25926	MURPHY BILL WASTE OIL	263 SALEM ST	WOBURN	HANDLER	TRANSPORTER
131617	MURPHYS WASTE OIL SERVICES INC	252 SALEM ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
131617	MURPHYS WASTE OIL SERVICES INC	252 SALEM ST	WOBURN	HANDLER	TRANSFER, STORAGE AND/OR DISPOSAL FACILITY
131617	MURPHYS WASTE OIL SERVICES INC	252 SALEM ST	WOBURN	HANDLER	LARGE QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
207259	NEW HORIZONS AT CHOATE	21 WARREN AVE	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
130727	NORTHERN RESEARCH & ENGINEERING	39 OLYMPIA AVE	WOBURN	PLANT	BELOW AQ REGULATED THRESHOLDS
130727	NORTHERN RESEARCH & ENGINEERING CORP	39 OLYMPIA AVE	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
339167	NUGRAPHICS ETC INC	82 OLYMPIA AVENUE	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
307027	ORGANIX INC	240 SALEM ST	WOBURN	HANDLER	SMALL QUANTITY GENERATOR
132356	OROURKES SER STA SS NUMBER D2R	183 CAMBRIDGE RD	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
132356	OROURKES SERVICE STATION INC	183 CAMBRIDGE RD	WOBURN	FUEL DISPENSER	FUEL DISPENSER
34794	PALMER JEAN CO INC	30 BRYANT ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
133825	PATRICK J GILL AND SONS INC	9 FOWLE ST	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
133820	PELL ENGINEERING INC	12 GREEN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
209909	PLEASANT STREET AL PRIME	117 PLEASANT ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
318811	PRIME AUTO	117 PLEASANT ST	WOBURN	HANDLER	NON-NOTIFIER HW FAC THAT IS SUBJ TO REGS BUT NOT PERMITTED
303679	PROSCIENCE ANALYTICAL SERVICES INC	22 CUMMINGS PARK	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
282684	PSS IMAGING INC	22-8 PROSPECT ST	WOBURN	TRANSP	TRANSPORTER

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
340828	RANELLI AUTO BODY	111 REAR SALEM STREET	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
340828	RANELLI AUTO BODY	111 REAR SALEM STREET	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
52876	RIVINIUS & SONS INC	255 SALEM ST	WOBURN	PLANT	AQ NATURAL MINOR W/ PTE < OR = 25% OF MAJ
52955	ROHTSTEIN CORP	70 OLYMPIA AVE	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
30880	SCHNIDER BROS AUTO BODY INC	275R SALEM ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
331396	SEROPTIX	82 CUMMINGS PARK	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
325896	SHELL 137894	293 CAMBRIDGE ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
323018	SYNTONIX PHARMACEUTICALS INC	65 CUMMINGS PARK	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
323018	SYNTONIX PHARMACEUTICALS INC	65 CUMMINGS PARK	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
334143	TANK CONTRACTING	104 WINN STREET	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
31268	TRACYS AUTO SALES SERVICE INC	5 HARRISON AVE	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
117577	VACUUM BARRIER CORP	4 BARTEN LN	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
117577	VACUUM BARRIER CORP	4 BARTEN LN	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
37396	VALET CLEANERS INC	182 CAMBRIDGE RD	WOBURN	HANDLER	SMALL QUANTITY GENERATOR
265251	WA KRAFT	199 WILDWOOD ST	WOBURN	HANDLER	LARGE QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
265251	WA KRAFT	199 WILDWOOD ST	WOBURN	HANDLER	SMALL QUANTITY GENERATOR
297195	WALGREENS #2309	175 MAIN ST	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
264358	WHOLESALE PRINTING	2 CEDAR ST	WOBURN	HANDLER	NON-NOTIFIER HW FAC THAT IS SUBJ TO REGS BUT NOT PERMITTED
130711	WINFIELD BROOKS CO INC	70 CONN AT FOWLE ST	WOBURN	TURA REPORTER	LARGE QUANTITY TOXIC USER
130711	WINFIELD BROOKS CO INC	70 CON & FOWLE STS	WOBURN	HANDLER	SMALL QUANTITY GENERATOR
286355	WOBURN CAR WASH INC	75 MAIN ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
286355	WOBURN CAR WASH INC	75 MAIN ST	WOBURN	HANDLER	SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
133808	WOBURN CLEANERS	6 MONTVALE AVE	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
285937	WOBURN DAILY TIMES	ONE ARROW DR	WOBURN	DISCHARGE	MWRA SEWER CONNECTION
279466	WOBURN DPW	N. WARREN ST	WOBURN	HANDLER	SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
286617	WOBURN FOREIGN AUTO BODY	80 OLYMPIA AVE	WOBURN	PLANT	NON-NOTIFIER AQ FAC THAT IS SUBJ TO REGS BUT NOT PERMITTED

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
2947	WOBURN FOREIGN MOTORS INC	394 WASHINGTON ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
2947	WOBURN FOREIGN MOTORS INC	394 WASHINGTON ST	WOBURN	HANDLER	LARGE QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
365302	WOBURN GAS & SERVICE INC	545 MAIN ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
365302	WOBURN GAS & SERVICE INC	545 MAIN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
365302	WOBURN GAS & SERVICE INC	545 MAIN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
262959	WOBURN PRINTING COMPANY	25 EVERETT ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
34772	WOBURN SCREEN MACHINE PRODUCTS	10 JOHN ST	WOBURN	HANDLER	VERY SMALL QUANTITY GENERATOR
178381	WOBURN SQUARE SERVICE	23 PLEASANT ST	WOBURN	FUEL DISPENSER	FUEL DISPENSER
124608	CFC ASSOCIATES INC	11 CAMBRIDGE ST	BURLINGTON	TURA REPORTER	LARGE QUANTITY TOXIC USER
191617	HARVARD COMMUNITY HEALTH PLAN CENTER	20 WALL ST	BURLINGTON	DISCHARGE	MWRA SEWER CONNECTION
305135	HERB CHAMBERS HONDA	33 CAMBRIDGE ST	BURLINGTON	HANDLER	LARGE QUANTITY GENERATOR - WASTE OIL/PCBS ONLY
305135	HERB CHAMBERS HONDA	33 CAMBRIDGE ST	BURLINGTON	HANDLER	VERY SMALL QUANTITY GENERATOR
316345	IAN COMMUNICATIONS GROUP	13 RAY AVE	BURLINGTON	HANDLER	VERY SMALL QUANTITY GENERATOR

DEP FACILITY NUMBER	FACILITY NAME	STREET ADDRESS	TOWN	PERMITTED ACTIVITY	ACTIVITY CLASS
130446	LAHEY HITCHCOCK MEDICAL CENTER	41 MALL RD	BURLINGTON	HANDLER	SMALL QUANTITY GENERATOR
133586	NORTHEAST CONSTRUCTION PRODUCTS CO	64 CAMBRIDGE ST	BURLINGTON	HANDLER	VERY SMALL QUANTITY GENERATOR
338469	POWERCELL CORPORATION	99 SOUTH BEDFORD STREET	BURLINGTON	DISCHARGE	MWRA SEWER CONNECTION
130451	RAYTHEON SERVICE CO	2 WAYSIDE RD	BURLINGTON	HANDLER	SMALL QUANTITY GENERATOR
130451	RAYTHEON SERVICE COMPANY	2 WAYSIDE RD	BURLINGTON	DISCHARGE	MWRA SEWER CONNECTION
295396	RITZ CAMERA	95 MALL RD	BURLINGTON	HANDLER	SMALL QUANTITY GENERATOR
295396	RITZ CAMERA	95 MALL RD	BURLINGTON	HANDLER	SMALL QUANTITY GENERATOR
32170	SKI MARKET THE	34 CAMBRIDGE ST	BURLINGTON	HANDLER	VERY SMALL QUANTITY GENERATOR
332192	VERIZON MASSACHUSETTS	51 SOUTH BEDFORD ST	BURLINGTON	PLANT	AQ SYNTHETIC MINOR W/RESTR PTE < OR = 25% OF MAJ
133587	VISIDYNE INC	10 CORPORATE PL	BURLINGTON	HANDLER	VERY SMALL QUANTITY GENERATOR

UNDERGROUND STORAGE TANKS WITHIN WOBURN'S WATER SUPPLY PROTECTION AREAS

FACILITY NAME	ADDRESS	TOWN	DESCRIPTION	CAPACITY (GAL)	CONTENTS
183 CAMBRIDGE ROAD TRUST	183 CAMBRIDGE RD	WOBURN	GAS STATION	8000	GASOLINE
183 CAMBRIDGE ROAD TRUST	183 CAMBRIDGE RD	WOBURN	GAS STATION	6000	GASOLINE
183 CAMBRIDGE ROAD TRUST	183 CAMBRIDGE RD	WOBURN	GAS STATION	6000	GASOLINE
74 CUMMINGS PARK	74 CEDAR ST	WOBURN	INDUSTRIAL	4750	GASOLINE
A L PRIME ENERGY INC	117 PLEASANT ST	WOBURN	GAS STATION	500	WASTE OIL
A L PRIME ENERGY INC	117 PLEASANT ST	WOBURN	GAS STATION	4000	GASOLINE
A L PRIME ENERGY INC	117 PLEASANT ST	WOBURN	GAS STATION	4000	GASOLINE
ANILCA THERAPEUTICS	236 W CUMMINGS PK	WOBURN	INDUSTRIAL	500	WASTE OIL
ANILCA THERAPEUTICS	236 W CUMMINGS PK	WOBURN	INDUSTRIAL	7500	HAZARDOUS
ANILCA THERAPEUTICS	236 W CUMMINGS PK	WOBURN	INDUSTRIAL	7500	HAZARDOUS
CITY OF WOBURN POLICE DEPT	25 HARRISON AVE	WOBURN	MUNICIPAL	6000	GASOLINE
CITY OF WOBURN POLICE DEPT	25 HARRISON AVE	WOBURN	MUNICIPAL	1000	DIESEL

FACILITY NAME	ADDRESS	TOWN	DESCRIPTION	CAPACITY (GAL)	CONTENTS
DOLE & BAILEY INC	16 CONN ST	WOBURN	TRUCK/TRANSPORT	10000	DIESEL
FARRELL'S SERVICE CENTER	146 MAIN ST	WOBURN	GAS STATION	5000	GASOLINE
FARRELL'S SERVICE CENTER	146 MAIN ST	WOBURN	GAS STATION	5000	GASOLINE
FARRELL'S SERVICE CENTER	146 MAIN ST	WOBURN	GAS STATION	5000	GASOLINE
GETTY STATION	325 WASHINGTON ST	WOBURN	GAS STATION	10000	GASOLINE
GETTY STATION	325 WASHINGTON ST	WOBURN	GAS STATION	8000	GASOLINE
GETTY STATION	325 WASHINGTON ST	WOBURN	GAS STATION	6000	GASOLINE
GIBBS SERVICE STATION	107 WINN ST	WOBURN	GAS STATION	10000	GASOLINE
GIBBS SERVICE STATION	107 WINN ST	WOBURN	GAS STATION	10000	GASOLINE
GIBBS SERVICE STATION	107 WINN ST	WOBURN	GAS STATION	10000	GASOLINE
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTR	10000	FUEL OIL
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTR	10000	FUEL OIL
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTR	10000	FUEL OIL

FACILITY NAME	ADDRESS	TOWN	DESCRIPTION	CAPACITY (GAL)	CONTENTS
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTRIBUTOR	10000	FUEL OIL
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTRIBUTOR	10000	GASOLINE
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTRIBUTOR	10000	GASOLINE
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTRIBUTOR	10000	FUEL OIL
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTRIBUTOR	10000	FUEL OIL
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTRIBUTOR	6250	DIESEL
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTRIBUTOR	1500	
GINN OIL COMPANY	57 WINN ST	WOBURN	PETROLEUM DISTRIBUTOR	12000	GASOLINE
MCDERMOTTROE GETTY INC	229 LEXINGTON ST	WOBURN	GAS STATION	4000	GASOLINE
MCDERMOTTROE GETTY INC	229 LEXINGTON ST	WOBURN	GAS STATION	4000	GASOLINE
MCDERMOTTROE GETTY INC	229 LEXINGTON ST	WOBURN	GAS STATION	3000	GASOLINE
MCDERMOTTROE GETTY INC	229 LEXINGTON ST	WOBURN	GAS STATION	3000	GASOLINE

FACILITY NAME	ADDRESS	TOWN	DESCRIPTION	CAPACITY (GAL)	CONTENTS
OLLIES SERVICE CENTER	310 MAIN ST	WOBURN	GAS STATION	6280	GASOLINE
OLLIES SERVICE CENTER	310 MAIN ST	WOBURN	GAS STATION	6280	GASOLINE
OLLIES SERVICE CENTER	310 MAIN ST	WOBURN	GAS STATION	6280	GASOLINE
ROHTSTEIN CORPORATION	70 OLYMPIA AVE	WOBURN	TRUCK/TRANSPORT	10000	DIESEL
SEVEN WALNUT HILL PARK REALTY ST	7 WALNUT HILL PK	WOBURN	TRUCK/TRANSPORT	500	WASTE OIL
SHELL SERVICE STATION	293 CAMBRIDGE ST	WOBURN	GAS STATION	6000	GASOLINE
SHELL SERVICE STATION	293 CAMBRIDGE ST	WOBURN	GAS STATION	8000	GASOLINE
SHELL SERVICE STATION	293 CAMBRIDGE ST	WOBURN	GAS STATION	10000	GASOLINE
SHELL SERVICE STATION	293 CAMBRIDGE ST	WOBURN	GAS STATION	1000	WASTE OIL
WINFIELD BROOKS COMPANY INC	70 CONN ST	WOBURN	INDUSTRIAL	5050	HAZARDOUS
WINFIELD BROOKS COMPANY INC	70 CONN ST	WOBURN	INDUSTRIAL	5050	HAZARDOUS
WINFIELD BROOKS COMPANY INC	70 CONN ST	WOBURN	INDUSTRIAL	5076	HAZARDOUS
WOBURN CAR WASH INC	75 MAIN ST	WOBURN	GAS STATION	10000	GASOLINE

FACILITY NAME	ADDRESS	TOWN	DESCRIPTION	CAPACITY (GAL)	CONTENTS
WOBURN CAR WASH INC	75 MAIN ST	WOBURN	GAS STATION	10000	GASOLINE
O'KEEFE CITGO SERVICE INC	1012 MAIN ST	WINCHESTER	SERVICE STATION	20000	GASOLINE
VERIZON MASSACHUSETTS	954 MAIN ST	WINCHESTER	UTILITIES	2000	DIESEL
VERIZON MASSACHUSETTS	954 MAIN ST	WINCHESTER	UTILITIES	4000	DIESEL
SHELL SERVICE STATION	330 WOBURN ST	LEXINGTON	GAS STATION	12000	GASOLINE
SHELL SERVICE STATION	330 WOBURN ST	LEXINGTON	GAS STATION	12000	GASOLINE
SHELL SERVICE STATION	330 WOBURN ST	LEXINGTON	GAS STATION	12000	GASOLINE
SHELL SERVICE STATION	330 WOBURN ST	LEXINGTON	GAS STATION	1000	WASTE OIL

FOR MORE INFORMATION ON UNDERGROUND STORAGE TANKS, VISIT THE MASSACHUSETTS DEPARTMENT OF FIRE SERVICES WEB SITE:
[HTTP://WWW.STATE.MA.US/DFS/UST/USTHOME.HTM](http://www.state.ma.us/dfs/ust/usthome.htm)

NOTE: THIS APPENDIX INCLUDES ONLY THOSE FACILITIES WITHIN THE WATER SUPPLY PROTECTION AREA(S) THAT MEET STATE REPORTING REQUIREMENTS AND REPORT TO THE APPROPRIATE AGENCIES. ADDITIONAL FACILITIES LOCATED WITHIN THE WATER SUPPLY PROTECTION AREA(S) SHOULD BE CONSIDERED IN LOCAL DRINKING WATER SOURCE PROTECTION PLANNING.

APPENDIX B – Table Of Tier Classified Oil And/Or Hazardous Material Sites Within Woburn Water Supply Protection Areas

DEP's Datalayer Depicting Oil And/Or Hazardous Material (OHM) Sites Is A Statewide Point Data Set That Contains The Approximate Location Of Known Sources Of Contamination That Have Been Both Reported And Classified Under Chapter 21E Of The Massachusetts General Laws. Location Types Presented In The Layer Include The Approximate Center Of The Site, The Center Of The Building On The Property Where The Release Occurred, The Source Of Contamination, Or The Location Of An On-Site Monitoring Well. Although This Assessment Identifies OHM Sites Near The Source Of Your Drinking Water, The Risks To The Source Posed By Each Site May Be Different. The Kind Of Contaminant And The Local Geology May Have An Effect On Whether The Site Poses An Actual Or Potential Threat To The Source.

The DEP's Chapter 21E Program Relies On Licensed Site Professionals (LSPs) To Oversee Cleanups At Most Sites, While The DEP's Bureau Of Waste Site Cleanup (BWSC) Program Retains Oversight At The Most Serious Sites. This Privatized Program Obliges Potentially Responsible Parties And LSPs To Comply With DEP Regulations (The Massachusetts Contingency Plan – MCP), Which Require That Sites Within Drinking Water Source Protection Areas Be Cleaned Up To Drinking Water Standards.

For More Information About The State's OHM Site Cleanup Process To Which These Sites Are Subject And How This Complements The Drinking Water Protection Program, Please Visit The BWSC Web Page At <http://www.streetate.ma.us/dep/bwsc>. You May Obtain Site -Specific Information Two Ways: By Using The BWSC Searchable Sites Database At <http://www.streetate.ma.us/dep/bwsc/site/street.htm>, Or You May Visit The DEP Regional Office And Review The Site File. These Files Contain More Detailed Information, Including Cleanup Status, Site History, Contamination Levels, Maps, Correspondence And Investigation Reports, However You Must Call The Regional Office In Order To Schedule An Appointment To View The File.

The Table Below Contains The List Of Tier Classified Oil And/Or Hazardous Material Release Sites That Are Located Within Your Drinking Water Source Protection Area.

Table 1: Bureau Of Waste Site Cleanup Tier Classified Oil And/Or Hazardous Material Release Sites (Chapter 21E Sites) - Listed By Release Tracking Number (RTN)

RTN	Release Site Address	Town	Contaminant Type
3-0000475	50 Sturgis Street	Woburn	--
3-0000479	Aberjona River Valley	Woburn	--
3-0000534	256 Salem Street	Woburn	Oil
3-0000594	60 Olympia Avenue	Woburn	Hazardous Material
3-0001146	278 Salem Street	Woburn	--
3-0001423	Washington Street	Woburn	Oil
3-0001424	15 Olympia Avenue	Woburn	Oil
3-0002198	252 Salem Street	Woburn	--

RTN	Release Site Address	Town	Contaminant Type
3-0002256	50 High Street	Woburn	--
3-0003951	100 Cambridge Street	Burlington	Oil
3-0004067	325 Washington Street	Woburn	Oil
3-0004250	183 Cambridge Street	Woburn	Oil
3-0010691	263 Salem Street	Woburn	Oil And Hazardous Material
3-0012647	344-400 Cambridge Street	Woburn	Hazardous Material
3-0012279	295 Salem Street	Woburn	Oil
3-0012942	3 Green Street	Woburn	Oil
3-0013604	75 Main Street	Woburn	Oil And Hazardous Material
3-0015002	50 High Street	Woburn	Oil
3-0018789	39 Cedar Street	Woburn	Oil And Hazardous Material
3-0018820	71 Main Street	Woburn	Oil
3-0019134	57 Winn Street	Woburn	Oil
3-0019909	57 Winn Street	Woburn	Oil

For more location information, please see the attached map. The map lists the release sites by Release Tracking Number (RTN).