

Updated Drinking Water Source Protection Plan 2023

Fairfield Town
UTAH25011
Fairfield Spring
WS001

1/8/2024

Prepared by:
Tyler Thomas
Megan Jensen, RWAU

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Executive Summary

1. Introduction

1.1 System Information

System Name: Fairfield Culinary Water System
PWSID Number: 25011
System Address: PO Box 271
Cedar Valley, UT 84013
Phone Number: (801) 921-0833

1.2 Source Information

Name of Source: Fairfield Spring
Source ID Number: WS001
Type of Source: Spring

1.3 Designated Person

Name: Tyler Thomas
Phone Number: (801) 921-0833

2. Delineation Report

No changes have occurred to the delineation.

3. Inventory of Potential Contamination Sources (PCS) (incl. List, hazards, prioritization, location and map)

No changes.

4. Assessment of PCS Hazards

No changes.

5. Management of Existing Potential Contamination Sources

No changes.

6. Management of Future Potential Contamination Sources

No changes.

7. Implementation Schedule

To implement our source protection plan, we sent a letter to the residents living in our delineation zones reminding them that they live in the source protection zones. The letter encouraged them to obey regulations and recommendations on use of pesticides, herbicides, and insecticides. This letter was sent to the residents on December 26, 2023. We are also going to make the source protection plan updates and fact sheets on pesticides, fertilizers, and septic tanks available on our website for the residents to review. The letters are included in the Appendix of this report. I will also include the fact sheets that we are adding to our town's website.

8. Resource Evaluation

No changes.

9. Recordkeeping Section

Records associated with the implementation of this plan are attached in the appendix. Records include:

- Letters sent to our residents
- DEQ Fertilizer Fact Sheet
- DEQ Pesticides Fact Sheet
- DEQ Septic Tank/Drainfield Fact Sheet

10. Contingency Plan

Previously approved by the Division, no changes.

11. Public Notification

Previously approved by Division, no changes.

12. Waivers

Fairfield Town currently has Reliability and Consistency Waivers for this spring source.

Appendix



Fairfield School House, 1898

Fairfield Town
Established 1855 - Incorporated 2004
Water Department
PO BOX 271
Fairfield, UT 84013

December 21, 2023

AULT - LOUIS O
14394 S 3450 W
BLUFFDALE, UT
84065

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear AULT - LOUIS O:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

We encourage you to practice safe management practices with regard to the use of all hazardous substances. Materials such as pesticides, herbicides, and fertilizer should be stored, mixed, and used in strict accordance with regulations and recommendations. Accidental spills of any hazardous material should be cleaned up quickly in accordance with the information provided in appropriate material safety data sheets and local, state, and federal regulations. Please notify me at the phone number listed below if a spill of hazardous material should occur within our source protection area.

Thank you for helping us to protect our valuable drinking water system. By working together, we can ensure that Fairfield Town continues to enjoy a safe and adequate supply of water for many years to come. If you would like to review our Drinking Water Source Protection Plan for the Fairfield Spring, it is available at the Town offices. If you have questions or concerns about this letter, please contact me at (801)921-0833.

Sincerely,

Tyler Thomas
Fairfield Town Water System
fairfieldtownwater@gmail.com



Fairfield School House, 1898

Fairfield Town

Established 1855 - Incorporated 2004

Water Department

PO BOX 271
Fairfield, UT 84013

December 21, 2023

WARNER - SHERIE A
PO BOX 1274
AMERICAN FORK, UT
84003

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear
WARNER - SHERIE A):

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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Sincerely,

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Fairfield Town Water System
fairfieldtownwater@gmail.com



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Water Department

PO BOX 271
Fairfield, UT 84013

December 21, 2023

TOWN OF FAIRFIELD
PO BOX 271
CEDAR VALLEY, UT
84013

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear Fairfield Town:

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fairfieldtownwater@gmail.com



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PO BOX 271
Fairfield, UT 84013

December 21, 2023

CARSON - SEAN & DUSTIN LANE
774 W 425 N
LINDON, UT
84042

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear CARSON - SEAN & DUSTIN LANE:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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fairfieldtownwater@gmail.com



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Water Department
PO BOX 271
Fairfield, UT 84013

December 21, 2023

BUNDY - DARWIN KENT & LISE DRU (ET AL)
383 W BIG SPRINGS DR
FAIRFIELD, UT
84013

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear BUNDY - DARWIN KENT & LISE DRU:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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Water Department
PO BOX 271
Fairfield, UT 84013

December 21, 2023

HOLEWINSKI - MELISSA & ROBERT
8481 N WESTERN GAILES DR
EAGLE MOUNTAIN, UT
84005

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear HOLEWINSKI - MELISSA & ROBERT:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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fairfieldtownwater@gmail.com



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Water Department
PO BOX 271
Fairfield, UT 84013

December 21, 2023

KOFFORD - CREE-L & ILA JEAN MACDONALD (ET AL)
4334 S FOOTHILL DR
BOUNTIFUL, UT
84010

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear KOFFORD - CREE-L & ILA JEAN MACDONALD:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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Sincerely,

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Fairfield Town Water System
fairfieldtownwater@gmail.com



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Fairfield Town
Established 1855 - Incorporated 2004
Water Department
PO BOX 271
Fairfield, UT 84013

December 21, 2023

JDH FAIRFIELD LLC
1450 W 1850 N
LEHI, UT
84043

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear JDH FAIRFIELD LLC:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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fairfieldtownwater@gmail.com



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Water Department

PO BOX 271
Fairfield, UT 84013

December 21, 2023

CARSON - VERN R & CARLENE
212 N SR 73
FAIRFIELD, UT
84013

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear CARSON - VERN R & CARLENE:

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Water Department
PO BOX 271
Fairfield, UT 84013

December 21, 2023

CENTRAL VALLEY WATER RECLAMATION FACILITY
800 W CENTRAL VALLEY RD
SALT LAKE CITY, UT
84119

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear CENTRAL VALLEY WATER RECLAMATION FACILITY:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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Sincerely,

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Fairfield Town Water System
fairfieldtownwater@gmail.com



Fairfield School House, 1898

Fairfield Town

Established 1855 - Incorporated 2004

Water Department

PO BOX 271
Fairfield, UT 84013

December 21, 2023

MCKINNEY - SHEILA COOK
PO BOX 375
CEDAR FORT, UT
84013

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear MCKINNEY - SHEILA COOK:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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fairfieldtownwater@gmail.com



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Fairfield Town
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Water Department
PO BOX 271
Fairfield, UT 84013

December 21, 2023

LDA FAMILY TRUST 01-29-2015 THE (ET AL)
3361 W 10000 S
SOUTH JORDAN, UT
84095

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear LDA FAMILY TRUST 01-29-2015 THE:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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fairfieldtownwater@gmail.com



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Fairfield Town
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Water Department
PO BOX 271
Fairfield, UT 84013

December 21, 2023

L&V AULT PROPERTIES LLC
951 E 100 S
PLEASANT GROVE, UT
84062

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear L&V AULT PROPERTIES LLC:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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Water Department
PO BOX 271
Fairfield, UT 84013

December 21, 2023

LVN ESTATES LLC
7226 S 2825 E
SALT LAKE CITY, UT
84121

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear LVN ESTATES LLC:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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December 21, 2023

HOLEWINSKI - MELISSA & ROBERT
8481 N WESTERN GAILES DR
EAGLE MOUNTAIN, UT
84005

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

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Water Department
PO BOX 271
Fairfield, UT 84013

December 21, 2023

WHITE HILLS WATER COMPANY INC
5006 S WANDER LN
HOLLADAY, UT
84117

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear WHITE HILLS WATER COMPANY INC:

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Water Department

PO BOX 271
Fairfield, UT 84013

December 21, 2023

UNITED STATES OF AMERICA
2370 S 2300 W
SALT LAKE CITY, UT
84119

Re: Fairfield Spring Source Protection Plan
Fairfield Town Water System

Dear UNITED STATES OF AMERICA:

Fairfield Town has recently completed an updated Drinking Water Source Protection Plan in an effort to protect our public drinking water system. The updated plan includes a new delineation area, which varies from the previously approved plans. Records show that you currently own property that falls within the boundaries of the source protection area. As such, it is important for you to be aware that what you do or what happens on your property could affect the quality of water our system uses.

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Tyler Thomas
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Partnership for the Environment

Utah Department of Environmental Quality

Fertilizer Fact Sheet

What Are The Potential Hazards?

Fertilizer applied to plants during crop, lawn, and garden maintenance may leach into the ground water and cause contamination. The main constituent in fertilizer is usually nitrogen. If the nitrate level of drinking water is too high, infants, up to the age of six months, can develop a fatal disease called blue baby syndrome (methemoglobinemia). Drinking water that contains 10 milligrams of nitrate-nitrogen per liter of water exceeds the drinking water standard and should not be used, especially for infant formula. Proper storage, application, and watering procedures should be included in fertilizer best management practices to prevent contamination of ground water.

Storing Fertilizers

The less fertilizer you buy, the less you will have to store. Therefore, only purchase the amount and kind of fertilizer that you need.

- Fertilizer should be stored in locked, dry cabinets.
- Keep fertilizer and pesticides on separate shelves.
- Don't store fertilizer with combustibles, such as gasoline or kerosine, because of explosion hazards.

Application Precautions

The chemical in fertilizer that can most easily pollute ground water is a form of nitrogen called nitrate. Nitrate moves readily in soil to the ground water strata. The best way to prevent the movement of nitrate into the ground water is to apply no more nitrogen than the crops, grass, garden plants, shrubs, or trees can use during the time that the plants are growing.

- Calibrate your spreader and sprayer to keep from applying too much fertilizer.
- Load fertilizer spreaders on the driveway or other hard surfaces so any spills can easily be swept up. Fertilizer that spills should be swept up and applied to the lawn or garden at the right time and amount. This allows the fertilizer to grow plants instead of washing off into the storm drain system and ultimately contaminating nearby streams and lakes.
- If you are using liquid fertilizer on your turf, add fertilizer to the spray tank while on the lawn. This way, if you spill the fertilizer, it will be used by the plants and not run off into the storm drain system.
- Do not spray or apply fertilizer near irrigation wells. Wells are conduits to the ground water.

Application Rates For Lawns

Utah State University's Extension Service recommends the following for Utah lawns: "It is important to fertilize on a regular basis every four to six weeks to maintain an attractive lawn. Begin

when lawns start to green in the spring, mid to late April. Earlier applications may cause a lawn to become greener faster, but may also increase spring disease problems. Summer applications of nitrogen fertilizer will not burn lawns, if you apply them to dry grass and water immediately. Fall applications are important for good winter cold tolerance, extended fall color, and fast spring green-up. A complete fertilizer containing nitrogen, phosphorus and potassium should be applied in the fall every three to four years. This will prepare the lawn for winter conditions and allow the phosphorus to penetrate into the root zone by the next growing season.

For a well-kept lawn in Utah, apply 1 pound of available nitrogen per 1,000 square feet each four to six weeks throughout the growing season. The following chart indicates how much of various fertilizer will supply one pound of nitrogen.”

%N on Label	Pounds of Fertilizer Per 1000 Square Feet
12-15	7-8
18-21	5-5 ½
24-28	3 ½-4
30-34	3-3½
45-46	2-2 ¼

Types of Plants

One of the best ways to protect your ground water is to use plants that are drought-tolerant and that are adapted to your area. Drought-tolerant or low-water-use plants can continue to survive once they are established, even during times of little rainfall. Because you do not have to water these plants, there is less chance that nitrate and pesticides will be carried with the water through the soil and into the ground water.

If low-water-use plants are not practical, then try to use medium water use plants. Water these plants only when they begin to show drought stress. Some plants will wilt when they are drought-stressed, while other plants will show marginal leaf burn.

Watering

Over-watering plants can cause excess water to move through the soil. This water can flush fertilizer away from the root zone of your plants and into the ground water. The best way to avoid over-watering is simply to measure how much you are adding. Contact your county Extension Service to determine the best way to calculate how much water your plants need and how to measure the amount you are applying.

For More Information, Contact:

Division of Drinking Water, Source Protection Program - (801) 536-4200
Department of Agriculture - (801) 538-7100
Environmental Hotline - 1-800-458-0145
Sonja Wallace, Pollution Prevention Coordinator - (801) 536-4477



Partnership for the Environment

Utah Department of Environmental Quality

Pesticides Fact Sheet

What Are The Potential Hazards?

Pesticides applied to plants during crop, lawn, and garden maintenance may leach into the ground water and cause contamination. Proper storage, mixing, application, spill cleanup, watering, and disposal procedures should be included in pesticide best management practices.

Storing Pesticides

The fewer pesticides you buy, the fewer you will have to store. Therefore, only purchase the amount and kind of pesticide that is needed. Pesticides should always be stored in sound, properly labeled, original containers. ***Sound containers are the first defense against spills and leaks.***

- Ensure that there are no holes, tears, or weak seams in the containers and that the label is readable.
- Pesticides should be stored in locked, dry cabinets.
- Be sure to store dry products above liquids to prevent wetting from spills.
- Storage and mixing areas should not be located near floor drains of any kind.
- Storage facilities should have secondary containment, such as a berm or dike, which will hold spills or leaks at:
 1. 10% of the total volume of the containers, or
 2. 110% of the volume of the largest container, whichever is larger.

Mixing Pesticides

- Mix pesticides on an impermeable surface, such as concrete, so any spills will be contained.
- Mix only the amount that you will use:
 1. Measure the total square feet you intend to treat.
 2. Read the label on the pesticide container and follow the instructions. (These are often given in terms of amount of pesticide to use per thousand square feet.)
 3. By properly measuring and calculating, there should be little or no pesticide left in the spray tank when the job is finished and it will be applied at the recommended rate.

Applying Pesticides

Pesticides are used to kill or control weeds (herbicides), insects (insecticides) and fungi (fungicides) that attack plants. Some of these pesticides can move through the soil and into the ground water. Guidelines for the safe use of pesticides are listed below:

- Be willing to accept a low level of weed, insect, and plant disease infestation.

- Use pesticides only when absolutely necessary.
- Identify pests correctly. Use the proper pesticides.
- Read and follow the directions printed on the container labels. Remember, *the label is the law*.
- Calibrate your spreader and sprayer to keep from applying too much pesticide.
- Do not spray or apply pesticides near irrigation wells. Wells are conduits to the ground water.
- Do not spray or apply pesticides near your walks and driveway. This prevents them from washing off into the storm drain system.

Cleaning Up Spills

- Dry formulated pesticide spills should be swept up and applied to crops, lawns, and gardens at the rate specified on the label.
- Liquid pesticide spills should be soaked up using absorbent material (such as, soil, sawdust, and cat litter). The contaminated absorbent material should then be put in a sealed container and taken to a household hazardous waste collection site.

Watering

Over-watering your plants can cause excess water to move through the soil. This water can carry pesticides that can contaminate the ground water. The best way to avoid over-watering is simply to measure how much you are adding. Contact your county Extension Service to determine the best way to calculate how much water your plants need and how to measure the amount you are applying.

Disposing of Pesticides

If the pesticide was properly measured and mixed, there should be little or no spray left in the tank. The little that may be left can be safely sprayed over the area that was treated until it is gone. Disposal of “empty” pesticide containers and unused pesticides should be handled as follows:

- If you are using liquid pesticides, rinse the container three times. Be sure to pour the rinsing into your sprayer and not down a drain or onto the ground. Containers which have been emptied and rinsed can be discarded in the trash.
- Unused pesticides in their original containers can be recycled at household hazardous waste collection sites.

For More Information, Contact:

Division of Drinking Water, Source Protection Program - (801) 536-4200

Department of Agriculture - (801) 538-7100

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Partnership for the Environment

Utah Department of Environmental Quality

Septic Tank/Drainfield System Fact Sheet

What Are The Potential Hazards?

Septic systems can contaminate ground water if they are misused, improperly maintained, or improperly constructed. The major contaminant discharged from septic systems is disease-causing germs. These germs (bacteria and viruses) - can cause many human diseases. Another contaminant discharged from septic systems is nitrogen in the form of nitrate. If the nitrate level of drinking water is too high, infants, up to the age of six months old, can develop a fatal disease called blue baby syndrome (methemoglobinemia). Additionally, if toxic chemicals are disposed in a septic system, they can percolate through the drainfield and into the ground water.

How Does A Septic Tank/Drainfield System Work?

The basic septic system is composed of a septic tank followed by a drainfield. Wastewater flows out of the house and into the septic tank through the building sewer pipe. Once in the septic tank, most solids in the wastewater settle to the bottom of the tank to form a sludge layer. Other solids float and form a scum layer on top of the wastewater. Some decomposition of solid material takes place here, but the primary function of a septic tank is to trap solids and prevent them from entering the drainfield.

Wastewater treatment is restricted to a rather thin zone of unsaturated soil underlying the drainfield. Many of the harmful bacteria and microbes are filtered out as the wastewater passes through this soil. Some of the smaller microbes (viruses) and nutrients such as phosphorus and some forms of nitrogen are trapped and held (adsorbed) by soil particles. Once the effluent reaches the groundwater table, little treatment occurs. Soils can differ markedly in their pollutant removal efficiency. The ability to which soil can remove pollutants in the wastewater determines how many impurities will eventually reach the groundwater beneath the drainfield.

Site Evaluation And Construction

Current rules require a comprehensive evaluation of the soil and ground water before a septic system can be permitted for construction in a given location. This evaluation must be reviewed and approved by the local health department. The rules require that the bottom of the drainfield trenches be placed at least 12 inches (preferably 24 inches) above the water table. Additionally, there must be adequate amounts of unsaturated soil beneath the trenches to allow sufficient treatment of the wastewater.

Site Considerations

- Trees and deep-rooted shrubs should be as far away from the system as possible.
- Keep the water that runs off of foundation drains, gutters, driveways, and other paved areas away from the drainfield of your septic system.

- Keep the soil over the drainfield covered with grass to prevent soil erosion.
- Don't drive vehicles over the system.
- Don't cover the tank or drainfield with concrete or asphalt and don't build over these areas.

Proper Disposal Practices

- Use only a moderate amount of cleaning products and do not pour solvents or other household hazardous waste down the drains.
- Garbage disposals should not be used because they tend to overload the system with solids. If you have one, you should severely limit its use.
- Do not pour grease or cooking oil down the sink.
- Do not put items down the drain that may clog the septic tank or other parts of the system. These items include cigarette butts, sanitary napkins, tampons, condoms, disposable diapers, paper towels, egg shells, and coffee grounds.

Water Conservation

There are limits to the amount of wastewater a septic system can treat. If you overload the system, wastewater may backup into your home or surface over your drainfield. Problems caused by using too much water can occur periodically throughout the year or be seasonal. For example, the soil beneath your drainfield is wetter in the spring than it is in the summer and its capacity to percolate wastewater is somewhat diminished. If you wash all your laundry in one day, you may have a temporary problem caused by overloading the soil's capacity to percolate wastewater for that day. To reduce the risk of using too much water, try the following:

- Use 1.6 gallons (or less) per flush toilets.
- Fix leaking toilets and faucets immediately.
- Use faucet aerators at sinks and flow reducing nozzles at showers.
- Limit the length of your shower to 10 minutes or less.
- Do not fill the bathtub with more than 6 inches of water.
- Do not wash more than one or two loads of laundry per day.
- Do not use the dishwasher until it is full.

Septic Tank Cleaning

It is recommended that the solids that collect in your septic tank be pumped out and disposed at an approved location every three to five years. If not removed, these solids will eventually be discharged from the septic tank into the drainfield and will clog the soil in the absorption trenches. If the absorption trenches are clogged, sewage will either back up into the house or surface over the drainfield. If this happens, pump the tank will not solve the problem and a new drainfield will probably need to be constructed on a different part of the lot.

For More Information, Contact:

Division of Drinking Water, Source Protection Program - (801) 536-4200

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