

# Source Water Overview

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Idaho Department of Environmental Quality



# Source Water

Defined as “any aquifer, surface water body, or watercourse from which water is taken either periodically or continuously by a public water system for drinking or food processing purposes”

*Idaho Source Water Assessment Plan*



# Source Water Protection

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- Source water protection consists of **voluntary or regulatory** programs and activities implemented at the local level that enhance and protect public drinking water sources.
- Reduces the risk of contaminants entering a public water system supply.





# What if it becomes contaminated?

## Thousands Without Water After Spill in West Virginia

By TRIP GABRIEL JAN. 10, 2014



In Charleston, W.Va., residents woke up to news that their water was contaminated. Some waited in lines to collect water from tankers delivered by the National Guard. Ty Wright for The New York Times

CHARLESTON, W.Va. — As 300,000 people awoke on Friday to learn that their tap water was unsafe for brushing teeth, brewing coffee or showering, residents and businesses expressed a mix of anger and anxiety in coping with an industrial accident with no clear end in sight.

Schools were closed, restaurants locked their doors and hotels refused reservations. Store shelves were quickly stripped of bottled water, and traffic snarled as drivers waited to fill jugs from tankers delivered by the National Guard.

"It's worrying me so much I'm having chest pains," said Cookie Lilly, 74, who waited with her husband to get a ration of four gallons of water at the South Charleston Community Center.

## Nitrate Rising in Snake River Aquifer

SATURDAY, JANUARY 31, 2015  
SAT, JAN 31, 2015 AT 12:13 PM



DEQ.IDAHO.GOV

Survey found that pollution is increasing in the Snake River aquifer, of Idahoans.

at USGS hydrologist Kenneth Skinner says the Snake River aquifer is rate from agricultural fertilizers and dairies is growing. Nitrate can for young children, when found in drinking water.

found that four percent of the testing locations have levels that as with the greatest nitrate concentrations, according to Skinner,

that area, but the ground water there is just moving along slowly," have time to hit the ground water table and start working their r people."

s farmers improve their practices, but it will take a long time for

arming and the dairy men all went away, how long would it said. "And in [Minidoka County] it was about 40 or 50 years to

ears, an even bigger slice of Minidoka County as well as a e facing undrinkable water.

the form of spent nuclear fuel that may be deposited at the

wa cities,

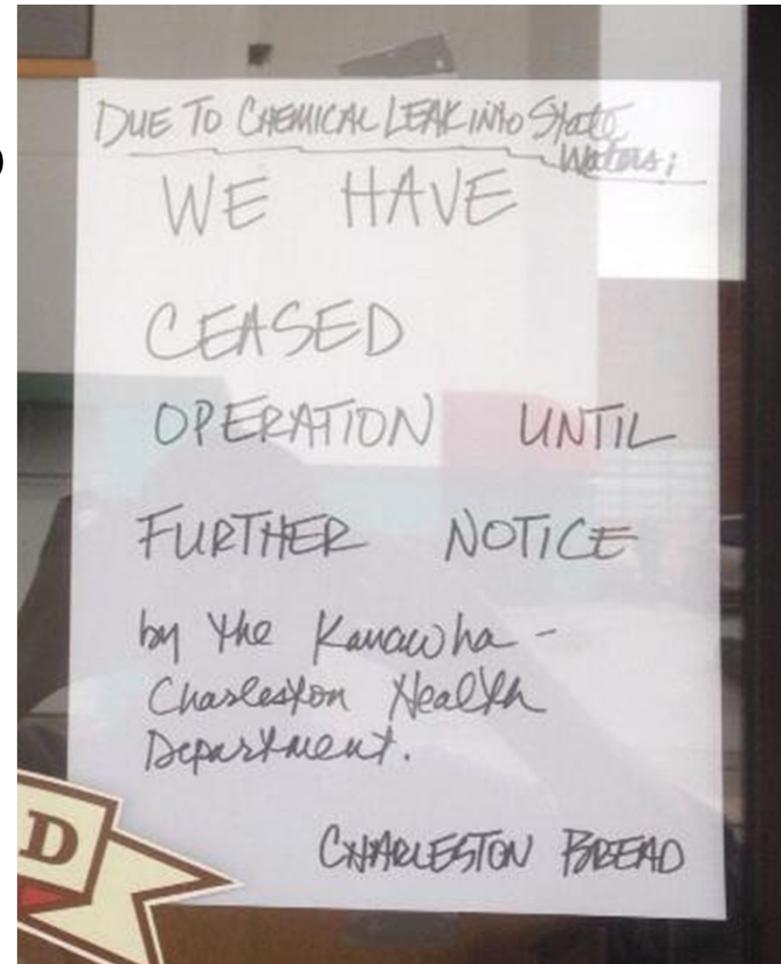


<http://www.youtube.com/watch?v=XzfdGnEbyD4>

# Communities Depend on Safe Drinking Water

All communities depend on clean drinking water supplies to protect and enhance:

- Public health
- Environmental quality
- Economic development
- Public trust
- Quality of life



# Costs and Benefits of Protection

## Cost of Contamination:

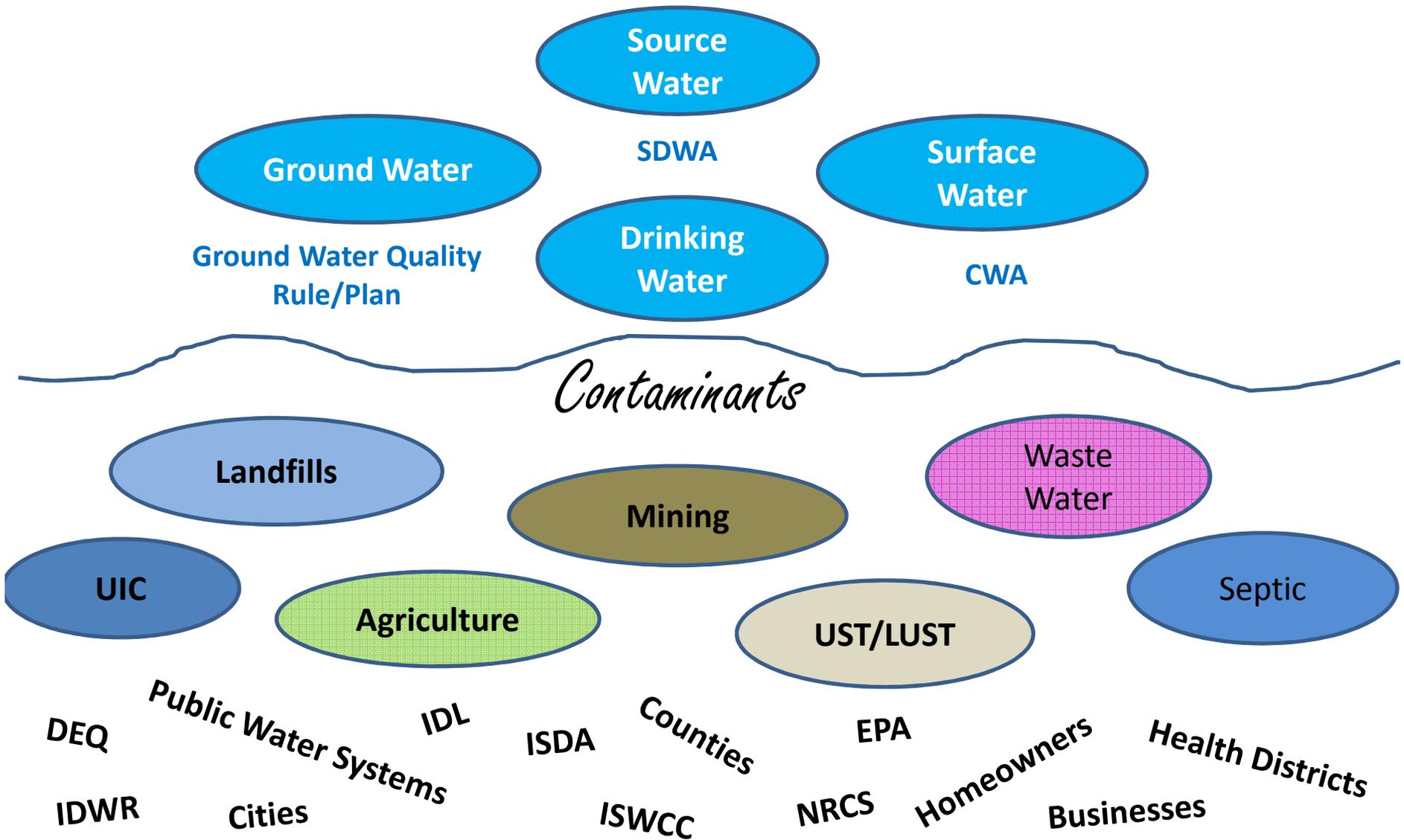
- Treatment , clean-up and remediation
- Source replacement
- Decommissioning wells
- Additional regulations and monitoring requirements
- Loss of property values
- Health related costs
- Loss of public trust

## Benefits of Protection:

- Reduced health risks
- Reduced treatment costs
- Healthy ecosystems and recreational benefits
- Public and consumer confidence
- Economic benefits, increased property value



**Who Is Responsible for SWP?**



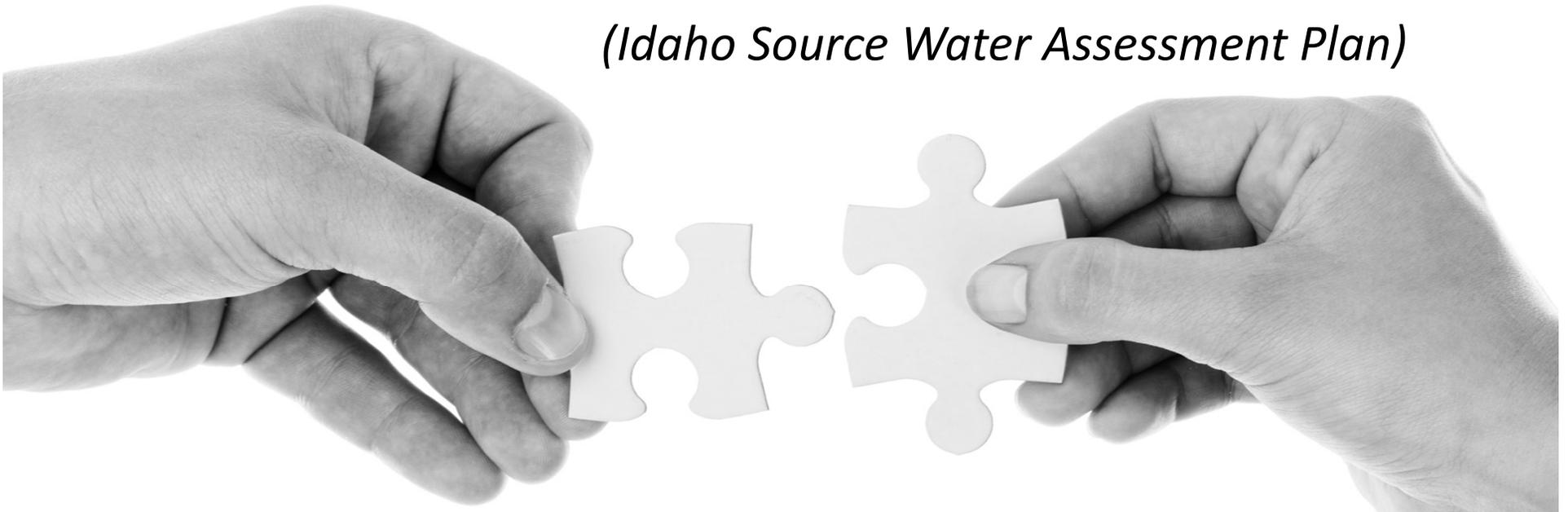
# Who Is Responsible for SWP?

# Everyone Plays a Role in Protection

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A variety of entities and agencies at the federal, state and local level have unique roles and responsibilities in source water protection.

*(Idaho Source Water Assessment Plan)*



# Everyone Plays a Role in Protection

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- Federal Government
- State Agencies
- Local Governments
- Businesses and Industry
- Public/Homeowners
- PWS



# DEQs Role

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- Drinking Water Program
- Source Water Protection Program
- Ground Water Program
- Nonpoint Management Program (319)
- Surface Water Program
- Wastewater Program
- UST LUST Program
- Hazardous Waste
- Solid Waste
- Remediation
- Brownfields Program
- Pollution Prevention



# DEQ Programs to Protect Drinking Water



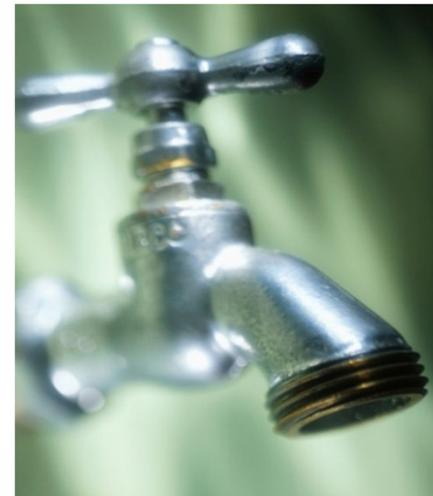
## Source Water Program:

Protect drinking water at the source

- Conduct Source Water Assessments
- Coordinate state protection efforts

## Drinking Water Program:

Protect drinking water at the tap



# Safe Drinking Water Act Amendments

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- 1986 Wellhead Protection Program
- 1996 Source Water Protection Program



# What is a Source Water Assessment (SWA)?

- **Delineation:** Maps area contributing water to the drinking water source
- **Potential Contaminant Inventory:** Identifies potential threats to the source
- **Susceptibility Analysis:** Ranks the susceptibility of the source to contamination



# Delineation

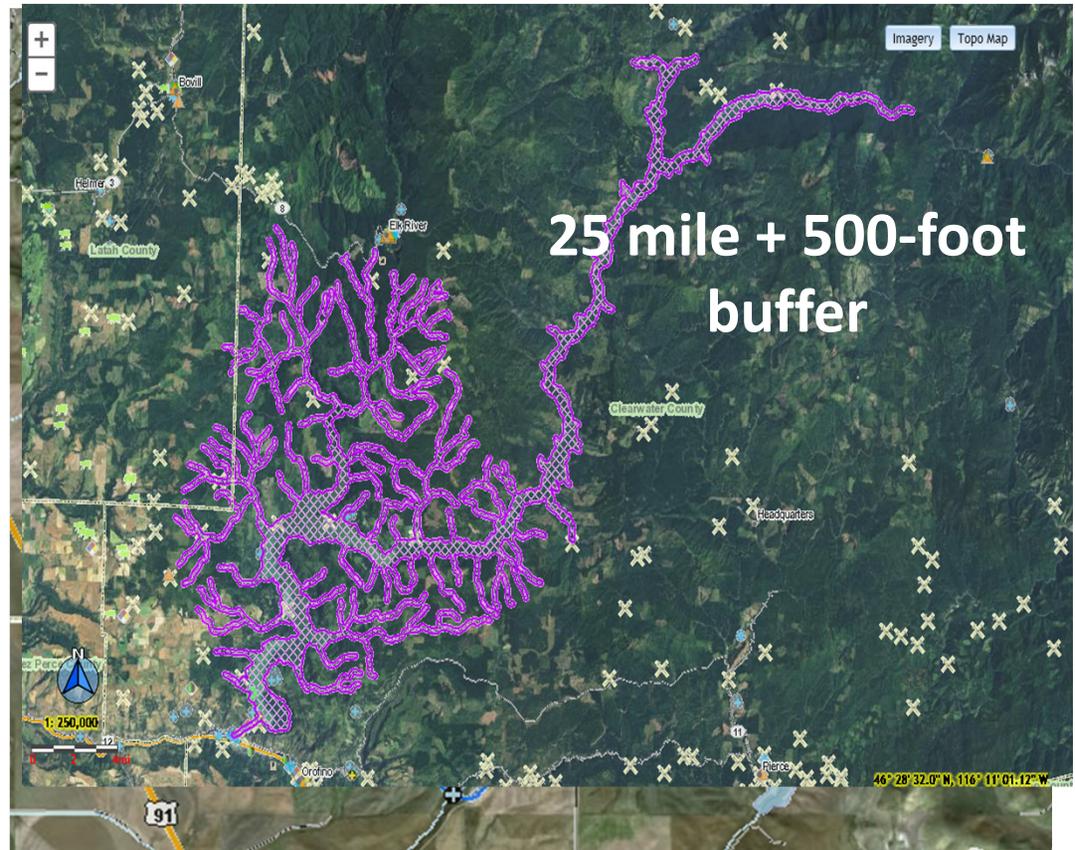
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- Identify the areas that contribute water to a particular water source used as a public water supply (**zone of contribution**).
- Delineation method depends on type of source and type of PWS.
- Delineation becomes the focus area for protection efforts.



# SWA Delineation – Surface Water Methods

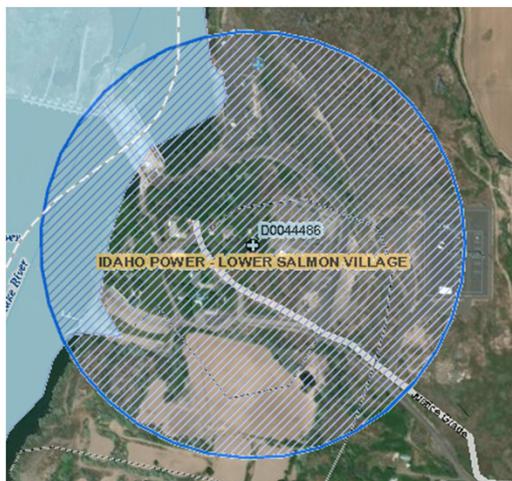
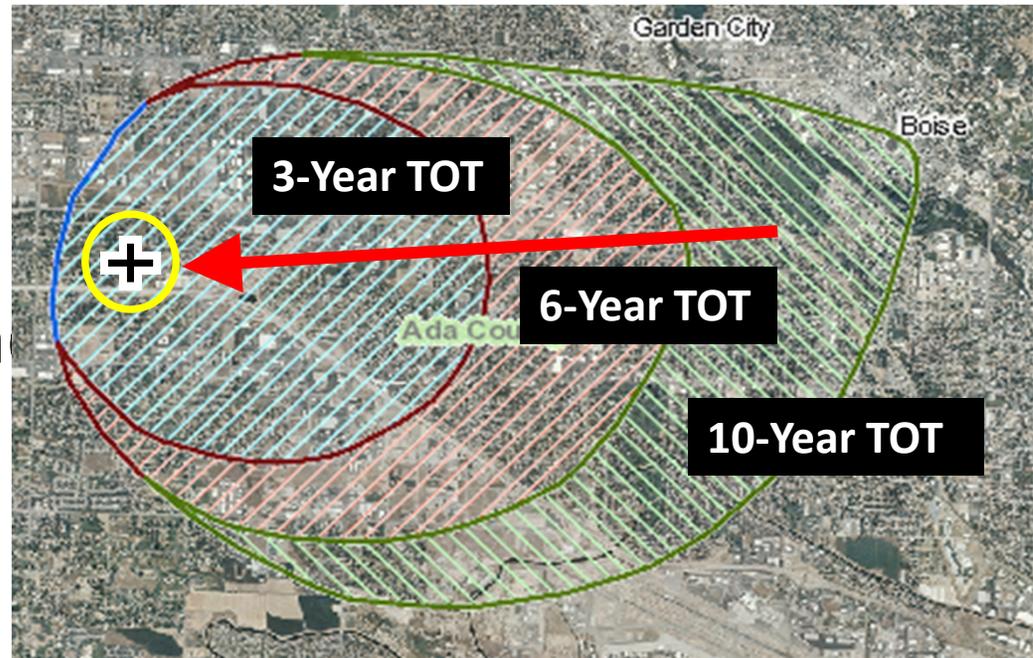
- Watershed boundaries
  - Small watersheds
- 25 miles upstream using a 4-hour stream flow and a 500 foot buffer on each side of the river/stream.
- Large watersheds



# SWA Delineation – Ground Water Methods

## Analytical Method

- Ground water flow model to determine flow direction and time of travel (TOT) zones

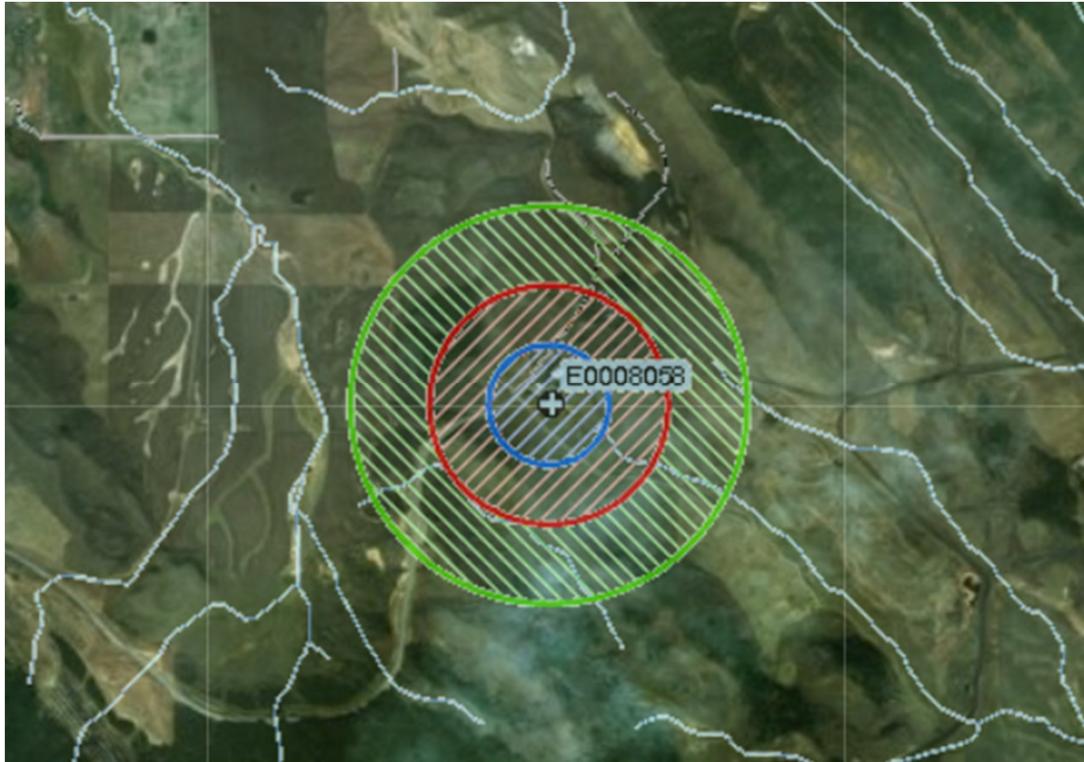


## Fixed Radius

- 1000-foot radius



# GW Delineations (cont.)



## Calculated Fixed Radius:

- No site specific info
- Standard pumping rates for each TOT



# Potential Contaminant Identification

- Identify past practices and discharges
- Look for the major sources of potential contaminants
- Primary and Enhanced Inventories



# Potential Contaminant Inventory

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- Helps evaluate the overall contaminant risk to the drinking water supply.
- Identifies potential contaminant sources that can be managed at the local level as part of the voluntary source water protection program.



# Susceptibility Analysis

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Evaluates the conditions in the delineated area to determine the potential for contaminants to impact water quality at the source.

- Hydrologic Sensitivity
- Potential Contaminant Source/Land Use
- System Construction



# Susceptibility Score

- Ranking of high, medium, or low.

Susceptibility Scores for BLIMPIES (PWS# ID4010012) WELL #1 E0009036									
System Construction	Potential Contaminant Inventory / Land Use				Hydrologic Sensitivity	Final Susceptibility Scores			
	<i>IOC</i>	<i>VOC</i>	<i>SOC</i>	<i>Microbials</i>		<i>IOC</i>	<i>VOC</i>	<i>SOC</i>	<i>Microbials</i>
M	M	M	M	M	H	H	H	H	M
H = high susceptibility, M = moderate susceptibility, L = low susceptibility.									
Auto High - see below.*									
<a href="#">View Report Summary</a>	<a href="#">View Interactive Map</a>	<a href="#">View Static Map</a>			<a href="#">View PCI Table</a>	<a href="#">View Score Details</a>			



# Susceptibility Analysis

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- The susceptibility analysis provides information that a community or water system can use to evaluate potential risks.
- The rankings can then be used to set priorities for source water protection efforts.



# SWA Online

Protecting Public Health and the Environment

**IDAHO** Department of Environmental Quality  
SWA Online

Home About Acronyms And Glossary Contacts

## About the Source Water Assessment Database

The U.S. Environmental Protection Agency (EPA) requires the Idaho Department of Environmental Quality (DEQ) to assess every public water system in Idaho for its relative susceptibility to contaminants that are regulated by the federal Safe Drinking Water Act. DEQ conducts source water assessments based on a land use inventory of the delineated source water assessment area, sensitivity factors associated with the drinking water source, and local aquifer characteristics. The ultimate goal of each source water assessment is to provide data that communities can use to develop protection strategies for their drinking water sources.

The resources and time available to accomplish source water assessments are limited. Therefore, an in-depth, site-specific investigation to identify each significant potential source of contamination for every public water system is not possible. The results of source water assessments should not be used as an absolute measure of risk, nor should they be used to undermine public confidence in the public water system. A particular susceptibility score does not imply that any regulatory or legal actions will occur. This report is intended to summarize information about public water systems in Idaho. Using or distributing the data contained in this report in a form other than that in which it is presented may inaccurately portray the data.

DEQ strongly encourages each public water system and community to use its source water assessment, combined with local knowledge and concerns, to develop strategies to protect drinking water sources. Multiple resources are available to help communities implement drinking water source protection programs, including EPA's [Drinking Water Academy](#). Drinking water source protection activities for agriculture should be coordinated with the Idaho State Department of Agriculture, the Idaho Soil and Water Conservation Commission, the local Soil and Water Conservation District, and the Natural Resources Conservation Service.

For assistance in developing protection strategies, contact your local DEQ Regional Office or the Idaho Rural Water Association.

[Go to search page](#) to search the source water assessment database.



[www.deq.idaho.gov/water/swaonline](http://www.deq.idaho.gov/water/swaonline)



## Welcome to SWA Online

Welcome to Idaho Source Water Assessment (SWA) Online! For more information about SWAs and Public Water Systems (PWS) [click here](#). Use the search fields below to find SWA data for public water systems in Idaho. Or you can search using the [State Dynamic Map](#).

You do not need to use a wildcard to search below. You can enter partial information as search criteria, and all search results containing that criteria will be returned.

### Search

Public Water System (PWS) Name:

Public Water System (PWS) Number:

Source Tag Number:

or by:

County:

Type of Water Source:

Exclude Inactive Sources in Search Results:

## Search

Public Water System (PWS) Name:

Public Water System (PWS) Number:

Source Tag Number:

or by:

County:

Type of Water Source:

Exclude Inactive Sources in Search Results:

**Search**

Show  entries

Search:

PWS # ▲	PWS Name ▲	Source Name ▲	Status ▲	County ▲					
ID5270007	HAZELTON CITY OF	WELL #1	Inactive	JEROME	<a href="#">Susceptibility Summary</a>	<a href="#">Potential Contaminants</a>	<a href="#">Dynamic Map</a>	<a href="#">Static Map</a>	<a href="#">Summary Report</a>
ID5270007	HAZELTON CITY OF	WELL #3	Active	JEROME	<a href="#">Susceptibility Summary</a>	<a href="#">Potential Contaminants</a>	<a href="#">Dynamic Map</a>	<a href="#">Static Map</a>	<a href="#">Summary Report</a>
ID5270007	HAZELTON CITY OF	WELL #2	Inactive	JEROME	<a href="#">Susceptibility Summary</a>	<a href="#">Potential Contaminants</a>	<a href="#">Dynamic Map</a>	<a href="#">Static Map</a>	<a href="#">Summary Report</a>
ID5270007	HAZELTON CITY OF	WELL #4	Active	JEROME	<a href="#">Susceptibility Summary</a>	<a href="#">Potential Contaminants</a>	<a href="#">Dynamic Map</a>	<a href="#">Static Map</a>	<a href="#">Summary Report</a>
ID5270008	HAZELTON HOUSING AUTHORITY	WELL	Active	JEROME	<a href="#">Susceptibility Summary</a>	<a href="#">Potential Contaminants</a>	<a href="#">Dynamic Map</a>	<a href="#">Static Map</a>	<a href="#">Summary Report</a>

Showing 1 to 5 of 5 entries

First 1 Last

## Source Water Assessment Summary Report: HAZELTON CITY OF (PWS# ID5270007) WELL #3 A0004290

## Introduction

[Submit a Comment](#) [Print Summary Report](#)

The US Environmental Protection Agency (EPA) requires the Idaho Department of Environmental Quality (DEQ) to assess every public water system in Idaho for its relative susceptibility to **contaminants** that are regulated by the federal Safe Drinking Water Act. DEQ conducts source water assessments based on an inventory of potential contaminants and land uses within the delineated source water assessment area, construction of the well, sensitivity factors associated with the drinking water source, and local aquifer characteristics. The ultimate goal of each source water assessment is to provide data that communities can use to develop protection strategies for their drinking water sources.

The resources and time available to accomplish source water assessments are limited. Therefore, an in-depth, site-specific investigation to identify each significant potential source of contamination for every public water system is not possible. Instead, DEQ uses computer databases and geographic information system (GIS) maps to produce a potential contaminant inventory that can then be built upon by the system or other stakeholder with an on-the-ground investigation. The results of source water assessments should not be used as an absolute measure of risk, nor should they be used to undermine public confidence in the public water system. A particular susceptibility score does not imply that any regulatory or legal actions will occur. This report is intended to summarize information about public water systems in Idaho. Using or distributing the data contained in this report in a form other than that in which it is presented may inaccurately portray the data.

DEQ strongly encourages each public water system and community to use its source water assessment, combined with local knowledge and concerns, to develop strategies to protect drinking water sources. Multiple resources are available to help communities implement drinking water source protection programs, including DEQ's [Source Water Protection Activity Guide](#) and source water protection plan template (coming soon).

Various governmental entities and organizations also play a role in protecting drinking water sources in Idaho and can be a resource for protection efforts. Drinking water source protection activities should be coordinated with these entities to maximize results and leverage resources. For example, activities related to agricultural practices should be coordinated with the [Idaho State Department of Agriculture](#), [Idaho Soil and Water Conservation Commission](#), [local soil and water conservation districts](#), and [Natural Resources Conservation Service](#). Visit the [Idaho Source Water Collaborative](#) website for more information on potential partners and resources.

For assistance in developing protection strategies, contact DEQ's [TWIN FALLS REGIONAL OFFICE](#) or the [Idaho Rural Water Association](#).

This report was completed April 20, 2004. Potential contaminant information was updated on August 11, 2016.

## What Was Assessed

This report evaluates HAZELTON CITY OF (PWS# ID5270007) WELL #3 A0004290 located in JEROME county. The system serves approximately 753 people through 271 connections.

## Defining the Source Water Assessment Area

The first step of a source water assessment is to delineate the source water assessment area. The delineation process includes mapping the boundaries of the land area above the aquifer that could contribute water and pollutants to the water supply. The boundaries also illustrate areas of the aquifer that supply water to the well. Up to three separate TOT zones are established. TOT represents the number of years necessary for a particle of water to travel in the aquifer to reach the well.

The following three TOT zones are mapped:

- Zone I
  - Zone IA refers to the sanitary setback, or the 50-foot radius around the well. The goal of this zone is to prevent contamination from nearby sources, particularly microbial contamination from sources such as sewer lines, livestock, surface waters, and septic systems.
  - Zone IB refers to the 0-3 year TOT zone. Water in this zone takes 0-3 years to travel in the aquifer to reach the well.
- Zone II refers to the 3-6 year TOT zone. Water in this zone takes 3-6 years to travel in the aquifer to reach the well.
- Zone III refers to the 6-10 year TOT zone. Water in this zone takes 6-10 years to travel in the aquifer to reach the well.

DEQ uses a refined analytical model approved by EPA to delineate the three separate TOT zones. The analytical model uses site-specific data assimilated from a variety of sources, including well logs and hydrogeologic reports. DEQ also uses a calculated fixed radius method when site-specific data are not and will not be available. Generalized, existing, hydrogeologic data from the major aquifer types in Idaho, and data from the well pump rate are used in the average velocity equation to derive radii for 3-, 6-, and 10-year TOT zones.

The source water assessment delineation for WELL #3 is illustrated in the map provided. The data used to determine the source water assessment delineation for WELL #3 are included in the References section or available from DEQ upon request.

## Susceptibility Analysis

The susceptibility analysis determines the likelihood that the water supply will become contaminated. For each well, spring, or surface water intake in a public water system, susceptibility to contamination is scored as high, moderate, or low. Susceptibility scores for wells take into account three factors, which are described in more detail in later sections:

1. System Construction: Construction of the well being assessed
2. Potential Contaminant Inventory/Land Use: Potentially significant sources of contamination to the source water, and land use characteristics above the aquifer
3. Hydrologic Sensitivity: Hydrologic and geologic conditions surrounding the well

Navigation toolbar with buttons: Zoom In, Zoom Out, Prev Extent, Next Extent, Pan, Clear, Select SWA, Measure, Identify, Print Map, Help.

SWA Search Map Legend

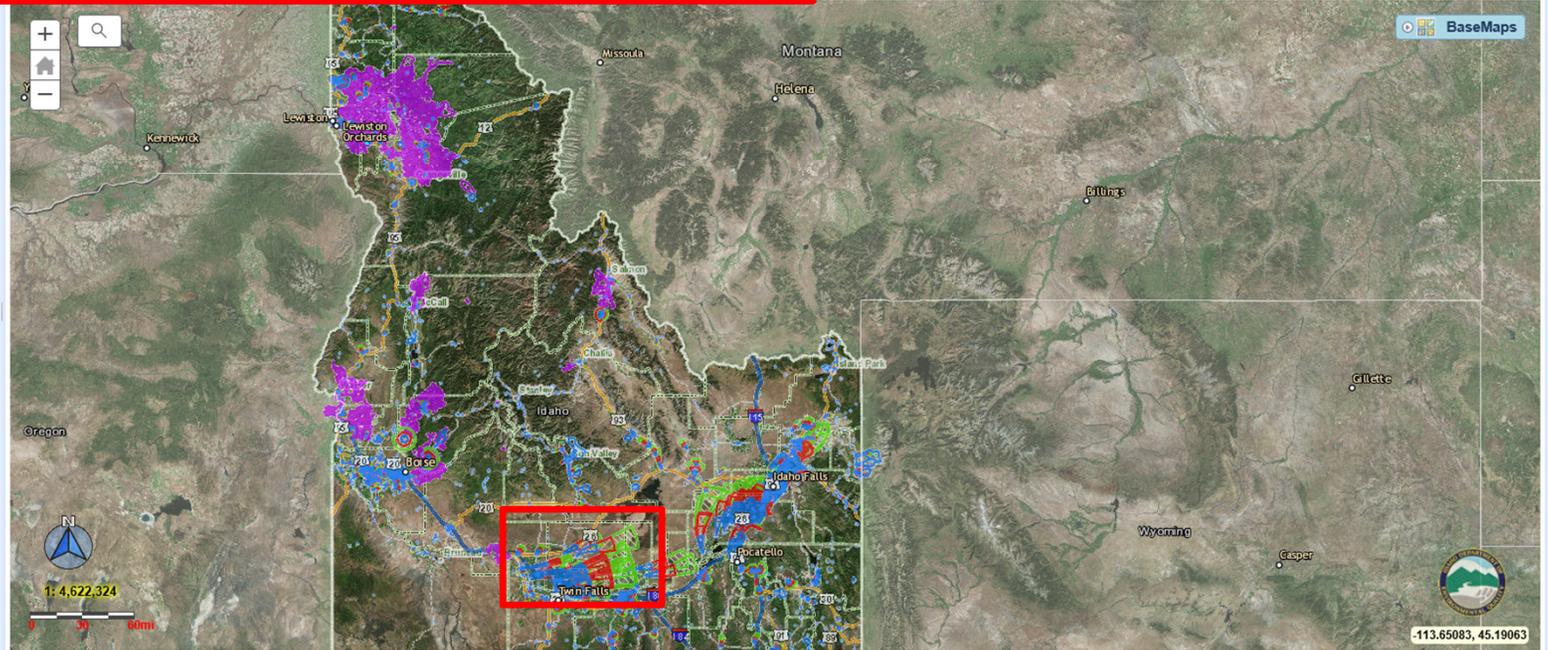
Secondary navigation toolbar with buttons: Zoom In, Zoom Out, Prev Extent, Next Extent, Pan, Clear, Select SWA, Measure, Identify, Print Map, Help.

Search By County:  
Jerome

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**Search for Source Water Delineations by County, PWS Name, or PWS Number.**

Source water assessments are the cornerstone for source water protection. Local communities can use the information gathered through the assessment process to create a broader source water protection program to address current problems and prevent future threats to the quality of their drinking water supplies. The information acquired from assessments also assists DEQ in overseeing public water systems. Please view the [HELP](#) located top right for more info.

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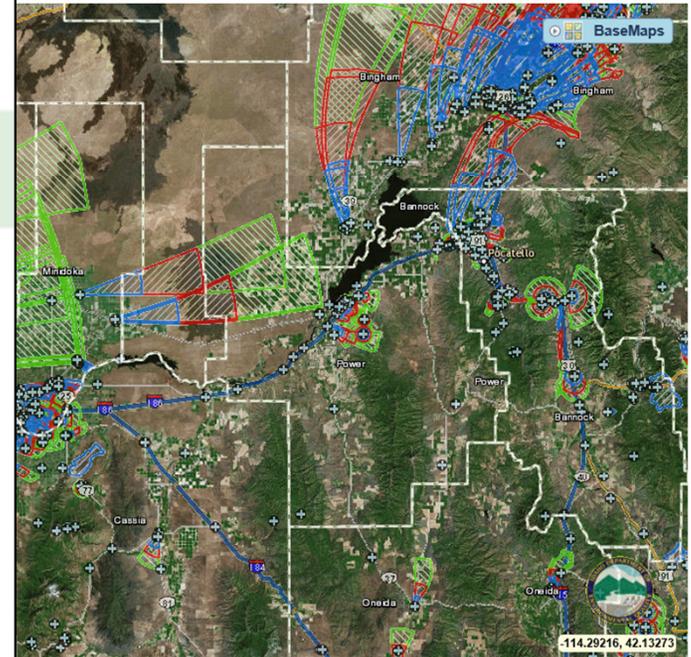
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...am to address current problems and prevent future threats to the quality of their drinking water supplies. The

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 ANDERSON CAMP CAMPGROUND:5270003  
 BLUE LAKES COUNTRY CLUB:5270005  
 CENTENIAL WATERFRONT PARK:5420091  
 COUNTRY CLUB ESTATES:5270004  
 CROSSROADS OF IDAHO:5270022  
 DINO'S LLC:5270029  
 EDEN CITY OF:5270000  
 GREENWOOD PIONEER STOP INC:5270001  
 HAZELTON CITY OF:5270007  
 HAZELTON HOUSING AUTHORITY:5270008  
 IDAHO DEPARTMENT OF FISH AND GAME:527003  
 JEROME CHEESE CO. INC.:5270027  
 JEROME CITY OF:5270011  
 JEROME COUNTRY CLUB:5270012  
 JEROME REST AREA E BOUND IDT:5270014  
 KOA CAMPGROUNDS JEROME:5270016  
 LDS CHURCH JEROME STAKE CENTER:5270023  
 MI PUEBLO BAKERY & TAQUERIA:5270033  
 NORTH RIM FAIRWAYS:5270017  
 NORTHRIDGE FELLOWSHIP:5270031  
 PRODUCERS LIVESTOCK MARKETING:5270018  
 RIVERBEND DAIRY:5240045  
 SNAKE RIVER ELKS 2807:5270028  
 SUBWAY JEROME:5270024  
 TRAVELERS OASIS:5270013  
 TWIN FALLS CITY OF:5420058  
 UNIT 3 WATER ASSN:5270025  
 VALLEY SCHOOL:5270020  
 WESTERN FARM SERVICE:5270020

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BaseMaps

-120.22065, 44.52087

SRCID	PWS NO	PWS Name
E0006078	5270002	AMBER INN II
A0004459	5270003	ANDERSON CAM
A0004457	5270005	BLUE LAKES COL
E0006039	5420091	CENTENIAL WATI

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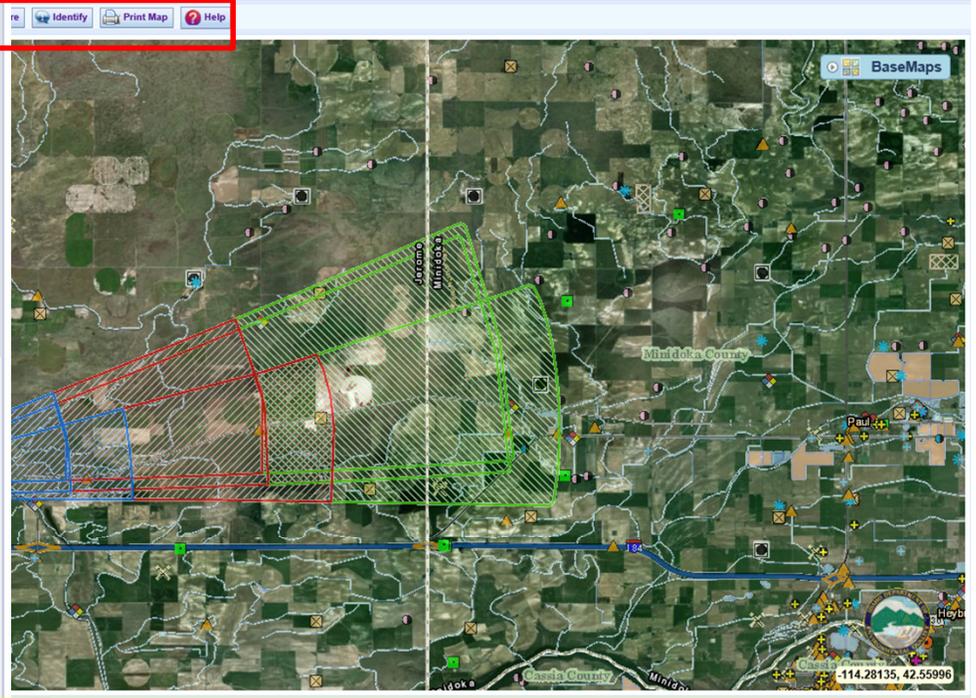
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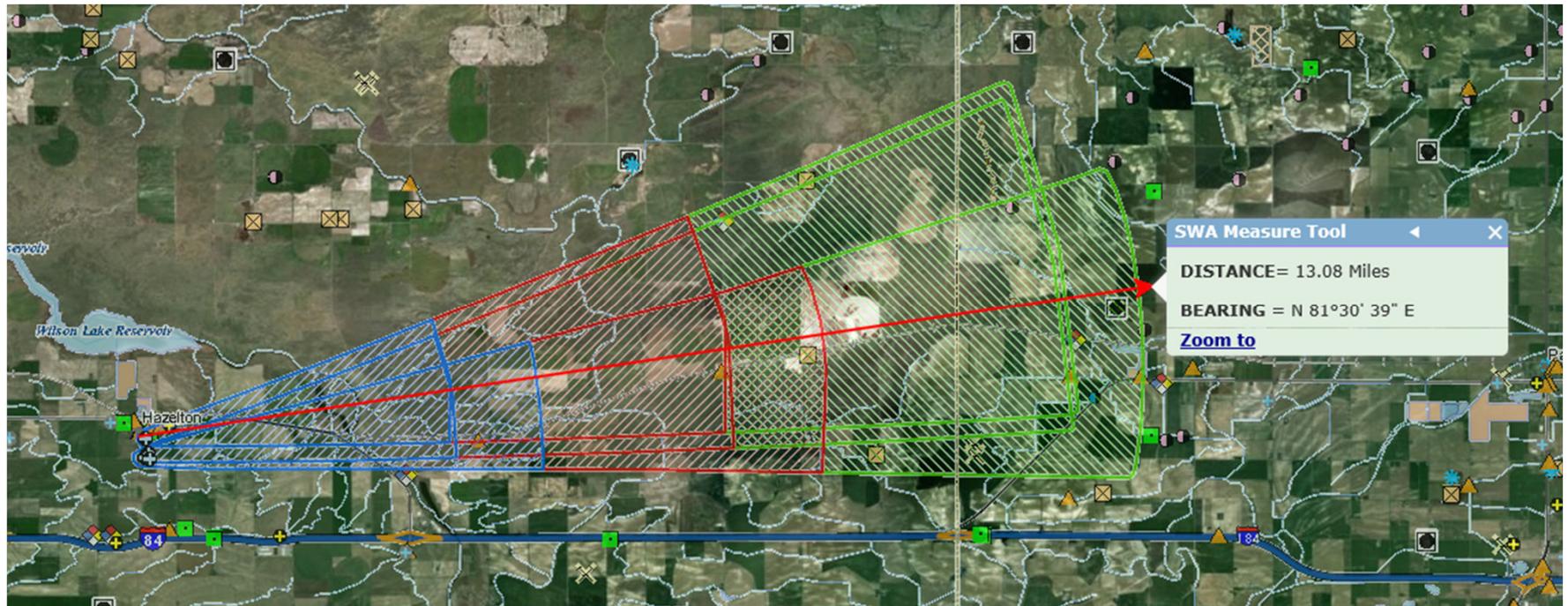
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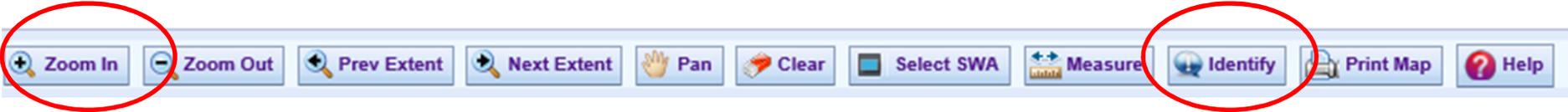
- SWA BASE MAP
- SOURCE WATER
  - Cities/Towns
  - County Boundaries
  - Public Water Systems
    - Source Location (selected)
    - Source Water Delineation (TOT)
      - 3 Year TOT
      - 6 Year TOT
      - 10 Year TOT
      - Surface Water
    - Source Location (all)
    - PWS (VOC-Susceptibility Ranking)
    - PWS (SOC-Susceptibility Ranking)
    - PWS (Microbe-Susceptibility Ranking)
    - PWS (IOC-Susceptibility Ranking)
  - Potential Contaminants Inventory Locations
    - Brownfield Site
    - CERCLA Site
    - Toxics Release Inventory
    - General Waste Site
    - UST/LUST Site
    - Dairy
    - Feedlot
    - Deep Injection Well
    - Shallow Injection Well



SRCID	PWS NO	PWS
A0004290	5270007	HAZEL
A0004291	5270007	HAZEL
A0004292	5270007	HAZEL
DD016199	5270007	HAZEL

AQUIFER	ACRES	SWA Report
Snake Plain	16841	Report icon
SW margin ESRP	17212	Report icon
SW margin ESRP	17502	Report icon
Snake Plain	16841	Report icon





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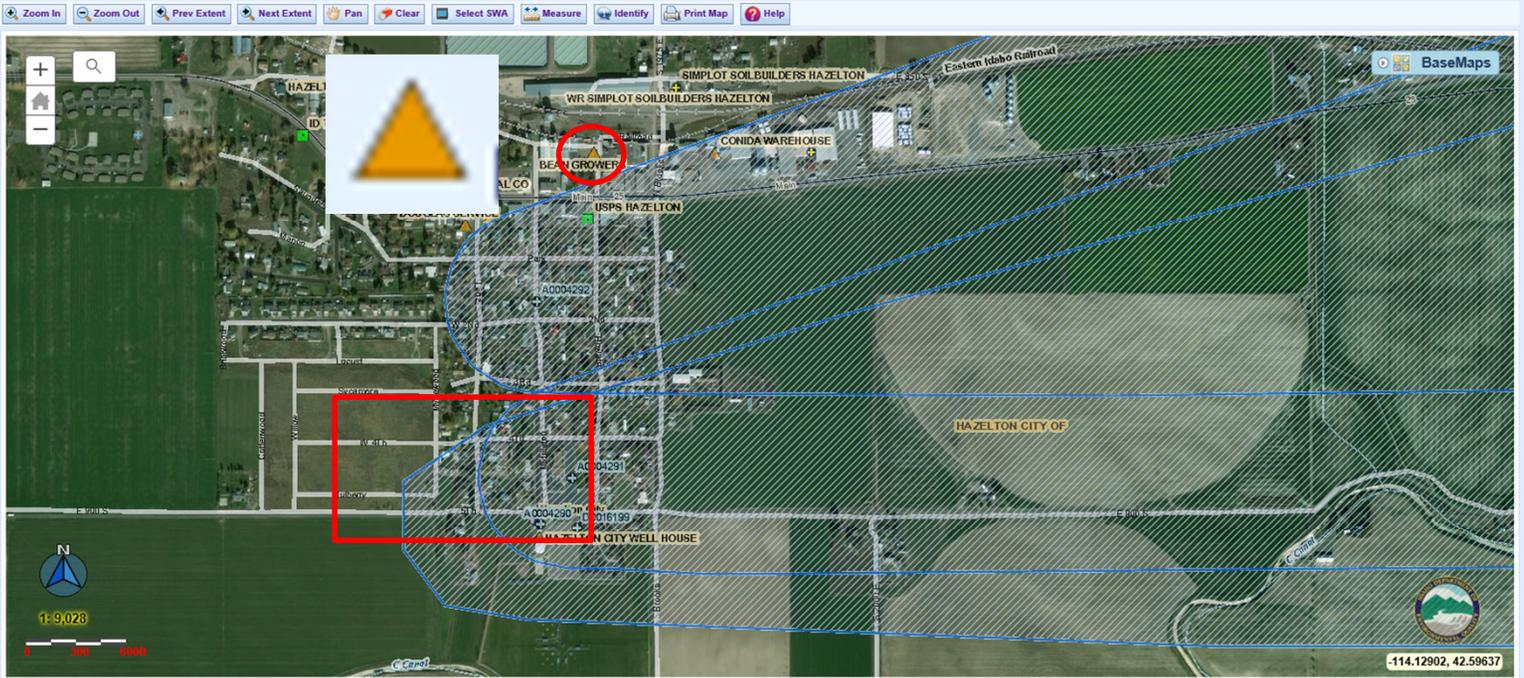
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SRCID	PWS NO	PWS Name	Source Name	AQUIFER	ACRES	SWA Report
A0004290	5270007	HAZELTON CITY OF	WELL #3	Snake Plain	16841	
A0004291	5270007	HAZELTON CITY OF	WELL #2	SW margin ESRP	17212	
A0004292	5270007	HAZELTON CITY OF	WELL #1	SW margin ESRP	17502	
D0016199	5270007	HAZELTON CITY OF	WELL #4	Snake Plain	16841	

## Identify Results (2 of 2)

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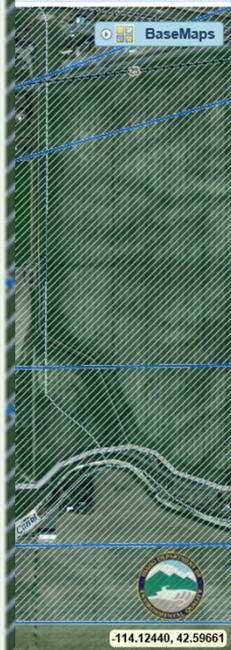


### Layer: Potential Contaminants Inventory Locations

**FACILITYID:** 4-270616  
**FACILITY:** CONIDA WAREHOUSE  
**FAC\_TYPE:** UST Site  
**ADDRESS:** BROOKS AVE  
**CITY:** HAZELTON  
**ZIPCODE:** 83335  
**COUNTY:** Jerome  
**SOURCE:** IDEQ  
**LATITUDE:** 42.596992  
**LONGITUDE:** -114.131934  
**HOTLINK:** [PCI INFO](#)  
**CONTAMINANT:** VOC,SOC

[Zoom to](#)

SRCID	PWS NO	PWS Name
A0004290	5270007	HAZELTON CITY OF
A0004291	5270007	HAZELTON CITY OF
A0004292	5270007	HAZELTON CITY OF
D0016199	5270007	HAZELTON CITY OF



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100 | main street hazelton Idaho



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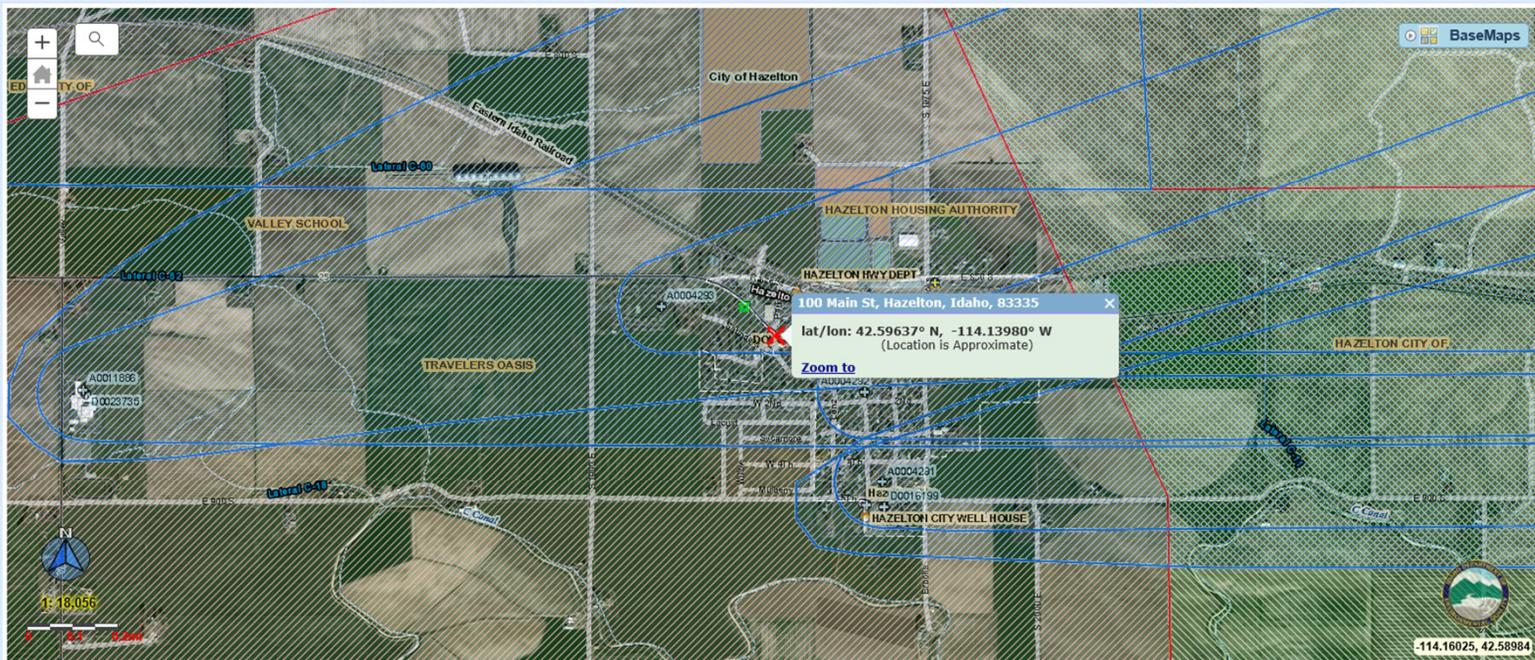
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[Restriction of Liability for GIS Data](#)

Zoom In Zoom Out Prev Extent Next Extent Pan Clear Select SWA Measure Identify Print Map Help



**Search for Source Water Delineations by County, PWS Name, or PWS Number.**

Source water assessments are the cornerstone for source water protection. Local communities can use the information gathered through the assessment process to create a broader source water protection program to address current problems and prevent future threats to the quality of their drinking water supplies. The information acquired from assessments also assists DEQ in overseeing public water systems. Please view the [HELP](#) located top right for more info.

# How are Assessments Being Used?

- City and County Ordinances
- Rules and Regulations
  - Oil and Gas Rules
  - Underground Storage Tanks
- Funding Priorities
  - Farm Bill programs
  - SRF and RD Loans
- Emergency Response
- PWS SWP Plans



# Purpose of the Assessment

---

To provide information which enables public water system owners, consumers, and others to initiate and promote actions to protect drinking water sources.

PROTECTION



# What *IS* Source Water Protection?

Voluntary or regulatory activities that reduces the risk of contaminants from entering a public water system supply.

## Types of Protection Activities:

- Regulations and Permits
- Education, Outreach and Public Programs
- Best Management Practices
- Planning
- Land conservation



# Regulations and Permits

---

“There shall be no man or women dare to wash any unclean linen, wash clothes, ...nor rinse or make clean any kettle, pot or pan, or any suchlike vessel within twenty feet of the old well or new pump. Nor shall anyone aforesaid within less than a quarter mile of the fort, dare to do the necessities of nature, since by these unmanly, slothful, and loathsome immodesties, the whole fort may be chocked and poisoned”

*Lord Delaware*  
*1610*



# Regulations and Permits

- Setbacks
- Conditional use permit
- CAFO siting
- Planning and zoning ordinance
  - Source water protection ordinance



# Education, Outreach, and Public Programs

- Water Festivals
- System tours
- CCRs
- Storm drain marking
- Signs
- PSA



**WHERE YOUR WATER COMES FROM**

**Water. Where Art Thou?**  
Underground, that's where.

Bryan's water comes from the Simsboro Sands portion of the Carrizo-Wilcox Aquifer. We use nine wells and draw from an average depth of 2,800 feet at a rate of 2,000-3,000 gallons each minute. The water comes out of the ground at a temperature as high as 116°F!

During an average day, Bryan customers consume 9.3 million gallons of water. Bryan's combined well capacity is 32 million gallons per day, or MGD, however, when customer demand approaches 24 MGD, the city begins requesting voluntary conservation measures for all customers. That's why conserving water, especially during summer months, is so important.

Movie poster inspired by O. Brother, Where Art Thou? (2000). Pictures:  
J.T. Thompson, Jr., Water/Water Maintenance Operator  
Walter Martin, Sr., Compliance Officer  
Gary Kasner, Int. Works / Production Office

A Film By Water Services  
The Award-Winning Creators Of Drain Man

J.T. THOMPSON, JR. VICTOR HARRIS GARY KASNER

## O WATER, WHERE ART THOU?

**"THE BEST FILM OF THE YEAR!"**  
—HONOLULU PRESS

CITY OF BRYAN WATER SERVICES DEPARTMENT MEMBER PHOTOGRAPHERS COMMITTEE FOR WATER TOWN WATER QUALITY  
CITY OF BRYAN WATER SERVICES DEPARTMENT MEMBER PHOTOGRAPHERS COMMITTEE FOR WATER TOWN WATER QUALITY  
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CITY OF BRYAN WATER SERVICES DEPARTMENT MEMBER PHOTOGRAPHERS COMMITTEE FOR WATER TOWN WATER QUALITY

**2007 JANUARY**

*Safety Awareness Month*

sun	mon	tue	wed	thu	fri	sat
	New Year's Day 1	2	3	4	5	6
7	8 Council Meeting	9	10	11	12	13
14	15 Martin Luther King Day	16	17	18	19	20
21	22 Council Meeting	23	24	25	26	27
28	29	30	31			

## BRYAN'S FIRE HYDRANTS

They're known as fire hydrants, fire plugs, and even Johnny Pumps in New York.

The City of Bryan maintains around 2,000 fire hydrants and uses them as flushing points within the system to ensure water quality. And, yes, to allow the Bryan Fire Department to fight fires.

Bryan's Water Services crews recently field located all hydrants within the city's system by using satellite technology. That means Bryan firefighters spend less time searching for the right hydrant to use in battling blazes.

Movie poster inspired by *Pirates of the Caribbean: The Curse of the Black Pearl* (2003). Pictured:

Brenda Galvan, Env. Compliance Officer  
 Patrick Bosquez, WD Customer Service Technician  
 Roland Macias, Interim Team Leader  
 Pablo Rodriguez, WD/WWC Maintenance Worker

2006  
**2006**  
**DECEMBER**

**MARCH**

BRENDA GALVAN PATRICK BOSQUEZ ROLAND MACIAS PABLO RODRIGUEZ



HYDRANTS OF **B** THE CARIBBEAN  
 THE CURSE OF THE TOILET SWIRL

CITY OF BRYAN PRESENTS A WATER SERVICES DEPARTMENT PRODUCTION A PUBLIC INFORMATION DEPARTMENT FILM MAYOR ERNIE WENTRCEK CITY OF BRYAN  
 EXECUTIVE PRODUCERS KELLY WELLMAN PRODUCED BY JAYSON BARFKNECHT DIRECTED BY JERRY MOORE COSTUME DESIGNER CHARLES RHODES EXECUTIVE PRODUCERS CHAD COCKRUM PRODUCED BY MICHAEL NEU  
 WRITTEN BY JAY SOCOL PRODUCED BY THE WATER SERVICES DEPARTMENT OF THE CITY OF BRYAN CITY OF BRYAN  
 THE Good Life, These Days™

RESTRICTED  
 R  
 PARENTS STRONGLY CAUTIONED  
 SOME MATERIAL MAY BE INAPPROPRIATE FOR CHILDREN UNDER 17

EXECUTIVE PRODUCERS KELLY WELLMAN PRODUCED BY JAYSON BARFKNECHT DIRECTED BY CHARLIE HALL COSTUME DESIGNER CHARLES RHODES EXECUTIVE PRODUCERS CHAD COCKRUM PRODUCED BY MICHAEL NEU  
 WRITTEN BY JAY SOCOL PRODUCED BY ZANE ANDERSON CITY OF BRYAN  
 THE Good Life, These Days™

# Education, Outreach, and Public Programs

- Water Festivals
- System tours
- CCRs
- Storm drain marking
- Signs
- PSA

[Southwest Idaho PSA](#)  
[City of Jerome PSA](#)



# Best Management Practices

- Green Chemistry
- Conservation Buffer
- Secondary Containment
- Fencing
- Proper Well Abandonment
- Septic Systems Maintenance
- Proper Disposal of HHW



# Planning

- Comprehensive plans
- New well site suitability review
- Water audit
- Contingency planning
- Source water protection plan



# Land Conservation

Drink a bottle of water and it's gone. Build a filtration plant, and it must be operated, and eventually replaced. But protect an aquifer or reservoir, and you will have safe drinking water forever.

*-Protecting the Source*



<https://www.youtube.com/watch?v=ZSPkcpGmfIE>

# Putting it all together...

- SWA
  - Protection area
  - Potential threats
- Potential partners and their roles
- Ideas for implementation activities



# Source Water Protection Plan

## Components of a SWP Plan:

- Planning team
- Vision statement and goals
- Characterization of the water source
- Identification of potential contaminants
- Development of implementation strategies
- Contingency plan



# IDAHO Department of Environmental Quality Source Water Protection Planning Tool

Source water Protection in idaho



### Login to your Account

[Forgot password?](#)

[Register](#)

Remember me

Login

## Welcome

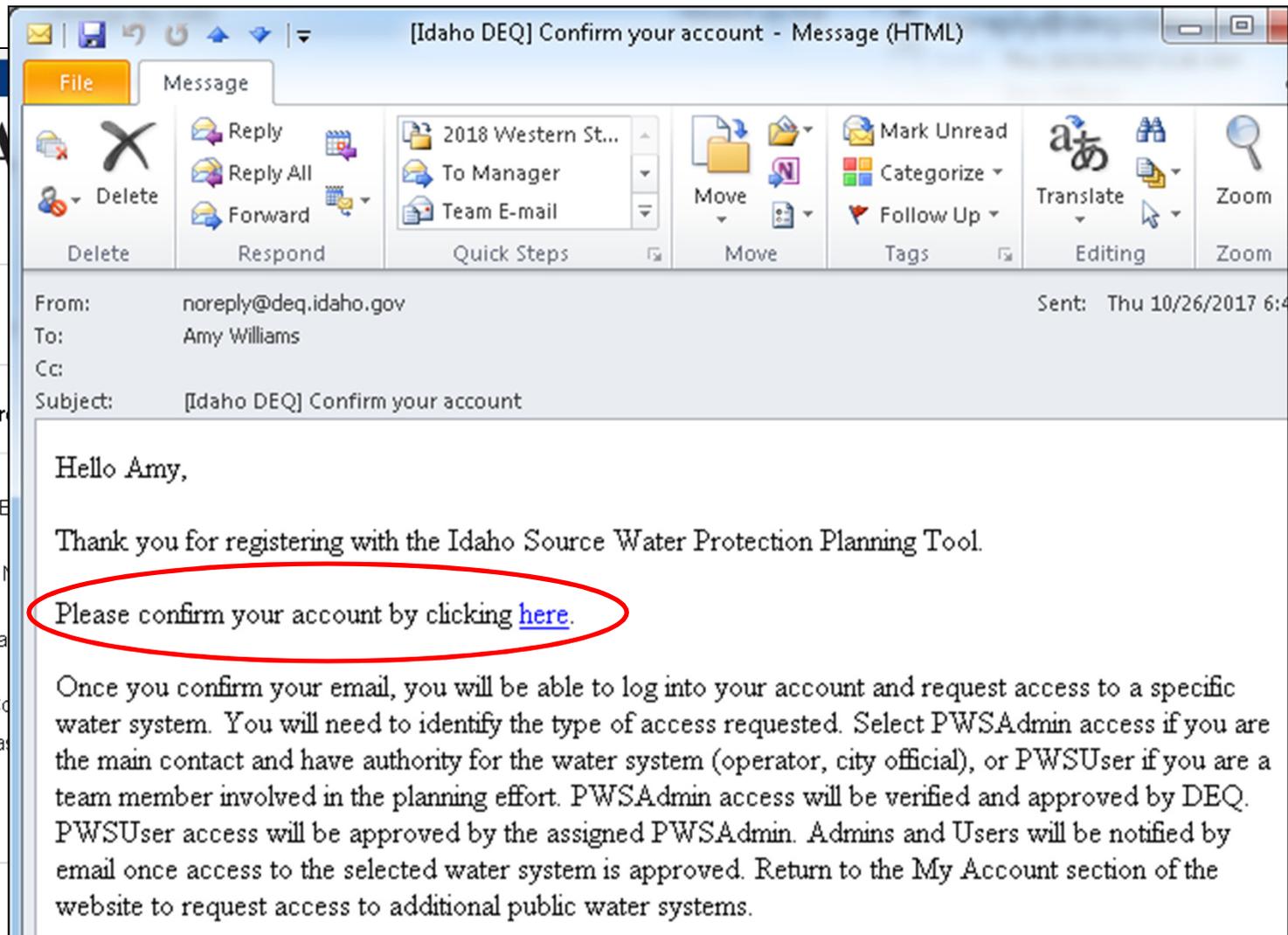
Source water protection is a voluntary effort a community can implement to help prevent contamination of the source water that supplies its public water system. The effort may involve creating a source water (or drinking water) protection plan and implementing regulatory and/or nonregulatory management practices. Preventing contaminants from entering a public water system supply greatly benefits the community by minimizing the problems that can occur from contaminants in the water supply, such as increased health risks to the public, expanded drinking water monitoring requirements, additional water treatment requirements, and expensive environmental cleanup activities.



SDWIS  
SWA

PWS Info  
Vision/Goals  
Protection Activities

# Create an Account



# Register or Login

The screenshot shows a web browser window with the URL <http://devdotnet/water/SWPP/>. The browser tabs include "Home - Idaho Department...", "Login", and "SWPP - Home Page". The page header features the Idaho Department of Environmental Quality logo and the text "Source Water Protection Program".

**Register**   **Login**

## IDAHO Department of Environmental Quality Source Water Protection Program

### Welcome

Source water protection is a voluntary effort a community can implement to help prevent contamination of the source water that supplies its public water system. The effort may involve creating a source water (or drinking water) protection plan and implementing regulatory and/or non-regulatory management practices. Preventing contaminants from entering a public water system supply greatly benefits the community by minimizing the problems that can occur from contaminants in the water supply, such as increased health risks to the public, expanded drinking water monitoring requirements, additional water treatment requirements, and expensive environmental cleanup activities.

#### Login to your Account

[Forgot password?](#)

Remember me  

Last updated on: 10/24/2016 10:00 CDT

 [Glossary](#)   [Acronyms](#)   [Idaho.gov](#)   [Accessibility](#)   [Privacy & Security](#)  
Copyright 2016. All rights reserved

# PWS Association



### PWS Association

To use the source water protection planning tool, you need to be associated with at least one PWS.

Enter the name of the PWS you wish to associate with your account.

PWS Name:

PWS Number:

ID4010022

What type of access are you seeking? (select one)

PWS Admin ⓘ

PWS User ⓘ

There is no PWS Admin for CAPITOL WATER CORP. Cannot register as PWS User.

Submit



## My Account

[Account Status](#)

[Change Password](#)

### Account Status

Your PWS Access request has been submitted to DEQ. You will receive a notification upon approval. ✕

### PWS Access Requests:

[Request Additional PWS Access](#)

PWS Name	Role	Approval Status
CAPITOL WATER CORP	PWSAdmin	PENDING DEQ APPROVAL

# Start New Plan or Edit Existing Plan



Department of Environmental Quality

Source Water Protection Program

[Home](#) [About Us](#)

## Source Water Protection Plans

Show All

[+ Create New Protection Plan](#)

Date	Description	Status	Action	Implementation Tracking
Submitted on 2016-11-13	Protection plan for ABERDEEN CITY OF	Submitted		None
Created on 2016-11-04	Protection plan for City of Aberdeen	Draft		None

## Contingency Plans

No contingency plans found.

[+ Create New Contingency Plan](#)

# Select PWS



Department of Environmental Quality

## Source Water Protection Program

Home > Protection Plan > Naming

[Home](#) [About Us](#)

### Create New Protection Plan - (Step 1 of 10 - Getting Started)

Getting Started

Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

#### Select the Public Water System name:

PWS Name:

PWS Number:

#### How do you want your PWS name to appear within the plan?

For example: the PWS Name in our database may be "KUNA CITY" and will display everywhere on the plan as "Protection Plan - KUNA CITY". If you want to display a more friendly name like "City of Kuna", please enter it here.

#### Select the sources that are to be included in this plan:

SAVE

SAVE & CONTINUE

# Select Sources



Department of Environmental Quality

Source Water Protection Program

Home > Protection Plan > Naming

Home About Us

## Create New Protection Plan - City of Aberdeen (Step 1 of 10 - Getting Started)

Getting Started

Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

### Select the Public Water System name:

PWS Name:

ABERDEEN CITY OF

PWS Number:

ID6060001

### How do you want your PWS name to appear within the plan?

City of Aberdeen

For example: the PWS Name in our database may be "KUNA CITY" and will display everywhere on the plan as "Protection Plan - KUNA CITY". If you want to display a more friendly name like "City of Kuna", please enter it here.

### Select the sources that are to be included in this plan:

- Select All
- WELL #1
- WELL #2
- WELL #3
- WELL #4

SAVE

SAVE & CONTINUE

# Add Team Members

## Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

Planning team membership may include city officials, county officials, water system operator(s), business community representatives, agricultural community representatives, environmental representatives, members of the public and technical experts from within the community or various local, state or federal agencies. A minimum of three team members including the team coordinator is recommended.

Within the planning team, there should be one person designated as the coordinator. This person will serve as the primary contact for public inquiries and state certification of the plan. This could be the water system operator, the mayor, the city clerk, a city council member, or other.

### Planning Team Entry

Correspondence E-mail Address: amy.williams@deq.idaho.gov

In the section below, please identify the team coordinator and planning team members:

#### Team Coordinator

First Name:	Last Name:	Organization:
<input type="text" value="Amy"/>	<input type="text" value="Williams"/>	<input type="text" value="DEQ"/>
City:	State:	Zip:
<input type="text" value="Boise"/>	<input type="text" value="Idaho"/>	<input type="text" value="83706"/>
Phone:	Email:	
<input type="text" value="(208) 373-0115"/>	<input type="text" value="amy.williams@deq.idaho.gov"/>	

#### Team Members

[Add Team Member](#)

Organization	First Name	Last Name	
<input type="text" value="DEQ"/>	<input type="text" value="Kathryn"/>	<input type="text" value="Elliott"/>	

#### Additional Support Entities

Are there other entities that provided information or technical assistance to the planning team that you would like to acknowledge in the plan? If so, please identify those entities below.

[Add More Rows](#)

Organization	First Name	Last Name	
<input type="text" value="IRWA"/>	<input type="text" value="Adrianna"/>	<input type="text" value="Hummer"/>	

# Identify Vision Statement

amy.williams@deq.idaho.gov Settings Log Out

## (Step 3 of 10 - Vision Statement)

Getting Started

Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

Clearly defining a formalized vision or mission statement will guide the development of the source water protection plan. The vision statement expresses the value and commitment of the water system to source water protection. Community involvement in the development of the vision will lead to buy-in from the community and garner support for the implementation of the protection plan.

*Example Vision Statements:*

- Provide the city of Springfield a safe and reliable source of water for drinking and fire suppression, at a reasonable cost, now and in the future.
- Develop a plan to protect the drinking water source for the city of Springfield through building partnerships and increasing public awareness.

[Read More >>](#)

**Please provide the Vision and/or Mission Statement as you would like it to appear in your plan:**

Provide the city of Springfield a safe and reliable source of water for drinking and fire suppression, at a reasonable cost, now and in the future.

PREVIOUS

SAVE

SAVE & CONTINUE

# Identify Goals



### (Step 4 of 10 - Goals)

Getting Started

Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

The planning team should develop goals, or desired outcomes of the protection plan. Goals should address specific issues identified by the planning team and could address public health, safety, and future use. Goals should be stated in terms that can be measured and evaluated.

*Example Goals:*

- Protect public health and the environment
- Protect critical source water areas through land use planning
- Increase awareness of water conservation and protection by citizens in the community
- Reduce future treatment needs

Please enter the source water protection goals as you would like them to appear in the plan:

[Add New Goal](#)

Goal: Goal 1 

Description:

Goal: Goal 2 

Description:

PREVIOUS

SAVE

SAVE & CONTINUE

# Identify Protection Area

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

✓ WELL #1

✓ WELL #2

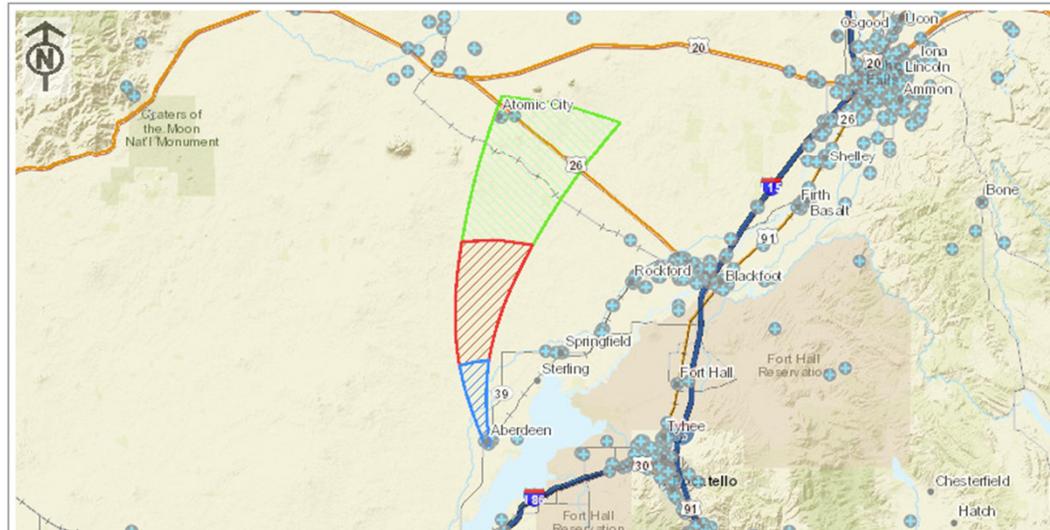
✓ WELL #3

✓ WELL #4

Previous Map

Overall Map

Next Map



1: 1,155,581

0 5 10mi

Previous Map

Next Map

DEQ encourages communities to use the source water delineation as the area to be protected in their source water protection plan; however, the planning team may revise this area to include additional areas beyond the delineation to fit the needs of the community.

Would you like to use this Source Water Delineation (as shown above) as your protection area?

Yes  No

PREVIOUS

SAVE

SAVE & CONTINUE

# Identify Water Quality Issues

## Create New Protection Plan -City of Aberdeen (Step 7 of 10 - Water Quality Issues)

Getting Started

Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

The planning team should review the regional water quality information as well as site specific information related to their source to identify any water quality concerns that should be addressed in the plan.

### Regional Water Quality

DEQ has developed a list of degraded ground water areas in the state. This list focuses on nitrate and ranks the top 34 nitrate-degraded areas (referred to as nitrate priority areas) based on the severity of the degradation.

None of your sources are in a Nitrate Priority area.

### Site Specific Water Quality Issues

The planning team should refer to the source water assessment report for each source to identify the susceptibility ratings for each source, and potential contaminants and land uses within the source water protection area. To review the source water assessment report, [Click Here](#).

In addition, local water quality sampling data should be reviewed to identify any existing water quality issues. A total of 90 analytes are regulated in public drinking water by EPA. Click on the links below to review water quality sampling data for each drinking water source to identify contaminants of concern.

The results will show any detection of a VOC, SOC or microbial, and any results over ½ the MCL for an IOC. If there is detection, a pathway for the contaminant already exists and thus may be considered a water quality concern.

- WELL #1 :E0007319([View water quality sampling data](#))
- WELL #2 :E0007317([View water quality sampling data](#))
- WELL #3 :E0007318([View water quality sampling data](#))
- WELL #4 :E0007320([View water quality sampling data](#))

Additional ground water data can be found using DEQ's [Nitrate Priority Area](#) and [Ground water Quality](#) interactive mappers.

Please provide information on any water quality issues or concerns with your water system as you would like them to appear in the plan:

PREVIOUS

SAVE

SAVE & CONTINUE

### Water Quality Sampling Data

Type	Contaminant	Sample Data	Sample Result	Threshold (MCL/SMCL)	Sample Type Code
RA	GROSS BETA PARTICLE ACTIVITY	07/10/2003	3.500000000000MREMY	4.000000000PCi/L	RT
RA	GROSS BETA PARTICLE ACTIVITY	03/20/1995	3.000000000000MREMY	4.000000000MREM	RT
OC	TTHM	08/25/1993	0.000600000000MG/L	0.080000000MG/L	RT
OC	CHLOROFORM	08/25/1993	0.000600000000MG/L	0.100000000MG/L	RT

RT = routine, RP = repeat, IOC = Inorganic Compound, MOR = Microbe, OC = Organic Compound, RA = Radionuclide, CO = Confirmation, TG = Treatment Technique.

[Click here to see the "Table of Regulated Drinking Water Contaminants"](#)

Close

Note that the sample results are for the source only and do not include results from the distribution system.

- [WELL #6 :A0011244\(View water quality sampling data\)](#)
- [WELL #7 :A0003840\(View water quality sampling data\)](#)

# Review/Add Potential Contaminants

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

Please review the primary inventory listed below and add additional sources identified in the enhanced inventory:

[Add Additional Source\(s\) to the Enhanced Inventory>>](#)

Source Name: All | PCI Category: All | Contaminant Type: All | TOT: All | [Reset filter](#)

Source Name	PCI Category	PC Name	Contaminant Types	Time of Travel	Inventory Type
WELL #1	Deep Injection Well	Byron J Duffin	IOC, VOC, SOC, Microbe	0-3 year	GIS
WELL #1	Feedlot	At The Cross Bucking Bulls	IOC, Microbe	6-10 year	GIS
WELL #1	Landfill	Atomic City LF	IOC, VOC, SOC, Microbe	6-10 year	GIS
WELL #1	RCRA Site	ABERDEEN SPRINGFIELD CANAL CO	Site specific	0-3 year	GIS
WELL #1	RCRA Site	LANDVATTER MOTOR INC	Site specific	0-3 year	GIS
WELL #1	UST Site	ABERDEEN SD NO 58	VOC, SOC	0-3 year	GIS
WELL #1	UST Site	ABERDEEN SPRINGFIELD CANAL CO	VOC, SOC	0-3 year	GIS
WELL #1	UST Site	ABERDEEN STATION	VOC, SOC	0-3 year	GIS
WELL #1	UST Site	BINGHAM CO-OP INC	VOC, SOC	0-3 year	GIS
WELL #1	UST Site	BUS STOP	VOC, SOC	0-3 year	GIS

1 2 3 4 5 ... » »»

10 | Page 1 of 62

[Add Additional Source\(s\) to the Enhanced Inventory>>](#)

PREVIOUS

CONTINUE

Source Name	PCI Category	PC Name	Types	Travel	Type
WELL #5 BACK UP WELL	UST Site	FORMER GOODMAN OIL STATION (EMMETT)	VOC, SOC	0-3 year	GIS
WELL #5 BACK UP WELL	UST Site	JACKSONS FOOD STORE NO 753	VOC, SOC	0-3 year	GIS

**Add/Edit Additional Sources to the Enhanced Inventory** ✕

**Add new source**

Source Name	PCI Category	PC Name	Contaminant Types	Time of Travel
<input type="text"/>	<input type="text"/>	<input type="text"/>	<div style="border: 1px solid #ccc; padding: 2px;">           IOC            VOC            SOC            Microbe            Sediment         </div>	<input type="text"/>

Press ctrl to select multiple contaminant types Save

**Update existing sources**

Source Name	PCI Category	PC Name	Contaminant Types	Time of Travel
No record to display				

Press ctrl to select multiple contaminant types Save Close

Note: Contaminant types identified as site specific can vary and are dependent on the individual facility.

[Add/Edit Additional Sources to the Enhanced Inventory](#)

# Select Priority Issues

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

PCI Category	Contaminant Types	Include in Plan
CAMEO Chemical Facility	Site specific	<input type="checkbox"/>
Deep Injection Well	IOC, VOC, SOC, Microbe	<input type="checkbox"/>
Feedlot	IOC, Microbe	<input checked="" type="checkbox"/>
Feedlot	IOC, Microbe	<input checked="" type="checkbox"/>

**In addition to potential contaminants, do you want to include the following as a priority issue to address in the plan?**

- Education, Outreach, and Public Programs
- Land Conservation
- Planning
- Regulations and Permits

Shallow Injection Well	IOC, VOC, SOC, Microbe	<input type="checkbox"/>
Surface Water	Site specific	<input type="checkbox"/>
UST Site	VOC, SOC	<input checked="" type="checkbox"/>
UST Site	VOC, SOC	<input checked="" type="checkbox"/>
Water Reuse Area	IOC, Microbe	<input checked="" type="checkbox"/>
Water Reuse Area	IOC, Microbe	<input checked="" type="checkbox"/>

**In addition to potential contaminants, do you want to include the following as a priority issue to address in the plan?**

- Education, Outreach, and Public Programs
- Land Conservation
- Planning
- Regulations and Permits

# Implementation Strategies

## Create New Protection Plan -City of Aberdeen (Step 9 of 10 - Implementation Strategies)

Getting Started

Planning Team

Vision

Goal

One of the most important planning team responsibilities is development and implementation of a source water protection strategy for the water system. This strategy outlines what protection measures will be used to protect source water. To insure implementation of the protection plan is successful, it is important to identify who is responsible, time frame for completion, and resources needed for implementation.

In the table below, select the potential contaminant of concern (these are the contaminants that were identified to include in the plan) or general protection area. For each potential contaminant of concern (these are the contaminants that were identified to include in the plan) or general protection area in the table below, select an implementation activity from the drop down list or select other to identify other protection activities.

Implementation Activity	Name of Person to	Date to be	Goal Addressed
-------------------------	-------------------	------------	----------------

Priority Issue: UST Site Add another measure

Secondary Conta ▼	Sara Mills	11/25/2016	Goal 2 ▼	provide \$100 grants for secondary containment	⊖
-------------------	------------	------------	----------	------------------------------------------------	---

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

Priority Issue: Water Reuse Area	Add another measure				
Green Business / ▼	jim	11/18/2016	Goal 1 ▼		⊖
Priority Issue: Education, Outreach, and Public Programs	Add another measure				
Conditional Use f ▼	jim	11/11/2016	Goal 1 ▼		⊖
Priority Issue: Planning	Add another measure				
Conditional Use f ▼	jim	11/18/2016	Goal 2 ▼		⊖
Priority Issue: Feedlot	Add another measure				
Inspections and 1 ▼	jiom	11/16/2016	Goal 1 ▼		⊖
Priority Issue: UST Site	Add another measure				
Conditional Use f ▼	jim	11/18/2016	Goal 2 ▼		⊖

# Planning for the Future



Department of Environmental Quality

Source Water Protection Program

Home > Protection Plan > Planning Future

Home About Us

## Create New Protection Plan -City of Aberdeen (Step 10 of 10 - Planning for the Future)

Getting Started

Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

### New Drinking Water Sources

Does the water system anticipate a need for the development of a new drinking water source in the next five years?

Yes  No

### Contingency Plan

A contingency plan is a blueprint outlining roles and responsibilities in the event that the water system experiences a disruption due to contamination, loss of power, natural disasters such as drought or flooding, or other circumstances where it cannot provide services.

Does the system have an approved Emergency Response Plan?

Yes  No

Does the system have an approved and updated Contingency Plan that includes the following required elements?

- Potential emergencies;
- Key contact personnel;
- Alternate sources of drinking water;
- Notification procedures
- Where copies will be located

Yes  No

PREVIOUS

SAVE

SAVE & CONTINUE

# Review and Submit Plan



The Team Coordinator for the City of Aberdeen source water protection planning team is Amy Williams . The Team Coordinator is responsible for planning future team meetings, coordinating implementation items identified in the plan, and serving as the primary contact. For more information on this plan, please contact Amy Williams at [amy.williams@deq.idaho.gov](mailto:amy.williams@deq.idaho.gov) / (208) 373-0115

(Optional narrative) Additional information on the planning team / meeting / process / etc.

A large, empty rectangular box with a light gray background and a thin gray border, intended for providing optional narrative information.

Aberdeen will help to ensure a clean and safe drinking water sources for current and future generations.

## II. Components of the Plan

City of Aberdeen developed this source water protection plan in accordance with DEQ's state source water protection certification

Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

of accidental chemical releases, intentional acts of vandalism, or unforeseen results from otherwise regular use of hazardous materials. For this reason, EMMETT CITY OF developed a contingency plan (or emergency response plan) as a guide if such an incident occurs. The contingency plan is kept on file at the water system.

## 10 New Drinking Water Sources

EMMETT CITY OF anticipates developing a new drinking water source within the next 5 years to meet the needs for increased capacity. EMMETT CITY OF will determine the safest location for the new source to protect the drinking water from potential contamination. Once active, the new drinking water source will be delineated and assessed by DEQ to determine the susceptibility of the source to potential contamination. EMMETT CITY OF will incorporate the new source into this plan and takes the appropriate actions needed to protect the new source from potential threats of contamination.

Optional Narrative: Identify additional information to be included in the plan on the need for additional water and how new sources will be protected.

## References

1. DEQ (Idaho Department of Environmental Quality). 1999. Idaho Source Water Assessment Plan.
2. DEQ (Idaho Department of Environmental Quality). 2000. *Protecting Drinking Water Sources in Idaho*.
3. DEQ (Idaho Department of Environmental Quality). EMMETT CITY OF (ID3230012 ) *Source Water Assessment Report*. [www.deq.idaho.gov/water/swaOnline](http://www.deq.idaho.gov/water/swaOnline)

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## APPENDIXES

[Appendix A - Delineations](#)

[Appendix B - PCI table](#)

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# IDAHO Department of Environmental Quality

## Source Water Protection Planning Tool

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**i** Additional PWS Access may be requested from the My Account menu.

### Source Water Protection Plans

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Date	Description	Status	Action	Implementation	Correspondence
Certified on 09/08/2017	EMMETT CITY OF	Certified	<a href="#">Update</a>	<a href="#">Track Implementation</a>	<a href="#">Messages(1)</a>

### Contingency Plans

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Date	Description	Status	Action	Correspondence
No records to display				

# IDAHO Department of Environmental Quality

## Source Water Protection Planning Tool

### Implementation Tracking - EMMETT CITY OF

Completed	Protection activity	Priority Issue	Completion Date	Year Planned	Additional Information	Comment
<b>Year 1</b>						
<input type="checkbox"/>	Septic System Location and Maintenance	Septic Systems	<input type="text"/>	2017		<input type="text"/>
<input type="checkbox"/>	Water Festivals/Water Awareness Week	Education, Outreach, and Public Programs	<input type="text"/>	2017		<input type="text"/>
<b>Year 2</b>						
<input type="checkbox"/>	Septic System Location and Maintenance	Septic Systems	<input type="text"/>	2018		<input type="text"/>
<b>Year 3</b>						
<input type="checkbox"/>	Water Festivals/Water Awareness Week	Education, Outreach, and Public Programs	<input type="text"/>	2019		<input type="text"/>
<b>Year 4</b>						
<input type="checkbox"/>	Conditional Use Permits	UST Site	<input type="text"/>	2020		<input type="text"/>
<b>Year 5</b>						
<input type="checkbox"/>	Conditional Use Permits	UST Site	<input type="text"/>	2021		<input type="text"/>
<input type="checkbox"/>	Water Festivals/Water Awareness Week	Education, Outreach, and Public Programs	<input type="text"/>	2021		<input type="text"/>

[Add additional implementation](#)

Save

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- Table 2
- Table 3
- Table 4
- Table

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# Keys to a Successful Plan

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- Develop partnerships with those that share your goals:
  - State agencies, local non-profits, associations, universities, neighbor water systems
  - Each can provide a resource for the effort (technical assistance, education outreach, potential funding)
- Learn from others (successes and failures)
- Find a leader



# QUESTIONS

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208-373-0115

