### APPENDIX F3 - 2018 SOURCE WATER ASSESSMENT



Department of Environmental Quality
Agency Headquarters
700 NE Multnomah Street, Suite 600
Portland, OR 97232
(503) 229-5696
FAX (503) 229-6124
TTY 711

November 30, 2018

Steve Starner, Water Quality Supervisor Petra Schuetz, Public Works Director City of Silverton 306 S. Water Street Silverton, OR 97381

Re: Updated Source Water Assessment for PWS # 410823 Dear Mr. Starner and Ms. Schuetz.

On behalf of the Oregon Health Authority (OHA), the Oregon Department of Environmental Quality (DEQ) is pleased to provide your community with important information in this Updated Source Water Assessment. The updated assessment is intended to provide information and resources to assist you and your community to **implement local drinking water protection efforts**. Since the first source water assessments were completed in 2005, state agencies have significantly expanded analytical capabilities, including more detailed data for analyzing natural characteristics and potential pollutant sources. DEQ is currently completing the updated assessments for surface water systems and OHA is updating the groundwater system assessments.

As you know, assuring safe drinking water depends on public water suppliers implementing multiple successful practices. First, protect the drinking water source. Second, practice effective water treatment. Third, conduct regular monitoring for contaminants to assure safety. Fourth, protect the distribution system piping and finished water storage from recontamination. Finally, practice competent water system operation, maintenance, and construction. These practices are collectively called "multiple barrier public health protection". Source water protection is an important first step because starting with the best possible quality source water helps assure that water treatment can be effective at all times.

Source water protection is accomplished by effective state public health programs, environmental protection, land use policies, pro-active land stewardship, and by implementation of local drinking water protection efforts. The susceptibility of the public drinking water system source depends on both the natural conditions in the watershed as well as the anthropogenic activities in the watershed.

This letter, with attached figures and technical information, constitutes your **Updated Source Water Assessment**. It supplements your original Source Water Assessment (link here: <a href="http://www.deq.state.or.us/wq/dwp/swrpts.asp">http://www.deq.state.or.us/wq/dwp/swrpts.asp</a>). One of the most important assets a public water system can have is accurate source water area mapping and visual resources to share with the community citizens and officials. The figures include a new regional map view of your watershed, topographic basemap with the source area delineated, and maps with natural characteristics, anthropogenic land uses, potential sources of pollutants, and historic landslides. Information on anthropogenic land uses in a drinking water source area is important for evaluating potential pollutant

sources and working with stakeholders upstream. Tables are provided that include a summary of the types of potential pollutant sources present in your drinking water source area.

There are also a variety of resources included in this document to assist you with drinking water source protection efforts. **Appendix #1** provides a summary of how to use the information provided in the assessment to move forward to develop and implement source water protection. **Appendix #3** lists websites and resources available to public water systems and community members seeking technical assistance for work on watershed protection. **Appendix #4** provides brief descriptions and contact information for grants and loans to fund both drinking water infrastructure and source protection projects.

State agency resources are available to help you with mapping and information needs. Larger sizes of the source area maps and more details of landslide potential and other natural characteristics are available for you upon request (contact Julie Harvey at 503-229-5664). DEQ is currently developing "Resource Guides" with more extensive information to assist public water systems in protecting their source waters. The Surface Water Resource Guide is posted at <a href="http://www.oregon.gov/deq/wq/programs/Pages/dwp.aspx">http://www.oregon.gov/deq/wq/programs/Pages/dwp.aspx</a>.

For direct assistance and/or additional information regarding watershed protection, call Julie Harvey at DEQ (503-229-5664). For more information on drinking water policies and procedures, call Casey Lyon at OHA (541-726-2587).

Sincerely,

Julie Harvey, Drinking Water Protection Coordinator Water Quality Division

Julie KHarvey

Cc: Casey Lyon, Technical Services Manager, Oregon Health Authority

# **Updated Source Water Assessment**

### **City of Silverton**

PWS #4100823

**November 2018** 

Prepared for:

**City of Silverton** 



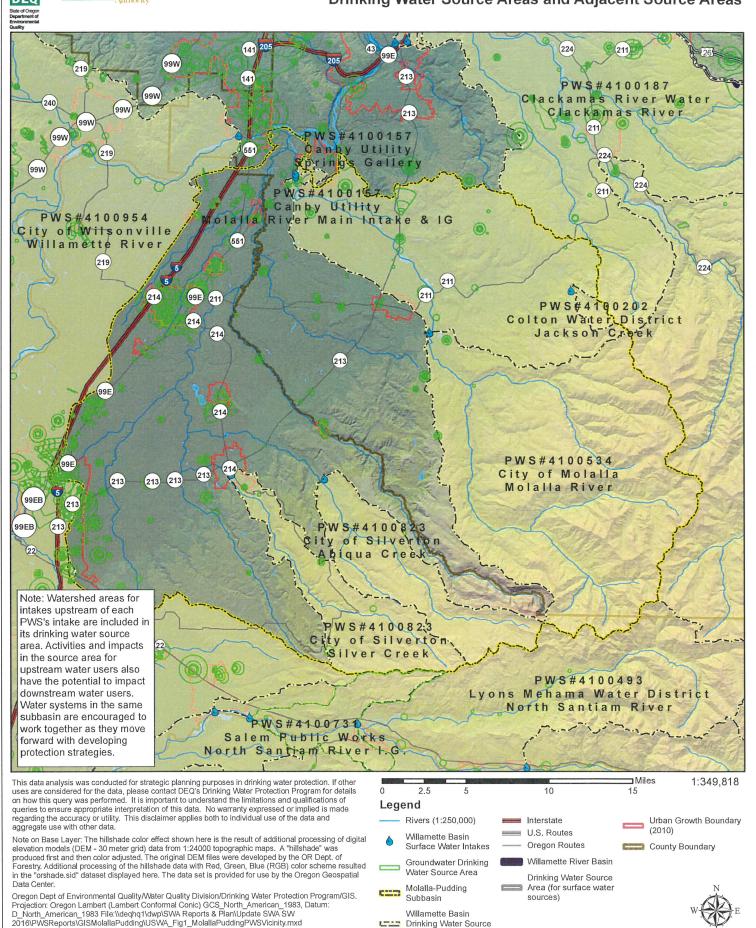
Prepared by:





Prepared by: cch 3OCT2018

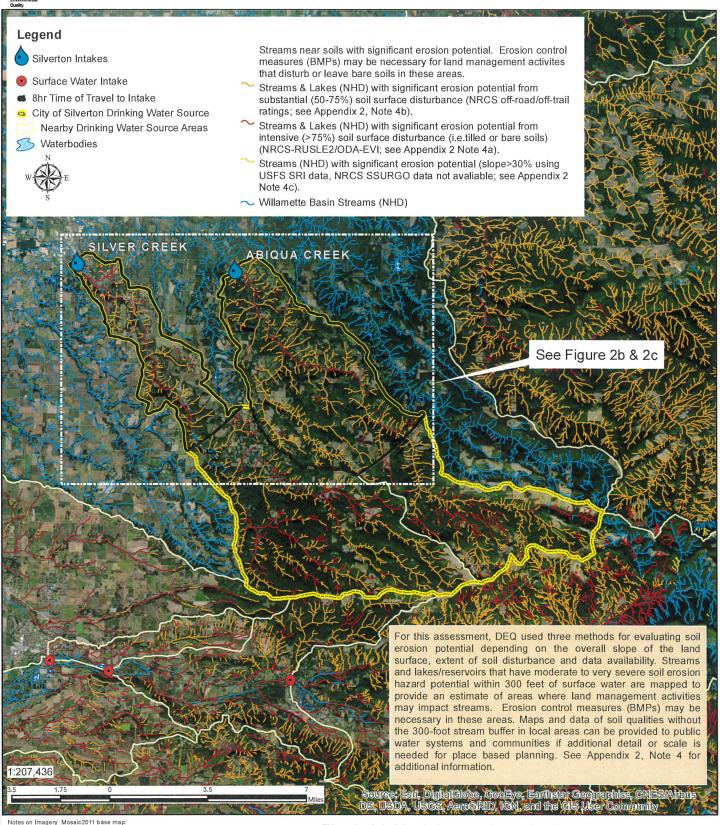
Figure 1. Molalla-Pudding Subbasin Public Water Systems (PWSs)
Drinking Water Source Areas and Adjacent Source Areas



Areas (surface water)



### Figure 2a. City of Silverton (PWS 00823) Drinking Water Source Areas with **Erosion Potential for Management Activities with Soil Surface Disturbance** (See Appendix 2 for Key to map details and metadata)



Notes on Imagery\_Mosaic2011 base map: -The Imagery Mosaic is from the 2011 National Agriculture Imagery Service (NAIS), 1 meter color aerial Imagery from Farm Service Agency (FSA)/U.S. Dept. of Agriculture (USDA). The imagery, collected during the summer of 2005, 2009, and 2011, can be viewed or downloaded from Oregon Imagery

Oregon Dept of Environmental Quality/Water Quality Division/Drinking Water Protection Program/GIS. Projection: Oregon Lambert (Lambert Conformal Conic) GCS\_North\_American\_1983, Datum: D\_North\_American\_1983 File:\\deghq1\dwp\SWA Reports & Plan\Update SWA SW 2016\ PWSReports\ 4100823\_Silverton\USWA\_Fig2a\_Silverton\_SensitiveAreas.mxd Prepared by: cch 12SEP2018

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### Figure 2b. City of Silverton (PWS 00823) Abigua Creek Drinking Water Source Areas with Erosion Potential for Management Activities with Soil Surface Disturbance (See Appendix 2 for Key to map details and metadata)



Notes on Imagery\_Mosaic2011 base map:

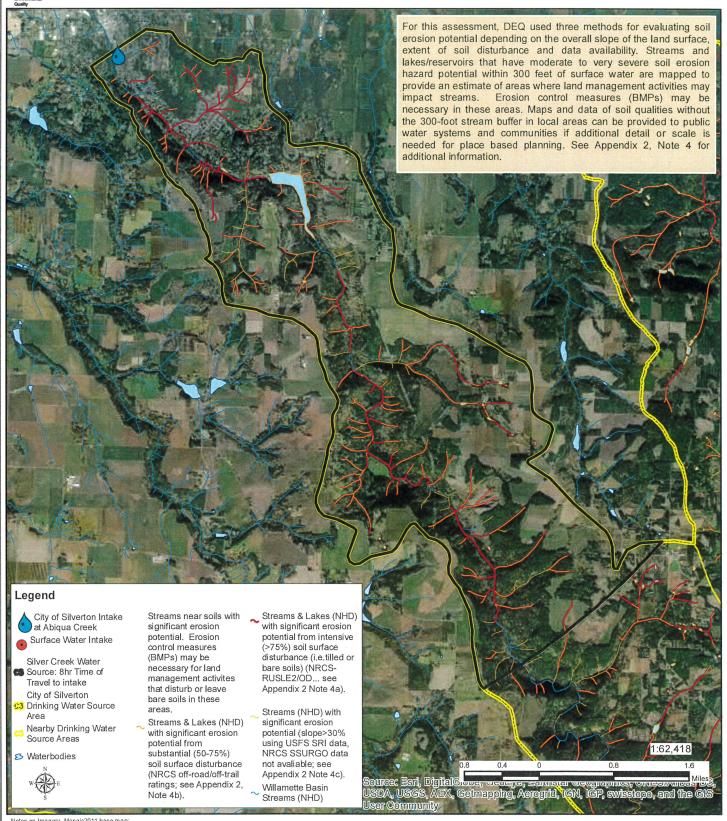
- The Imagery Mosaic is from the 2011 National Agriculture Imagery Service (NAIS), 1 meter color aerial imagery from Farm Service Agency (FSA)/U.S. Dept. of Agriculture (USDA), The imagery, collected during the summer of 2005, 2009, and 2011, can be viewed or downloaded from Oregon Imagery.

exposes. Oregon Dept of Environmental Quality/Water Quality Division/Drinking Water Protection Program/GIS. 4100823\_Silverton\USWA\_Fig2a\_Silverton\_SensitiveAreas.mxd Prepared by: cch 12SEP2018

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#### Figure 2c. City of Silverton (PWS 00823) Silver Creek Drinking Water Source Areas with Erosion Potential for Management Activities with Soil Surface Disturbance (See Appendix 2 for Key to map details and metadata)



Notes on Imagery\_Mosaic2011 base map:

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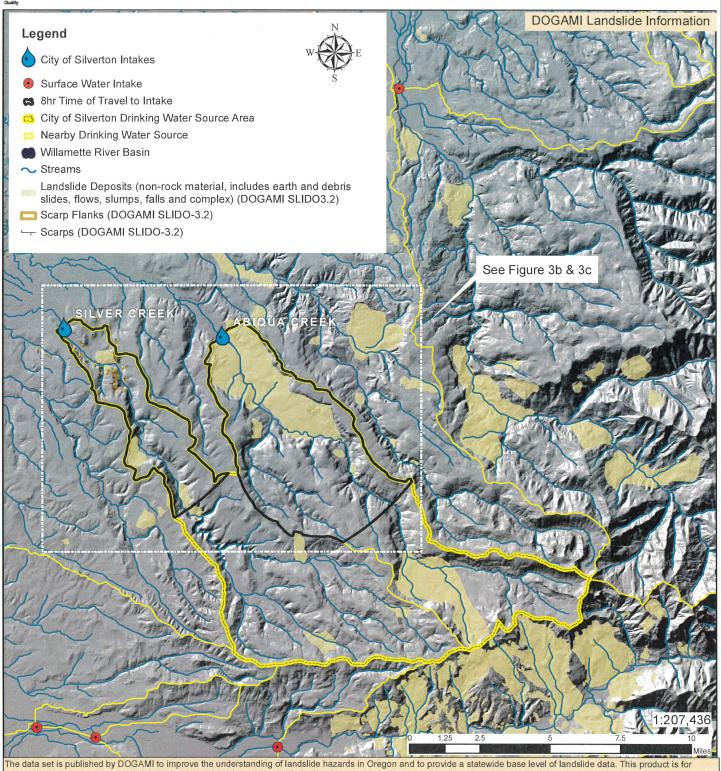
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### Figure 3a. City of Silverton (PWS #00823) **Drinking Water Source Area Landslide Hazards Map** (See Appendix 2 for Key to map details and metadata)



informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information. This publication cannot substitute for site-specific investigations by qualified practitioners. Sitespecific data may give results that differ from the results shown in the publication. For more information see: http://www.oregongeology.org/sub/slido/ OR DEQ's Water Quality Program is currently working with DOGAMI to develop and provide a more detailed landslide potential analysis for public water systems. Contact Oregon DEQ's Environmental Solutions Division/Water Quality Program for further information on the analysis. If data is available for the specific area, DEQ will provide the more detailed landslide analysis to the

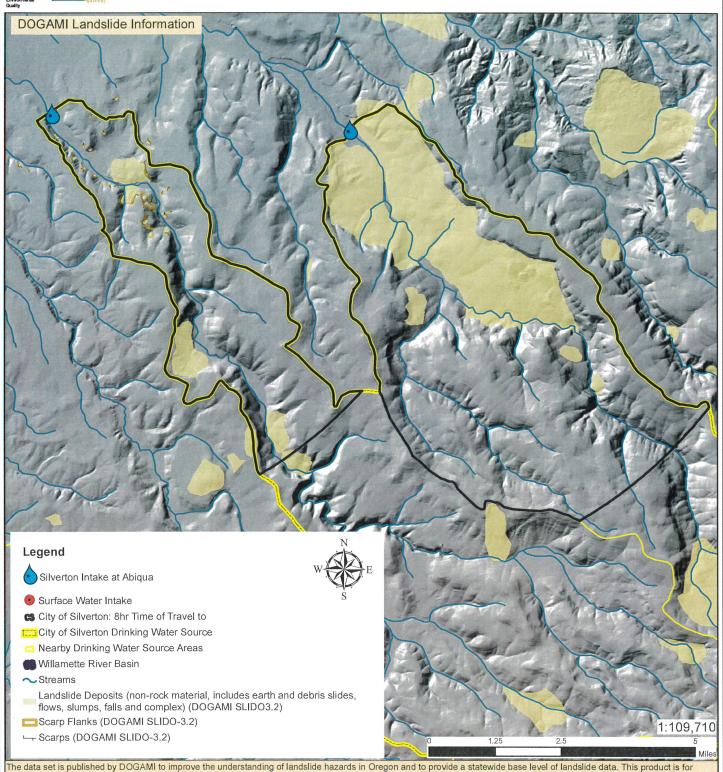
Notes on DOGAMI LIDAR or DEM Hillshade base layer: Digital Elevation Model (DEM 10 meter) data from Light Detection and Ranging (LIDAR)) studies or, if no LIDAR data is available, USGS 12:4000 DEM data was converted to Nillshade by OR Dept, of Forestry (2008-12-23). The LIDAR dataset is available at the website noted in the Key to Figures & Talles.

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Figure 3b. City of Silverton (PWS 00823) Abiqua Creek 8-hour Time-of-Travel Landslide Hazards Map (See Appendix 2 for Key to map details and metadata)



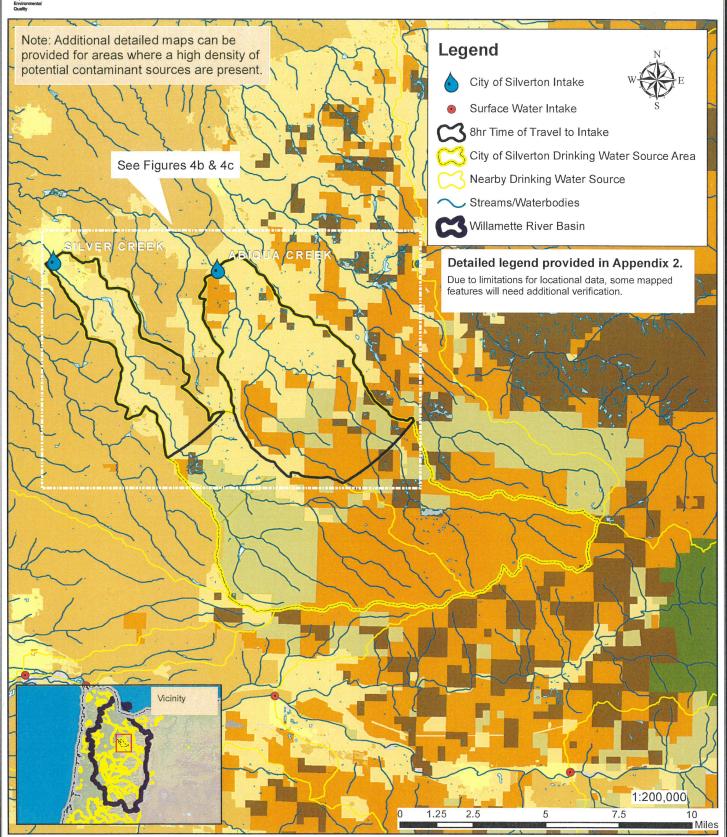
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### Figure 4a. City of Silverton (PWS 00823) Drinking Water Source Area with Land Ownership/Use (See Appendix 2 for Key to map details and metadata)



Oregon Dept of Environmental Quality/Water Quality Division/Drinking Water Protection Program/GIS. Projection: Oregon Lambert (Lambert Conformal Conic) GCS\_North\_American\_1983, Datum: D\_North\_American\_1983
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Prepared by: cch 13SEP2018

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#### Figure 4b. City of Silverton (PWS 00823) Abiqua Creek 8 Hour Time of Travel -Potential Anthropogenic Sources and Land Ownership/Use (See Appendix 2 for Key to map details and metadata)

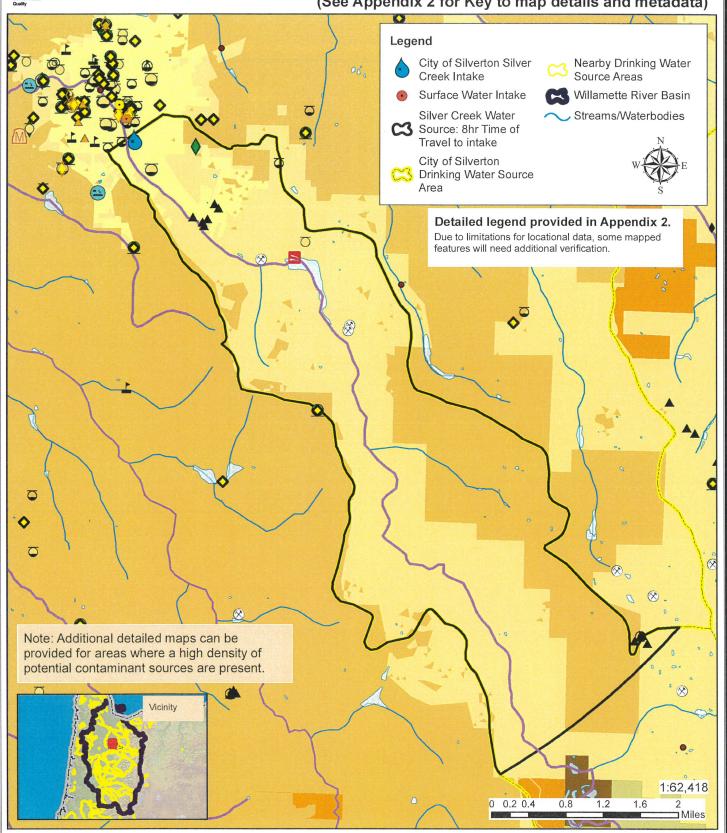
Note: Additional detailed maps can be Legend provided for areas where a high density of potential contaminant sources are present. City of Silverton Abiqua Creek Intake Surface Water Intake Abigua Creek Water Source: 8hr Time of Travel to intake City of Silverton Drinking Water Source Nearby Drinking Water Source Willamette River Basin Streams/Waterbodies Detailed legend provided in Appendix 2. Due to limitations for locational data, some mapped features will need additional verification. (8) Vicinity 1:66,546 0 0.2250.45 2.25 0.9 1.35 1.8 Miles

Oregon Dept of Environmental Quality/Water Quality Division/Drinking Water Oregon Dept of Environmental Quality/Water Quality Division/Initing Water Protection Program/GIS. Projection: Oregon Lambert (Lambert Conformal Conic) GCS\_North\_American\_1983, Datum: D\_North\_American\_1983 File:\\deqhq1\dwp\SWA Reports & Plan\Update SWA SW 2016\PWReports\ddot4100823\_Silverton\USWA\_Fig4b\_Silverton8hr\_PCSs.mxd

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### Figure 4b. City of Silverton (PWS 00823) Silver Creek 8 Hour Time of Travel Potential Anthropogenic Sources and Land Ownership/Use (See Appendix 2 for Key to map details and metadata)



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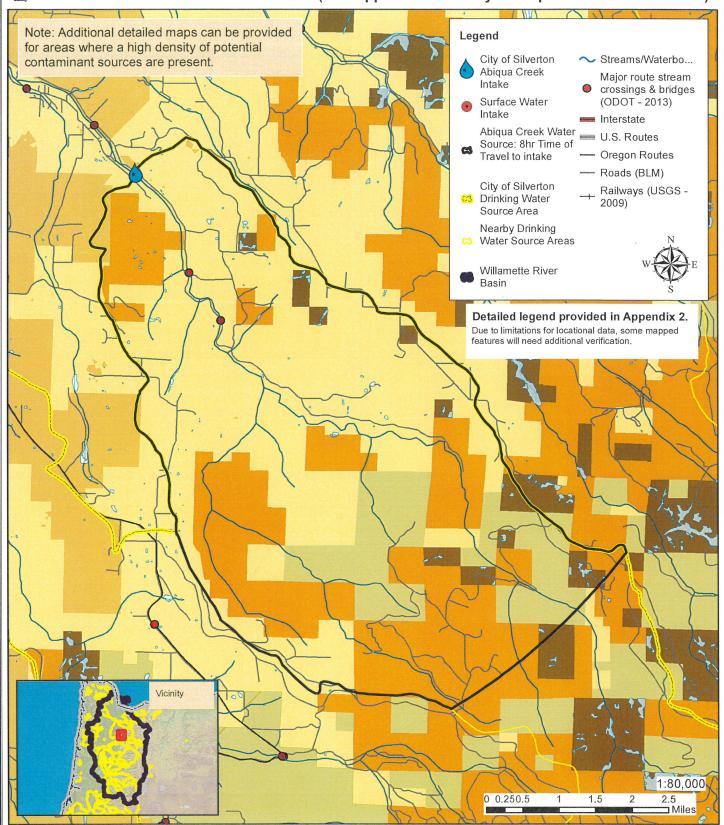
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Prepared by: cch 13SEP2018

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### Figure 4c. City of Silverton (PWS 00823) Abiqua Creek 8 Hour Time of Travel Transportation Corridors and Land Ownership/Use (See Appendix 2 for Key to map details and metadata)

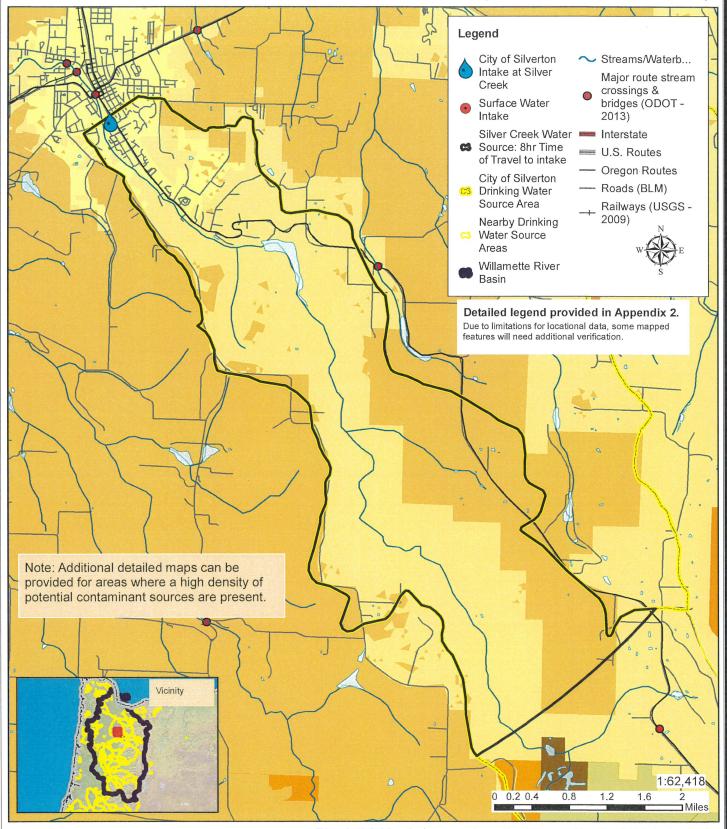


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### Figure 4c. City of Silverton (PWS 00823) Silver Creek 8 Hour Time of Travel Transportation Corridors and Land Ownership/Use

(See Appendix 2 for Key to map details and metadata)



Oregon Dept of Environmental Quality/Water Quality Division/Drinking Water Protection Program/GIS.
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### Table 1. Public Drinking Water System Land Use and Susceptibility Analysis Summary (See Appendix 2 for Key to Tables and Notes)

Public Water System Name PWS ID

8-hr time-of-travel

(sq.mi.)

Drinking Water Source Name County Served Sub basin

Population (includes wholesale buyers) (2) Number of Public Water Systems Served (2)

#### City of Silverton

4100823

Abiqua and Silver Creek
Marion
Molalla/ Pudding

9,502

**Full SW Source Area** 

(sq.mi.)

1

Notes

Drinking Water	Source Area (DWSA) Size(1)	4	2		97		
		16			98		
Stream	Miles (NHD) in DWSA	10	D9	] [3	98		
	Owner Type	Area (sq. mi.)	% of DWSA	Area (sq. mi.)	% of DWSA	Notes	
	Agricultural	4.06	10%	4.54	5%		
	Private Industrial Forest	9.23	22%	39.38	41%	·	
	Private (Urban)	0.79	2%	0.79	<1%		
	Private (Rural)	23.33 55% 29.11 30%		29 11	30%	The data on land uses is only approximate due	
Land Use /	Local Govt			to limitations within the GIS layers. Public water			
Ownership (3)	State Forest	3.71	9%	6.36	7%	systems and communities could use tax lot of	
	Other State Lands			13.23	14%	available from the counties or other datasets t	
	BLM	1.07	3%	3.16	3%	further refine the analysis if higher accuracy is	
	USFS					needed.	
	Other Federal Lands			1			
	Tribal						
	Other						
Potential Pollutants (see Table 2 for potential pollutants based on regulatory database search and Figures for approximate	Stream Miles in Erodible Soils <sup>(4)</sup>	16	64	3	89	Erosion control measures ("best management practices") may be necessary for land management activities that disturb or leave bare soils in these areas. Maps and data of so qualities without the 300-foot stream buffer in	
	High Soil Erosion Potential Percent <sup>(4)</sup> (% stream mi w/ high erosion located w/in 300' of the stream)	97.0	05%	97.8%		local areas can be provided to public water systems and communities if additional detail of scale is needed for place-based planning. See Note 4 in Appendix 2.	
	Shallow Landslide Potential	see note		see note		More details on shallow landslide susceptibility may be available. Contact DEQ Drinking Water Protection for additional information.	
locations)	Landslide Deposits <sup>(5)</sup> (DOGAMI - SLIDO 3.2)		roughout - see note	areas throughout watershed - see note		Includes earth and debris slides, flows, slumps falls and complex landslide types. Does not include rock material landslide deposits.	
	Treatment Process	Filtration- Rapid Sand Complete treatment train: Coagulation, Flocculation, Rapid Mix, PH/ALK ADJ-Caustic Soda, Sedimentation, Filtration- Rapid sand, Hypo chlorinating					
	Safe Drinking Water Information System Results <sup>(6)</sup>	MCL Violations and Significant Detections (2005, 2017)(6)					
	Regulated volatile organic chemicals, synthetic organic chemicals and inorganic compounds	d none					
Water Quality Monitoring Data and Treatment	Disinfection byproducts (Total Trihalomethanes (TTHM), Halo acetic acids (five) (HAA5),			-	non	е	
Method	Bacteria (Ecoli and TCR=Total Coliform Rule)	TCR (1-20	005, 2-2010)	result due t		3/2010 and reported. Possible reason for positivicted at the end of a line. Repeats were performentation needed.	
	DEQ/OHA Source Water						
	Monitoring project test data <sup>(7)</sup>				Source water r	not analyzed	
	Additional raw water quality monito					ole from other sources including USGS, DEQ's cion districts or watershed councils) or local	

### DECI State of Oregon Department of

## Table 2: Summary of Potential Sources of Pollution identified in the 8-hour time-of-travel for the DWSA Intake as identified in readily accessible state and federal databases and GIS layers Updated Source Water Assessment

see Appendix 2 for Key to Tables for Notes and Descriptions of Acronyms

See Appendix 5 for detailed list of potential sources including potential sources identified in the area delineated area for the groundwater sources.

### Health

#### PWS NAME: City of Silverton PWS Number: 4100823

- This summary only includes potential sources of pollution within the estimated 8-hour time of travel area which is provided as a planning tool since eight hours should provide adequate response time to protect the integrity of the public water system intake after a spill or release at any crossing or discharge point to the stream. It is recommended the water system and community considers increased protection within this 8-hour travel time from the intake for spills and other acute risks. Focus may need to extend further upstream for contaminants that are contributed to the stream over long time periods or recur frequently.
- This information supplements the Original Source Water Assessment Inventory dated between 2000 and 2005 and should be used in conjunction with the original inventory to provide a more detailed analysis of potential sources of pollution.
- Note that due to state database limitations, some sites will require further research to verify presence and location.

s	ummary of Regulatory Database Results - State and Federal - see Appendix 5 f	or detailed li	st
		Relative	
DEQ PCS		Surface	
Code	Potential Contaminant Source (PCS) Type	Water Risk	Count
	Agricultural\Forest		11
	Crops - Irrigated - Berries, Hops, Mint, Orchards, Vineyards/Nurseries, Green Houses,		
A04	Vegetables, etc.	Н	2
A05	Crops - Nonirrigated - Christmas Trees, Grains, Grass Seeds, Hay, Pasture	L	3
A07	Grazing Animals - > 5 Large Animals or Equivalent/Acre	Н	1
A11	Managed Forest Lands - Clearcut Harvested - < 35 yrs	Н	3
A12	Managed Forest Lands - Partial Harvested - <10 yrs	H	11
A14	Pesticide/Fertilizer/Petroleum Storage, Handling, Mixing, & Cleaning Areas	Н	1
	Commercial\Industrial		50
C01	Automobiles - Body Shops	M	1
C04	Auto - Repair Shops	M	3
C07	Chemical/Petroleum Processing/Storage	Н	13
C08	Dry Cleaners	M	2
C14	Junk/Scrap/Salvage Yards	Н	2
C18	Mining Activities - Active - sand/gravel/rock/soil	Н	7
C18	Mining Activities - Gravel Mines/Gravel Pits	H	7
C21	Photo Processing/Printing	Н	1
C52	Communications Office	L	2
C53	Construction Company	M	1
C58	Known Contamination Sites/Plumes/Spills (ECSI)	Н	2
C60	Maintenance Shop/Equipment Storage - Not Transportation Related	М	1
C61	Maintenance Shop/Equipment Storage - Transportation Related	M	1
C68	Miscellaneous Equipment Maintenance	H	1
C69	Mining Activities - Inactive - sand/gravel/rock/soil	M	6
	Residential\Municipal	•	8
R09	Housing - High Density - > 1 House/0.5 Acres	М	2
R10	Municipal/Industrial Landfill	Н	1
R15	Schools	M	4
R17	Sewer Lines - Close Proximity to PWS	M	1
	Miscellaneous		75
M01	Above Ground Storage Tanks-Excluding Water Tanks and Residential ASTs	М	2
M09	Homesteads - Rural - Septic Systems < 1/Acre	L	3
M10	Industrial/Commercial Injection Wells/Drywells/Sumps - Class V UICs	М	1
M13	Random Dumpsites	Н	1

DEQ PCS Code	Potential Contaminant Source (PCS) Type	Relative Surface Water Risk	Count
M14	River Recreation - Heavy Use (inc Campgrounds)	Н	1
M18	Transportation Corridors - Freeways/Highways or other heavy use roads	Н	1
M22	Transportation Corridors - Stream Crossing - Perennial	Н	9
M23	UST - Confirmed Leaking Tanks - DEQ LUST List	M	7
M26	UST - Confirmed Leaking but listed as NFA - DEQ LUST List	L	27
M27	UST - Upgraded and/or Registered - Active (may also have decommissioned tanks on site)	L	1
M54	Surface Water on 303d list	Н	18
M57	DEQ Permitted Stormwater Discharges (NPDES or WPCF)	H	. 2
M59	Stormwater Wastewater Injection/Dry Wells, Sumps - Class V UICs	L	1
M62	Industrial or Process Wastewater - WPCF and NPDES/ Lagoons and Liquid Waste	L	1

### APPENDIX # 1

# **Developing Strategies For Drinking Water Protection**

Many<sup>1</sup> public water systems in Oregon will receive an Updated Source Water
Assessment (USWA) developed by the Oregon Department of Environmental
Quality (DEQ) and the Oregon Health
Authority (OHA) drinking water protection team by 2017. USWAs provide the water systems and communities more detailed information on the watershed or recharge area that supplies their well, spring or intake (the "drinking water source area"). Public water systems and local communities can use the information in the assessments to voluntarily develop and implement drinking water protection strategies.

Requirements for water quality monitoring of public water systems in Oregon provide some degree of assurance of safe drinking water; however, all systems are vulnerable to potential contamination. One of the best ways to ensure safe drinking water and minimize future treatment costs is to develop local strategies designed to protect against potential contamination. Not only will this add a margin of safety; it will also raise local community awareness of drinking water contamination risks and provide information about how communities and local landowners can help protect their drinking water sources.

### Using Place-Based Planning to Develop Protection Strategies

The drinking water source area for most communities lies partially, if not entirely, outside of their jurisdiction and may include several different governing agencies as well as a diverse mix of landowners, businesses and residents. When developing protection strategies, DEQ and OHA highly recommend that the water system and community involve potentially affected

<sup>1</sup> All community water systems using surface water will receive a USWA. Because of the number of water systems using groundwater in Oregon, the Oregon Health Authority has prioritized completing assessments for new

stakeholders early in the process to foster stakeholder awareness and trust in the resulting strategies.

Oregon adopted an "Integrated Water Resources Strategy (IWRS)" in 2012 that provides recommendations for how to do a place-based and integrated approach to water resources planning. This approach helps communities achieve the level of coordination and collaboration to successfully address local water quality and water quantity challenges, such as developing and implementing strategies to protect their drinking water sources. The IWRS Place-Based Planning guidelines describe elements to consider for building a collaborative process, characterizing waterrelated issues, quantifying existing and future water needs, developing a suite of solutions, and adopting and implementing the plan. More information about the process can be found in this Water Resources Department document: https://www.oregon.gov/OWRD/programs/P lanning/PlaceBasedPlanning/Pages/default.a

#### Strategies to Achieve Risk Reduction

The primary goal of the drinking water protection strategies should be to reduce or minimize the risks of pollution in the source water. It is highly improbable that one can *eliminate* risks in any area, but by applying one or more protection strategies, a community will be able to reduce the likelihood of pollutants affecting the water supply in the future. Potential strategies include both general management practices such as conservation or efficiency measures that will apply to the entire drinking water protection area and management practices that can be applied most appropriately by land-use category (commercial/industrial,

Community and Non-Transient Non-Community water systems and systems that have added a new water source since their original source water assessment was completed.



Water Quality -Drinking Water Protection

Quality

700 NE Multnomah St. Suite 600 Portland, OR 97232

Phone: 503- 229-5664 800- 452-4011

Fax: 503-229-6037 Contact: Julie Harvey http://www.oregon.gov/DE

O/wq/programs/Pages/DW P aspx



Oregon Health Authority Drinking Water Program

444 "A" Street Springfield, OR 97477 Phone: 541-726-2587 Fax: 541-726-2596 Contact: Tom Pattee

http://www.healthoregon.or

g/dwp

agricultural/rural, forestry, residential/municipal, and miscellaneous). The following list provides some of the most

common management options as an example to public water suppliers and communities:

#### Example Strategies for Drinking Water Protection

#### Non-Regulatory Options

**Notify and Educate the Public:** Contact property owners within the protection area so they are aware of the need for protection measures. Let them know this is voluntary. Focus educational efforts on basic information about the source water and the relationship between surface activities and the water quality; familiarity with the location of the protected area; basic information on sources of contamination; and effective strategies for safe management of all potential contaminants. Public education/notification can be accomplished using local news outlets, letters to residents, letters to land owners/operators, and bill stuffers/customer mailings. Information signs could be placed adjacent to roadways entering the protection area. Include on the sign the name of the water system/jurisdiction and a phone number where callers can obtain more information or report releases.

Use Technical Assistance Resources: Work with local or state providers of technical assistance (e.g., DEQ's regional offices, Soil and Water Conservation Districts, OSU Extension) to encourage the use of best management practices for pollution prevention and waste reduction. Apply for grants or funding to provide financial incentives such as pollution prevention tax credits, low-interest loans or direct subsidies/cost sharing. Provide recognition for environmental friendly businesses and operations (e.g., green awards, plaques/door signs).

**Sponsor Hazardous Waste/Unused Chemical Collection:** Establishing a permanent location or holding one-day events to collect hazardous wastes from community residents (including households and small businesses) is an effective way to reduce risks posed by storing hazardous wastes or other chemicals within the protection area. Hold an amnesty (free-disposal) event for unused business or agricultural chemicals stored in the protection area. Set up a local materials exchange program (or publicize existing programs).

**Develop Spill Response Plans:** Encourage and assist your local fire department and transportation department with spill response planning. Jurisdictions within protection areas could develop specific spill response procedures to allow quicker response and notifications should a hazardous material spill or release occur. These can be integrated into your county's Emergency Management Plan. Contact the Oregon Department of Transportation (ODOT) for state highways.

Acquire Land or Rights to Development: Community ownership of as much as possible of the critical land areas within the protection area and managed for water quality protection provides some of the best assurance of long-term protection of the public water supply. Protection could be provided by ownership accomplished through methods such as capital or bond fund programs, or through easements and deed restrictions. Private non-profit land conservation organizations or local land trusts in your area can assist you in acquiring land within your protection area by conveyance to a trust, seeking donations, or direct land purchases for conservation.

#### **Local Regulatory Options**

Existing Regulations and Permits: Take advantage of opportunities to provide public comment and input when existing regulatory programs are reviewing permits or programs which affect the siting, design, construction, operation or closure of facilities within your protection area. Ensure you are included on regulatory agency contact lists so that you receive announcements for public involvement opportunities. Consider participating in advisory group meetings for specific topics of interest. Ensure that the regulatory programs are aware of your protection area and request that compliance inspections or technical assistance is prioritized in critical areas.

Land Use Controls (Zoning/Health Ordinances): There are many different types of zoning tools. Your community can identify the protection area with an overlay map and enact specific requirements for land uses and development within these boundaries in order to protect public health. Ordinances applying to sites that pose a risk to water quality within the overlay area may include prohibition of various land uses (such as landfills or underground fuel storage tanks); subdivision controls (such as limiting density or requiring larger lot sizes); special permitting or siting requirements (i.e. placing limitations on the use of toxic and hazardous materials, pesticides, salts); and performance standards (i.e. requiring secondary containment for petroleum or chemical storage over a certain volume).

### How do communities use the Updated Source Water Assessments?

The Updated Source Water Assessment (USWA) provides the information for developing local protection strategies. The USWAs include details characterizing the source area and potential source water risks. It also provides key information that will allow the community to focus limited resources on higher-risk areas within the watershed or recharge zones for wells. The USWA information should be supplemented with local knowledge of the water system and community. The water system and community can refine the delineation of sensitive areas and identification of potential contamination sources through further research, local input and coordination with state agencies.

The USWA source area characterization should be reviewed to clarify the presence, location, operational practices, and actual risks of the identified facilities and land-use activities. Additional potential contaminant sources or sensitive areas may also be added based on local knowledge or additional research. Potential sources with low or no risk (such as landowners who have already incorporated best management practices into their operations to protect your source of drinking water) can be screened out or selected for low priority outreach or technical assistance. Local and state resources can then be directed to the highest priority potential problems in the drinking water source area.

Another way to use the information in the USWA is in developing the water system's contingency plan. Contingency planning focuses on potential threats to the drinking water supply (such as mechanical problems, chemical detections in the source water, chemical spills in the source area, or natural disasters) and the development of procedures to be followed should these events occur. Guidance for preparing a contingency plan and examples are available from OHA. Many contingency plan elements may have already been completed by public water systems as

part of their required Emergency Response Plan. Additional elements can be added as drinking water source protection strategies are developed.

Public water systems may also find it necessary, as a result of either existing or projected increased demand, to explore the development of additional sources for drinking water. Drinking water source protection provides a mechanism that can be used to help select the best site and identify areas that should be protected now so they will provide quality drinking water in the future. Additionally, development of a new groundwater source in the vicinity of existing sources may modify the movement of groundwater in the subsurface, perhaps changing the shape and orientation of existing drinking water source areas. Evaluation of the significance of those changes should be addressed in the protection planning process to ensure that the management strategy in place will continue to protect the community's drinking water supply.

#### Need assistance?

Drinking water source protection is already at work in Oregon. A number of Oregon communities are currently developing and implementing strategies to protect their drinking water source areas. Successful drinking water protection plans developed in Oregon are available to communities as templates or examples. Staff members at OHA and DEQ are available to provide assistance, and extensive written materials are available to local community groups or consultants to assist in developing drinking water protection plans or strategies.

Detailed information about developing drinking water source protection strategies can be found on DEQ's Drinking Water Protection Program website. The website also includes Updated Source Water Assessment methods and results, Resource Guides for both surface water and groundwater, sample Drinking Water Protection Plans,

information for schools, and links to many other useful sites: <a href="http://www.oregon.gov/deq/wq/programs/Pages/DWP.aspx">http://www.oregon.gov/deq/wq/programs/Pages/DWP.aspx</a>

The OHA – Drinking Water Program website includes system characteristics, monitoring data, contacts for all public water systems in Oregon, drinking water standards, fact sheets on contaminants, information on the Safe Drinking Water Revolving Loan Fund (including Source Protection Fund Grants), Consumer Confidence Reports, and more: <a href="http://www.healthoregon.org/dwp">http://www.healthoregon.org/dwp</a>

Water systems or community members interested in the potential of developing drinking water protection strategies should contact the respective DEQ and OHA coordinators. Those systems using surface water sources should initially

contact Julie Harvey, Drinking Water Protection Program Coordinator, DEQ, Portland, (503) 229-5664. Groundwater-based water systems should initially contact Tom Pattee, Groundwater Coordinator, OHA, Springfield, (541) 726-2587 x24. As the state moves further into the protection phase of the Oregon program, DEQ and OHA will be able to direct individual requests for assistance to specific staff trained and experienced in that area, both within the state agencies and in other partner organizations.

#### **Alternative formats**

Documents can be provided upon request in an alternate format for individuals with disabilities or in a language other than English for people with limited English skills. To request a document in another format or language, call DEQ in Portland at 503-229-5696, or toll-free in Oregon at 1-800-452-4011, ext. 5696; or email deqinfo@deq.state.or.us.

### APPENDIX # 2



### Key to Figures and Tables including Notes and Symbols Updated Source Water Assessments

#### **General Legend:** ♦ Public water system surface water intake Public water system drinking water source area for surface water Nearby public water system, surface water intake Nearby public surface water system drinking water source area Groundwater 2-yr TOT (Zone 1 for Springs) Groundwater Drinking Water Source Interstate \_\_\_U.S. Routes -Oregon Routes -Roads (BLM) +--- Railways (USGS - 2009) ---- Stream (NHD) City limits (ODOT, 2013) Urban Growth Boundary County Boundary **Erosion Potential:** Streams near soils with significant erosion potential. Erosion control measures (BMPs) may be necessary for land management activites that disturb or leave bare soils in these areas. Streams (NHD) with significant erosion potential from ∼ intensive (>75%) soil surface disturbance (i.e.tilled or bare soils) (NRCS-RUSLE2/ODA-EVI; see Note 4a). Streams (NHD) with significant erosion potential from substantial (50-75%) soil surface disturbance (NRCS offroad/off-trail ratings; see Note 4b). Streams (NHD) with significant erosion potential (slope>30% vusing USFS SRI data, NRCS SSURGO data not avaliable; see Note 4c). Landslide Information Landslide Deposits (non-rock material, includes earth and debris slides, flows, slumps, falls and complex) (DOGAMI SLIDO3.2) Scarp Flanks (DOGAMI SLIDO-3.2) Scarps (DOGAMI SLIDO-3.2) Land Ownership/Use: Private Urban Lands (within city limits) Private Rural Lands (private non-industrial outside city limits) Agriculture (Ag Zoning (BLM) and NASS 2013) Private Industrial Forests (ODF data); Lands Managed by Private Industry (BLM) Local Government State Dept. of Forestry State - Other Bureau of Land Management U.S. Forest Service Federal - Other Bonneville Power Administration Bureau of Indian Affairs

Undetermined Water

### Potential Sources of Pollutants identified in State and Federal Regulatory Databases:

- Confined Animal Feeding Operations (ODA as of 1/20/216)
- Dry Cleaner, Active (DEQ as of 2015)
- Dry Cleaner, Dry Store (DEQ as of 2015)
- Dry Cleaner, Closed (DEQ as of 2015)
- Dry Cleaner, Inactive (DEQ as of 2015)
- Dry Cleaner, Solvent Supplier (DEQ as of 2015)
- Environmental cleanup site with known contamination (DEQ as of 01/2016)
- Environmental cleanup site No Further Action required or otherwise lower risk (DEQ as of 01/2016)
- Hazardous Material Large Quantity Generator (DEQ HW as of 1/02/2016)
- Hazardous Material Small Quantity or Conditionally Exempt Generator (DEQ HW as of 1/02/2016)
- Hazardous Material Transport, Storage, and Disposal sites (DEQ HW as of 1/2016)
- Hazardous Substance Information System (OSFM as of 2009)
- Hazardous Substance Information System AST (OSFM as of 2009)
- Leaking underground storage tank Confirmed (DEQ as of 9/2012) (Locaton will likely need verification.)
- Leaking underground storage tank with No Further Action required or otherwise lower risk (DEQ as of 9/2015) (Location will likely need verification.)
- Mining permits (DOGAMI as of 1/16/2014)
- Oil and Gas wells (permitted only) (DOGAMI as of 7/2016)
- Updated Source Water Assessment Potential Contaminant Source Area-wide source (DEQ as of 2017)
- Updated Source Water Assessment Potential Contaminant Source Point source (DEQ as of 2017)
- Original Source Water Assessment Potential Contaminant Source Area-wide source (DEQ as of 2005)
- Original Source Water Assessment Potential Contaminant Source Point source (DEQ as of 2005)
- School Locations OR (DHS as of 2015)
- Solid Waste sites (DEQ SW as of 1/25/2016)
- Underground Injection Control (DEQ as of 1/12/2016)
- Underground Storage Tanks (DEQ as of 1/25/2016) (Location will likely need verification.)
- Water Quality domestic wastewater treatment sites (DEQ SIS as of 1/25/2016)
- ♦ Water Quality permits (DEQ SIS as of 1/25/2016)
- Major route stream crossings and bridges (ODOT 2013)
- Water Quality effluent outfalls (DEQ -WQ as of 2009)
- Water Quality Concern; lakes Cat3 (DEQ 2012)
- Major route stream crossings & bridges (ODOT 2013)
- Water quality limited stream/lake, DEQ 303(d) list Cat 4A or 5, TMDL approved or needed (DEQ 2012)
- Water Quality Concern stream/lake, DEQ 303(d) Cat.3, Insufficient Data (DEQ 2012)

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### Key to Figures and Tables including Notes and Symbols Updated Source Water Assessments

#### **Notes**

(1) DWSA - drinking water source area - delineated as the 5th-field watershed upstream of the intake. Oregon's surface water source areas are delineated intake to intake. For watersheds with more than one intake, the DWSA is the watershed segment from the PWSs intake to the next intake upstream. All protection areas upstream of a specific water system's intake are included in the drinking water source area for that water system and PWSs are encouraged to work with other water providers and other entities within the Subbasin as they evaluate potential sources and move forward with developing protection strategies.

Time of travel to the intake (8-hour TOT estimate): For surface water systems that encompass an area greater than 100 square miles DEQ has also estimated the area within an 8-hour time of travel from the intake. The 8-hour time of travel distance was estimated using Extended Unit Runoff Method (EROM) for the intake's stream segment in the National Hydrography Dataset (NHDPlus V2). Input data for EROM includes runoff, temperature, precipitation and the model is calibrated using stream gage flow records. For estimating the 8-hour time of travel distance, DEQ used the NHDPlus-V2 mean annual flow estimate (V0001E) attribute which provides a calculated stream velocity in the reach at mean flow. For purposes of this assessment, the 8-hour time of travel is calculated only for the intake's reach segment and is shown as a radial ring originating at the intake which conservative estimate of the upstream 8-hr time of travel distance. For lakes and reservoirs, the 8-hour time of travel includes both the lake/reservoir length and an 8-hr time of travel distance calculated based on the nearest stream segment upstream of the reservoir or lake. This conservative method is used for lakes and reservoirs because data for residence times and dilution are not readily available. The 8-hour time of travel area is provided as a planning tool for the public water system and community since eight hours should provide adequate response time to protect the integrity of the public water system intake after a spill or release at any crossing or discharge point to the stream. Although potential risks to the water supply can exist throughout the watershed, the area within an 8-hour time of travel from the intake is the area where contamination poses the greatest threat to the drinking water supply. It is recommended the water system and community considers increased protection within this 8-hour travel time from the intake for spills and other acute risks. Focus may need to extend further upstream for contaminants that are contributed to the stream over long time periods or recur frequently.

(2) There are independent public water systems that purchase water from the water systems listed and distribute it within their service areas. The total population served listed includes these "wholesale" customers and the total number of PWSs using the source water is also provided.

#### (3) Land Ownership/Use

The dataset is a combination of multiple datasets and was developed by DEQ in 02/2015 and updated 03/2017. The primary dataset is from Bureau of Land Management BLM (OWNERSHIP\_POLY.shp dated 06/20/2013) obtained from BLM at: http://www.blm.gov/or/gis/data-details.php?id=425. Publication date: 20130718. The dataset has been modified by grouping land owner categories in order to simplify data display on the map and using geospatial techniques to add additional data to capture the following land uses:

- agricultural land using a combination of the National Agricultural Statistics Service (NASS) data from Natural Resource Conservation Service (2007 "cdl\_awifs\_r\_or\_2007.tif") and agricultural land zoning from OR Dept. of Land Conservation and Development (note that public water systems may obtain more detailed information on potential crop types using the US Department of Agriculture National Agricultural Statistics Service "CropScape-cropland data layer." Available at https://nassgeodata.gmu.edu/CropScape/),
- private industrial forests using Oregon Dept. of Forestry's (ODF) Private\_Industrial\_2006\_ ORLambert.shp" last updated in 2013,
- local government land combined from BLM ownership, tax lot ownership information from local county tax lot data and "OR Map" on-line application: <a href="http://www.ormap.net/">http://www.ormap.net/</a>,
- private urban lands based on private lands located within 2016 city limits, and
- all other categories (BLM, USFS, State, etc) from BLM 06202013 data. Note that Private urban lands may
  include residential, municipal, commercial, and industrial land uses. Private non-urban lands typically include
  rural residential land but may also include commercial and industrial land uses.

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### Key to Figures and Tables including Notes and Symbols Updated Source Water Assessments

Because of the nature of combining multiple datasets, minor discrepancies will be seen in some maps especially at larger scales. Public water systems and communities could use tax lot data available from the counties or other datasets to further refine the analysis if higher accuracy is needed.

#### (4) High Soil Erosion Potential

For this updated source water assessment, DEQ used three different soil evaluation methods for estimating soil erosion potential depending on the overall slope of the land surface and data availability. These datasets are as follows:

(4a) For areas with > 75% soil disturbance (such as tilled or bare soils) AND lower slopes (generally  $\le 30\%$ , i.e. valleys and agricultural lands): Potential erosion rates are predicted using USDA Natural Resource Conservation Service (NRCS) Revised Universal Soil Loss Equation -2 (RUSLE2), under conditions of exposed soil lacking both plant roots and conservation practices to reduce or control erosion. The Oregon Dept. of Agriculture's Erosion Vulnerability Index (EVI) utilizes the same approach, and erosion rate classifications used are from ODA's EVI documentation. The NRCS-RUSLE2/ODA-EVI method utilizes the whole soil erodibility (K<sub>w</sub>), rainfall erosivity (R), and length and gradient of slope (LS) factors from NRCS's RUSLE with the soil cover (C) and conservation practice (P) factors set at a value of 1. Setting soil cover and conservation practice factors to "1" illustrates a worst-case scenario where soil is uncovered and exposed directly to precipitation forces and where no conservation practices are in place. Therefore, this index reflects erosion risk from severe agricultural disturbance without mitigating measures in place. It does not evaluate delivery to surface waters. In the Updated Source Water Assessments, DEQ mapped locations where RUSLE2 values are >5 (indicating moderate to very high erosion vulnerability), slopes are low enough for intensive agriculture (≤30%), AND within 300 feet of surface water to estimate where delivery to water is possible. Maps and data of soil qualities without the 300-foot stream buffer in local areas can be provided to public water systems and communities if additional detail or scale is needed for place-based planning.

(4b) For management activities such as silviculture, grazing, mining, urban development, fire, firebreaks, etc. with < 75% soil surface disturbance — the risk of soil loss after disturbance activities that expose the soil surface is based on the "off-road/off-trail erosion hazard rating" developed by the USDA NRCS as shown in the Web Soil Survey online viewer (https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx). Surface erosion hazard potential for non-Forest Service lands with soil disturbance is determined by combining the effects of slope and the whole soil erodibility factor ("Kw-factor") using 1:24,000 Soil Survey Geographic Database (SSURGO) data. The Kw-factor estimates the susceptibility of soil particles to detachment and movement by water including the effects of rainfall, surface runoff, and infiltration. Soils with erosion hazard ratings of Moderate, Severe, and Very Severe are more sensitive to extensive ground disturbance such as uncontrolled grazing, forestry, heavy equipment use, fire control, mining, and urban development. In the Updated Source Water Assessments, DEQ mapped locations where erosion hazard is moderate or higher AND that are within 300 feet of surface water to estimate where delivery to water is possible. Maps and data of soil qualities without the 300-foot stream buffer in local areas can be provided to public water systems and communities if additional detail or scale is needed for place based planning.

According to NRCS, the ratings are:

*Slight*—Erosion is unlikely under ordinary climatic conditions.

Moderate—Some erosion is likely; control measures may be needed.

Severe—Erosion is very likely; control measures for vegetation re-establishment on bare areas and structural measures are advised.

*Very Severe*—Significant erosion is expected; loss of soil productivity and off-site damages are likely; control measures are costly and generally impractical.

Note that the off-road/off-trail erosion hazard rating assumes up to 75% of the soil surface is bare. Gully erosion, plowing or other disturbances that "disturb up to nearly 100 percent of the area and change the character of the soil", and Histosol soils containing primarily organic materials are not adequately characterized by this method and effects will be underestimated. Erosion hazard from roads and trails can also be accessed using the USDA

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### Key to Figures and Tables including Notes and Symbols Updated Source Water Assessments

NRCS Web Soil Survey online viewer (<a href="https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx">https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx</a>). Areas with >75% disturbance and lower slopes are addressed using the NRCS-RUSLE2/ODA-EVI method – see info in 4a).

(4c) Where NRCS SSURGO data is not available (typically National Forest lands), Soil Resource Inventory (SRI) information from the US Forest Service was used to determine erosion potential. Erosion potential for soils represented in the SRI data is based on available representative data attributes such as sedimentation yield potential, sediment, or surface soil erosion potential. Specific information on the factors used for each National Forest to evaluate sensitivity is available from DEQ upon request. In the Updated Source Water Assessments, DEQ mapped locations where soils with erosion risk is within 300 feet of surface water to estimate where delivery to water is possible.

#### (5) Landslide Information

OR Department of Geology and Mineral Industries (DOGAMI) Statewide Landslide Information Database of Oregon Release 3.2 (SLIDO-3.2). Includes earth and debris slides, flows, slumps, falls and complex landslide types. Does not include rock material landslide deposits. The landslide data set is published to improve the understanding of landslide hazards in Oregon and to provide a statewide base level of landslide data. This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information. This publication cannot substitute for site-specific investigations by qualified practitioners. Site-specific data may give results that differ from the results shown in the publication. For more information see: https://www.oregongeology.org/slido/

OR DEQ's Water Quality Program is currently working with DOGAMI to develop and provide a more detailed landslide potential analysis for public water systems. Contact Oregon DEQ's Water Quality Program for further information on the analysis. If data is available for the specific area, DEQ will provide the more detailed landslide analysis to the public water system.

- (6) Safe Drinking Water Information System (SDWIS) data is obtained from Oregon Health Authority's Data Online available at https://yourwater.oregon.gov/.
  - "Significant detections" indicate water quality tests with analytical results greater than the detection limit (for volatile and synthetic organic compounds (VOCs and SOCs)) or one-half of the maximum allowable contaminant level (for inorganic compounds (IOCs), arsenic and nitrate). Significant detections are not water quality violations but may require follow-up actions by the OHA Drinking Water Program. Significant detections are available as "alerts" in OHAs Data Online.
  - Maximum Contaminant Level (MCL) Violations indicate samples that exceed the MCL and may be based on an average of samples or violation of a treatment technique (i.e. lead and copper rule).
     Maximum Contaminant levels and action levels for chemicals are available OAR 333-061-0030. Does not include violations for late/non-reporting or treatment/distribution system deficiencies.
  - A full list of tested and regulated volatile organic chemicals, synthetic organic chemicals and inorganic compounds and disinfection byproducts is provided in OAR 333-061-0030 and OAR 333-061-0036.
     Only regulated chemicals are reported in SDWIS. It is important to note that public water system compliance data is collected after drinking water treatment, typically at the entry point to the distribution system.
- (7) **DEQ/OHA source water monitoring project** samples were collected between 2008 and 2012 and analyzed for several hundred compounds, including Oregon-specific herbicides, insecticides, pharmaceuticals, volatile organic compounds (including cleaners), fire retardants, polycyclic aromatic hydrocarbons (organic compounds produced as byproducts of fuel burning) and plasticizers. Only the contaminants that were detected are listed. The concentrations of compounds listed were detected at very low levels well below existing standards and guidelines and are well within acceptable limits. The primary objective of this ongoing monitoring program is to identify priorities for drinking water protection through water quality data. Water quality samples are taken from raw source waters, not treated drinking water. A comprehensive list of analytical methods, compounds, and detection

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# State of Oregon Department of Environmental Quality

### Appendix # 2

### Key to Figures and Tables including Notes and Symbols Updated Source Water Assessments

limits is available in each Analytical Report (search DEQ database or by request) and information is summarized at <a href="http://www.oregon.gov/deq/wq/programs/Pages/DWPAssessments.aspx">http://www.oregon.gov/deq/wq/programs/Pages/DWPAssessments.aspx</a>

#### Inventory of Potential Sources of Pollution (Table 2 and Figures)

This information is intended to supplement the original Source Water Assessment completed for the water system between 2000 and 2005 by DEQ and Oregon Health Authority. This update should be used in conjunction with the original inventory. DEQ can provide more information on potential impact, risk and status as the public water system moves into developing protection strategies.

The inventory of potential sources of pollution is based on the readily-available state and federal regulatory databases listed below and general categories of land use/ownership. The primary intent is to identify and locate significant potential sources of contaminants of concern. Areas with agricultural, septic systems, or managed forests are generally not identified in the regulated databases but are presented in the figures as a factor of land ownership/use.

It is important to remember that the sites and areas identified are only <u>potential</u> sources of contamination to the drinking water. Water quality impacts are not likely to occur when contaminants are used and managed properly and land use activities occur in such a way as to minimize erosion and contaminant releases.

It is highly recommended that the community "enhance" or refine the delineation of the sensitive areas and the identification of the potential contamination sources through further research and local input. If there were no potential sources of contamination identified during the review of regulatory databases or community's enhanced inventory, the water system and community should consider the potential for future development to impact the source water.

Table 2 Header	Description
Database Identifier (DB ID)	Database Type and site name for identified potential pollutant
Site Identifier (Site ID)	Program specific identifier. This is the number or name used to look the site up in the programs regulatory database.
Status	Select information on the site that helps to evaluate potential risk to water quality
Common Name, Address, City	Common Name, Address and City as listed in the regulatory database. Note that some sites may have addresses associated with responsible party, not the physical location of the site.
County	County site is located in
Retrieval Date (Ret_Date)	Date the information was retrieved from the individual programs regulatory database
Data Source	Source for geographic information system (GIS) data

State and	Federal	Regulatory Database Information
CAFO		Oregon Department of Agriculture's Confined Animal Feeding Operation database of livestock owners. Includes permitted, non-permitted, and applications. Status indicates facility designation and animal type. Permits typically address conditions for animal waste management. More information at <a href="http://www.oregon.gov/ODA/programs/NaturalResources/Pages/CAFO.aspx">http://www.oregon.gov/ODA/programs/NaturalResources/Pages/CAFO.aspx</a>
DOGAMI	<b>®</b>	Oregon Department of Geology and Mineral Industries list of mining sites. Status includes permit status and primary material extracted.

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### Key to Figures and Tables including Notes and Symbols Updated Source Water Assessments

DC	DEQ Dry Cleaners list
DC	Status indicates Facility type and information on historic and current solvent use. Facility
	Type:
Active	Dry Cleaner - currently active
Active	Dry Store: current 'dry store': pickup and drop off point that does not have a dry
Dry Store	cleaning machine on site. These sites may still pose a risk as the industry has
Dry Store	consolidated over past decades, so many of these used to be dry cleaners and may
Closed	have contamination.
Closed	Closed site: There is no longer a dry cleaner or dry store on site, and the site has not
Inactive	opted to stay in the program as 'inactive'. Note that when a site changes ownership,
Inactive	the old Dry Cleaner ID (DCID) may be identified as Closed and a new dry cleaner
	record may be added for the new owner resulting in the potential for on address to
Solvent	have more than one status
Supplier	Listed Inactive: Site is no longer a dry cleaner or dry store but the property owner or
9	former operator has opted to continue paying dry cleaner program fees in order to
E) #	maintain their liability protection & cleanup coverage.
	Solvent Supplier: This may be a chemical supply businesses or individual dry cleaner
	that imports their own solvent from out-of-state
	SolventBefore1998: true if dry cleaning solvent was used at this site prior to spill
	prevention regulations that came in around 1998. If this field is true, there's a higher
1	likelihood that there may be contamination on site.  PercUseOngoing: true if perchloroethylene solvent is currently used at the site.
	Potential sources of contamination (PCS) identified by the DEQ and Oregon Health
DIMID DCC-	Authority drinking water protection (DWP) program in the original source water
DWP-PCSs	assessments completed between 2000 and 2005. Status includes DEQ's potential
area wide	contaminant source Code (i.e. M31 or R15), Source type (P= point source, A=Area wide
wide	source) and a description of the land use type. Note that sources classified as "Area-wide"
▲ point	were marked at a point on the map closest to the intake, well or spring. Additional detailed
source	maps can be provided upon request for source areas where DWP PCSs are not shown on
	maps to improve map clarity.
	Potential sources of contamination (PCS) identified by the OHA or DEQ in the Source
DWP-PCS (update)	Water Assessment updates completed in 2016 - 2019. May include information from
<b>A</b>	interviews with public water system operators, field visits, aerial photograph or topographic
	map review Note that sources classified as "Area-wide" were marked at a point on the
	map closest to the intake, well or spring.
	DEQ Environmental Cleanup Site Information database. Includes the U.S. EPA National
ECSI	Priorities List (NPL) and the U.S. EPA Comprehensive Environmental Response,
	Compensation and Liability Information System (CERCLA) list. Includes sites where
	further assessment or action is needed. More information available at
	http://www.oregon.gov/DEQ/Hazards-and-Cleanup/env-cleanup/Pages/ecsi.aspx  DEQ Environmental Cleanup Site Information database site where no further action (NFA)
ECSI-NFA	is required. Public water system may consider verifying with DEQ that standards used
V	during site investigation were protective of drinking water.
	DEQ Hazardous Waste generators that submit an annual report to DEQ. This list includes
2 R100 R1	active facilities in HazWaste.NET (http://www.oregon.gov/DEQ/Hazards-and-
HW ▲ LQG	Cleanup/hw/Pages/HW-Reporting.aspx). Status includes information on generator size
HVV — LQG	including LQG (Large Quantity Generator), SQG (Small Quantity Generator), CEG
SQG	(Conditionally Exempt Generator), and Unknown (may be used oil or universal waste
or CEG	activities or old generators that require further assessment.
▲ TSD	TSD = DEQ Hazardous Waste Program registered sites that treat, store or dispose of
	hazardous waste. Includes both active and inactive sites in the process of closing or in
	post-closure care that are registered in HazWaste.NET

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### Key to Figures and Tables including Notes and Symbols Updated Source Water Assessments

LUST	9	DEQ leaking underground storage tank (LUST) list - includes sites that have reported
		releases from petroleum-containing underground storage tanks, including residential
1031		heating oil tanks, regulated tanks at gas stations and other commercial facilities, and non-
		regulated tanks.
		DEQ leaking underground storage tank (LUST) list where no further action (NFA) is
LUST-NFA		required or cleanup is completed. PWS may consider verifying with DEQ that standards
		used during site investigation were protective of drinking water.
Oil 9 Coo Wall		Oil and Gas wells from OR Department of Geology and Mineral Industries. Only includes
Oil & Gas Well	IS 🐞	wells with a status of "permitted".
OSMB	H	Oregon State Marine Board's Boating Access Sites.
		School as identified by Department of Human Services. Further evaluation may be needed
School		to identify if school has onsite/septic system, pesticide use, chemistry lab, vehicle
	place of the latest of the lat	maintenance, or other potential contaminant sources.
		Aboveground storage tank(s) as identified in the State Fire Marshall Hazardous Material
SFM-HSIS AST		Information System (HMIS) site list. Aboveground tanks storing gas products were not
		included since gaseous compounds rarely pose a threat to surface water or groundwater.
		Additional information on material stored and tank size is available upon request.
		State Fire Marshall Hazardous Material Information System (HMIS) site list. Status
CER# (LICIC)		indicates number of different chemicals stored on site. A full list of chemicals with
SFM (HSIS)	<b>V</b>	information on storage type and a range of amounts is available on request. Information on
		materials in a gas-form was not included in the chemical counts since gaseous compounds
		rarely pose a threat to surface water or groundwater.
		Oregon Department of Transportation structure in the "Bridge" layer for interstates,
Stream		highways, or Oregon Routes. Does not include crossings over ODOT 2012 Roads layer.
Crossing/Bridg	ge 💆	Includes some culverts. Name indicates water body (or other structure) crossed and the
Gr = 140		highway/route name.
		DEQ Active Solid Waste Disposal Permits list. Status includes permit type and activity
SW	MA	(active, terminated, closure, pending). Solid waste disposal site permits are issued for the
344	EVE	following facility types: landfill, solid waste treatment, transfer station/material recovery,
		composting, incineration, conversion technology, and energy recovery.
UIC –		DEQ Underground Injection Control (UIC) list of facilities with registered underground
	0	injection control systems that manage Stormwater. Status includes type and number of UIC
Stormwater	0	wells registered.
		DEQ Underground Injection Control (UIC) facilities with registered underground injection
UIC – Non-		control systems that do not manage stormwater. Status includes type and number of UIC
Stormwater	•	wells registered.
		DEQ registered underground storage tank (UST) list with details on number of tanks
UST		upgraded to current standards, decommissioned and with unknown status that require
		further assessment.
		DEQ Site Information System (SIS) which includes Water Pollution Control Facility
WO CIC	A	
WQ SIS		
	,	water. Includes both individual permits (site specific) and general permits covering a
WQ SIS-	(ww)	
WWTP	<b></b>	plants that discharge to surface water
WQ SIS		Water quality effluent outfalls - location of permitted outfall to water body. May vary from
Outfalls		facility address or permitted activity location.
WWTP	<b>♦</b>	upgraded to current standards, decommissioned and with unknown status that require further assessment.  DEQ Site Information System (SIS) which includes Water Pollution Control Facility (WPCF) permits where discharge to surface water is not allowed and National Pollutant Discharge Elimination System (NPDES) permits for "point source" discharges into surface water. Includes both individual permits (site specific) and general permits covering a category of similar discharges.  Subset of water quality Site Information System (SIS) for domestic wastewater treatment plants that discharge to surface water

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#### Key to Figures and Tables including Notes and Symbols **Updated Source Water Assessments**

WQL Streams/	Streams and lakes identified by DEQ under Section 303(d) of the Clean Water Act as Water
Lakes	Quality Limited and either having (Category 4A) or needing (Category 5) a Total
TMDL approved	Maximum Daily Load pollutant load limit. Streams and lakes with insufficient data
or needed	(Category 3) to make a determination are also shown. Based on Oregon's 2012 Integrated
Insuff-	Report and 303(d) list. Contact DEQ basin coordinator for more information
	(http://www.oregon.gov/deq/FilterDocs/basincoordinators.pdf)
Transportation S	Sources
Interstate/Highway	Oregon Department of Transportation interstate, highway, road or route identified in the
Interstate	Integrated Transportation Information System database.
U.S. Roads	
Oregon Routes	
Roads —	Oregon Department of Transportation 2012 Roads layer - note roads are usually mapped by section so there will be many duplications of road names.
Railways —	Railways
	Oregon Department of Transportation structure in the "Bridge" layer for interstates,
Stream	highways, or Oregon Routes. Does not include crossings over ODOT 2012 Roads layer.
Crossing/Bridge	Includes some culverts. Name indicates water body (or other structure) crossed and the
<i>3,</i>	highway/route name.

### Acronyms

BLM - US Bureau of Land Management	PPB - Parts per Billion (=micrograms per liter [ug/L])
	DDM Darte was Millian (-milligrams nor liter [mg/L])

PPM - Parts per Million (=milligrams per liter [mg/L]) **BMP** - Best Management Practices

PWS - Public Water Supply CWS - Community Water System

RCRA - Resource Conservation and Recovery Act DEQ - Department of Environmental Quality SDWA - Safe Drinking Water Act

DLCD - Department of Land Conservation & SDWIS - Safe Drinking Water Information System Development

SFM - State Fire Marshal DOGAMI - Department of Geology and Mineral

SOC - Synthetic organic compound Industries SOC - Synthetic Organic Contaminant DWS - Drinking Water Section of Oregon Health

SQG - Small Quantity Generator Authority SWA - Source Water Assessment EPA - US Environmental Protection Agency

SWCD - Soil and Water Conservation District ESCI - Environmental Site Cleanup Information

TNC - Transient Noncommunity Water System IWRS - Integrated Water Resources Strategy TOT - Time of Travel

LUST - Leaking Underground Storage Tank

MCL - Maximum Contaminant Level TSCA - Toxic Substances Control Act

USDA - US Department of Agriculture NRCS - Natural Resource Conservation Service

NTNC - Nontransient Noncommunity Water System USFS - US Forest service

USGS - United States Geological Survey OAR - Oregon Administrative Rules

UST - Underground Storage Tank ODA - Oregon Department of Agriculture

USWA - Updated Source Water Assessment ODF - Oregon Department of Forestry VOC - Volatile Organic Compound ODOT - Oregon Department of Transportation

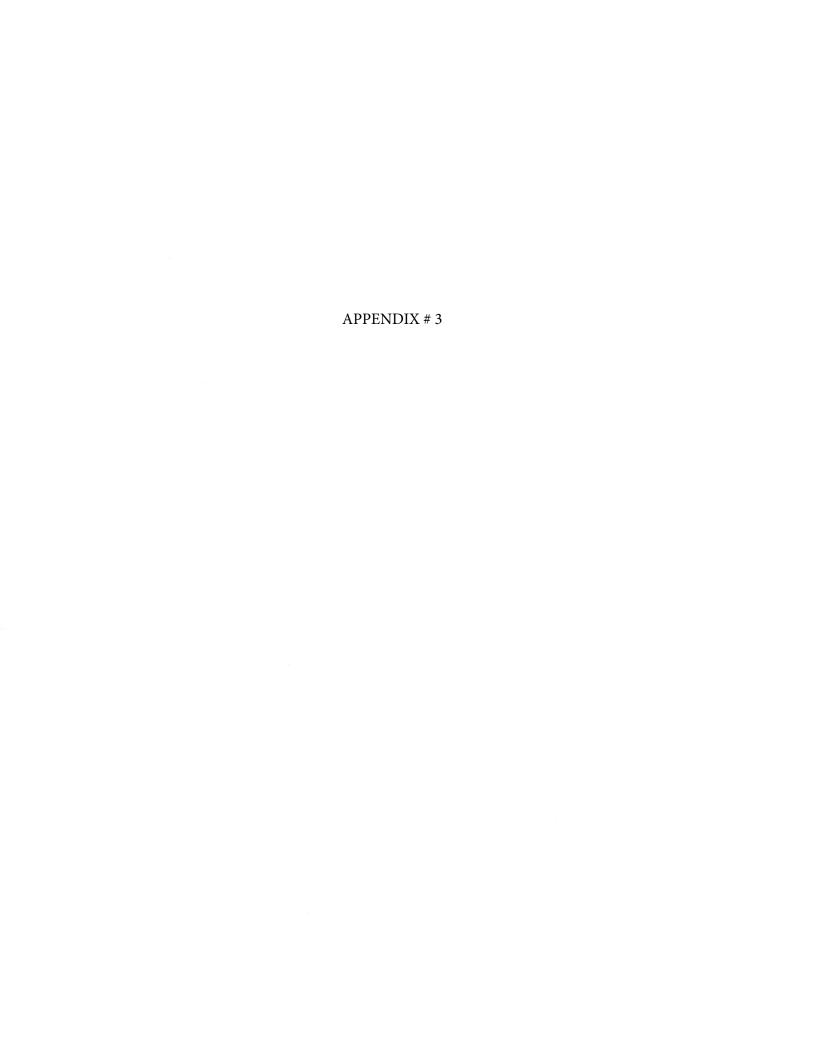
VOC - Volatile Organic Contaminant OEM - Oregon Emergency Management Division

WHP - Wellhead Protection OHA - Oregon Health Authority

WHPA - Wellhead Protection Area ORS - Oregon Revised Statutes

WQL - Water Quality Limited OSU - Oregon State University

WRD - Water Resources Department POTW - Publicly Owned Treatment Works





## **Technical Information and Factsheets for Water Quality**

**PLEASE NOTE:** The Internet URL Addresses listed in this document were included as a convenience for the users of this document. All URL Addresses were functional at the time this publication was last updated (November 2018). For active links, this list is located at

http://www.oregon.gov/deq/wq/programs/Pages/DWP-Pubs.aspx see "A Summary of Technical Assistance

General Water Quality Information	
Handbook for Developing Watershed Plans to Restore and Protect Our Waters (EPA)	https://www.epa.gov/polluted-runoff-nonpoint-source-pollution/handbook-developing-watershed-plans-restore-and-protect
Water Quality Model Code and Guidebook (DLCD)	https://www.oregon.gov/deq/FilterDocs/WQModCodeGuide.pdf
DEQ Toxics Reduction Strategy	http://www.oregon.gov/deq/Hazards-and- Cleanup/ToxicReduction/Pages/Reducing-Toxics.aspx
Oregon's Groundwater Protection Program – who does what? (DEQ)	http://www.oregon.gov/DEQ/wq/programs/Pages/GWP-about.aspx
Groundwater Basics for Drinking Water Protection (DEQ)	http://www.oregon.gov/deq/FilterDocs/dwpGwBasics.pdf
Protecting Oregon's Groundwater from Contamination (OSU)	http://groundwater.orst.edu/groundwater/
Oregon Climate Change Research Institute	http://occri.net/
Climate Impacts in the Northwest (EPA)	https://19january2017snapshot.epa.gov/climate-impacts/climate-impacts-northwesthtml
Climate science, data, tools, and information (NOAA)	http://www.noaa.gov/climate.html
Harmful Algae Blooms (OHA) - Cyanotoxin Resources for Drinking Water	https://www.oregon.gov/oha/PH/HealthyEnvironments/DrinkingWater/Operations/Treatment/Pages/algae.aspx
Harmful Algae Blooms (OHA) FAQs, guidelines for lake managers and outreach materials	https://public.health.oregon.gov/HealthyEnvironments/Recreation/HarmfulAlgaeBlooms/Pages/index.aspx
Harmful Algal Blooms (DEQ) - agency strategy, actions to control/eliminate & prevention	http://www.oregon.gov/DEQ/wq/Pages/Harmful-Algal-Blooms.aspx
Residential Areas, Parks and Golf Cours	es
Domestic Well Safety Program (OHA) Resources/ contacts for domestic/private wells	http://public.health.oregon.gov/HealthyEnvironments/DrinkingWater/SourceWater/DomesticWellSafety/Pages/index.aspx
Well Water Program (OSU)- tech. assistance for domestic/private wells & septic systems	http://wellwater.oregonstate.edu/
Oregon's Domestic Well Testing Program for Real Estate Transactions	http://public.health.oregon.gov/HealthyEnvironments/DrinkingWater/SourceWater/DomesticWellSafety/Pages/Testing-Regulations.aspx
Household Hazardous Waste Program website (DEQ)	http://www.oregon.gov/DEQ/Hazards-and-Cleanup/hw/Pages/hhw.aspx
Household Hazardous Waste - locally- sponsored and county collection programs	https://www.oregon.gov/deq/Hazards-and-Cleanup/hw/Pages/HHW-Events.aspx and http://www.oregon.gov/DEQ/Hazards-and-Cleanup/hw/Pages/HHW-by-County.aspx

Household Pharmaceutical Waste Disposal (OHA)	https://public.health.oregon.gov/HealthyEnvironments/DrinkingWater/SourceWater/Pages/takeback.aspx
Household Hazardous Wastes (EPA)	https://www.epa.gov/hw/household-hazardous-waste-hhw
Recycle Used Motor Oil Resources (EPA)	https://www.epa.gov/recycle/managing-reusing-and-recycling-used-oil
Frequently Asked Questions About Heating Oil Tanks (DEQ)	http://www.oregon.gov/DEQ/tanks/Pages/hot.aspx
Proper Care/Maintenance of Heating Oil and Other Unregulated Tank Systems	http://www.oregon.gov/deq/FilterDocs/ProperCareMaintenance.pdf
Oregon resources for on-site septic systems (DEQ)	http://www.oregon.gov/deq/Residential/Pages/Septic-Smart.aspx
Oregon's Onsite Wastewater Management Program (Septic Systems) (DEQ)	http://www.oregon.gov/DEQ/Residential/Pages/Onsite.aspx
Local Outreach Toolkit for Septic Systems (EPA)	https://www.epa.gov/septic/septic-systems-outreach-toolkit
A Homeowners Guide to Septic Systems (EPA)	http://www.nesc.wvu.edu/pdf/ww/septic/epa_septic_guide.pdf
Septic Tank Maintenance (DEQ)	http://www.oregon.gov/deq/FilterDocs/septictankmaintFS.pdf
Septic Systems OSU Extension website (OSU)	http://wellwater.oregonstate.edu/septic-systems-0
Groundwater protection and your septic system (National Small Flows Clearinghouse)	http://www.nesc.wvu.edu/pdf/ww/septic/septic_tank3.pdf
Combating Illegal Dumping (DEQ)	http://www.oregon.gov/DEQ/mm/Pages/Illegal-Dumping.aspx and http://www.oregon.gov/DEQ/mm/Pages/Illegal-Dumping-Clean-Up.aspx
Water Well Owner's Handbook & other related guidance documents (WRD)	https://www.oregon.gov/OWRD/WRDPublications1/Well_Water_Handbook.pdf
Oregon Water Resources Department	http://egov.oregon.gov/OWRD/
Disposal of Chlorinated Water from Swimming Pools and Hot Tubs (DEQ)	http://www.oregon.gov/deq/FilterDocs/bmpchlorwaterdisp.pdf
Source Water Protection Publications (EPA) for managing various including: Septic Systems Turfgrass and Garden Fertilizer Application Small-Scale Application of Pesticides Small Quantity Chemical Use Pet and Wildlife Waste Storm Water Runoff	http://www.oregon.gov/DEQ/wq/programs/Pages/DWP-Pubs.aspx (see EPA Source Water Protection Practices Bulletins)
Integrated Plant Protection Center (OSU)	http://ipmnet.org/
National Pesticide Information Center	http://npic.orst.edu/
Integrated Pest Management and Pesticide Safety for Schools (OSU)	http://blogs.oregonstate.edu/schoolipm/sample-page/
Golf Course Integrated Pest Management (IPM) tool and BMP Generator	http://www.greengolfusa.com/tiki-index.php
EcoBiz Certified Landscapers and Auto Repair Shops	http://ecobiz.org/find-an-ecobiz/

Agriculture / Forestry Land Uses	
Tips for Small Acreages in Oregon (NRCS) - Fact Sheets on wells, septic systems, animals, crops, weeds, streamside erosion protection. Includes specific factsheets for Eastern and Western Oregon.	https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/people/?cid=s telprdb1167242
Source Water Protection Pubs (EPA) for managing various activities including:  Agricultural Fertilizer Application Large-Scale and Small-Scale Application of Pesticides Livestock, Poultry and Horse Waste Above Ground and Underground Storage Tanks Small Quantity Chemical Use Turfgrass and Garden Fertilizer Application	http://www.oregon.gov/DEQ/wq/programs/Pages/DWP-Pubs.aspx (see EPA Source Water Protection Practices Bulletins)
Oregon Small Farms (OSU Extension) Information on Crops, Grains, Livestock, Pastures, and Soils (see tabs at top of page for multiple resources)	http://smallfarms.oregonstate.edu/
Oregon Pesticide Stewardship Partnerships and Waste Pesticide Collection Events	http://www.oregon.gov/oda/programs/pesticides/water/pages/pesticidest ewardship.aspx
Managing Waste Pesticide (DEQ)	http://www.oregon.gov/DEQ/Hazards-and- Cleanup/hw/Pages/Miscellaneous-Industries.aspx
Oregon Department of Agriculture (ODA) – resources for reducing impacts	http://www.oregon.gov/oda/Pages/default.aspx
Soil and Water Conservation Districts (OACD)  – technical assistance for rural landowners, family forests and growers	http://oacd.org/conservation-districts/directory
Natural Resources Conservation Service, Oregon (NRCS)	http://www.or.nrcs.usda.gov/
NRCS Financial Assistance Programs	http://www.nrcs.usda.gov/wps/portal/nrcs/main/or/programs/financial/
Oregon Department of Fish and Wildlife Hatchery Information (ODFW)	http://www.dfw.state.or.us/fish/hatchery/
Animal Care and Handling Facilities (from California stormwater program)	https://www.casqa.org/sites/default/files/BMPHandbooks/BMP_IndCo mm_Appendix_D.pdf
Managing Small-acreage Horse Farms (OSU)	https://catalog.extension.oregonstate.edu/ec1558/viewfile
Irrigation well use and maintenance	See resources for domestic wells under Information for Residential Areas
Oregon State University Forestry & Natural Resources Extension Program	http://extensionweb.forestry.oregonstate.edu/
Oregon Department of Forestry Stewardship Foresters	http://www.oregon.gov/ODF/Working/Pages/FindAForester.aspx
Oregon Department of Forestry Grants and Incentives	http://www.oregon.gov/ODF/AboutODF/Pages/GrantsIncentives.aspx
US Department of Agriculture Forest Incentive Programs Available in Oregon	http://www.srs.fs.usda.gov/econ/data/forestincentives/or.htm

Agriculture / Forestry Land Uses	
US Department of Agriculture Pacific Northwest Research Station	http://www.fs.fed.us/pnw/
US Forest Service State & Private Forestry— Cooperative Forestry, Forest Health Protection, Sustainable Development & Urban/ Community Forestry	http://www.fs.fed.us/spf/
Water quality impacts information from US Forest Service - Part III: Chapter 10: Forest Management; Chapter 13: Pesticides and Part IV: Chapter 14-16 Animals	http://www.srs.fs.fed.us/pubs/gtr/gtr_srs039/
National Management Measures to Control Nonpoint Source Pollution from Forestry (EPA)	http://water.epa.gov/polwaste/nps/forestry/forestrymgmt_index.cfm
Managing Nonpoint Source Pollution from Forestry (EPA)	https://www.epa.gov/polluted-runoff-nonpoint-source- pollution/forestry-additional-resources
Oregon Forest Practices Act	https://www.oregon.gov/ODF/Working/Pages/FPA.aspx
Forest Practices Board Manual (Washington Dept. of Natural Resources)	http://www.dnr.wa.gov/about/boards-and-councils/forest-practices-board/rules-and-guidelines/forest-practices-board-manual
Sustainable Forest Management Programs/Certifications:	https://www.oregon.gov/ODF/Documents/AboutODF/ForestCertificationFactsheet.pdf
American Tree Farm Systems (ATFS)	https://www.treefarmsystem.org/
Forest Stewardship Council (FSC)	https://us.fsc.org/en-us/certification
Sustainable Forestry Initiative (SFI)	http://www.oregonsfi.org/
Dovetail Partners, Inc.	http://www.dovetailinc.org/
Commercial / Industrial / Municipal Land U	ses
Drinking Water Protection Strategies for Commercial & Industrial Land Uses (DEQ)	http://www.oregon.gov/deq/FilterDocs/DWPStrategiesComInd.pdf
Business and Industry tips for reducing water quality impacts (DEQ)	http://www.oregon.gov/deq/FilterDocs/dwpbusindtips.pdf
Source Water Protection Publications (EPA) for managing various including:  Above Ground and Underground Storage Tanks Aircraft and Airfield Deicing Operations Highway Deicing Operations Vehicle Washing Pet and Wildlife Waste Small Quantity Chemical Use Storm Water Runoff	http://www.oregon.gov/DEQ/wq/programs/Pages/DWP-Pubs.aspx (see EPA Source Water Protection Practices Bulletins)
Free Assistance from DEQ's Toxics Use and Waste Reduction Assistance	http://www.oregon.gov/deq/FilterDocs/TABrochure.pdf
Managing Used Computers and Other Electronic Equipment (DEQ)	http://www.oregon.gov/DEQ/ecycles/Pages/default.aspx
Computer and Electronic Equipment Recyclers (DEQ)	http://www.deq.state.or.us/ecsearch/Default.aspx
Underground Injection Control (UIC) Program (DEQ)	http://www.oregon.gov/deq/wq/wqpermits/Pages/UIC.aspx

Commercial / Industrial / Municipal Land	Uses (cont.)
Industrial Stormwater Best Management Practices Manual (DEQ)	http://www.oregon.gov/deq/FilterDocs/wq/wqpermit/docs/IndBMP02141 3.pdf
Illicit Discharge and Source Tracing Guidance Manual (Washington Stormwater Center)	http://www.wastormwatercenter.org/illicit-connection-illicit-discharge
Construction Stormwater Best Management Practices Manual (DEQ)	https://www.oregon.gov/deq/FilterPermitsDocs/BMPManual.pdf
Low Impact Development O&M guidance (Washington Stormwater Center)	http://www.wastormwatercenter.org/lid-mando/
Water quality impacts information from USFS - Part V: Chapter 18-20 Mining and Oil/Gas	http://www.srs.fs.fed.us/pubs/gtr/gtr_srs039/
Dam Safety Publications and Resources FEMA website	https://www.fema.gov/dam-safety-publications-resources
Healthcare: Pollution Prevention & Best Management Practices (EPA)	https://archive.epa.gov/region1/healthcare/web/html/bmp.html
Boating / Marinas / Recreation Areas	
Oregon Clean Boater Program (OSMB)	https://www.oregon.gov/osmb/boater-info/Pages/Environmental-Programs.aspx
Clean Boater Guide (OSMB)	https://www.oregon.gov/osmb/forms-library/Documents/Environmental/2015 osmb clean boater guide forwe b.pdf
Best Management Practices for Oregon's Marinas (DEQ)	http://www.oregon.gov/deq/FilterDocs/marinas.pdf
Clean Marina Program (OSMB)	http://www.oregon.gov/OSMB/boater-info/Pages/Clean-Marinas.aspx
Clean Marina Guidebook (OSMB)	http://www.oregon.gov/OSMB/forms-library/Documents/Environmental/entire_clean_marina_guidebook.pdf
Marine Sewage and Wastewater Disposal (DEQ)	https://www.oregon.gov/osmb/forms-library/Documents/Environmental/MarineSanitationFactSheet.pdf
Water quality impacts information from US Forest Service - Part II: Chapters 7-8: Recreation; Chapter 5: Dams and Chapter 9: Roads	http://www.srs.fs.fed.us/pubs/gtr/gtr_srs039/

# APPENDIX # 4

# **Appendix #4**

# Funds and Resources for Drinking Water Source Protection

This document provides brief descriptions and contact information for resources available to public water systems, including grants and loans to fund drinking water infrastructure and source protection projects. DEQ's list of "Technical Information and Factsheets for Water Quality Protection" provides other websites and resources available to public water systems and community members seeking to work on watershed protection.

Note: The Internet links listed in this document were included as a convenience for the users of this document. All URL Addresses were functional at the time this publication was last updated (January 2018).

## **Oregon Health Authority (OHA)**

Drinking Water Services Phone: 971-673-0405

Website: www.healthoregon.org/dwp

The Oregon Health Authority (OHA) is the primacy agency for the implementation of the federal Safe Drinking Water Act (SWDA) in Oregon. ORS 338.277 authorizes the OHA to administer the federal Safe Drinking Water Act in Oregon as the Primacy Agency in agreement with the federal government. ORS 448.131 further authorizes the adoption of standards necessary to protect public health through insuring safe drinking water within a water system. Standards in OAR 333-061 outlines requirements for systems to meet MCLs, submit to periodic inspections, and meet enforcement requirements as administered by OHA. As the primacy agency, OHA also approves drinking water treatment plans and sets construction standards, operator certification standards, and enforces rules to ensure safe drinking water. The OHA website has extensive information on drinking water treatment requirements: <a href="http://healthoregon.org/dwp">http://healthoregon.org/dwp</a>

In order to assist systems in complying with standards, OHA also provides technical assistance and oversight of grants and loans from the Safe Drinking Water Act for public water system operation and improvements. For those Safe Drinking Water Act loans and grant funds, the Oregon Health Authority partners with Oregon Infrastructure Finance Authority to provide the financial services (see below).

# **Business Oregon - Infrastructure Finance Authority (IFA)**

Infrastructure Finance Authority (IFA) Municipal Infrastructure Funding

Phone: (503) 986-0123

Website: www.orinfrastructure.org

IFA is a division of Business Oregon that provides funding for municipally owned infrastructure projects. IFA manages federal infrastructure funds for agencies such as Oregon Health Authority and Housing and Urban Development. IFA is not a regulatory agency but collaborates and supports our state and federal partners with financing programs and technical assistance.



#### Water Quality Drinking Water Protection

700 NE Multnomah St.

Suite 600

Portland, OR 97232 Phone: 503-229-5664 800-452-4011

Fax: 503-229-6037 Contact: Julie Harvey http://www.oregon.gov/deq/ wq/programs/Pages/dwp.as

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#### Center for Health Protection Drinking Water Services

444 "A" Street Springfield, OR 97477 Phone: 541-726-2587 Fax: 541-726-2596 Contact: Tom Pattee http://www.healthoregon.or g/dwp

Last Updated 10/2016 By: Sheree Stewart Internet URLs functional as of 8/29/2018. Document is also available at: http://www.oregon.gov/deq/ wq/programs/Pages/DWP-Funding.aspx The list of available funding programs for drinking water infrastructure and source protection is:

- Safe Drinking Water Revolving Loan Fund (SDWRLF)
- Drinking Water Source Protection Fund (DWSP)
- Water/Wastewater Financing Program (WWFP)
- Special Public Works Fund (SPWF)
- Community Development Block Grant Program (CDBG)
- Port Revolving Loan Fund (PRLF)

#### Safe Drinking Water Revolving Loan Fund (SDWRLF)

This loan program funds drinking water system improvements needed to maintain compliance with the Federal Safe Drinking Water Act. The Safe Drinking Water Fund is funded by annual grants from the U.S. Environmental Protection Agency (EPA) and matched with funds from the state Water/Wastewater Financing Program. The program is managed by the Oregon Health Authority (OHA), Drinking Water Services. The loans are managed by the Oregon Infrastructure Finance Authority (IFA).

The Safe Drinking Water Revolving Loan Fund (SDWRLF) is designed for water source, treatment, distribution, storage and related infrastructure projects. Funding is available for all sizes of water systems, although 15 percent of the funds are reserved for systems serving a population of fewer than 10,000. Eligible applicants can be owners of water systems that provide service to at least 25 year-round residents or systems that have 15 or more connections (or a nonprofit with 25 or more regular users). Owners can be a nonprofit, private party or municipality, but systems cannot be federally owned or operated.

To be eligible for funding, a project must solve an existing or potential health hazard or noncompliance issue under federal/state water quality standards. The following are the main types of eligible activities:

- Engineering, design, upgrade, construction or installation of system improvements and equipment for water intake, filtration, treatment, storage, transmission
- Acquisitions of property or easements
- Planning, surveys, legal/technical support and environmental review
- Investments to enhance the physical security of drinking water systems, as well as water sources

*SDWRLF loan amount:* The program provides up to \$6 million per project (more with additional approval) with the possibility of subsidized interest rate and principal forgiveness for a Disadvantaged Community. The standard loan term is 20 years or the useful life of project assets, whichever is less, and may be extended up to 30 years under SDWRLF for a Disadvantaged Community. Interest rates are 80 percent of state/local bond index rate.

To apply, the municipality should first submit a Letter of Interest to Oregon Health Authority where it will be rated and ranked. Call Oregon OHA Drinking Water Services at 971-673-0422 or go to the OHA website: <a href="https://www.healthoregon.org/srf">www.healthoregon.org/srf</a>

Projects placed on the Project Priority List will be invited to apply through IFA for funding. Contact your IFA Regional Coordinator for assistance and more information. Call IFA at 503-986-0123 or <a href="http://www.orinfrastructure.org/">http://www.orinfrastructure.org/</a>

### **Drinking Water Source Protection Fund (DWSP)**

From the Safe Drinking Water Act, loans and grants are also available for drinking water protection projects: low interest *loans up to a maximum of \$100,000 per project*, and *grant funds up to \$30,000 per water system*. Eligible systems include any public and privately-owned Community and Nonprofit Non-Community water systems with a completed Source Water Assessment are able to demonstrate a direct link between the proposed project and maintaining or improving drinking water quality. Eligible activities include those that lead to risk reduction within the delineated source water area or would contribute to a reduction in contaminant concentration within the drinking water source. Projects can take either a local or regional approach. Local projects are defined as activities that concentrate on a public water system's source area(s). Regional projects are defined as activities that involve multiple communities and/or water systems attempting to address a common source water issue or group of issues.

The categories for eligible projects for DW Source Protection funding include the following:

**Refined Delineation** OHA and DEQ have completed delineations for most drinking water source areas (DWSA) for the community and non-community public water systems. DWSAs include aquifer recharge areas for groundwater sources and watershed areas for surface sources. DW Source Protection funding can be used to complete, update, or refine DWSA delineations using new or additional site-specific information as part of a more comprehensive protection strategy.

#### **Updated Assessment**

**Inventory** – Projects that improve upon existing potential contaminant source inventories available from the DEQ database, Geographic Information System, and Assessment Reports prepared by OHA/DEQ. A project could involve expanding or updating the inventory of land uses or existing and potential point and non-point contaminant sources.

**Evaluation** – Projects establishing a water quality monitoring project to evaluate existing and potential threats to water quality. This could include evaluating and prioritizing potential threats (or protection activities) based upon new or more detailed information.

#### Source Protection Planning

Projects designed to identify appropriate protection measures, including development of a comprehensive DW Source Protection plan, educational projects, projects to identify and ensure implementation of Best Management Practices (BMPs), development of local DW Source Protection ordinances, development of restoration or conservation plans for the source area for future easement or land acquisition.

#### **Implementation**

Funds can be used to implement many types of protection strategies in drinking water source areas. This can include implementation of any *eligible activities that will reduce risks within the source water area* or would contribute to a reduction of contaminant concentration within the drinking water source(s). Examples of the types of projects that can be funded include:

- Implementing drug-take-back projects in source areas
- Projects for reducing pesticide application rates and loadings in source area
- Implementing pesticide and household hazardous waste collection events
- Closure of high-risk abandoned or unused (private or irrigation) wells close to supply well
- Projects for reforestation or replanting in sensitive or riparian areas
- Installation of fencing to protect sensitive riparian source areas
- Installation of signs at boundaries of zones or protection areas
- Projects for assessing risks from onsite systems near supply wells, inspections, pump-outs, or decommissioning onsite systems.
- Secondary containment for high-risk ABOVE ground tanks
- Focused workshop events for household/business instruction for changing to alternative nonhazardous product usage ("green chemical" products)
- Seismic spill prevention or inspection project in proximate areas for high-risk sources
- Permanent abandonment (i.e. filling) of inadequately constructed private wells within the source area
- Installation of fencing around the immediate intake or well area to provide protection
- Structures to divert contaminated stormwater runoff affecting the source area
- Set up ecosystem services (or similar) project in watershed to fund preservation areas
- Implementation of pollution prevention or waste reduction projects
- Restoration and/or conservation projects within the drinking water source area
- Implementation of water reuse and other conservation measures related to source protection
- Implementation of best management practice projects
- Implementation of conservation easements to protect sensitive source areas
- Implementation of a drinking water source protection ordinance
- Establishing management plans for easements or lands purchased within source areas
- Development of educational flyers/brochures for purposes of public education

Purchase of lands within the drinking water source area (funded only via low interest loans)

Any *Public and Privately-owned Community and Nonprofit Non-Community water systems* with a completed *Source Water Assessment* are eligible for funds. A "community water system" is defined as a public water system that has 15 or more service connections used by year-round residents, or which regularly serves 25 or more year-round residents. This includes water systems that are owned privately, by non-profit or public entities such as a city, district, or port. A "nonprofit non-community water system" is a public water system that is not a community water system and that regularly serves at least 25 people (more than 6 months per year) and is legally recognized under Oregon law as a nonprofit entity.

For the source water protection funds, contact OHA regarding the letter of interest submittal schedule. Call Oregon OHA Drinking Water Services at 971-673-0422 or go to the OHA website: <a href="www.healthoregon.org/srf">www.healthoregon.org/srf</a> or contact IFA at 503-986-0123; <a href="www.orinfrastructure.org">www.orinfrastructure.org</a>

#### Water/Wastewater Funding Program (WWFP)

This loan program funds the design and construction of public infrastructure needed to ensure compliance with the Safe Drinking Water Act or the Clean Water Act. The public entities that are eligible to apply for the program are cities, counties, county service districts, tribal councils, ports, and special districts as defined in ORS 198.010. Municipalities must either have a documented compliance issue or the potential of a compliance issue in the near future.

Allowable funded project activities may include:

- Construction costs, including Right of Way and Easements, for improvement or expansion of drinking water, wastewater or stormwater systems
- Design and construction engineering
- Planning/technical assistance for small communities

#### **WWFP** Loans

The maximum loan term is 25 years or the useful life of the infrastructure financed, whichever is less. The maximum loan amount is \$10 million per project (more with additional approval) through a combination of direct and/or bond funded loans. Loans are generally repaid with utility revenues or voter approved bond issues. A limited tax general obligation pledge also may be required. "Credit worthy" borrowers may be funded through the sale of state revenue bonds.

#### **WWFP Grants**

Grant awards up to \$750,000 may be awarded based on a financial review. An applicant is not eligible for grant funds if the applicant's annual median household income is equal or greater than 100 percent of the state average median household income for the same year.

#### **Funding for Technical Assistance**

The Infrastructure Finance Authority offers technical assistance financing for municipalities with populations of less than 15,000. The funds may be used to finance preliminary planning, engineering studies and economic investigations. Technical assistance projects must be in preparation for a construction project that is eligible and meets the established criteria.

Grants up to \$20,000 may be awarded per project.

Loans up to \$60,000 may be awarded per project.

To apply, call IFA at 503-986-0123, then contact your IFA Regional Coordinator for assistance and more information. <a href="http://www.orinfrastructure.org/">http://www.orinfrastructure.org/</a>

#### Special Public Works Fund (SPWF)

The Special Public Works Fund (SPWF) provides funds for publically owned facilities that support economic and community development in Oregon. Funds are available to public entities for planning, design, purchasing, improving and constructing publically owned facilities, replacing publically owned essential community facilities, emergency projects as a result of a disaster, and for planning. Public agencies that are eligible to apply for

funding are cities, counties, county service districts (ORS 451), tribal councils, ports, districts as defined in ORS 198.010, and airport districts (ORS 838).

#### **SPWF Loans**

Loans for development (construction) projects range from less than \$100,000 to \$10 million (more with additional approval). The Infrastructure Finance Authority offers very attractive interest rates that reflect tax-exempt market rates for highly qualified borrowers. Initial loan terms can be up to 25 years or the useful life of the project, whichever is less.

#### **SPWF Grants**

Grants are available for construction projects that create or retain traded-sector jobs. They are limited to \$500,000 or 85 percent of the project cost, whichever is less, and are based on up to \$5,000 per eligible job created or retained. Limited grants are available to plan industrial site development for publically owned sites and for feasibility studies.

To apply, call IFA at 503-986-0123, then contact your IFA Regional Coordinator for assistance and more information. http://www.orinfrastructure.org/

#### Community Development Block Grant (CDBG)

Grants and technical assistance are available to develop livable urban communities for persons of low and moderate incomes by expanding economic opportunities and providing housing and suitable living environments. Non-metropolitan cities and counties in rural Oregon can apply for and receive grants. [Oregon tribes, urban cities (Albany, Ashland, Bend, Corvallis, Eugene, Gresham, Hillsboro, Medford, Portland, Salem and Springfield) and counties (Clackamas, Multnomah, Washington) receive funds directly from HUD.] Funding amounts are based on the applicant's need, the availability of funds, and other restrictions defined in the program's guidelines. The maximum available grant for drinking water system projects is \$3,000,000.

All projects must meet one of three national objectives:

- The proposed activities must benefit low- and moderate-income individuals.
- The activities must aid in the prevention or elimination of slums or blight.
- There must be an urgent need that poses a serious and immediate threat to the health or welfare of the community.

To apply, call IFA at 503-986-0123, then contact your IFA Regional Coordinator for assistance and more information. <a href="http://www.orinfrastructure.org/">http://www.orinfrastructure.org/</a>

#### Port Revolving Loan Fund (PRLF)

The Port Revolving Loan Fund (PRLF) is a loan program to assist Oregon ports in the planning and construction of facilities and infrastructure. Ports must be incorporated under ORS Chapter 777 or 778. The Fund may be used for port development projects (facilities or infrastructure) or to assist port-related private business development projects. The variety of eligible projects is very broad and may include water-oriented facilities, industrial parks, airports and commercial or industrial developments. Eligible project costs can include engineering, acquisition, improvement, rehabilitation, construction, operation, and maintenance or pre-project planning. Projects must be located within port district boundaries. The maximum loan amount is \$3 million at any one time. The loan term can be as long as 25 years or the useful life of the project, whichever is less. Interest rates are set by the IFA at market rates, but not less than Treasury Notes of a similar term minus one percent.

Note: Flexible manufacturing space projects will not accrue interest until the building is at least 25 percent occupied or until three years after the date of the loan contract, whichever is earlier.

To apply, call IFA at 503-986-0123, then contact your IFA Regional Coordinator for assistance and more information. http://www.orinfrastructure.org/

# Oregon Department of Environmental Quality (DEQ)

#### Clean Water State Revolving Fund (CWSRF)

Clean Water State Revolving Fund

503-229-6412

Website: http://www.oregon.gov/DEQ/wq/cwsrf/Pages/default.aspx

Low-cost loans for planning, design, and construction projects to attain and maintain water quality standards, and necessary to protect beneficial uses such as fish habitat, drinking water sources, irrigation, and recreation. Eligible borrowers are public entities, such as cities and counties, Indian tribal governments, sanitary districts, soil and water conservation districts, irrigation districts, various special districts and some intergovernmental entities. CWSRF offers:

- Low-cost loans and bond purchases
- Lower than market interest rates
- Fixed interest rates
- Terms up to 30 years
- Up to 100% of eligible costs covered
- No match required
- Repayment begins after project is constructed
- No pre-payment penalty
- Additional financial incentives, including principle forgiveness

Applications are accepted year round with scheduled review and ranking in the first week of January, May and September. Contact the Oregon Department of Environmental Quality (DEQ); for a list of CWSRF project officers, go to http://www.oregon.gov/deq/wq/cwsrf/Pages/CWSRF-Contacts.aspx.

Financial incentives make CWSRF loans worth exploring. Principle forgiveness is available for communities meeting affordability criteria, or for meeting green project criteria. Implement a non-planning nonpoint source project <u>and</u> a traditional point source wastewater treatment project through the same application to reduce your interest rate on the combined two projects to as low as 1%. This combined application is called a sponsorship option.

#### **CWSRF Pollution Reduction Funding**

The Clean Water State Revolving Fund loan program provides low-cost loans to public entities for the planning, design or construction of both point source and nonpoint source projects that *prevent or mitigate water pollution*. Wastewater facility improvements and stormwater management projects are funded with CWSRF.

CWSRF loans fund development of nonpoint source water quality improvement plans, such as an integrated water resources plan and a regional or municipality-wide stormwater management plan. Planning loans can also fund the establishment of watershed partnerships, local ordinances to implement a stormwater master/management plan, engineering and development standards for new and redevelopment, permanent riparian buffers, floodplains, wetlands and other natural features.

CWSRF offers a Local Community Loan, which allows the borrower to make loans to private entities like home owners and farmers. The Local Community Loans fund the repair and replacement of failing decentralized systems. This loan type can also fund nonpoint source agricultural best management practices such as building manure containment structures, manure digesters, and fences to protect riparian resources capture and convert methane, and purchase calibrated application equipment.

CWSRF loans fund a variety of nonpoint source watershed improvement implementation projects such as establishing or restoring permanent riparian buffers and floodplains, and daylighting streams from pipes. Loans can fund protecting and restoring streamside areas, wetlands and floodplains, and to acquire riparian land, wetlands, conservation easements, and land to protect drinking water sources.

More information on DEQ's Clean Water State Revolving Fund program can be found here: <a href="http://www.oregon.gov/DEQ/wq/cwsrf/Pages/default.aspx">http://www.oregon.gov/DEQ/wq/cwsrf/Pages/default.aspx</a>. For specific information on the Sponsorship Option, Planning Loans, Nonpoint Source Loans, or Local Community Loans, see

http://www.oregon.gov/DEQ/wq/cwsrf/Pages/CWSRF-Application.aspx. The application requirements for CWSRF loans may take some lead-time to develop and may require out-of-pocket expense to prepare. Prospective CWSRF applicants should discuss any questions about the required content of these items with a regional DEQ CWSRF Project Officer at the earliest opportunity (http://www.oregon.gov/DEO/wg/cwsrf/Pages/CWSRF-Contacts.aspx).

#### **Supplemental Environmental Projects (SEPs)**

DEQ's Office of Compliance and Enforcement administer Supplemental Environmental Projects. When DEQ assesses civil penalties for environmental law violations, violators can offset up to 80% of their monetary penalty by agreeing to pay for a Supplemental Environmental Project that improves Oregon's environment. SEPs can be for pollution prevention or reduction, public health protection, environmental restoration and protection as long as it is a project that the respondent is not already required to do by law or where the project would be financially self-serving for the respondent. The work can be completed by a third-party like a local government, watershed council, non-profit or private entity. Coastal PWSs can develop a "SEP Application" with general information that OCE can distribute to respondents. Community organizations with proposed projects are also free to contact respondents on their own initiative. The enforcement case does not necessarily have to be in the same area (watershed/county, etc.) as the environmental project or even address the same media (i.e. air/water/land). Interested parties can sign up for DEQ's public notifications via email at <a href="http://www.oregon.gov/deq/Get-Involved/Pages/Public-Notices.aspx">http://www.oregon.gov/deq/Get-Involved/Pages/Public-Notices.aspx</a> - when signing up, select types of information (select "enforcement actions") and which counties or subbasins are of interest.

#### **Nonpoint Source Implementation 319 Grants**

Nonpoint Source Grants support implementation and planning projects that address water quality problems in surface and groundwater resources resulting from nonpoint source pollution. Funds are appropriated by DEQ through the U.S. Environmental Protection Agency under Section 319 of the Clean Water Act and support a wide variety of management activities, including technical assistance, site assessment, public awareness and education, training, technology transfer, demonstration projects, and monitoring to assess the success of specific nonpoint source implementation projects. Eligible applicants include government agencies, tribal nations and nonprofit organizations. For more information including funding availability, eligible projects, and application requirements and timelines see <a href="http://www.oregon.gov/deq/wq/programs/Pages/Nonpoint-319-Grants.aspx">http://www.oregon.gov/deq/wq/programs/Pages/Nonpoint-319-Grants.aspx</a>

# **Oregon Water Resources Department (WRD)**

Water Resources Development Program 725 Summer Street NE, Suite A Salem, OR 97301

Phone: 503-986-0900

The Water Resources Department is the state agency charged with administration of the laws governing surface and ground water resources. The Department's core functions are to protect existing water rights, facilitate voluntary streamflow restoration, increase the understanding of the demands on the state's water resources, provide accurate and accessible water resource data, and facilitate water supply solutions. WRD is charged with carrying out the water management policies and rules set by the Water Resources Commission and with overseeing the enforcement of Oregon's water laws. By law, all surface and ground water in Oregon belongs to the public.

WRD's mission is to serve the public by practicing and promoting responsible water management through two key goals:

- to directly address Oregon's water supply needs, and
- to restore and protect streamflows and watersheds in order to ensure the long-term sustainability of Oregon's ecosystems, economy, and quality of life.

WRD developed *Oregon's 2012 Integrated Water Resources Strategy* to help individuals and communities address instream and out-of-stream needs now and into the future, including water quantity, water quality and

ecosystem needs. More information can be found at: https://www.oregon.gov/OWRD/programs/Planning/IWRS/Pages/default.aspx

There is funding available to support planning, feasibility studies, and implementation of water projects:

#### Place-Based Integrated Water Resources Planning

https://www.oregon.gov/OWRD/programs/Planning/PlaceBasedPlanning/Pages/default.aspx

Place-based planning is a voluntary, locally initiated and led effort in which a balanced representation of water interests within a basin or watershed work in partnership with the state to: characterize current water resources and issues (water quantity, water quality, ecosystem health); understand current and future instream and out-of-stream water needs and demands; identify and prioritize strategic solutions to address water needs; and, develop a place-based integrated water resources plan that informs the state-wide strategy.

Recent cycle of funding included \$750,000 in grants; requires 25% cost-share.

For more information, contact Harmony Burright at 503-986-0913.

#### **Feasibility Study Grants**

https://www.oregon.gov/OWRD/programs/FundingOpportunities/FeasibilityStudyGrants/Pages/default.aspx

Once potential projects are identified, communities often find it difficult to secure funding to assess their viability. This program component addresses that need by providing grant funding to cover 50% of the cost of conducting feasibility studies for potential water conservation, storage and reuse projects. A feasibility study is an assessment of the practicality of a proposed project or plan and can be used to determine if and how a project should proceed to the implementation phase.

Recent cycle of funding included \$2.8 million in grants; 50% cost share required.

For more information, contact Becky Williams at 503-986-0869.

Water Project Grants & Loans (formerly Water Supply Development Grants & Loans) <a href="https://www.oregon.gov/OWRD/programs/FundingOpportunities/WaterProjectGrantAndLoans/Pages/def">https://www.oregon.gov/OWRD/programs/FundingOpportunities/WaterProjectGrantAndLoans/Pages/def</a> ault.aspx

This account provides grants and loans to evaluate, plan and implement instream and out-of-stream water development projects that have economic, environmental and social/cultural benefits. Eligible projects include, but are not limited to projects that: increase water use efficiency; develop new or expanded storage; allocate federally stored water; promote water reuse or conservation; and protect or restore stream flows.

Recent cycle funding included \$14 million in grants or loans; 25% cost share required; applications accepted year round.

For more information, contact Becky Williams at 503-986-0869.

More details and updates for these grants can be found at:

https://www.oregon.gov/OWRD/programs/FundingOpportunities/Pages/default.aspx

#### **Municipal Water Management and Conservation Planning**

Municipal water management and conservation planning provides a process through which cities and other municipal water suppliers estimate long-range water supply needs and identify alternatives, including water conservation programs, to meet those needs. The Department requires many municipal water suppliers to prepare plans as conditions of their water use permits or permit extensions.

#### Water Rights

Oregon's water laws are based on the principle of prior appropriation. This means the first person to obtain a water right on a stream is the last to be shut off in times of low streamflows. In water-short times, the water right holder with the oldest date of priority can demand the water specified in their water right regardless of the needs of junior users. The date of application for a permit to use water usually becomes the priority date of the right.

Watermasters respond to complaints from water users and determine in times of water shortage, which generally occur every year, who has the right to use water. Each summer as streamflows drop, watermasters regulate junior users to provide water to the more senior users. On many streams throughout the state, by the end of summer, there is only enough water to supply users who established their rights in the late 1800s. All of the more recently established rights will have been regulated off by the <u>watermaster</u>.

There are "watermaster" offices located around the state. The watermaster office is an excellent source of local information. Watermasters can research water rights for a particular stream reach and provide supporting maps (above). During critical flow periods, watermasters regulate water usage to enable senior water right holders to satisfy their water right. The watermaster may also provide information regarding instream leases, ground water rights, cancellations, transfers of water rights, streamflow data, and water right information in general (list as of 6/16).

#### WRD Watermasters

#### District 1 Nikki Hendricks

c/o Port of Tillamook Bay 4000 Blimp Blvd Ste 400 Tillamook, Oregon 97141 Ph: 503-815-1967

#### District 2 Lanaya Blakely

125 East 8th Avenue Eugene, OR 97401-2926 Ph: 541-682-3620

#### District 3 Robert Wood

2705 E 2nd St The Dalles, Oregon 97058 Ph: 541-506-2652

# District 4 Eric Julsrud

201 S Humbolt, Suite 180 Grant County Courthouse Canyon City, Oregon 97820 Ph: 541-575-0119

#### District 5

Greg Silbernagel 116 SE Dorion Ave Pendleton, OR 97801 Ph: 541-278-5456

#### District 6 Shad Hattan,

10507 N McAlister Rd #6 La Grande, Oregon 97850 Ph: 541-963-1031

# District 7 David Bates

401 NE First St., Suite 11 Enterprise, Oregon 97828 Ph: 541-426-4464

#### District 8 Rick Lusk

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#### District 9 Ron Jacobs

Malheur County Courthouse #4 251 B St W Vale, Oregon 97918 Ph: 541-473-5130

#### District 10 JR Johnson

Harney County Courthouse 450 N Buena Vista #3 Burns, OR 97720 Ph: 541-573-2591

#### District 11 Jeremy Giffin

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#### District 12 Brian Mayer 513 Center St

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#### District 13 Shavon Haynes

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# District 14

Jake Johnstone 700 NW Dimmick St. Grants Pass, Oregon 97526 Ph: 541-479-2401

#### District 15

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#### District 16 Joel Plahn

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#### District 17 Danette Watson

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#### District 18 Jake Constans

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## District 19

**Greg Wacker**Physical Address:
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Coquille, Oregon 97423
Ph: 541-396-1905

#### District 20 Amy Kim

10722 SE Highway 212 Clackamas, Oregon 97015 Ph: 503-722-1410

#### District 21 Ken Thiemann

221 S Oregon St. P.O. Box 427 Condon, OR 97823 Ph: 541-384-4207

## **Oregon Department of Forestry (ODF)**

Salem Headquarters 2600 State Street Salem, Oregon 97310 http://www.oregon.gov/ODF/Pages/index.aspx

The Oregon Department of Forestry manages and regulates activities on non-federal forestland in Oregon. There are three main divisions under ODF-- Fire Protection, Private Forests, and State Forests. The Private Forests Division administers the Forest Practices Act and various forestry incentive programs and employs the use of about 50 Stewardship Foresters who work closely with landowners and operators The State Forests Division is responsible for forest management to provide economic, environmental, and social benefits to Oregonians.

Financial incentive programs are aimed at encouraging and assisting landowners in managing their resources and meeting their objectives. Typical forestry projects can be aimed at protecting the landowner's resources/investment from fire or insect and disease infestation, to increasing its monetary and environmental value in the future.

Information about all ODF and federal forestry-related grants and incentive programs can be found at:

http://www.oregon.gov/ODF/AboutODF/Pages/GrantsIncentives.aspx

#### **Community Forest Program**

The Community Forest and Open Space Conservation Program is a federal financial assistance program with grants available to local governments, Indian tribes, and qualified nonprofit organizations to establish community forests and sustainably manage them for many public benefits, including recreation, income, wildlife habitat, stewardship demonstration sites, and environmental education.

#### **Conservation Stewardship Program**

To help landowners and operators maintain existing stewardship and adopt additional conservation on privately-owned, non-industrial working forests and agricultural lands.

#### **Forest Legacy Program**

The Forest Legacy Program is a national program that addresses privately-owned forestlands that face threats of conversion to non-forest use by development pressures. The goal of the Forest Legacy Program is to promote stewardship and sustainable management of private forest lands by maintaining working forests that conserve important forest resource and conservation values. Forest Legacy provides funds for eligible private forestlands for the purchase of development rights through either conservation easement or fee-title acquisition into public ownership. All properties entered into Oregon's Forest Legacy Program – either through conservation easement, fee acquisition or donation – have their forest resources and conservation values protected and managed in accordance with a State Forester-approved Forest Stewardship Plan (see below).

#### Forest Stewardship Program

Oregon's Forest Management Planning System recognizes that forest management planning is a journey — Pathways to Stewardship — involving several distinct steps. A landowner's initial interest may be related to a specific project or action that is pressing on their property — such as reducing hazardous wildfire fuels or combating an invasive weed. Landowner assistance organizations and agencies usually first cross paths through outreach efforts defined around mutual interests or resource concerns. Landowners who are just beginning the management planning process begin a more formal journey by taking the Woodland Discovery step. Woodland Discovery consists of gathering basic property information and solidifying management goals. The remaining steps for completing your forest management plan include organizing the planning elements into specific management planning modules: soil and water, forest vegetation, fish and wildlife, access and protection, scenery and enjoyment and tax and business. Every step completed along the way results in the identification of specific actions that a landowner can take to improve conditions of the forestland or otherwise meet goals in owning forestland. Completion of a forest management plan opens up formal types of engagement such as forest certification and the enrollment of lands into specialized conservation programs that define a long-term commitment to sustainable forestry.

#### **Healthy Forests Reserve Program (HFRP)**

The goal is to restore and enhance ecosystems and habitat for threatened and endangered species while promoting sustainable timber harvests on working forest lands.

# Department of Agriculture Natural Resources Program

635 Capitol St. NE Salem, OR 97301-2532 Phone: 503 986-4700

http://www.oregon.gov/ODA/programs/NaturalResources

The Oregon Department of Agriculture (ODA) is responsible for developing plans to prevent and control water pollution from agricultural activities and soil erosion on rural lands. ODA's Natural Resources Program aims to conserve, protect, and develop natural resources on public and private lands in order to ensure that agriculture will continue to be productive and economically viable in Oregon. Natural Resources Programs work to do the following:

- Address water quality and natural resource conservation on agricultural lands
- Protect Oregon's environment and public health by ensuring the proper and legal sale, use, and distribution of pesticide products
- Assist local soil and water conservation districts as they help landowners properly manage Oregon's natural resources

More information on the Agricultural Plan Areas and Regulations can be found at: <a href="https://www.oregon.gov/ODA/programs/NaturalResources/AgWQ/Pages/AgWQPlans.aspx">https://www.oregon.gov/ODA/programs/NaturalResources/AgWQ/Pages/AgWQPlans.aspx</a>
Information on local management plans and your area's ODA Water Quality Specialist can be found at: <a href="http://www.oregon.gov/ODA/programs/NaturalResources/AgWQ/Pages/AgWQPlans.aspx">http://www.oregon.gov/ODA/programs/NaturalResources/AgWQ/Pages/AgWQPlans.aspx</a>
More information on the regulation and use of pesticides can be found at: <a href="http://www.oregon.gov/ODA/programs/Pesticides/Pages/default.aspx">http://www.oregon.gov/ODA/programs/Pesticides/Pages/default.aspx</a>

# Department of Agriculture Pesticide Analytical and Response Center (PARC)

http://www.oregon.gov/ODA/programs/Pesticides/Pages/PARC.aspx

The Pesticide Analytical and Response Center (PARC) was created by executive order in 1978. The program was reauthorized under the Oregon Department of Agriculture (ODA) as ORS 634.550, in 1991.

PARC is mandated to perform the following activities with regard to pesticide-related incidents in Oregon that have suspected health or environmental effects: Collect incident information, mobilize expertise for investigations, identify trends and patterns of problems, make policy or other recommendations for action, report results of investigations, and prepare activity reports for each legislative session.

PARC does not have regulatory authority. Their primary function is to coordinate investigations to collect and analyze information about reported incidents. Investigation coordination includes collecting reports produced by member agencies and consultation as necessary with a toxicologist with Oregon State University. Member agencies conduct most of the investigations and take any necessary enforcement action(s). The eight member agencies include the following: Oregon Health Authority (OHA), Oregon Department of Fish and Wildlife (ODF&W), Oregon Department of Environmental Quality (DEQ), Oregon Department of Forestry (ODF), Oregon Occupational Safety and Health Administration (OR OSHA), Office of the State Fire Marshal (SFM), Oregon Poison Center (OPC), Oregon Department of Agriculture (ODA).

To report a pesticide incident that has impacted people, animals, or the environment, contact: Theodore Bunch Jr., PARC Coordination Team Leader at 503-986-6470 or toll-free at 844-688-7272 PARC@oda.state.or.us.

# Department of Agriculture Soil and Water Conservation Districts

http://www.oregon.gov/ODA/SWCD/

SWCD Program and Water Quality Program Manager: John Byers, 503-986-4718

The Soil and Water Conservation District (SWCD) Program provides services to the 45 Soil and Water Conservation Districts throughout Oregon (list current as of 6/16). SWCDs are local government entities that have authorities to address soil, erosion, and water quality issues.

#### **Benton SWCD**

456 SW Monroe Ave., Suite 110

Corvallis, OR 97333 Phone: 541 753-7208

Website: www.bentonswcd.org

#### **Burnt River SWCD**

3990 Midway Drive Baker City, OR 97814

Phone: 541 523-7121 Ext. 109

Email: whitney.collins@bakercountyswcds.com

#### Clackamas SWCD

221 Molalla Ave., Suite 102 Oregon City, OR 97045 Phone: 503 210-6000

Website: www.conservationdistrict.org

#### Clatsop SWCD

750 Commercial St., Room 207

Astoria, OR 97103 Phone: 503 325-4571

Website: www.clatsopswcd.org

#### Columbia SWCD

35285 Millard Road

St. Helens, OR 97051

Phone: 503 397-4555

Website: www.columbiaswcd.com

#### Coos SWCD

371 N Adams St.

Coquille, OR 97423

Phone: 541 396-6879

Website: www.coosswcd.org

#### **Crook County SWCD**

498 SE Lynn Blvd.

Prineville, OR 97754

Phone: 541 447-3548

#### **Curry County SWCD**

29692 Ellensburg Ave.

Gold Beach, OR 97444

Phone: 541 247-2755 Ext. 0#

Website: www.currywatersheds.org

#### **Deschutes SWCD**

625 SE Salmon Ave., Suite 7

Redmond, OR 97756

Phone: 541 923-2204

Website: www.deschutesswcd.com

#### **Douglas SWCD**

2741 West Harvard Ave.

Roseburg, OR 97471

Phone: 541 957-5061

Website: www.douglasswcd.org

#### **Eagle Valley SWCD**

3990 Midway Drive

Baker City, OR 97814

Phone: 541 523-7121 Ext. 109

#### East Multnomah SWCD

5211 N Williams Ave.

Portland, OR 97217

Phone: 503 222-SOIL (7645)

Website: www.emswcd.org

#### Fort Rock / Silver Lake SWCD

17612 Highway 395

Lakeview, OR 97630

Phone: 541 947-5855

Email: LakeviewSWCD2@hotmail.com

#### Gilliam County SWCD

**Dunn Office Building** 

333 S Main St.

Condon, OR 97823

Phone: 541 384-2672

Email: gilliamswcd@gmail.com

#### **Grant SWCD**

721 S Canyon Blvd.

John Day, OR 97845

Phone: 541 575-0135 Ext. 3

Email: jkehrberg@ortelco.net

#### Eman, jkemberg@oneico.ne

Harney SWCD 530 Highway 20 S

Hines, OR 97738

DI 541 572 501

Phone: 541 573-5010

Email: marty.suter@or.nacdnet.net

#### **Hood River SWCD**

3007 Experiment Station Drive

Hood River, OR 97031

Phone: 541 386-4588 / 386-6719

Website: www.hoodriverswcd.org

#### Illinois Valley SWCD

Josephine Co. Office Building

102 S Redwood Highway

Cave Junction, OR 97523

Phone: 541 592-3731

Email: amy@ivstreamteam.org

Jackson SWCD

89 Alder Street

Central Point, OR 97502 Phone: 541 664-1070 Website: www.jswcd.org

Jefferson County SWCD

625 SE Salmon Ave., Suite 6

Redmond, OR 97756

Phone: 541 923-4358 Ext. 101 Email: debbe.chadwick@oacd.org

Josephine SWCD

1440 Parkdale Drive Grants Pass, OR 97527 Phone: 541 474-6840

Email: joswcd@outreachinternet.com

**Keating SWCD** 

3990 Midway Drive Baker City, OR 97814

Phone: 541 523-7121 Ext. 109

Email: whitney.collins@bakercountyswcds.com

Klamath SWCD

2316 S 6th St., Suite C Klamath Falls, OR 97601 Phone: 541 883-6932 Ext. 101 Website: www.klamathswcd.org

Lakeview SWCD

17612 Highway 395 Lakeview, OR 97630 Phone: 541 947-5855

Email: lakeviewswcd2@hotmail.com

Lincoln SWCD

23 North Coast Highway Newport, OR 97365 Phone: 541 265-2631

Website: www.lincolnswcd.org

Linn SWCD

33935 Highway 99E, Suite C

Tangent, OR 97389 Phone: 541 926-2483

Website: www.linnswcd.oacd.org

**Malheur County SWCD** 

2925 SW Sixth Ave., Suite 2

Ontario, OR 97914

Phone: 541 889-2588 Ext. 101 Email: LRowe@malcoswcd.org

**Marion SWCD** 

338 Hawthorne Ave. NE Salem, OR 97301

Phone: 503 391-9927

Website: www.marionswcd.net

Monument SWCD

Columbia Power Building

311 Wilson St.

Monument, OR 97864 Phone: 541 934-2141

Website: www.monumentswcd.org

**Morrow SWCD** 

430 Linden Way Heppner, OR 97836

Phone: 541 676-5452

Email: swcdmanager@centurytel.net

Polk SWCD

580 Main St., Suite A Dallas, OR 97338

Phone: 503 623-9680

Website: www.polkswcd.org

**Sherman County SWCD** 

302 Scott St.

Moro, OR 97039

Phone: 541 565-3216 Ext. 3

Website: www.shermancountyswcd.com

Siuslaw SWCD

1775 Laurel Place, Suite 4 Florence, OR 97439

Phone: 541 997-1272

Website: www.siuswcd.com

Tillamook SWCD

4000 Blimp Blvd., Suite 200

Tillamook, OR 97141

Phone: 503 842-2240 Ext. 110

Website: tillamookcountyswcd.org/

**Tualatin SWCD** 

1080 SW Baseline St., Suite B-2

Hillsboro, OR 97123

Phone: 503 648-3174 Ext. 4

Website: www.swcd.net

**Umatilla County SWCD** 

1 SW Nye Ave., Suite 130

Pendleton, OR 97801

Phone: 541 278-8049

Website: www.umatillacountyswcd.com

**Umpqua SWCD** 

1877 Winchester Ave. Reedsport, OR 97467

Phone: 541 662-1341

Website: www.umpquasoilandwater.com

**Union SWCD** 

10507 N McAlister Road, Room 7

La Grande, OR 97850 Phone: 541 963-1313 Website: unionswcd.org **Upper Willamette SWCD** 

780 Bailey Hill Road, Suite 5

Eugene, OR 97402

Phone: 541 465-6443 Ext. 102

Website: www.uwswcd.org

Wallowa SWCD

401 NE 1st St., Suite E Enterprise, OR 97828

Phone: 541 426-4521

Email: cynthia.a.warnock@gmail.com

Wasco County SWCD

2325 River Road, Suite 3 The Dalles, OR 97058

Phone: 541 296-6178 Ext. 3

Website: www.wascoswcd.org

West Multnomah SWCD

2701 NW Vaughn St., Suite 450

Portland, OR 97210

Phone: 503 238-4775

Website: www.wmswcd.org

Wheeler SWCD

40535 Highway 19

Fossil, OR 97830

Phone: 541 468-2990

Website: www.wheelerswcd.org

Yamhill SWCD

2200 SW Second St.

McMinnville, OR 97128

Phone: 503 472-6403

Fax: 503 472-6407

Website: www.yamhillswcd.org

# **Oregon Watershed Enhancement Board (OWEB)**

775 Summer St. NE Suite 360

Salem, OR 97301

Phone: (503) 986-0178

Website: www.oregon.gov/OWEB

The Oregon Watershed Enhancement Board (OWEB) is a state agency that provides grants to help Oregonians take care of local streams, rivers, wetlands and natural areas. Community members and landowners use scientific criteria to decide jointly what needs to be done to conserve and improve rivers and natural habitat in the places where they live. OWEB grants are funded from the Oregon Lottery, federal dollars, and salmon license plate revenue. The agency is led by a 17 member citizen board drawn from the public at large, tribes, and federal and state natural resource agency boards and commissions. OWEB provides grants to projects that contribute to the Oregon Plan for Salmon and Watersheds and the Oregon Conservation Strategy by protecting, restoring and improving clean water and fish and wildlife habitat. See the OWEB website for more information on grants: <a href="https://www.oregon.gov/oweb/grants/Pages/grant-programs.aspx">https://www.oregon.gov/oweb/grants/Pages/grant-programs.aspx</a>.

# **Oregon Sea Grant (OSG)**

Oregon State University Corvallis, Oregon Phone 541-737-2714 http://seagrant.oregonstate.edu/

Oregon Sea Grant serves Oregon coastal communities through integrated research, education and public engagement on ocean and coastal issues. Based at Oregon State University, OSG is part of the national network of NOAA Sea Grant College Programs, dedicated to promoting environmental stewardship, long-term economic development and responsible use of America's coastal, ocean and Great Lakes resources. OSG targets research on better defining the relationships between the many pressures that can degrade water quality: climate change, upland and coastal land use, fish and habitat restoration efforts, aquatic invasive species. OSG works with groups whose interests sometimes come in conflict - landowners, outdoor recreationists, farmers and woodland managers, local government, the general public - to seek solutions that will help sustain healthy watersheds and our precious water resources. OSG focuses on the question of resilience - the ability to plan, adapt and rebound in the face of change by supporting physical and social science research aimed at better understanding ocean and coastal processes and the socio-economic barriers to hazard and climate change preparation. Publications and

resources available from OSG can be found here: http://seagrant.oregonstate.edu/sgpubs.

OSG and OSU Extension produce textbooks and other publications on such topics as conservation-friendly gardening, sustainable living and low-impact development. OSG also partners with the Oregon State Marine Board to develop the Clean Vessel Act (CVA) Education Initiative. Funded by the Clean Vessel Act of 1992, the goal of the CVA Education Initiative is to improve boaters' awareness, accessibility and use of sewage pumpouts, dump stations, and floating toilets. Publications and resources available from OSG about watershed health can be found here: <a href="http://seagrant.oregonstate.edu/sgpubs">http://seagrant.oregonstate.edu/sgpubs</a> by using "watersheds and wetlands" in the "Search by Subject" field.

Every two years, OSG awards approximately \$2 million in research grants addressing community preparedness for climate change, watershed health, other urgent or emerging regional needs with high relevance to coastal communities. For more information on grants, see: <a href="http://seagrant.oregonstate.edu/research">http://seagrant.oregonstate.edu/research</a>

# Source Water Collaborative – led by U.S. Environmental Protection Agency

Technical assistance and lists of resources and contacts are available from this national network that has worked to promote drinking water protection for several years. The Source Water Collaborative is a network of federal, state, and local organizations led by US EPA. Some of the key Source Water Collaborative members include the US EPA, US Department of Agriculture, AWWA, American Planning Association, ASDWA, ACWA, National Rural Water Association, Groundwater Protection Council, National Association of Counties, and The Trust for Public Land. Resources can be found here:

http://sourcewatercollaborative.org/

# U.S. Environmental Protection Agency Catalog of Federal Funding Sources for Watershed Protection

This is an online, free searchable database of financial assistance sources (grants, loans, cost-sharing) available to fund a variety of watershed protection projects.

https://www.epa.gov/waterdata/catalog-federal-funding

# U.S. Environmental Protection Agency Environmental Finance Centers

Free technical assistance is available through EPA's Environmental Finance Centers. There is currently no Environmental Finance Center for US EPA Region 10, but the resources are still available through the US EPA website. The program mission is to provide help to those facing the "how to pay" challenges of environmental protection. EFC is committed to helping the regulated community build and improve the technical, managerial, and financial capabilities needed to comply with federal and state environmental protection laws. https://www.epa.gov/waterfinancecenter/efcn

# U.S. Environmental Protection Agency Community Action for a Renewed Environment (CARE) Grants

Eligible Projects: Prevention of human exposure to harmful pollution; improve water quality. Form community-based collaborative partnerships; identifying and developing an understanding of the many local sources of risk from toxic pollutants and environmental concerns; and setting priorities for the reduction of the identified risks and concerns of the community

Eligible Applicants: Local, public non-profit institution/organizations, federally-recognized Indian tribal government, Native American organizations, private non-profit institution/organization, quasi-public nonprofit institution/organization both interstate and intrastate, local government, colleges, and universities

Funding Available: \$75,000 to \$100,000 with an average project funding of about \$90,000

**How To Apply:** Currently, EPA has no plans to publish a Request for Proposal for the CARE program due to lack of congressional funding. For updates see: <a href="https://archive.epa.gov/care/web/html/">https://archive.epa.gov/care/web/html/</a>

# U.S. Bureau of Reclamation Cooperative Watershed Management Program

**Eligible Projects:** Improve water quality; improve ecological resiliency of a river or stream; and to reduce conflicts over water at the watershed level by supporting the formation of watershed groups to develop local solutions to address water management issues

Eligible Applicants: States, Indian tribes, local and special districts (e.g., irrigation and water districts, county soil conservation districts, etc.), local governmental entities, interstate organizations, and non-profit organizations. To be eligible, applicants must also meet all of the following requirements: (1) Significantly affect or be affected by the quality or quantity of water in a watershed; (2) Be capable of promoting the sustainable use of water resources; (3) Be located in the western United States specifically: Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington.

Funding Available: \$22,000-\$100,000 in the past

How To Apply: http://www.usbr.gov/WaterSMART/cwmp/index.html

# U.S. Department of Agriculture Farm Service Agency Conservation Programs

http://www.fsa.usda.gov/programs-and-services/conservation-programs/index

USDA Farm Service Agency oversees a number of voluntary conservation-related programs. These programs work to address a large number of farming and ranching related conservation issues including:

- Drinking water protection
- Reducing soil erosion
- Wildlife habitat preservation
- Preservation and restoration of forests and wetlands
- Aiding farmers whose farms are damaged by natural disasters

#### **Source Water Protection Program (SWPP)**

The SWPP is designed to protect surface and ground water used as drinking water by rural residents. Through a partnership with the National Rural Water Association, local teams are formed to develop plans to reduce pollutant impacts in rural areas.

http://www.fsa.usda.gov/programs-and-services/conservation-programs/source-water-protection/index

#### Conservation Reserve Program (CRP)

The CRP pays a yearly rental payment in exchange for farmers removing environmentally sensitive land from agricultural production and planting species that will improve environmental quality. In exchange for a yearly rental payment, farmers enrolled in the program agree to remove environmentally sensitive land from agricultural production and plant species that will improve environmental health and quality. Contracts for land enrolled in CRP are 10-15 years in length. The long-term goal of the program is to re-establish valuable land cover to help improve water quality, prevent soil erosion, and reduce loss of wildlife habitat.

http://www.fsa.usda.gov/programs-and-services/conservation-programs/conservation-reserve-program/index

#### Conservation Reserve Enhancement Program (CREP)

The CREP, an offshoot of CRP, targets high-priority conservation issues identified by local, state, or tribal governments or non-governmental organizations. In exchange for removing environmentally sensitive land from production and introducing conservation practices, farmers, ranchers, and agricultural land owners are paid an annual rental rate. Participation is voluntary, and the contract period is typically 10–15 years, along with other federal and state incentives as applicable per each CREP agreement.

http://www.fsa.usda.gov/programs-and-services/conservation-programs/conservation-reserve-enhancement/index

#### **Emergency Conservation Program (ECP)**

The ECP provides funding and technical assistance for farmers and ranchers to restore farmland damaged by natural disasters and for emergency water conservation measures in severe droughts. The ECP also provides funding and assistance to help ranchers and farmers install water conservation measures during severe drought.

http://www.fsa.usda.gov/programs-and-services/conservation-programs/emergency-conservation/index

#### **Emergency Forest Restoration Program (EFRP)**

The EFRP, which is very similar to the ECP, provides funding to restore privately owned forests damaged by natural disasters.

http://www.fsa.usda.gov/programs-and-services/disaster-assistance-program/emergency-forest-restoration/index

#### Farmable Wetlands Program (FWP)

The FWP is designed to restore wetlands and wetland buffer zones that are farmed. FWP gives farmers and ranchers annual rental payments in return for restoring wetlands and establishing plant cover.

http://www.fsa.usda.gov/programs-and-services/conservation-programs/farmable-wetlands/index

## U.S. Department of Agriculture Natural Resources Conservation Service

NRCS provides farmers, ranchers and forest managers with free technical assistance, or advice, for their land. Common technical assistance includes: resource assessment, practice design and resource monitoring. The conservation planner will help you determine if financial assistance is right for you. Technical assistance is also available online through Conservation Client Gateway.

More information about NRCS can be found on their home page: http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/about/

#### **Environmental Quality Incentives Program (EQIP)**

Grants are available for best management practices and conservation on private, non-industrial forestland and agricultural lands. Financial assistance is available to help plan and implement conservation practices that address natural resource concerns and for opportunities to improve soil, water, plant, animal, air and related resources on agricultural land and non-industrial private forestland. In addition, EQIP can help producers meet Federal, State, Tribal and local environmental regulations.

http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/eqip/

**Eligible Applicants:** Owners of land in agricultural or forest production or persons who are engaged in livestock, agricultural or forest production on eligible land and that have a natural resource concern on the land

**Funding Available**: Financial and technical assistance to agricultural and forestland producers through contracts up to 10 years. Not to exceed \$300,000 for all EQIP contracts entered into during any six-year period. If NRCS determines project has special environmental significance the payment limitation is a maximum of \$450,000.

#### **Conservation Stewardship Program (CSP)**

CSP helps agricultural producers maintain and improve their existing conservation systems and adopt additional conservation activities to address priority resources concerns. Through CSP, participants take additional steps to improve resource condition including soil quality, water quality, water quantity, air quality, and habitat quality, as well as energy. Participants earn CSP payments for conservation performance - the higher the performance, the higher the payment.

http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/csp/

#### Wetlands Reserve Easements (WRE)

WRE provides habitat for fish and wildlife, including threatened and endangered species, improve water quality by filtering sediments and chemicals, reduce flooding, recharge groundwater, protect biological diversity and provide opportunities for educational, scientific and limited recreational activities.

NRCS also provides technical and financial assistance directly to private landowners and Indian tribes to restore, protect, and enhance wetlands through the purchase of a wetland reserve easement. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/or/home/?cid=stelprdb1249312

#### Agricultural Land Easements (ALE)

ALE is designed to protect the long-term viability of the nation's food supply by preventing conversion of productive working lands to non-agricultural uses. Land protected by agricultural land easements provides additional public benefits, including environmental quality, historic preservation, wildlife habitat and protection of open space.

http://www.nrcs.usda.gov/wps/portal/nrcs/detail/or/home/?cid=stelprdb1249312

#### **Emergency Watershed Protection (EWP)**

The EWP program was set up by Congress to respond to emergencies created by natural disasters. The United States Department of Agriculture's Natural Resources Conservation Service is responsible for administering the program. EWP is designed to relieve imminent hazards to life and property caused by floods, fires, windstorms, and other natural occurrences. It is not necessary for a national emergency to be declared for an area to be eligible for assistance. Activities include providing financial and technical assistance to remove debris from streams, protect destabilized streambanks, establish cover on critically eroding lands, repairing conservation practices, and the purchase of flood plain easements. The purpose of EWP is to help groups of people with a common problem. EWP is generally not an individual assistance program. All projects undertaken must be sponsored by a political subdivision of the State, such as a city, county, general improvement district or conservation district, or by a tribal government.

http://www.nrcs.usda.gov/wps/portal/nrcs/main/or/programs/financial/ewp/

#### **Other NRCS Programs**

There are other NRCS programs that are specific to Oregon geographic areas---Wildfire Rehabilitation Initiative, Organic Initiative, drought funding, and restoration funding---see the Oregon NRCS link for more information on those: http://www.nrcs.usda.gov/wps/portal/nrcs/main/or/programs/financial/eqip/

Anyone applying for EQIP or any of the other NRCS grants for the first time should schedule a meeting with NRCS to discuss their options before moving forward.

# U.S. Department of Agriculture Rural Development Water and Waste Disposal Direct Loans and Grants

Eligible Projects: Pre-construction and construction associated with building, repairing, or improving drinking water, solid waste facilities and wastewater facilities

#### Eligible Applicants:

- Cities or towns with fewer than 10,000 population
- Counties, special purpose districts, non-profit corporations or tribes unable to get funds from other sources at reasonable rates and terms

Funding Available: Loans (40-year term), grants in some cases, interest rates vary (currently 2.125 – 3.5%)

**How To Apply:** Applications accepted year-round on a fund-available basis. <a href="http://www.rd.usda.gov/programs-services/water-waste-disposal-loan-grant-program">http://www.rd.usda.gov/programs-services/water-waste-disposal-loan-grant-program</a>

# U.S. Department of Commerce Community Development Block Grant Planning Program

Region 10 HUD Seattle Regional Office Phone: (206) 220-5101

http://portal.hud.gov/hudportal/HUD?src=/states/washington/offices

http://portal.hud.gov/hudportal/HUD?src=/program offices/comm planning/communitydevelopment/programs

Eligible Projects: Comprehensive plans, Infrastructure plans, Feasibility studies, Community action plans, Lowincome housing assessments

**Eligible Applicants:** Projects must principally benefit low- to moderate-income people in non-entitlement cities and counties.

- Cities or towns with fewer than 50,000 people
- Counties with fewer than 200,000 people

#### Funding Available: Grants

- Up to \$24,000 for a single jurisdiction
- Up to \$35,000 for single jurisdiction projects that address urgent public health and safety needs
- Up to \$40,000 for multiple jurisdictions/joint application

How To Apply: http://portal.hud.gov/hudportal/HUD?src=/states/washington/offices

## **Rural Community Assistance Corporation (RCAC)**

Environmental Programs 1020 S.W. Taylor Street Suite 450 Portland, OR 97205

#### Local contacts:

RosAnna Noval, Rural Development Specialist 503-308-0207

Email: <a href="mailto:rnoval@rcac.org">rnoval@rcac.org</a>
Website: <a href="mailto:www.rcac.org">www.rcac.org</a>

At the national level, RCAC has a variety of loans for water and/or wastewater planning, environmental work, and other work to assist in developing an application for infrastructure improvements

**Eligible Applicants:** Non-profit organizations, public agencies, tribes, and low-income rural communities with a 50,000 population or less, or 10,000 or less if guaranteed by USDA Rural Development financing.

#### **Funding Available:**

- Maximum \$50,000 for feasibility loan
- Maximum \$350,000 for pre-development loan
- 1 year term
- 5.5% interest rate

How To Apply: Applications accepted anytime. www.rcac.org

National contact: Josh Griff, 720-951-2163, jgriff@rcac.org

# Water Research Foundation - Source Water Protection Cost-Benefit Tool

This is a free, online suite of tools designed to assist in evaluating the triple bottom-line costs and benefits of different source water protection options. Cost/benefit calculations help evaluate, prioritize, justify, and ultimately implement source water protection initiatives. <a href="http://www.waterrf.org/resources/Pages/PublicWebTools-Detail.aspx?ItemID=8">http://www.waterrf.org/resources/Pages/PublicWebTools-Detail.aspx?ItemID=8</a>

## **Healthy Watersheds Consortium**

The Healthy Watersheds Consortium Grant Program has just published a Request for Proposals (RFP) to support local projects that protect and sustain healthy watersheds (including drinking water sources). Through this program, EPA will provide approximately \$3.75 million over six years to the U.S. Endowment for Forestry and Communities for projects that develop and/or support state, interstate, and tribal healthy watersheds programs and enhance collaboration among the many groups who benefit from protecting healthy watersheds such as drinking water utilities, hunters and fisherman, foresters and farmers, and more. The Endowment is also matching a portion of EPA's financial commitment to the partnership and expects to leverage additional funding from other public and private sources.

The goal of the Healthy Watersheds Consortium Grant Program is to accelerate strategic protection of healthy, freshwater ecosystems and their watersheds. This goal will be achieved by: Funding key projects identified in existing watershed protection or conservation plans; Building the sustainable organizational infrastructure, social support, and long-term funding commitments necessary to implement large-scale protection of healthy watersheds; and supporting innovative or catalytic projects that may accelerate or broadly advance the field of practice for watershed protection efforts. For more information and to view and download the RFP and other helpful documents, visit the website: <a href="http://usendowment.org/partnerships/hwcgrantprogram.html">http://usendowment.org/partnerships/hwcgrantprogram.html</a>

For questions, please contact Peter Stangel at peter@usendowment.org.

#### **Ecotrust**

#### http://www.ecotrust.org/

Ecotrust works to protect and restore watersheds and the economic and public health of the communities that depend upon them. Ecotrust develops and applies strategic approaches that improve habitat for native fish and wildlife, create local jobs and recreational opportunities, increase public awareness of the value of nature's services like water, and ensure a more reliable access to clean water for all members of the Oregon communities. Ecotrust provides Ecosystem Services, GIS Analysis, Mapping, Cartography, Data and Software Development, Economic Impact Assessment, etc.

# **Ecotrust Forest Management**

#### http://ecotrustforests.com

Ecotrust Forest Management is a for-profit forestland investment management company that acquires and manages land on behalf of investors and forestland owners to enhance forest health and productivity, and to produce a diverse array of forest products and services including timber, biomass, carbon, and improved habitat and water quality. Where possible, our goal is to transition land to long-term, local, stewards of land like Tribes, Community Forests, Public or State Agencies etc. EFM is adept at using a wide array of financing sources— New Market Tax Credits, carbon credits, conservation easements, and restoration funding — to supplement private capital resources in the acquisition and management of forestland. Contact: <a href="mailto:info@ecotrustforests.com">info@ecotrustforests.com</a>

# LAND TRUSTS

Resources to assist in locating a land trust can be found here: <a href="http://findalandtrust.org/states/oregon41">http://findalandtrust.org/states/oregon41</a>

## **Coalition of Oregon Land Trusts**

The Coalition of Oregon Land Trusts (COLT) is a newly formed nonprofit representing and serving Oregon's land trusts. Its mission is to serve and strengthen the land trust community in Oregon. Oregon's land trust community is working at local, regional, and statewide scales with landowners, communities, public agencies and other partners to maintain the state's natural heritage and the economies it supports. COLT will accomplish its mission by strengthening public policies and programs that are supportive of land conservation, helping to build capacity within and across land trusts, and communicating to key audiences about the role of land trusts in conserving Oregon's natural heritage and healthy human communities that depend on it. There are currently 18 land trusts that are members of COLT.

Coalition of Oregon Land Trusts 322 NW 5th, Suite 312 Portland, OR 97209 Phone: 503-719-4732 http://oregonlandtrusts.org/

#### **Land Trust Alliance**

The Land Trust Alliance is a national conservation organization that works preserve land through conservation and easements, so land and natural resources get protected. The Alliance is based in Washington, D.C., and has several regional offices.

Northwest Conservation Manager 1353 Officers Row Vancouver, WA 98661

Phone: (971) 202-1483 http://www.landtrustalliance.org/

## Individual land trusts which may be of assistance include:

#### The Trust for Public Land

http://www.tpl.org/services/conservation-transactions

# **The Nature Conservancy**

http://www.nature.org/

# **FOUNDATIONS**

# The Oregon Community Foundation / Community Grant Program

Eligible Projects: Community Livability, Environment & Citizen Engagement (10 to 20 percent of grants)

- Promote leadership development, volunteerism, immigrant integration, and civic participation
- Support stewardship and appreciation of Oregon's outdoor spaces and scenic beauty
- Address social, economic and environmental challenges or opportunities by bringing together disparate stakeholders
- Preserve places essential to communities' civic and historic identities

Eligible Applicants: nonprofits with tax-exempt status under Section 501(c)(3)

Funding Available: average grant is \$20,000

**Contact:** http://www.oregoncf.org/grants-scholarships/grants/community-grants

#### **National Fish and Wildlife Foundation**

Eligible Projects: Environmental Solutions for Communities (1:1 match required)

- Supporting sustainable agricultural practices and private lands stewardship;
- Conserving critical land and water resources and improving local water quality;
- Restoring and managing natural habitat, species and ecosystems that are important to community livelihoods;
- Facilitating investments in green infrastructure, renewable energy and energy efficiency; and
- Encouraging broad-based citizen and targeted youth participation in project implementation.

**Eligible Applicants:** non-profit 501(c) organizations, state government agencies, local governments, municipal governments, Indian tribes, educational institutions

Funding Available: grants range from \$25,000 to \$100,000

Contact: 202-595-2434 - Community-Based Conservation

#### **Access Fund Foundation**

Eligible Projects: land acquisitions; considering the management and financial resources of land ownership, the Access Fund views land acquisitions as a tool of last resort and have adopted the following guidelines for land acquisition projects. If you are requesting funds for a land acquisitions please call the Access Fund before submitting your application.

- The area must be imminently threatened with permanent closure or sale to an outside party that may consider land development opportunities or other uses threatening its climbing and/or access resources.
- The area can be acquired for a reasonable price (reasonable price being one that falls within existing market values and is not in excess of appraised value), together with a reasonable budget (including secured funding) or secured exit-strategy for management by another land trust, local climbers organization or governmental agency.
- A fully executed purchase agreement stating how the project will be funded is required before Access Fund grant funds will be allocated to any acquisition.
- A high degree of matching funds is required. The Access Fund's role in land acquisitions is as an additional, not primary, funding resource.
- Applicants whose projects require continued payments and/or financing should submit a plan describing
  how these payments will be met in the future. These include, but are not limited to, property tax
  payments, loan payments, lease and mortgage payments. This payment plan will be taken into
  consideration during the grant review process.

Eligible Applicants: Local climbing groups, individuals or organizations (Note: tax exempt 501(c)(3) status is not a pre-requisite); governmental agencies that wish to sponsor or organize a local project; conservation organizations and land trusts.

**Funding Available:** \$1,000 to \$4,000. (The Access Fund considers requests for over \$10,000, but these projects should have national significance and utilize a high degree of matching funds.)

Contact: http://www.accessfund.org/

#### **The Collins Foundation**

Eligible Projects: land acquisitions; grants are for projects that directly benefit the residents of Oregon

Eligible Applicants: nonprofits with tax-exempt status under Section 501(c)(3) / agencies that have current registration with the offices of the Oregon State Attorney General and the Secretary of State

Funding Available: varies; grants may range from \$3000 to \$150,000

Contact: www.collinsfoundation.org

#### Giles W. and Elise G. Mead Foundation

**Eligible Projects:** Preserving and improving the environment; primary emphasis forestry, fisheries and the sustainable use of natural resources in western North America

Eligible Applicants: nonprofits with tax-exempt status under Section 501(c)(3) in western North America

Funding Available: past grants ranged from \$15,000 to \$100,000

Contact: http://www.gileswmeadfoundation.org/

#### Rose E. Tucker Charitable Trust

**Eligible Projects:** giving limited to organizations and projects in Oregon, with emphasis on the metropolitan Portland area; land acquisition is eligible

Eligible Applicants: nonprofits with tax-exempt status under Section 501(c)(3)

Funding Available: past grants ranged from \$6,000 to \$150,000

How to Apply: apply anytime; board meets approximately every 2 months

Contact: Tuckertrust@stoel.com

#### **Doris Duke Charitable Foundation**

**Eligible Projects:** The foundation's grant-making is designed to provide frameworks and concrete examples of how practitioners can protect biodiversity in light of climate change through strategic land conservation. The program's adaptation efforts focus on three critical land conservation activities undertaken by non-profit organizations and government natural resource agencies:

- Habitat conservation planning (i.e., the identification of which sites should be conserved in their natural state to benefit wildlife);
- Permanent land protection (i.e., the acquisition of conservation easements or fee title to secure high priority sites); and C) Management of lands already in protected status. The goal for each of these activities is to encourage the conservation community to augment the dominant species-based approach to wildlife conservation with a focus on maintaining ecosystem functionality as climate change takes hold.
- The program has adopted three approaches to achieve its objectives: 1) Identifying resilient landscapes; 2) Protecting resilient landscapes; and 3) Managing conserved lands.

Eligible Applicants: nonprofits with tax-exempt status under Section 501(c)(3)

Funding Available: past grants ranged in the \$100K

Contact: http://www.ddcf.org/what-we-fund/environment/

#### **Bonneville Environmental Foundation**

Eligible Projects: renewable power and acquire, maintain, preserve, restore, protect, and/or sustain fish and wildlife habitat within the Pacific Northwest.

Interest area: Watershed Restoration Program---supports restoration of damaged watershed ecosystems; supports communities trying to heal their local watersheds by supporting watershed restoration projects grounded in the best available watershed science

Eligible Applicants: nonprofit organizations

Funding Available: varies
Contact: www.b-e-f.org

#### The Bullitt Foundation

#### **Program priorities:**

- Manage freshwater resources: control, use, distribution, conservation;
- Conserve and restore resilient watersheds, wetlands and estuaries;
- Maintain a working land base for sustainable agriculture and forestry;
- Enforce laws and policies intended to assure air and water quality;
- Create landowner incentives for maintaining and enhancing ecosystem services, including the development of market-based mechanisms.

**Eligible Applicants:** nonprofit organizations in Washington, Oregon, Idaho, western Montana, south-central Alaska, and British Columbia. Within that broad geographic range, work is targeted to specific sub-regions generally associated with major population centers.

Funding Available: varies---past grants ranged from \$10,000 to over \$600,000

Contact: http://www.bullitt.org/

## Weyerhaeuser Foundation

Eligible Projects: forestry practices, manufacturing's effects on air, water and land; free trade, recycling, diversity, land conservation and environmental education; land acquisitions or conservation easement projects may fit with the Foundation's priorities and goals

Eligible Applicants: educational institutions, non-profit organizations, research institutions in Oregon and Washington

Funding Available: \$1,000 - \$50,000

Contact: http://www.wfamilyfoundation.org/

#### **Laird Norton Foundation**

Eligible Projects: projects contribute to a heightened awareness of the ecological, social and economic significance of water sources and watersheds. Preference will be given to projects which demonstrate innovative measures for protecting and restoring water resources and which involve local communities and/or regional institutions.

Eligible Applicants: nonprofit organizations working in Hood Canal (WA), Upper Deschutes (OR), and Rogue (OR) watersheds

Funding Available: varies; past grants ranged from \$10k to \$100k

Contact: http://www.lairdnorton.org

#### Alternative formats

Documents can be provided upon request in an alternate format for individuals with disabilities or in a language other than English for people with limited English skills. To request a document in another format or language, call DEQ in Portland at 503-229-5696, or toll-free in Oregon at 1-800-452-4011, ext. 5696; or email deginfo@deq.state.or.us.

## APPENDIX # 5

# Appendix 5: Table1: Inventory of Potential Sources of Pollution for Surface Water within 8-hour time-of-travel zone as identified in readily accessible state and federal databases and GIS layers - Updated Source Water Assessment

PWS NAME: City of Silverton PWS NUMBER: 4100823

see Appendix 2 for Key to Tables for Notes and Descriptions of Acronyms

- This information supplements the Original Source Water Assessment Inventory dated between 2000 and 2005 and should be used in conjunction with the original inventory to provide a more detailed analysis of potential sources of pollution.
  - Note that due to state database limitations, some sites will require further research to verify presence and location.
- This summary only includes potential sources of pollution within the estimated 8-hour time of travel area which is provided as a planning tool since eight hours should provide adequate response time to protect the integrity of the public water system intake after a spill or release at any crossing or discharge point to the stream. It is recommended the water system and community considers increased protection within this 8-hour travel time from the intake for spills and other acute risks. Focus may need to extend further upstream for contaminants that are contributed to the stream over long time periods or recur frequently.

Primary Land Ownership/Use(s)	ip/Use(s)						Data Source	T A		
Private rural lands mixed with ODF/BLM managed lands and state managed forestry lands	F/BLM managed lands	s and state managed fore:	stry lands			1	Land use map - Figure 4			
Other potential sources of pollution identified based on aer	s of pollution	identified based (		raphs, t	opogra	aphic map	ial photographs, topographic maps or local knowledge.			
Name				Address/	Address/ location Gity		County	Data Source		
Residential lots near the intake. Crop fields throughout the 8 hour time of travel for Silver	rop fields throughout	the 8 hour time of travel	for Silver Creek.					aerial photograph	aph	
Forest roads - potential for erosion and pesticide applications/herbicide use. Higher potential risk near stream crossings.	n and pesticide applic	ations/herbicide use. Hig	her potential risk near					aerial photograph	aph	T
Drinking water source is potentially susceptible to harmful algal blooms and cyanotoxins based on characteristics of the source including slow moving or stagnant water, temperature, available source of nutrients, water quality data, satellite imagery or other relevant information	ly susceptible to harm ding slow moving or si llite imagery or other	ıful algal blooms and cyan tagnant water , temperatı relevant information	otoxins based on ure, available source of				Silver Creek	DEQ Water Q	DEQ Water Quality Limited listing	
Wildfire/previously burned areas - Potential for erosion, nutrient contribution to waterbodies, and fire fighting chemical applications	- Potential for erosion	, nutrient contribution to	waterbodies, and fire	2014 123 C	omplex, fire	2014 123 Complex, fire cause by human		Northwest Informition (suppression (	Northwest Interagency Coordination Center for wildland fire management and suppression (Fire History 2000-2018)	nter
Regulatory Database Results for 8-Hour Time of Travel zone Additional potential sources may be present upstream, PWS	tesults for 8-Ho ources may be	our Time of Trave present upstrean	l zone from Surf 1, PWS should ve	ace Wa erify loc	ter Inta	from Surface Water Intake - State and Fe should verify location and potential risk	from Surface Water Intake - State and Federal should verify location and potential risk			
Database Identifier Site (DB_D) Identifi er	Status	Common Name	Address	City	County Retrieval Date (RET_DATE	(:	Data Source	DEQ. PCS Code	F. DEQ.PCS.Type	Relati ve Risk
			Regui	Regulatory Database Results	abase Re	sults				
DHS/OHA - OFRA - Schools - 714 Eugene Field Elementary School	Schools - potential chemical use and vehicle maintenance	Eugene Field Elementary 410 N War School	410 N Water St	Silverton	MARION	MARION 06/02/2015	OR Dept. of Human Services - Office of Forecasting, Research, and Analysis (via OGDC (DHS/OHA - 2015)	R15 Sch	Schools	Σ
DHS/OHA - OFRA - Schools - 795 Silver Crest Elementary School	Schools - potential chemical use and vehicle maintenance	Silver Crest Elementary School	365 Loar Rd SE	Silverton	MARION	Silverton MARION 06/02/2015	OR Dept. of Human Services - Office of Forecasting, Research, and Analysis (via OGDC (DHS/OHA - 2015)	R15 Sch	Schools	Σ
DHS/OHA - OFRA - Schools1 Silverton Christian School	Schools - potential chemical use and vehicle maintenance	Silverton Christian School 229 Eureka Ave	229 Eureka Ave	Silverton	MARION	06/02/2015 (	OR Dept. of Human Services - Office of Forecasting, Research, and Analysis (via OGDC (DHS/OHA - 2015)	R15 Sch	Schools	Σ

Relati ve Risk	Σ	I	I	π	I	Σ	Σ	Σ	Σ	Σ	I	工	Σ
DEQ PCS Type	Mining Activities - Inactive - sand/gravel/rock/soil	Mining Activities - Active - sand/gravel/rock/soil	Mining Activities - Active - sand/gravel/rock/soil	Mining Activities - Active - sand/gravel/rock/soil	Mining Activities - Active - sand/gravel/rock/soil	Mining Activities - Inactive- sand/gravel/rock/soil	Mining Activities - Inactive - sand/gravel/rock/soil	Mining Activities - Inactive-sand/grave/rock/soil	Mining Activities - Inactive-sand/gravel/rock/soil	Mining Activities - Inactive - sand/gravel/rock/soil	Mining Activities - Active - sand/gravel/rock/soil	Mining Activities - Active - sand/gravel/rock/soil	Dry Cleaners
DEQ PCS Code	693	C18	C18	C18	C18	.693	690	690	693	690	C18	C18	800
Data Source	OR Dept. of Geology and Mineral Industries Mineral Id Information layer for Oregon( DOGAMI/MILO)	OR Dept. of Geology and Mineral Industries Mineral of Information layer for Oregon( DOGAMI/MILO)	OR Dept. of Geology and Mineral Industries Mineral Information layer for Oregon( DOGAMI/MILO)	OR Dept. of Geology and Mineral Industries Mineral Information layer for Oregon( DOGAMI/MILO)	OR Dept. of Geology and Mineral Industries Mineral Information layer for Oregon( DOGAMI/MILO)	OR Dept. of Geology and Mineral Industries Mineral Information layer for Oregon( DOGAMI/MILO)	OR Dept. of Geology and Mineral Industries Mineral Information layer for Oregon( DOGAMI/MILO)	OR Dept. of Geology and Mineral Industries Mineral Information layer for Oregon( DOGAMI/MILO)	OR Dept. of Geology and Mineral Industries Mineral Information layer for Oregon( DOGAMI/MILO)	OR Dept. of Geology and Mineral Industries Mineral Information layer for Oregon( DOGAMI/MILO)	OR Dept. of Geology and Mineral Industries Mineral Information layer for Oregon( DOGAMI/MILD)	OR Dept. of Geology and Mineral Industries Mineral Information layer for Oregon( DOGAMI/MILD)	OR Dept. of Environmental Quality Dry Cleaner Database (DEQ/DC)
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City	Silverton	Silverton	Salem	Scotts Mills	Silverton	Silverton Marion	Silverton	Dundee	Silverton	Silverton	Silverton	Silverton	Silverton
Address	4383 Silver Falls Drive NE   9	2791 Silver Falls Dr. SE	455 Airport Rd Bldg A	4714 Crooked Finger Rd. 9	19774 Grade Road SE	18563 Powers Creek Loop	18563 Powers Creek Loop	928 SE Edwards Dr.	4383 Silver Falls Drive NE	4485 River Road S	15256 Fox Rd. SE	15256 Fox Rd. SE	210 N Water St
Common Name	Vern Spaur	Jason Hupp	Alm Quarry	Fennimore Rock	Koehlers	Maulding 1	Maulding 2	Sacher Quarry	Silverton Creek Pit 2	Silverton Rock Farm Property	Turner Quarry	Tycer Pit	Dry Cleaning Depot & Laundromat
Status	24-0021 Closed - Rock	24-0104 Permitted - Basalt	24-0095 Permitted - Basalt	24-0100 Permitted - sand & gravel	24-0086 Permitted - Basalt	24-0065 Closed - Basalt	24-0079 Closed - Basalt	01 Closed - Basalt	24-0031 Closed - Rock	24-0032 Closed - Basalt	24-0093 Permitted - Basalt	24-0038 Permitted - Basalt	Closed site; Solvent use before 1998 = False; Perc use ongoing = False
Site Identifi er	24-002	24-010	24-009		24-008	24-006	24-007	24-0101		24-00		24-00	ıg 740
Database identifier (DB_iD)	DOGAMI -	DOGAMI -	DOGAMI - Alm Quarry	DOGAMI - Fennimore Rock	DOGAMI - Koehiers	DOGAMI - Maulding 1	DOGAIMI - Maulding 2	DOGAMI - Sacher Quarry	DOGAMI - Silverton Creek Pit 2	DOGAMI - Silverton Rock Farm Property	DOGAMI - Turner Quarry	DOGAMI - Tycer Pit	DryCleaners - Dry Cleaning Depot & Laundromat

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DEQ PCS Type	Dry Cleaners	Known Contamination Sites/Plumes/Spills (ECSI)	Known Contamination Sites/Plumes/Spills (ECSI)	Chemical/Petroleum Processing/Storage	Chemical/Petroleum Processing/Storage	Chemical/Petroleum Processing/Storage	Chemical/Petroleum Processing/Storage	Chemical/Petroleum Processing/Storage	UST - Confirmed Leaking Tanks - DEQ LUST List	UST - Confirmed Leaking Tanks - DEQ LUST List	UST - Confirmed Leaking Tanks - DEQ LUST List	UST - Confirmed Leaking Tanks - DEQ LUST List	UST - Confirmed Leaking but listed as NFA - DEQ LUST List
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<u>Data Source</u>	OR Dept. of Environmental Quality Dry Cleaner Database (DEQ/DC)	OR Dept. of Environmental Quality - Environmental Cleanup Site Inventory (DEQ\ECSI)	OR Dept. of Environmental Quality - Environmental Cleanup Site Inventory (DEQ\ECSI)	OR Dept. of Environmental Quality - Hazard Waste Program database (DEQ\HW)	OR Dept. of Environmental Quality - Hazard Waste Program database (DEQ\HW)	OR Dept. of Environmental Quality - Hazard Waste Program database (DEQ\HW)	OR Dept. of Environmental Quality - Hazard Waste Program database (DEQ\HW)	OR Dept. of Environmental Quality - Hazard Waste Program database (DEQ\HW)	OR Dept. of Environmental Quality - Leaking Underground Storage Tank database (DEQ\LUST)	OR Dept. of Environmental Quality - Leaking Underground Storage Tank database (DEQ\LUST)	OR Dept. of Environmental Quality - Leaking Underground Storage Tank database (DEQ\LUST)	OR Dept. of Environmental Quality - Leaking Underground Storage Tank database (DEQ\LUST)	OR Dept. of Environmental Quality - Leaking Underground Storage Tank database (DEQ\LUST- NFA)
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ounty F		MARION	MARION	MARION 4	MARION	MARION		MARION 2	MARION 4	MARION	MARION 2		MARION 4
City	Silverton	Silverton	Silverton	N/A	Silverton	Silverton	Silverton	Silverton	Silverton	Silverton N	N/A	Silverton	Silverton
Address		TOWN SQUARE PARK, 120 FT SE OF EAST MAIN	206 JERSEY STREET	VT RD	636 MCCLAINE ST	333 WESTFIELD ST	626 MCCLAINE ST	342 FAIRVIEW ST	407 W MAIN STREET	207 JEROME ST	21010 GRADE RD SE	283 OAK ST	
Common Name			SILVERTON UPHOLSTERY	AT&TCORP	ORD060   Conditionally Exempt   ACME AUTO BODY SHOP   603982   Generator (CEG)		RITE AID NO 5372	SILVERTON HOSPITAL	Heating Oil Tank	Heating Oil Tank	Heating Oil Tank	Heating Oil Tank	CLEANUP_COMPLETE AT&T COMM/SILVERTON 2.8 MILE SOUTH OF D RADIO RELAY SILVERTON
	Closed site; Solvent use before 1998 = False; Perc use ongoing = False	uiring ation	Suspect site requiring further investigation	ORQ000 Conditionally Exempt 004366 Generator (CEG)	Conditionally Exempt Generator (CEG)	Conditionally Exempt PAYLESS 1054/5372 Generator (CEG)	Conditionally Exempt Generator (CEG)	ORQ000 Conditionally Exempt 036438 Generator (CEG)	CLEANUP_STARTED	CLEANUP_STARTED	REPORTED	REPORTED	CLEANUP_COMPLETE .
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1000		IEVRON						Heating Oil Tank		Heating Oil Tank	Heating Oil Tank	Heating Oil Tank	Heating Oil Tank
Status	CLEANUP_COMPLETE   FIRST & LEWIS STREET D	CLEANUP_COMPLETE D	CLEANUP_COMPLETE Heating Oil Tank D										
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City Co	Silverton M.	Silverton M.		Silverton M.	Silverton M.		Silverton M.	Silverton M.		Silverton MARION	Silverton M.	Silverton MARION	Silverton M.
Address	313 APPLE ST SII		N/A NEG VICTOR POINT RD N/A		320 KEENE AVE SII	4733 MADRONA N/A HEIGHTS DR NE	201 WATER ST	303 OAK ST	4835 STADELI LANE NE N/A	402 MCCLAINE ST SII	215 N WATER ST SII	342 FAIRVIEW ST	210 N WATER ST SII
Common Name							CLEANUP_COMPLETE HURLBUTT PROPERTY D	MOBIL STATION	NC.,		S		CLEANUP_COMPLETE SILVERTON POST OFFICE D
Status	CLEANUP_COMPLETE Heating Oil Tank D	CLEANUP_COMPLETE   Heating Oil Tank D	CLEANUP_COMPLETE Heating Oil Tank D	CLEANUP_COMPLETE Heating Oil Tank D	CLEANUP_COMPLETE   Heating Oil Tank D	CLEANUP_COMPLETE Heating Oil Tank D	CLEANUP_COMPLETE D	CLEANUP_COMPLETE   MOBIL STATION D	CLEANUP_COMPLETE D	CLEANUP_COMPLETE SILVERCREEK SHELL D	CLEANUP_COMPLETE D	CLEANUP_COMPLETE   SILVERTON HOSPITAL D	CLEANUP_COMPLETE D
Site Identifi er	24-11- 0596	24-13-	24-13- 0985	24-15- 0558	24-15- 0878	24-17- 0906	24-87- 4019	24-93-4135	24-90-	24-90-4128	24-85-	24-93-	24-92- 4255
Database Identifier (DB_ID)	LUST - NFA - Heating Oil Tank	LUST - NFA - HURLBUTT PROPERTY	LUST - NFA - MOBIL. STATION	LUST - NFA - R. STADELI & SONS, INC., WELLDRILLING	LUST - NFA - SILVERCREEK SHELL	LUST - NFA - SILVERTON AUTOWERKS	LUST - NFA - SILVERTON HOSPITAL	LUST - NFA - SILVERTON POST OFFICE					

Relati ve Risk	Σ	Σ	Σ	I	т	Σ	Σ	Σ	Σ	Σ	Σ	I	Σ
DEQIPCS Type	USI - COMMINIED LEAKING Tanks - DEQ LUST List	UST - Confirmed Leaking Tanks - DEQ LUST List	UST - Confirmed Leaking Tanks - DEQ LUST List	River Recreation - Heavy Use (inc Campgrounds)	Chemical/Petroleum Processing/Storage	Construction Company	Auto - Repair Shops	Maintenance Shop/Equipment Storage - Transportation Related	Maintenance Shop/Equipment Storage - Not Transportation Related	Automobiles - Body Shops	Construction Company	Photo Processing/Printing	Auto - Repair Shops
DEQ. PCS. Gode	10123	M23	M23	M14	C07	C53	C04	C61	090	C01	C53	C21	C04
Data Source. OR Dant of Environmental Ouality - Lasking	On Dept. or Environmental Quality - Leaning Underground Storage Tank database (DEQ\LUST)	OR Dept. of Environmental Quality - Leaking Underground Storage Tank database (DEQ\LUST)	OR Dept. of Environmental Quality - Leaking Underground Storage Tank database (DEQ\LUST)	OR State Marine Board Boating Access Sites Database (OSMB)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)
Retrieval Date (RET_DATE)		43404	43404	03/2016	09/29/2008	09/29/2008	09/29/2008	09/29/2008	09/29/2008	MARION 09/29/2008	09/29/2008	09/29/2008	09/29/2008
County	- 1		MARION					MARION	MARION	MARION	MARION	MARION	MARION
	101	N/A	Silverton	Unknown Marion	SILVERTO MARION N	SILVERTO	SILVERTO MARION	SILVERTO	SCOTTS	SILVERTO I	SILVERTO N	SILVERTO N	SILVERTO N
EV STREET	ET STREET	RD RD	135 SMITH STREET	Silverton Reservoir	EVANS VALLEY RD	18563 POWERS CREEK LP	VIS ST	1987 DRIFT CREEK RD	3533 CROOKED FINGER RD	636 MCCLAINE ST	18563 POWERS CREEK LP	441 N WATER ST	205 S FIRST ST
Common Name Address	SILVERION OPHOLSIERY	UNKOWN	VACANT WAREHOUSE	Silverton Reservoir City Marine Park Boat Docks	BITS & BITS	DENNIS MAULDING CONSTRUCTION	DUNMIRE AUTO SERVICE 403 LEV		HETTWER BROTHERS LLC	HOLLAND COLLISION SERVICE	DENNIS MAULDING CONSTRUCTION	PORTRAIT EXPRESS	POTTERS AUTO SPECIALTIES
Status Cieanijo crapten	SIAKIEU	REPORTED	CLEANUP_STARTED	Boating access site		HIGHWAY, STREET, & BRIDGE CONST	GENERAL AUTOMOTIVE REPAIR	SPECIALIZED FREIGHT HAGE BROS TRUCKING (EXC USED GOODS) TRUC	LOGGING	AUTOMOTIVE BODY, PAINT, & INTERIOR REPAIR	HIGHWAY, STREET, & DENNIS MAULDING BRIDGE CONST	PHOTOFINISHING LABORATORIES (EXC ONE-HOUR)	GENERAL AUTOMOTIVE REPAIR SPECIALTIES
100 A		24-88-	22-94- 4012	Silver Creek Reservoi r	097352	003584	045009	053623	020940	039095	003584	012954	0 013699
Database Identifier (DB_ID)	LUSI - SILVERI ON UPHOLSTERY	LUST - UNKOWN	LUST - VACANT WAREHOUSE	OSMB - Silver Creek Reservoir	SFM - HSIS - BITS & BITS	SFM - HSIS - DENNIS MAULDING CONSTRUCTION	SFM - HSIS - DUNMIRE AUTO SERVICE	SFM - HSIS - HAGE BROS TRUCKING	SFM - HSIS - HETTWER BROTHERS LLC	SFM - HSIS - HOLLAND COLLISION SERVICE	SFM - HSIS - DENNIS MAULDING CONSTRICTION	SFM - HSIS - PORTRAIT EXPRESS	SFM - HSIS - POTTERS AUTO 013699 SPECIALTIES

Relati ve Risk	Σ	I	Ι	_	x	J	Ξ	Ι	I	Ξ	x	工	I
DEQ.PCS.Type	Auto - Repair Shops	Miscellaneous Equipment Maintenance	Chemical/Petroleum Processing/Storage	Communications Office	Pesticide/Fertilizer/Petrole um Storage, Handling, Mixing, & Cleaning Areas	Communications Office	Chemical/Petroleum Processing/Storage	Chemical/Petroleum Processing/Storage	Chemical/Petroleum Processing/Storage	Chemical/Petroleum Processing/Storage	Chemical/Petroleum Processing/Storage	Chemical/Petroleum Processing/Storage	Municipal/Industrial Landfill
DEQ PCS Code	C04	890	C07	C52	A14	C52	C07	C07	C07	C07	C07	C07	R10
Data Source	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009)	OR Dept. of Environmental Quality - Solid Waster Management System (DEQ\SWMS)
Retrieval Date (RET_DATE)	09/29/2008	09/29/2008	09/29/2008	09/29/2008		SILVERTO MARION 09/29/2008 N	09/29/2008		SILVERTO MARION 09/29/2008	09/29/2008	09/29/2008	8002/62/60	43404
County	MARION				MARION	MARION	MARION	MARION	MARION	MARION			MARION
City	SILVERTO N	SILVERTQ MARION N	SILVERTO MARION N	SILVERTO MARION N	SILVERTO MARION N	SILVERTO N	SILVERTO MARION N	SILVERTO I	SILVERTO N	SILVERTO N	SILVERTO MARION N	SILVERTO MARION N	N/A
Address	110 S 2ND ST	v st		)	5445 FOREST RIDGE RD NE	MAIN ST	18563 POWERS CREEK		1987 DRIFT CREEK RD	205 S FIRST ST	342 FAIRVIEW ST	5445 FOREST RIDGE RD NE	MERIDIAN ROAD 5 INTERSECTIONS
Common:Name	REDHEAD ENGINES	SILVERTON HOSPITAL	OTHER GENERAL GOV SILVERTON WATER TREAT 121 AMES ST SUPPORT		CC	VERIZON NORTHWEST INC	DENNIS MAULDING CONSTRUCTION	щ	Aboveground storage HAGE BROS TRUCKING tank(s) on site	POTTERS AUTO SPECIALTIES	SILVERTON HOSPITAL	Aboveground storage TREE FROG NURSERY LLC tank(s) on site	MARION COUNTY ROAD SYSTEM
Status	GENERAL AUTOMOTIVE REPAIR	GENERAL MEDICAL & SURGICAL HOSPITALS	OTHER GENERAL GOV SUPPORT	CELLULAR & OTHER WIRELESS TELECOMMUNICATIO	LANDSCAPING SVCS	WIRED TELECOMMUNICATIO INC NS CARRIERS	Aboveground storage tank(s) on site	Aboveground storage tank(s) on site	Aboveground storage tank(s) on site	Aboveground storage tank(s) on site	Aboveground storage tank(s) on site	Aboveground storage tank(s) on site	
Site Identifi er	020943	058432	017149		104090	023298	003584	045009		013699	058432		112224
Database identifier (DB_ID)	SFM - HSIS - REDHEAD ENGINES	SFM - HSIS - SILVERTON HOSPITAL	SFM - HSIS - SILVERTON WATER TREAT	SFM - HSIS - SPRINT NEXTEL 094176 CORPORATION	SFM - HSIS - TREE FROG NURSERY LLC	SFM - HSIS - VERIZON NORTHWEST INC	SFM-HSIS AST - DENNIS MAULDING CONSTRUCTION	SFM-HSIS AST - DUNMIRE AUTO SERVICE	SFM-HSIS AST - HAGE BROS 053623 TRUCKING	SFM-HSIS AST - POTTERS AUTO SPECIALTIES	SFM-HSIS AST - SILVERTON HOSPITAL	SFM-HSIS AST - TREE FROG 104090 NURSERY LLC	SW - MARION COUNTY ROAD SYSTEM

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Relati ve Risk	Σ	<u></u>	_		Σ	Σ	Ξ	Σ	т			Σ	Σ	Ξ
F DEQ. PCS Type		Stormwater Wastewater Injection/Dry Wells, Sumps - Class V UICs	UST - Upgraded and/or Registered - Active (may also have decommissioned tanks on site)		Sewer Lines - Close Proximity to PWS	Housing - High Density - > 1 House/0.5 Acres	Transportation Corridors - Freeways/Highways or other heavy use roads	Housing - High Density - > 1 House/0.5 Acres	Crops - Irrigated - Berries, Hops, Mint, Orchards, Vineyards/Nurseries, Green Houses, Vegetables,	Homesteads - Rural - Septic Systems < 1/Acre	Homesteads - Rural - Septic Systems < 1/Acre	Above Ground Storage Tanks-Excluding Water Tanks and Residential ASTs	Schools	Crops - Irrigated - Berries, Hops, Mint, Orchards, Vineyards/Nurseries, Green Houses, Vegetables,
DEQ. PCS. Code	M10	M59	M27		R17	R09	M18	R09	A04	M09	M09	M01	R15	A04
Data Source	OR Dept. of Environmental Quality - Underground Injection Control database (DEQ\UIC)	OR Dept. of Environmental Quality - Underground Injection Control database (DEQ\UIC)	OR Dept. of Environmental Quality - Underground Storage Tank Program (DEQ\UST)	ource Water Assessment (PWS should verify presence, potential risk and location)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)
County Retrieval Date (RET_DATE)	43404	43404	43405	hould verify	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
ounty	Marion	Marion	MARION	t (PWS sl	Marion	Marion	Marion		Marion	Marion	Marion	Marion	Marion	Marion
City	Silverton	Silverton	Silverton	sessmen	Silverton	Silverton	Silverton	Silverton Marion	Silverton	Silverton	Silverton	Silverton	Silverton	Silverton
Address	306 S. Water Street	365 Loar Road SE	342 FAIRVIEW ST	-2005 Source Water As	Hwy 214	West and South of Well	Runs Through DWPA	Silverton Road	of	Throughout DWPA	Throughout DWPA	Loar Rd. SE and Drake's 'Rd. SE	Loar Rd. SE and Drake's Rd. SE	Throughout DWPA
Common Name	City of Silverton	Silver Crest Elementary	SILVERTON HOSPITAL	Previously identified in 2000-2005 So	Sewer Lines	High Density Housing	Hwy 214	Silverton Mobile Estates	Irrigated Crops	Rural Homes	Rural Homes	Silver Crest School	Silver Crest School	Irrigated Crops
Status	ercia	1-Roof drain / Registered & RA	UST - Active	Previo	R17 - Sewer Lines - Close Proximity to PWS	R09 - Housing - High Density - > 1 House/0.5 Acres	M18 - Transportation Hwy 214 Corridors - Freeways/Highways or other heavy use	R09 - Housing - High Density - > 1 House/0.5 Acres	σ.	M09 - Homesteads - Rural - Septic Systems < 1/Acre	M09 - Homesteads - Rural - Septic Systems < 1/Acre	MO1 - Above Ground Storage Tanks- Excluding Water Tanks and Residential	R15 - Schools	A04 - Crops - Irrigated Irrigated Crops - Berries, Hops, Mint, Orchards, Vineyards/Nurseries,
Site. Identifi er	10616	11476	98889		10993	10995	10991	10990	10994	10992	13340	13338	13338	13339
Database identifier. (DB_ID)	UIC - City of Silverton	UIC - Silver Crest Elementary	UST - SILVERTON HOSPITAL 66888		DWP - PCS - Sewer Lines	DWP - PCS - High Density Housing	DWP - PCS - Hwy 214	DWP - PCS - Silverton Mobile Estates	DWP - PCS - Irrigated Crops	DWP - PCS - Rural Homes	DWP - PCS - Rural Homes	DWP - PCS - Silver Crest School	DWP - PCS - Silver Crest School	DWP - PCS - Irrigated Crops

Relati ve Risk	Σ	工	ェ	_	工	I	I		Ι	_	_	I	Τ
DEQ PCS Type	Above Ground Storage Tanks-Excluding Water Tanks and Residential ASTs	Junk/Scrap/Salvage Yards	Managed Forest Lands - Clearcut Harvested - < 35 yrs	Crops - Nonirrigated - Christmas Trees, Grains, Grass Seeds, Hay, Pasture	Grazing Animals - > 5 Large Animals or Equivalent/Acre	Managed Forest Lands - Clearcut Harvested - < 35 yrs	Managed Forest Lands - Partial Harvested - <10 yrs	Crops - Nonirrigated - Christmas Trees, Grains, Grass Seeds, Hay, Pasture	Junk/Scrap/Salvage Yards	Crops - Nonirrigated - Christmas Trees, Grains, Grass Seeds, Hay, Pasture	Homesteads - Rural - Septic Systems < 1/Acre	Mining Activities - Gravel Mines/Gravel Pits	Random Dumpsites
DEQ. PCS Code	M01	C14	A11	A05	A07	A11	A12	A05	C14	A05	M09	C18	M13
	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)
Retrieval Date (RET_DATE)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2002	2005	2005
Gounty	Marion	Marion	Marion	Marion	Marion	Marion	Marion	Marion	Marion	Marion	Marion	Marion	Marion
City		Silverton	Silverton	Silverton	Silverton	Silverton	Silverton	Silverton	Silverton	Silverton		Silverton	Silverton
Address		NW of gate @ end of S. Shiqua Rd.	South side of creek simmediately upstream of intake	~18000 Powers Creek Loop Rd.	Stimson Lumber Co. property @ end of S. Abiqua Rd.	Slopes and ridges south sand east of intake	~18000 Powers Creek S	~18200 Powers Creek Loop Rd.	Immediately north of the S Briar Knob Rd Abiqua Rd. intersection		All along Abiqua Rd. near Silverton the creek	West side of Abiqua Rd. S ~75 meters south of bridge	West side of Abiqua Rd. S ~75 meters south of bridge
Common Name	Aboveground Storage Tanks	Private residential property				411 - Managed Forest Privately managed forest Lands - Clearcut lands - ownership Harvested - < 35 yrs unknown	A12 - Managed Forest Private farm/forest lands Lands - Partial Harvested - <10 yrs	Private Christmas tree farm	Private residential property	Private grass & Christmas Powers Creek Rd. SE of tree farm Hammond Creek	/ate	Gravel pit - ownership unknown	Gravel pit - ownership unknown
Status	M01 - Above Ground Astorage Tanks-Excluding Water Tanks and Residential		A11 - Managed Forest   Managed forest lands Lands - Clearcut Harvested - < 35 yrs	A05 - Crops - Nonirrigated - Christmas Trees, Grains, Grass Seeds,	A07 - Grazing Animals   Cattle & Horse pasture   - > 5 Large Animals or   Equivalent/Acre	A11 - Managed Forest Lands - Clearcut Harvested - < 35 yrs	A12 - Managed Forest Lands - Partial Harvested - <10 yrs	A05 - Crops - Nonirrigated - Christmas Trees, Grains, Grass Seeds,		ADS - Crops - Nonirrigated - Christmas Trees, Grains, Grass Seeds,	. us	C18 - Mining Activities - Gravel Mines/Gravel Pits	M13 - Random Umpsites
Site Identifi er	13341	3767	3771	3763	3766	3764	3762	3761	3765	3760	3769	3768	3768
Database identifier (DB_ID)	DWP - PCS - Aboveground Storage Tanks	DWP - PCS - Private residential property	DWP - PCS - Managed forest lands	DWP - PCS - Christmas tree farm	DWP - PCS - Cattle & Horse pasture	DWP - PCS - Privately managed forest lands - ownership unknown	DWP - PCS - Private farm/forest lands	DWP - PCS - Private Christmas tree farm	DWP - PCS - Private residential property	DWP - PCS - Private grass & Christmas tree farm	DWP - PCS - Several private residences	DWP - PCS - Gravel pit - ownership unknown	DWP - PCS - Gravel pit - ownership unknown

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DEQ.PCS.Type	Managed Forest Lands - Clearcut Harvested - < 35 yrs	Industrial or Process Wastewater - WPCF and NPDES/ Lagoons and	DEQ Permitted Stormwater Discharges (NPDES or WPCE)	DEQ Permitted Stormwater Discharges (NPDES or WPCE)		Surface Water on 303d list	Surface Water on 303d list	Surface Water on 303d list	Surface Water on 303d list	Surface Water on 303d list	Surface Water on 303d list	Surface Water on 303d list	Surface Water on 303d list	Surface Water on 303d list
DEQ PCS Code	A11	M62	M57	M57		M54	M54	M54	M54	M54	M54	M54	M54	M54
Data Source	OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005)	OR Dept. of Environmental Quality - Water Quality SIS database	OR Dept. of Environmental Quality - Water Quality SIS database	OR Dept. of Environmental Quality - Water Quality SIS database		OR Dept. of Environmental Quality Water Quality Assessment (DEQ/WQ)	OR Dept. of Environmental Quality Water Quality Assessment (DEQ/WQ)	OR Dept. of Environmental Quality Water Quality Assessment (DEQ/WQ)	OR Dept. of Environmental Quality Water Quality Assessment (DEQ/WQ)	OR Dept. of Environmental Quality Water Quality Assessment (DEQ/WQ)	OR Dept. of Environmental Quality Water Quality Assessment (DEQ/WQ)	OR Dept. of Environmental Quality Water Quality Assessment (DEQ/WQ)	OR Dept. of Environmental Quality Water Quality Assessment (DEQ/WQ)	OR Dept. of Environmental Quality Water Quality Assessment (DEQ/WQ)
Retrieval Date (RET_DATE)	2005	43404	43404	43404	streams	10/31/2014	10/31/2014	10/31/2014	10/31/2014	10/31/2014		10/31/2014	10/31/2014	10/31/2014
County	Marion	MARION	MARION	MARION	mited st	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
City	Silverton	N/A	N/A	Silverton	Water Quality Limited	Not Not applicable applicable	Not applicable	Not Not applicable applicable	Not applicable	Not applicable	Not applicable	Not Not applicable	Not applicable	Not applicable
Address	Throughout Abiqua Creek basin upstream of second bridge	121 AMES ST	1335 SOUTH WATER STREET	1154 WATER STREET SOUTH	Water	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Common Name		SILVERTON, CITY OF	GARDEN CITY APARTMENTS	BLACKBERRY PRESERVE		Little Abiqua Creek	Little Abiqua Creek	South Fork Silver Creek	South Fork Silver Creek	South Fork Silver Creek	Abiqua Creek	Abiqua Creek	Silver Creek	Silver Creek
Status	A11 - Managed Forest Managed forest lands Lands - Clearcut Harvested - < 35 yrs	GENO2 - INDUSTRIAL MINOR	GEN12C - STORMWATER MINOR	GEN12C - STORMWATER MINOR		1226280 Cat 3: Insufficient 449570 data - Guthion	Cat 5: Water quality limited, 303(d) list, TWDL needed - Dissolved Oxygen	Cat 3: Insufficient data: Dissolved Oxygen, pH, Ammonia, Phosphate Phosphorus, Chloride	Cat 3B: Insufficient data, potential concern, Alkalinity,	Cat 4A: Water quality limited, TMDL approved	Cat 3: Insufficient data - Dissolved		450000 data - Arsenic, Sedimentation,	Cat 4A: Water quality limited, TMDL approved - Temperature, Fecal
Site Identifi er	3770	81398	124657	124834		12262 44957	1226280 449570			1226643	1228325 450360			1228414 450000
Database Identifier (DB_ID)	DWP - PCS - Managed forest lands	WQ SIS - SILVERTON, CITY OF	WQ SIS - GARDEN CITY APARTMENTS	WQ SIS - BLACKBERRY PRESERVE		Water Quality Limited streams, Cat3 - Little	Streams, Catta & Catta, Streams, Catta & Catta, DEQ-2012 - Little Abiqua Creek	Water Quality Limited streams, Cat3 - South Fork Silver Creek	Water Quality Limited streams, Cat3 - South Fork Silver Creek	Water Quality Limited streams, Cat4A & Cat5, DEQ-2012 - South Fork	Water Quality Limited streams, Cat3 - Abiqua	Water Quality Limited streams, Cat4A & Cat5, DEQ-2012 - Abiqua Creek	Water Quality Limited streams, Cat3 - Silver Creek	Water Quality Limited streams, Cat4A & Cat5, DEQ-2012 - Silver Creek

DEQ PCS Type	Surface Water on 303d list H		Transportation Corridors - H Stream Crossing - Perennial	1 1	1 1 1	<del></del>		<del></del>	<del></del>		ation Corridors - ossing - ossing - ation Corridors - ossing - ossing - ossing - ation Corridors - ossing - ossing - ossing -		ation Corridors - ossing - ossing - ation Corridors - ossing -	ation Corridors - ossing - -	ation Corridors - ossing - -	ation Corridors - ossing -	ation Corridors - ossing - stion Corridors - ossing - ation Corridors - ossing - ossing - ation Corridors - ossing - ation Corridors - ossing - ossing - ation Corridors - ossing - oss
P.C.S	M54		M22	M22 M22	M22 M22 M22	M22 M22 M22 M22	M22 M22 M22 M22 M22	M22 M22 M22 M22 M22 M22	M22	M22 M22 M22 M22 M22 M22 M22 M22	M22	M22 M22 M22 M22 M22 M22 M22	M22	M22	M22	M22	M18 M18 M22 M22 M22 M22 M22 M25 M25 M25 M25 M25
	OR Dept. of Environmental Quality Water Quality Assessment (DEQ/WQ)	cipalities:	cipalities: Oregon Dept. of Transportation, Technical Services Branch, Bridges Section (ODOT)	cipalities:  Oregon Dept. of Transportation, Technical Services Branch, Bridges Section (ODOT)  Oregon Dept. of Transportation, Technical Services Branch, Bridges Section (ODOT)	cipalities:  Oregon Dept. of Transportation, Technical Services Branch, Bridges Section (ODOT) Oregon Dept. of Transportation, Technical Services Branch, Bridges Section (ODOT) Oregon Dept. of Transportation, Technical Services Branch, Bridges Section (ODOT)	cipalities:  Oregon Dept. of Transportation, Technical Services Branch, Bridges Section (ODOT)  Oregon Dept. of Transportation, Technical Services Branch, Bridges Section (ODOT)  Oregon Dept. of Transportation, Technical Services Branch, Bridges Section (ODOT)  Oregon Dept. of Transportation, Technical Services Branch, Bridges Section (ODOT)	cipalities:  Oregon Dept. of Transportation, 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-	Silver Creek	Cattlepass, Hwy 163 at MP 29.87	Abiqua Creek, Abiqua Rd		Abiqua Creek, Abiqua Rd NE at MP 7.04					Abiqua Creek, Abiqua Rd Not Appl NE at MP 7.04 Silver Creek, C St (Silverton) BELOW SOUTH FALLS, Silver Falls State Park Silver Falls State Park 60' Steel Pd Br Canyon Tri 1 Not Appl Silver Falls State Park 60' Steel Pd Br Canyon Tri 1 Silver Falls State Park Couble Falls at Silver Falls State Park Double Falls at Silver Falls	Abiqua Creek, Abiqua Ro NE at MP 7.04 Silver Creek, C St (Silverton) BELOW SOUTH FALLS, Silver Falls State Park Steel bridge Canyon Tr a Silver Falls State Park 60' Steel Pd Br Canyon T Silver Falls State Park Double Falls at Silver Fall State Park Silver Creek, Main St	Abiqua Creek, Abiqua Rd  NE at MP 7.04  Silver Creek, C St  (Silverton)  BELOW SOUTH FALLS, Silver Falls State Park  Silver Falls State Park  60' Steel Pd Br Canyon Tr at Not Appli Silver Falls State Park  60' Steel Pd Br Canyon Trl Silver Falls State Park  Mot Appli Silver Creek, Main St  Willamette Valley Railway Unknown					
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