

City of Rockaway Beach

Sourcewater Protection Plan Development Advisory Committee (SPPDAC) Meeting Agenda



Date: Monday, April 29, 2024
Time: 2:00 – 3:00 P.M.
Location: Rockaway Beach City Hall, 276 Hwy 101 – 2nd Floor Conference Room

Join here to attend the meeting remotely:

<https://us06web.zoom.us/j/82023066964?pwd=wHsH1jpElkpgMDex25oMhw3at47WI8.1>

Meeting ID: 820 2306 6964

Passcode: 867269

Dial by your location

253 215 8782 US (Tacoma)

1. **CALL TO ORDER** – Charles McNeilly, Mayor
2. **ROLL CALL**
3. **APPROVAL OF ACTION MINUTES** – None Scheduled
4. **PUBLIC COMMENT**
5. **NEW BUSINESS**
 - a. Introductions
 - b. Election of Committee Chair
 - c. What is a Drinking Water Protection Plan (DWPP)?
 - d. Why develop the DWPP?
 - e. Components of the DWPP and examples
 - f. DWPP development process
 - g. Advisory Committee meeting approach and schedule discussion
 - h. Upcoming Watershed Tour
6. **ADJOURNMENT**

Updated Source Water Assessment

Rockaway Beach Water District

PWS #4100708

November, 2016

Prepared for:

Rockaway Beach Water District



Prepared by:



State of Oregon
Department of
Environmental
Quality



Oregon

Kate Brown, Governor

Department of Environmental Quality
Agency Headquarters
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Portland, OR 97232
(503) 229-5696
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TTY 711

November 3, 2016

Luke Shepard, Public Works Director
Rockaway Beach Water District
PO BOX 5
Rockaway Beach, OR 97136

Re: **Updated Source Water Assessment for PWS # 4100708**

Dear Mr. Shepard,

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. This updated assessment includes information on both the groundwater and surface water source areas.

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 as well as the anthropogenic activities in the watershed or groundwater source area.

This letter, with attached figures and technical information, constitutes your **Updated Source Water Assessment**. It supplements your original Source Water Assessment (link here: <http://www.deq.state.or.us/wq/dwp/swrpts.asp>). 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 for the surface water source area). 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. **Appendix #5** contains potential management strategies for high priority sources of pollutants identified in the groundwater source area.

This update can be used as a standalone document for drinking water source protection or in conjunction with Source Water Assessment reports previously completed by OHA and DEQ between 1998 and 2005. We have provided a copy of the original report for the surface water intake. Contact OHA at 541-726-2587 to receive your water system's original SWA Report for the groundwater portion of your system. We encourage you to use the previous reports which contain additional information characterizing well construction, the drinking water source areas, and susceptibility to potential contaminant sources.

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 Steve Aalbers at 503-229-6798). DEQ is currently developing "Resource Guides" with more extensive information to assist public water systems in protecting their source waters. Resource Guides will be developed for both Oregon surface water systems and groundwater systems by 2017.

For direct assistance and/or additional information regarding watershed protection, call Sheree Stewart at DEQ (503-229-5413). For more information on drinking water policies and procedures, call Casey Lyon at OHA (541-726-2587).

Sincerely,



Sheree Stewart, Drinking Water Protection Coordinator
Environmental Solutions Division

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



**Figure 1. Rockaway Beach Water District (PWS 00708)
 Drinking Water Source Areas
 and Adjacent Source Areas**



- Legend**
- Rockaway Beach Water Dist. surface water intake
 - Surface Water Intake
 - Rockaway Beach Water Dist. Drinking Water Source Area
 - Surface Water DWSAs
 - Groundwater Drinking Water Source Area
 - Interstate
 - U.S. Routes
 - Oregon Routes
 - City limits (ODOT, 2013)
 - Urban Growth Boundary (2010)
 - County Boundary

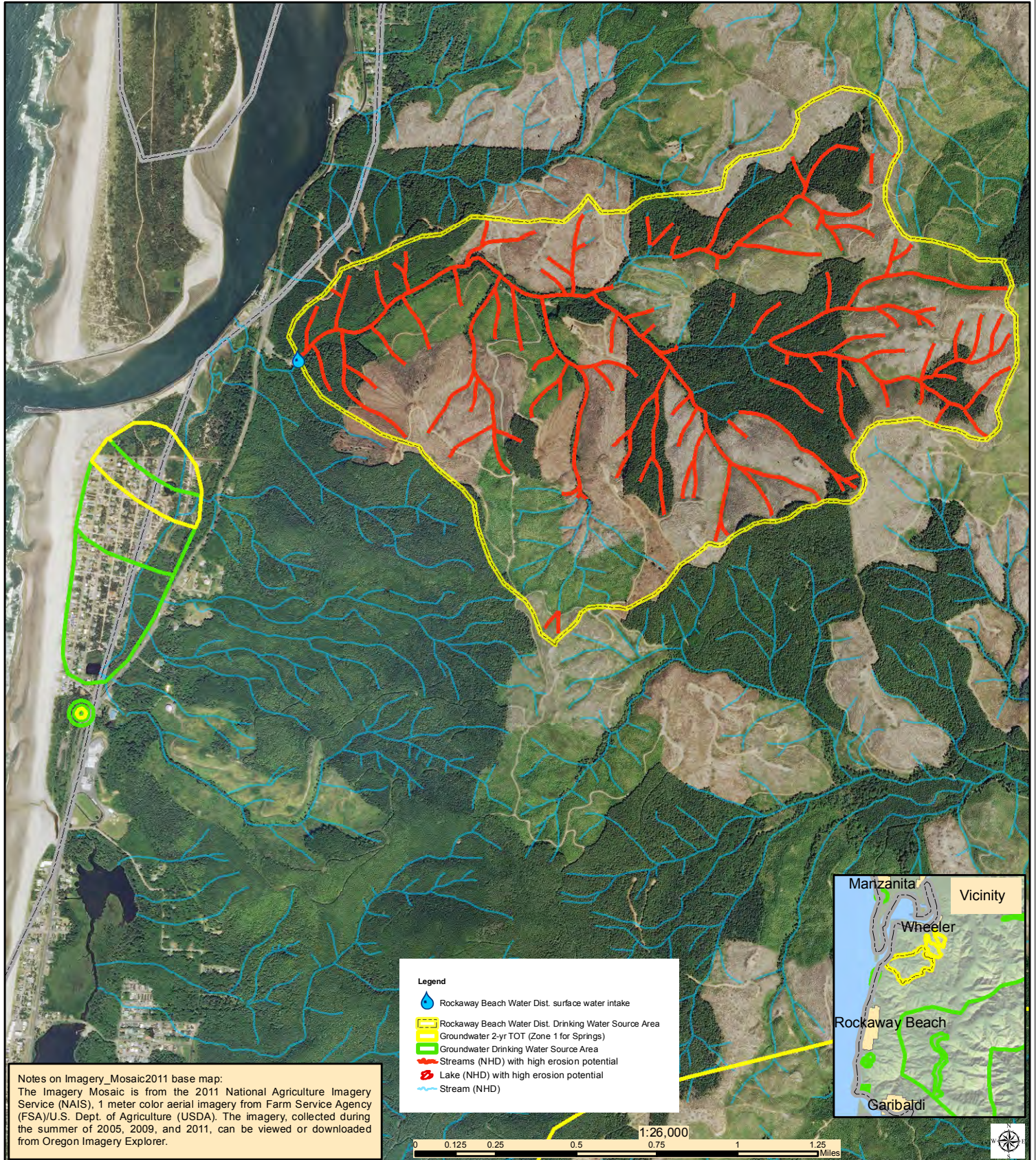
This data analysis was conducted for strategic planning purposes in drinking water protection. If other uses are considered for the data, please contact DEQ's Drinking Water Protection Program for details on how this query was performed. It is important to understand the limitations and qualifications of queries to ensure appropriate interpretation of this data. No warranty expressed or implied is made regarding the accuracy or utility. This disclaimer applies both to individual use of the data and aggregate use with other data.

Oregon Dept of Environmental Quality/Environmental Solutions Division/Water Quality Program
 Drinking Water Protection Program/GIS
 Projection: Oregon Lambert (Lambert Conformal Conic)
 GCS_North_American_1983, Datum: D_North_American_1983
 File:\deq\hq1\dwp\SWA Reports & Plan\Update SWA SW
 2016\PWSReports\4100708_Rockaway_Beach\USWA_Fig1_SWGW_RockawayBeachWaterDistrict_VicinityMap.mxd
 Prepared by: sda(09SEP2016), updated by: jkh (26SEP2016)

Note on Base Layer: The hillshade color effect shown here is the result of additional processing of digital elevation models (DEM - 30 meter grid) data from 1:24000 topographic maps. A "hillshade" was produced first and then color adjusted. The original DEM files were developed by the OR Dept. of Forestry. Additional processing of the hillshade data with Red, Green, Blue (RGB) color scheme resulted in the "orshade.sid" dataset displayed here. The data set is provided for use by the Oregon Geospatial Data Center.



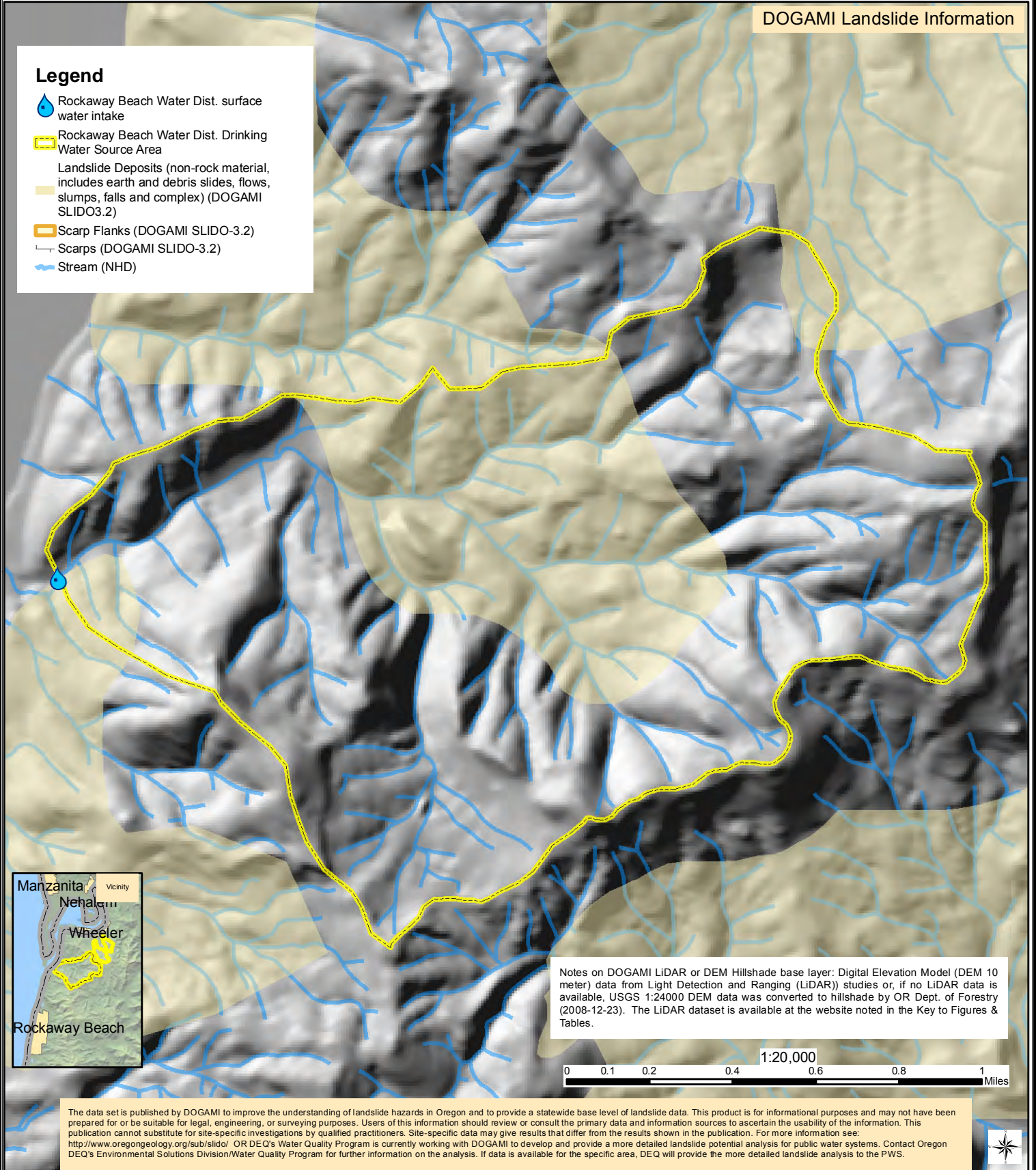
**Figure 2. Rockaway Beach Water District (PWS 00708)
Drinking Water Source Area Erosion Potential
(See Appendix 2 for Key to map details and metadata)**



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 Explorer.



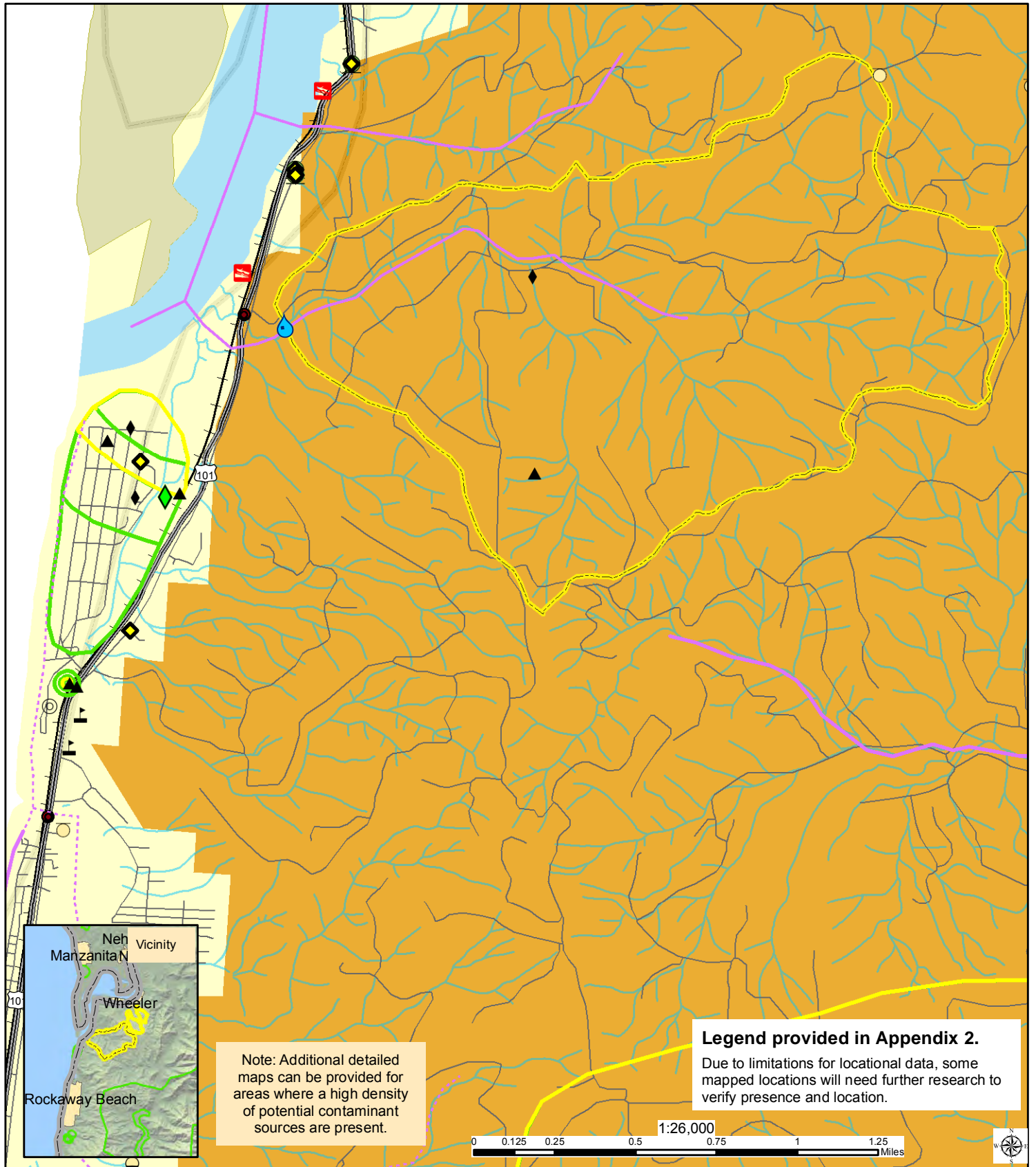
**Figure 3. Rockaway Water District (PWS 00708)
Drinking Water Source Area Landslide Hazards Map
(See Appendix 2 for Key to map details and metadata)**



The data set is published by DOGAMI 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: <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 PWS.



**Figure 4. Rockaway Beach Water District (PWS 00708)
Drinking Water Source Areas - Potential Anthropogenic Sources,
Transportation Corridors and Land Ownership/Use
(See Appendix 2 for Key to map details and metadata)**



Note: Additional detailed maps can be provided for areas where a high density of potential contaminant sources are present.

Legend provided in Appendix 2.
Due to limitations for locational data, some mapped locations will need further research to verify presence and location.



Table 1: Drinking Water Source Area Land Use and Susceptibility Analysis Summary

See Appendix 2 for Key to Tables and Notes

| | |
|---|--------------------------------------|
| Public Water System Name | Rockaway Beach Water District |
| PWS ID | 00708 |
| Drinking Water Source Name | Jetty Creek |
| County Served | Tillamook |
| Subbasin | Nehalem |
| Drinking Water Source Area (DWSA) Size ⁽¹⁾ | 2.05 sq.mi./1310.5 acres |
| Stream Miles in Drinking Water Source Area | 23.30 |
| Population (includes wholesale buyers) ⁽²⁾ | 2,600 |
| Number of Public Water Systems Served ⁽²⁾ | 1 |

| Land Use / Ownership ⁽³⁾ (also shown on figures) | Owner Type | Area (acres) | % of DWSA | Notes |
|---|--------------------------------|--------------|-----------|--------------------------------------|
| | Agricultural | 0 | 0% | Priv Ind. Forest by two land owners. |
| | Private Industrial Forest | 1,311 | 100% | |
| | Private (Rural/Non-industrial) | 0 | 0% | |
| | Local Government | 0 | 0% | |
| | State Forest | 0 | 0% | |
| | Other State Lands | 0 | 0% | |
| | Bureau of Land Management | 0 | 0% | |
| | US Forest Service (USFS) | 0 | 0% | |
| | Tribal | 0 | 0% | |
| Other (includes Water) | 0 | 0% | | |

| Potential Pollutants (see Table 2 for potential pollutants based on regulatory database search and Figures for approximate locations) | | | Notes |
|---|---|--|--------------------------|
| | Stream Miles in Erodible Soils ⁽⁴⁾ | 18.58 | see note 4 in Appendix 2 |
| | High Soil Erosion Potential Percent ⁽⁴⁾ (% stream mi w/ high erosion located w/in 300' of the stream) | 80% | see note 4 in Appendix 2 |
| | Shallow Landslide Potential | More details on shallow landslide susceptibility may be available. Contact DEQ Drinking Water Protection for additional information. | |
| Landslide Deposits ⁽⁵⁾ (DOGAMI - SLIDO 3.2) | landslide areas mapped near intake and in mid-watershed - see map and note | Includes earth and debris slides, flows, slumps, falls and complex landslide types. Does not include rock material landslide deposits. | |

| Water Quality Monitoring Data and Treatment Method | Treatment Process | Rapid sand & rapid mix | |
|---|---|--|---|
| | Safe Drinking Water Information System Results ⁽⁶⁾ | <u>MCL Violations⁽⁶⁾</u> | <u>Significant Detections (2005-2016)⁽⁶⁾</u> |
| | Regulated volatile organic chemicals, synthetic organic chemicals and inorganic compounds | none | Sodium (3 alerts, 2006-2011 from groundwater source only) |
| | Disinfection byproducts (Total Trihalomethanes (TTHM), Haloacetic acids (five) (HAA5), bromate, and chlorite) | Exceeded TTHM MCL at irregular intervals between 2005 and 2010. Violations of Chemical MCL (quarterly running-annual-average) for TTHM between January 2011 and July 2013. PWS submitted corrective action plan in 2012 and completed construction of enhanced treatment (pressurized sand filters) in 2014. | TTHM (16 alerts) & HAA5 (5 alerts) (2005-2013) |
| | Bacteria (Ecoli and TCR=Total Coliform Rule) | none | 3 TCR alerts (2005-2013) |
| DEQ/OHA Source Water Monitoring project test data ⁽⁷⁾ ND = All parameters not detected and NA = source water not analyzed | sulfometuron-methyl detected: POSIS and grab (2013) | | |
| Additional raw water quality monitoring data for the drinking water source may be available from other sources including USGS, DEQ's LASAR database, individual water providers, local partners (i.e. soil and water conservation districts or watershed councils) or local volunteer monitoring. | | | |



Table 2: Inventory of Potential Sources of Pollution
 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

PWS Name: Rockaway Beach Water District
PWS Number: 00708

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 limitations for locational data in state databases, some locations will need further research to verify presence and location.

| Primary Land Ownership/Use(s) | | | | | | | | Data Source |
|---|-------------------------|---|--------------------------|---------------------|----------------|----------------|---------------------------|--|
| Jetty Creek Watershed is all private industrial forestry land use | | | | | | | | Land use map - Figure 4 |
| Groundwater sources dominated by residential land use with occasional municipal and commercial properties. | | | | | | | | |
| Other potential sources of pollution identified based on aerial photographs, topographic maps or local knowledge. | | | | | | | | |
| Name | | Address/location | | City | County | Data Source | | |
| Sewer lines/septic systems through residential areas | | | | | | | | |
| Regulatory Database Results - State and Federal | | | | | | | | |
| Database Identifier (DB_ID) | Site Identifier (Staid) | Status | Common Name | Address | City | County | Retrieval Date (RET_DATE) | Data Source |
| Results for Jetty Creek Source | | | | | | | | |
| DWP - PCS - Borrow Pit | 10051 | C18 Type; P - Mining Activities - Gravel Mines/Gravel Pits | Borrow Pit | East of Intake | Rockaway | Tillamook | 2005 | OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005) |
| DWP - PCS - Clearcuts | 10050 | A11 Type; A - Managed Forest Land - Clearcut Harvest (< 35 yrs.) | Clearcuts | Southeast of Intake | Rockaway | Tillamook | 2005 | OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005) |
| Water Quality Limited streams, Cat4A & Cat5, DEQ-2012 - Jetty Creek | 1239334456590 | Cat 4A: Water quality limited, TMDL approved - Fecal Coliform | Jetty Creek | Not applicable | Not applicable | Not applicable | 10/31/2014 | OR Dept. of Environmental Quality Water Quality Assessment 2012 - (DEQ/WQ - 10/31/2014) |
| Water Quality Limited streams, Cat3 - Jetty Creek | 1239334456590 | Cat 3: Insufficient data - Turbidity | Jetty Creek | Not applicable | Not applicable | Not applicable | 10/31/2014 | OR Dept. of Environmental Quality Water Quality Assessment - (DEQ/WQ - 10/31/2014) |
| Results for Groundwater Source Areas | | | | | | | | |
| DWP - PCS - Aboveground Storage Tank | 17209 | M01 Type; P - Above Ground Storage Tanks - Excluding Water and Residential ASTs | Aboveground Storage Tank | White Dove Ave | Rockaway | Tillamook | 2005 | OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005) |
| DWP - PCS - High Density Housing | 17208 | R09 Type; A - Housing - High Density (> 1 House/0.5 acres) R16 Type; A - Septic Systems - High Density (> 1 system/acre) | High Density Housing | Throughout the DWPA | Rockaway | Tillamook | 2005 | OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005) |

| Database Identifier (DB_ID) | Site Identifier (Staid) | Status | Common Name | Address | City | County | Retrieval Date (RET_DATE) | Data Source |
|---|-------------------------|---|--------------------------------------|--------------------------------|----------------|----------------|---------------------------|--|
| DWP - PCS - Kittiwake | 17211 | M31 Type; P - Large Capacity Septic Systems (serves > 20 people) - Class V UICs | Kittiwake | Donald Street | Rockaway | Tillamook | 2005 | OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005) |
| DWP - PCS - Railroad | 17210 | M19 Type; A - Transportation - Railroads | Railroad | Runs through the DWPA | Rockaway | Tillamook | 2005 | OR Dept. of Environmental Quality and OR Health Authority Source Water Assessment database (DEQ/OHA SWA 2000 - 2005) |
| Highways - US-101 | 009 | Highway/Interstate | OREGON COAST | Not applicable | Not applicable | Not Applicable | 2008 | Integrated Transportation Information System (ITIS) database, Oregon Department of Transportation (ODOT - 2008) |
| Railway - Port of Tillamook Bay Railroad | 2029 | Railway | Port of Tillamook Bay Railroad | Unknown | Not applicable | Tillamook | 03/14/2016 | US Geological Survey Railway GIS layer (via OR-IRIS) (USGS/RR - 2009) |
| Road - Bureau of Land Management | 5606128 | Unknown | Bureau of Land Management | Not Applicable | Unknown | Tillamook | 2012 | |
| Road - Oregon Department of Transportation | 7667302 | Unknown | Oregon Department of Transportation | Not Applicable | Unknown | Tillamook | 2012 | |
| Road - Rockaway Beach Public Works, City of | 7096035 | Unknown | Rockaway Beach Public Works, City of | Not Applicable | Unknown | Tillamook | 2012 | |
| Road - Tillamook County | 7095918 | Unknown | Tillamook County | Not Applicable | Unknown | Tillamook | 2012 | |
| SFM - HSIS - ROCKAWAY BEACH CITY OF | 085185 | OTHER GENERAL GOV SUPPORT with 1 different chemicals reported on site (liquids and solids only) | ROCKAWAY BEACH CITY OF | 26757 WHITE DOVE AVE | ROCKAWAY BEACH | TILLAMOOK | 09/29/2008 | OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009) |
| SFM - HSIS - TATA COMMUNICATIONS | 098608 | WIRED TELECOMMUNICATIONS CARRIERS with 1 different chemicals reported on site (liquids and solids only) | TATA COMMUNICATIONS | 25589 HWY 101 | ROCKAWAY BEACH | TILLAMOOK | 09/29/2008 | OR State Fire Marshall Hazardous Substance Information System database (SFM/HSIS - 2009) |
| WQ SIS - NEDONNA WAVE PUD | 117105 | GEN12C - STORMWATER | NEDONNA WAVE PUD | KITTIWAKE DRIVE & RILEY STREET | ROCKAWAY BEACH | TILLAMOOK | 01/25/2016 | OR Dept. of Environmental Quality Water Quality SIS database (DEQ/WQ SIS - 2016) |