

**WA Department of Ecology
Water Quality Issues in the Dungeness Watersheds**

Public Information

Water Cleanup Plan for Bacteria in the Lower Dungeness Watershed Total Maximum Daily Load (TMDL) Submittal Report, June 2002 (Publication #02-10-015):
<http://www.ecy.wa.gov/pubs/0210015.pdf>

Dungeness Bay Fecal Coliform Bacteria Total Maximum Daily Load Study, March 2004,
(Publication #04-03-012): <http://www.ecy.wa.gov/pubs/0403012.pdf>

Water Cleanup Plan for Bacteria in Dungeness Bay Total Maximum Daily Load (TMDL) Submittal Report, March 2004 (Publication #04-10-026): <http://www.ecy.wa.gov/pubs/0410026.pdf>

Clean Water Strategy for Addressing Bacteria Pollution in Dungeness Bay and Watershed and Water Cleanup Detailed Implementation Plan, October 2004 (Publication #04-10-059):
<http://www.ecy.wa.gov/pubs/0410059.pdf>

Dungeness Bay and Dungeness River Watershed Fecal Coliform Bacteria Total Maximum Daily Load Water Quality Effectiveness Monitoring Report, May 2010 (Publication #10-03-032):
<http://www.ecy.wa.gov/pubs/1003032.pdf>

Section 313 Nonpoint Source Program Success Story, Washington and Jamestown S'Klallam Tribe, Dungeness River Tributary Achieves Bacteria Target Levels at Several Monitoring Sites, EPA 841-F-05-004Z, October 2005:
http://water.epa.gov/polwaste/nps/success319/upload/2005_10_19_NPS_Success319_state_wa_dung.pdf

Environment Education Guide, Protecting Washington's waters from stormwater pollution, (Publication #07-10-058): <http://www.ecy.wa.gov/pubs/0710058.pdf>

Water Cleanup Plans, Total Maximum Daily Loads (TMDLs), September 2002 (Publication #02-10-038): <http://www.ecy.wa.gov/pubs/0210038.pdf>

Water Quality Improvement Projects also known as Total Maximum Daily Loads (TMDLs), What should I know? What does it mean to me? (Publication #05-10-100):
<http://www.ecy.wa.gov/pubs/0510100.pdf>

Focus on Pet Waste Management, June 2003 (Publication #03-10-053):
<http://www.ecy.wa.gov/pubs/0310053.pdf>

Focus on Fecal Coliform Bacteria, December 2005 (Publication #02-10-010):
<http://www.ecy.wa.gov/pubs/0210010.pdf>

Focus on Water Cleanup Plans, Total Maximum Daily Loads (TMDLs), February 2003 (Publication #03-10-010): <http://www.ecy.wa.gov/pubs/0310010.pdf>

Focus on Clean Water, Getting to Clean Water, April 2010 (Publication #10-10-079):
<http://www.ecy.wa.gov/pubs/1010079.pdf>

Environment Education Guide, Working for Washington's future: Healthy Watersheds, Healthy People, (Publication #08-01-018): <http://www.ecy.wa.gov/pubs/0801018.pdf>

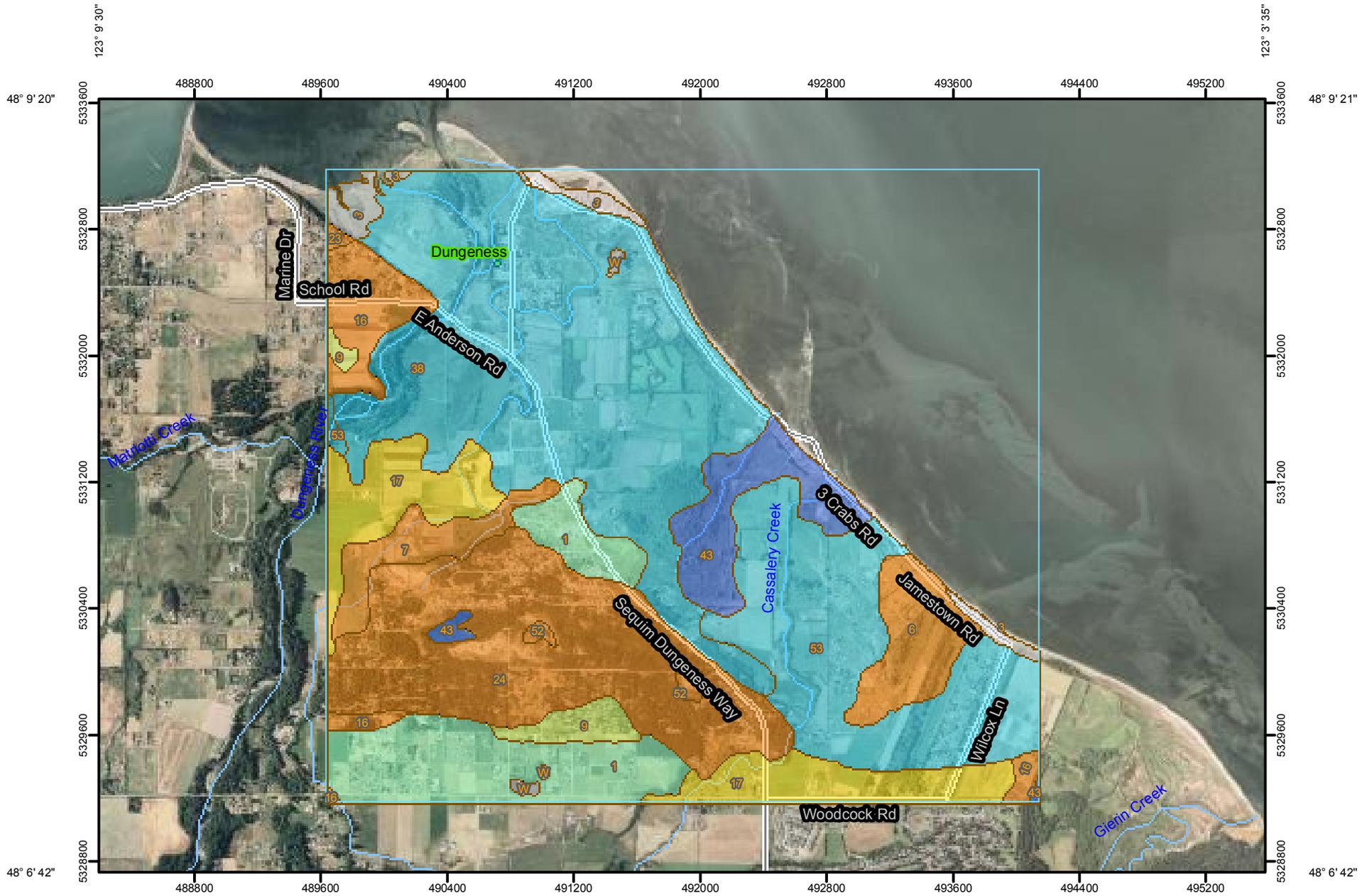
Natural Yard Care, December 2008 (Publication #08-07-064):
<http://www.ecy.wa.gov/pubs/0807064.pdf>

Video - Protecting Washington State's Waters, (Publication #06-10-027):
<http://www.ecy.wa.gov/biblio/0610027.html>

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Drainage Class—Clallam County Area, Washington
(Soils in Dungeness Project Area)



Map Scale: 1:35,000 if printed on A size (8.5" x 11") sheet.



Drainage Class—Clallam County Area, Washington
(Soils in Dungeness Project Area)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Units

Soil Ratings

-  Excessively drained
-  Somewhat excessively drained
-  Well drained
-  Moderately well drained
-  Somewhat poorly drained
-  Poorly drained
-  Very poorly drained
-  Subaqueous
-  Not rated or not available

Political Features

 Cities

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads

MAP INFORMATION

Map Scale: 1:35,000 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: UTM Zone 10N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Clallam County Area, Washington
Survey Area Data: Version 8, Jul 2, 2012

Date(s) aerial images were photographed: 6/25/2006

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Drainage Class

Drainage Class— Summary by Map Unit — Clallam County Area, Washington (WA609)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
1	Agnew silt loam, 0 to 8 percent slopes	Somewhat poorly drained	302.9	6.8%
3	Beaches		55.0	1.2%
6	Carlsborg gravelly sandy loam, 0 to 5 percent slopes	Somewhat excessively drained	117.5	2.6%
7	Carlsborg-Dungeness complex, 0 to 5 percent slopes	Somewhat excessively drained	85.2	1.9%
9	Cassolary fine sandy loam, 0 to 8 percent slopes	Moderately well drained	47.0	1.1%
16	Dick loamy sand, 0 to 15 percent slopes	Somewhat excessively drained	118.2	2.6%
17	Dungeness silt loam	Well drained	264.9	5.9%
23	Hoypus gravelly sandy loam, 0 to 15 percent slopes	Somewhat excessively drained	4.0	0.1%
24	Hoypus gravelly sandy loam, 15 to 30 percent slopes	Somewhat excessively drained	568.5	12.7%
38	Lummi silt loam	Poorly drained	1,027.2	23.0%
43	Mukilteo muck	Very poorly drained	150.0	3.4%
52	Pits	Somewhat excessively drained	12.0	0.3%
53	Puget silt loam	Poorly drained	471.7	10.6%
W	Water		6.9	0.2%
Subtotals for Soil Survey Area			3,231.1	72.4%
Totals for Area of Interest			4,462.0	100.0%

Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized—excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher