

# 2010 Water Quality Assessment

## MARINE WATER

Presented by Mike Herold



# What is it?

- **The Clean Water Act requires that states submit a status of their waters (called the 305(b) Report), as well as a list of Polluted Waters (the 303(d) list). This Assessment is an “Integrated Report” that meets these two requirements.**



# How does Ecology put the Assessment together?

1. We develop policies to help determine when a water is chronically polluted or showing signs of pollution
  2. We compile all credible water quality data we can, from many different groups
  3. We assess the data by comparing it to state water quality criteria to see if we have problems.
  4. We report the results to EPA, including a category of waters that is the 303(d) List.
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# What are the Categories?

- Category 1: Meets tested standards-- Waters in this category are clean for the criteria they were tested for.
- Category 2: Waters of concern--Some evidence of a water quality problem, but not enough to require a TMDL or clean-up plan.
- Category 3: Insufficient or no data



# Categories (con't)

- Category 4
  - 4A TMDL has been completed to address listing
  - 4B another pollution control program has been developed & implemented to address listing of water body
  - 4C non pollutant listings (habitat impairments)
- Category 5 – water grid is impaired; this category is the 303(d) list



# What were the Marine Water Results?

- 2004
  - Category 5 208 marine water grids
  - Category 4A 14 marine water grids
- 2008
  - Category 5 277 marine water grids
  - Category 4A 37 marine water grids
- 2010 draft
  - Category 5 565 marine water grids
  - Category 4A 40 marine water grids



# What were the Marine Water Results?

- 2010 draft
  - **Category 5**                    **565 marine water grids**
  - *Toxics*                            *270 marine water grids*
  - *Dissolved Oxygen* *141 marine water grids*
  - *Bacteria*                            *154 marine water grids*
  - **Category 4A**                    **40 marine water grids**
  - **Category 2**                    **1025 marine water grids**
  - **Category 1**                    **2782 marine water grids**



# King County Category 5 Listings

Search Results - Windows Internet Explorer

Search Results

ECOLOGY  
State of Washington

Search Results

Export As

**Search Results: 123 Matches**

Listing Link	Proposed Category	WRIA	Waterbody Name	Parameter	Medium	Map Link
<a href="#">63103</a>	5	15	DALCO PASSAGE AND EAST PASSAGE	PCB	Tissue	<a href="#">63103</a>
<a href="#">63110</a>	5	9	PUGET SOUND (CENTRAL)	Benz[a]anthracene	Tissue	<a href="#">63110</a>
<a href="#">63111</a>	5	9	PUGET SOUND (CENTRAL)	Benzo[a]pyrene	Tissue	<a href="#">63111</a>
<a href="#">63112</a>	5	9	PUGET SOUND (CENTRAL)	Benzo[b]fluoranthene	Tissue	<a href="#">63112</a>
<a href="#">63113</a>	5	9	PUGET SOUND (CENTRAL)	Benzo[k]fluoranthene	Tissue	<a href="#">63113</a>
<a href="#">63114</a>	5	9	PUGET SOUND (CENTRAL)	Chrysene	Tissue	<a href="#">63114</a>
<a href="#">63123</a>	5	9	PUGET SOUND (CENTRAL)	Indeno(1,2,3-cd)pyrene	Tissue	<a href="#">63123</a>
<a href="#">63129</a>	5	9	PUGET SOUND (CENTRAL)	PCB	Tissue	<a href="#">63129</a>
<a href="#">63162</a>	5	8	PUGET SOUND (CENTRAL)	Benz[a]anthracene	Tissue	<a href="#">63162</a>
<a href="#">63163</a>	5	8	PUGET SOUND (CENTRAL)	Benzo[a]pyrene	Tissue	<a href="#">63163</a>
<a href="#">63164</a>	5	8	PUGET SOUND (CENTRAL)	Benzo[b]fluoranthene	Tissue	<a href="#">63164</a>
<a href="#">63165</a>	5	8	PUGET SOUND (CENTRAL)	Benzo[k]fluoranthene	Tissue	<a href="#">63165</a>
<a href="#">63166</a>	5	8	PUGET SOUND (CENTRAL)	Chrysene	Tissue	<a href="#">63166</a>
<a href="#">63167</a>	5	8	PUGET SOUND (CENTRAL)	Dibenzo[a,h]anthracene	Tissue	<a href="#">63167</a>
<a href="#">63175</a>	5	8	PUGET SOUND (CENTRAL)	Indeno(1,2,3-cd)pyrene	Tissue	<a href="#">63175</a>

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#)

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# Export as Excel from Query Tool

The screenshot shows a Microsoft Excel spreadsheet with the following data:

Listing ID	Category	WRIA	Waterbody Name	Parameter	Medium	Map Link
10135	5	6	SARATOGA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
10222	5	15	BALCH AND CORMORANT PASSAGES	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
10241	5	15	HENDERSON BAY	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
10296	5	17	SEQUIM BAY	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
42985	5	15	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
42986	5	14	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
42987	5	15	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
42988	5	15	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
42989	5	15	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
42990	5	15	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
42993	5	15	NISQUALLY REACH/DRAYTON PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
42994	5	15	NISQUALLY REACH/DRAYTON PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
42995	5	13	NISQUALLY REACH/DRAYTON PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
42998	5	15	BALCH AND CORMORANT PASSAGES	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
43004	5	15	HENDERSON BAY	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
43006	5	15	BALCH AND CORMORANT PASSAGES	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
43007	5	15	TACOMA NARROWS	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
43008	5	15	TACOMA NARROWS	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
43009	5	15	COLVOS PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
43020	5	14	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
43022	5	14	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
49038	5	15	HOOD CANAL (SOUTH)	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
52998	5	15	PUGET SOUND (S-CENTRAL) AND EAST PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
66075	5	15	CARR INLET	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
66082	5	14	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
66084	5	14	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>
66085	5	14	CASE INLET AND DANA PASSAGE	Dissolved Oxygen	Water	<a href="#">GIS Map</a>

# A New Listing for Toxics

Water Quality Assessment for Washington - Windows Internet Explorer

WASHINGTON STATE Department of Ecology

## DRAFT Water Quality Assessment for Washington DRAFT

WQA Home Query Form Contact Us Search Results

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Map Layers Map Zoom

**Map Layers**

- Assessed Waters
  - Category 5 Waters
  - Category 4C Waters
  - Category 4B Waters
  - Category 4A Waters
  - Category 2 Waters
  - Category 1 Waters
- Assessed Sediments
  - Category 5 Sediments
  - Category 4C Sediments
  - Category 4B Sediments
  - Category 4A Sediments
  - Category 2 Sediments
  - Category 1 Sediments

Map created by the WA State Department of Ecology

### Category 5: Polluted Waters/303(d) List

Rec	Listing ID	Name	Parameter	Medium	Waterbody ID
1	64579	STRAIT OF JUAN DE FUCA (CENTRAL)	2,3,7,8-TCDD	Tissue	48123B3C8
2	64582	STRAIT OF JUAN DE FUCA (CENTRAL)	4,4'-DDT	Tissue	48123B3C8
3	64583	STRAIT OF JUAN DE FUCA (CENTRAL)	Alpha-BHC	Tissue	48123B3C8

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# A New Listing for Mercury

Water Quality Assessment for Washington - Windows Internet Explorer

WASHINGTON STATE Department of Ecology

## DRAFT Water Quality Assessment for Washington DRAFT

WQA Home Query Form Contact Us Search Results

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- Assessed Sediments
  - Category 5 Sediments
  - Category 4C Sediments
  - Category 4B Sediments
  - Category 4A Sediments
  - Category 2 Sediments
  - Category 1 Sediments

Map created by the WA State Department of Ecology

### Category 5: Polluted Waters/303(d) List

Rec	Listing ID	Name	Parameter	Medium	Waterbody ID
1	63837	STRAIT OF JUAN DE FUCA (WEST)	Mercury	Tissue	48124C3J2

County

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# Marine - Bacteria



# Marine - Toxics



# Marine – Dissolved Oxygen



# Results

- More overall toxics and sediment listings
- Delaying some dissolved oxygen final calls until Puget Sound model is available
- Overall improvements from direct involvement by Ecology technical staff in the assessment



# What's Next?

- Release draft for 60 day public review, mid June
- Conduct public workshops, July
- Release response to comments and candidate list to EPA, October 2011



# Then What?

- 2012 Assessment will focus on fresh water data
- Call for data June 2011, Data input workshops, July
- New freshwater segment system using hydrographic basis



**Any Questions?**

*Thank you!*

