

**WASHINGTON STATE DEPARTMENT OF HEALTH
OFFICE OF SHELLFISH AND WATER PROTECTION**

ANNUAL GROWING AREA REVIEW

PREPARED BY: Lawrence Sullivan, Public Health Advisor

AREA: Portage Bay

YEAR ENDING: December 31, 2010

CLASSIFICATION: Approved, Prohibited

ACTIVITIES IN THE GROWING AREA IN 2010:

Samples were collected from the area six times during 2010 using the Systematic Random Sampling method. The growing area was closed for five days due to flooding in the Nooksack River.

ANALYTICAL RESULTS OF WATER SAMPLES:

Table 1 summarizes the results of the most recent 30 water samples collected from the area. This summary shows that all Approved stations pass the NSSP water quality standard. Stations 49, 50, 51, and 272 are of concern due to elevated bacteria levels.

CHANGE IN ACTUAL POLLUTION SOURCES THAT IMPACT THE GROWING AREA:

We currently have no information indicating that the area has new sources of pollution.

CLASSIFICATION STATUS:

- Well within the classification standards
- Meets standards but some concerns
- Meets standards but threatened with a downgrade in classification
- Fails to meet classification standards

REMARKS AND RECOMMENDATIONS:

The following 303d listed surface water bodies have the potential to influence water quality in Portage Bay: the Nooksack River and its associated tributaries including Bertrand Creek, Double Ditch Drain, Duffner Ditch, Fishtrap Creek, Kamm Slough, and Tennant Creek.

TABLE 1

SUMMARY OF MARINE WATER DATA (SRS)

Growing Area: **PORTAGE BAY**

Classification: **Approved, Prohibited**

From **12/07/2005** To **11/16/2010**

FECAL COLIFORM ORGANISMS/100 ML

Station Number	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
49	Approved	31	1.7 - 49.0	4.6	20.0	Yes
50	Approved	31	1.7 - 46.0	4.4	21.0	Yes
51	Approved	31	1.7 - 79.0	4.4	22.0	Yes
52	Approved	31	1.7 - 79.0	3.6	14.0	Yes
53	Approved	31	1.7 - 49.0	3.4	11.0	Yes
54	Approved	31	1.7 - 170.0	3.3	12.0	Yes
55	Approved	31	1.7 - 33.0	4.0	17.0	Yes
57	Approved	31	1.7 - 240.0	3.9	19.0	Yes
58	Approved	31	1.7 - 49.0	3.2	12.0	Yes
271	Approved	30	1.7 - 49.0	4.3	17.0	Yes
272	Approved	31	1.7 - 79.0	5.4	28.0	Yes
48	Prohibited	30	1.7 - 17.0	3.1	10.0	Yes

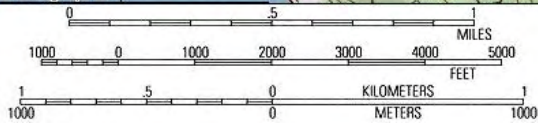
All tides information is presented

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

† All samples have been verified.



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