

**Washington State Department of Health
Office of Shellfish and Water Protection**

Annual Growing Area Review

PREPARED BY: Tim Determan
AREA: Vaughn Bay
YEAR ENDING: December 31, 2011
CLASSIFICATION: Approved, Prohibited

ACTIVITIES IN THE GROWING AREA IN 2011:

Samples were collected from each station in the growing area 12 times during the year using the Systematic Random Sampling method. On November 23, WDOH closed the area to shellfish harvest for six days due to extreme rainfall (3.27 inches in 24 hours) measured at the Minter Creek Hatchery. Fifty acres of the eastern portion of the growing area was upgraded from Prohibited to Approved based on improved water quality and pollution source corrections.

ANALYTICAL RESULTS OF WATER SAMPLES:

Table 1 summarizes the results of all samples collected from the area. All stations in the Approved area met the NSSP water quality standard. Station 611 has an estimated 90th percentile of 24 FC/100 ml and is listed as “Concerned”.

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:

- Approved area is 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:

Table 1 shows that all stations in the Approved area meet the NSSP water quality standards for an Approved classification. One station (station 609) in the Prohibited area does not. The area is correctly classified.

TABLE 1

SUMMARY OF MARINE WATER DATA (SRS)

Growing Area: VAUGHN BAY

Classification: **Approved, Prohibited**

From 10/16/2007 To 12/01/2011

FECAL COLIFORM ORGANISMS/100 ML

Station Number	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
35	Approved	30	1.7 - 4.0	1.8	2.0	Yes
607	Approved	30	1.7 - 13.0	2.1	4.0	Yes
608	Approved	30	1.7 - 31.0	4.4	14.0	Yes
611	Approved	30	1.7 - 110.0	4.6	24.0	Yes
612	Approved	30	1.7 - 23.0	2.4	5.0	Yes
613	Approved	30	1.7 - 79.0	3.1	10.0	Yes
633	Approved	30	1.7 - 33.0	3.3	9.0	Yes
650	Approved	30	1.7 - 46.0	3.1	9.0	Yes
745	Approved	38	1.7 - 49.0	4.3	16.0	Yes
609	Prohibited	30	2.0 - 540.0	16.8	136.0	No
610	Prohibited	30	1.7 - 240.0	5.4	30.0	Yes

All tides information is presented

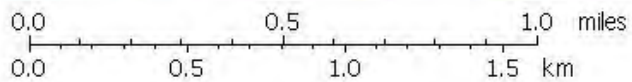
The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

FIGURE 1

Vaughn Bay 05/02/11



Map created with TOPOIC ©2006 National Geographic



TN / MN
17½
05/02/11