

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

**ANNUAL GROWING AREA REVIEW**

**PREPARED BY:** Lawrence Sullivan, Public Health Advisor

**AREA:** Quartermaster Harbor

**YEAR ENDING:** December 31, 2008

**CLASSIFICATION:** Approved, Prohibited

**ACTIVITIES IN THE GROWING AREA IN 2008:**

Samples were collected from the growing area six times during the year using the systematic random sampling method.

**ANALYTICAL RESULTS OF WATER SAMPLES:**

Table #1 summarizes the results of all samples collected from the area. This summary shows that all stations in the area pass the NSSP water quality standard.

**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:**

Table #1 shows that all stations in the Approved area meet the NSSP water quality standards for approved classification and the area is correctly classified. Stations #365, #366, #367, and #368 are all classified as "approved" for the off-shore harvest of geoducks. Station #368 easily passes the "approved" water quality standard and supports the "approved" classification of the off-shore harvest area. The "prohibited" area surrounding station #368 was established to evaluate intertidal harvest because the shoreline survey conducted by DOH in 2003 identified "a potential gray water discharge and elevated fecal coliform levels in two shoreline discharges." Dilution calculations indicated that these discharges would not impact the off-shore subtidal geoduck harvest areas.

## TABLE 1

### SUMMARY OF MARINE WATER DATA (SRS)

Growing Area: QUARTERMASTER HARBOR

Classification: **Approved,Unclassified,Prohibited**

From 12/09/2003 To 10/29/2008

### FECAL COLIFORM ORGANISMS/100 ML

Station Number	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
361	Approved	31	1.7 - 11.0	2.2	5.0	Yes
362	Approved	31	1.7 - 33.0	2.5	7.0	Yes
364	Approved	31	1.7 - 23.0	2.0	4.0	Yes
365	Approved	30	1.7 - 23.0	2.4	6.0	Yes
366	Approved	30	1.7 - 13.0	1.9	3.0	Yes
367	Approved	30	1.7 - 17.0	1.9	3.0	Yes
368	Approved	30	1.7 - 17.0	2.2	4.0	Yes
369	Approved	31	1.7 - 7.8	1.9	3.0	Yes
373	Approved	31	1.7 - 33.0	2.4	7.0	Yes
363	Unclassified	31	1.7 - 11.0	2.2	4.0	Yes
371	Prohibited	31	1.7 - 49.0	3.0	10.0	Yes
372	Prohibited	31	1.7 - 13.0	2.0	3.0	Yes
630	Prohibited	33	1.7 - 14.0	2.0	3.0	Yes
631	Prohibited	32	1.7 - 33.0	2.2	5.0	Yes
632	Prohibited	33	1.7 - 33.0	2.5	6.0	Yes
688	Prohibited	24	1.7 - 240.0	3.5	23.0	*N/A
689	Prohibited	24	1.7 - 33.0	2.2	5.0	*N/A
690	Prohibited	24	1.7 - 7.8	2.4	5.0	*N/A
691	Prohibited	24	1.7 - 79.0	3.1	10.0	*N/A
692	Prohibited	24	1.7 - 49.0	2.9	10.0	*N/A
693	Prohibited	24	1.7 - 79.0	2.6	8.0	*N/A

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.

\* N/A - SRS criteria require a minimum of 30 samples from each station. \*

