

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

## Annual Growing Area Review

**PREPARED BY:** Clyde Bill  
**AREA:** Saratoga Passage  
**YEAR ENDING:** December 31, 2011  
**CLASSIFICATION:** Approved, Prohibited and Unclassified

### Activities in the Growing Area in 2011

Saratoga Passage was sampled six times using the Systematic Random Sampling method.

### Analytical Results of Water Samples

Table 1 summarizes the 30 most recent water samples collected from the Saratoga Passage growing area. This summary shows that all stations in the Saratoga Passage growing area pass the NSSP water quality standard. Stations 33, 359 & 360 were added recently and do not have the 30 samples to date, but are well within water quality standards.

### Change in Actual Pollution Sources that Impact the Growing Area

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

### Classification Status

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

### Remarks and Recommendations

Table 1 show that all stations in the Saratoga Passage growing area meet NSSP water quality standards for an Approved classification and that it is correctly classified.

TABLE 1

**SUMMARY OF MARINE WATER DATA (SRS)**Growing Area: **SARATOGA PASS**Classification: **Unclassified, Approved, Prohibited**From **06/19/2006** To **12/05/2011****FECAL COLIFORM ORGANISMS/100 ML**

<b>Station Number</b>	<b>Classification</b>	<b>Number of Samples</b>	<b>Range</b>	<b>Geometric Mean</b>	<b>Est. 90th Percentile</b>	<b>Meets Std.</b>
161	Unclassified	30	1.7 - 33.0	2.4	6.0	Yes
162	Unclassified	30	1.7 - 46.0	2.4	6.0	Yes
132	Approved	32	1.7 - 17.0	2.4	5.0	Yes
133	Approved	31	1.7 - 49.0	2.3	6.0	Yes
134	Approved	32	1.7 - 23.0	2.0	4.0	Yes
135	Approved	31	1.7 - 13.0	2.1	4.0	Yes
137	Approved	32	1.7 - 13.0	1.9	3.0	Yes
139	Approved	31	1.7 - 11.0	1.8	2.0	Yes
140	Approved	32	1.7 - 7.8	1.8	2.0	Yes
141	Approved	32	1.7 - 4.5	1.8	2.0	Yes
147	Approved	31	1.7 - 7.8	1.8	2.0	Yes
148	Approved	31	1.7 - 7.8	1.9	3.0	Yes
149	Approved	31	1.7 - 2.0	1.7	1.0	Yes
150	Approved	31	1.7 - 11.0	2.3	4.0	Yes
151	Approved	30	1.7 - 2.0	1.7	1.0	Yes
152	Approved	30	1.7 - 4.5	1.7	2.0	Yes
153	Approved	30	1.7 - 7.8	1.8	2.0	Yes
154	Approved	30	1.7 - 6.8	1.9	3.0	Yes
156	Approved	31	1.7 - 4.5	1.7	2.0	Yes
157	Approved	31	1.7 - 2.0	1.7	1.0	Yes
158	Approved	32	1.7 - 4.5	1.8	2.0	Yes
159	Approved	33	1.7 - 2.0	1.7	1.0	Yes
160	Approved	33	1.7 - 4.5	1.9	2.0	Yes
241	Approved	31	1.7 - 23.0	2.4	6.0	Yes
274	Approved	31	1.7 - 240.0	2.6	10.0	Yes
275	Approved	31	1.7 - 7.8	1.9	3.0	Yes
276	Approved	31	1.7 - 4.5	1.7	2.0	Yes
277	Approved	31	1.7 - 4.5	1.7	2.0	Yes
289	Approved	32	1.7 - 4.0	1.7	2.0	Yes
359	Approved	5	1.7 - 4.0	2.0	3.0	*N/A

TABLE 1 (Continued)

<b>Station Number</b>	<b>Classification</b>	<b>Number of Samples</b>	<b>Range</b>	<b>Geometric Mean</b>	<b>Est. 90th Percentile</b>	<b>Meets Std.</b>
360	Approved	5	1.7 - 2.0	1.7	1.0	*N/A
242	Prohibited	30	1.7 - 23.0	2.6	8.0	Yes
330	Prohibited	19	1.7 - 23.0	2.2	5.0	*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. \*



