

# Port Susan

## Annual Shellfish Growing Area Review



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Area: Port Susan

Year Ending: December 31, 2023

Classification: Approved, Prohibited

### Activities in the Growing Area in 2023

Stations 345 and 346 in the Active portion of Port Susan were sampled six times and Inactive portion of the growing area were sampled two times in accordance with National Shellfish Sanitation Program (NSSP) Systematic Random Sampling criteria. Station 344 in the Active portion was only sampled five times due to a missing sample bottle during March. The growing area except the Triangle Cove portion (stations 344, 345, and 346) entered Inactive status on January 1, 2022.

Snohomish County and local partners continued working in the Stillaguamish River watershed using National Estuary Program grant funds for on-site sewage system replacements and operation and maintenance incentives and pollution identification and control activities.

### Analytical Results of Water Samples

Table 1 summarizes results of the 30 most recent samples collected from each station. Stations 298, 291, and 335 in the Prohibited portion of the growing area now meet the NSSP standard for Approved classification. Stations 292 and 296 are in Threatened status with respective estimated 90<sup>th</sup> percentiles of 32.4 FC/100mL and 27.9 FC/100mL. Table 2 includes individual sample results for station 292 and 296.

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

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

### Classification Status

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

### Remarks and Recommendations

Table 1 shows that all stations in the Approved areas meet the NSSP water quality standard. Due to stations 298, 291, and 335 in the Prohibited area meeting the NSSP standard for Approved, the classification should be re-evaluated. The Department should continue to work with Snohomish County and others to identify and correct sources of pollution in the Stillaguamish River watershed.

**TABLE 1. Summary of Marine Water Data (SRS) for the Port Susan Growing Area**

Sampling Event Type: Regulatory

Maximum Number of Samples: 30

Tides Included: All

Station Number	Classification	Date Range	Range (FC/100mL)	Geomean (FC/100mL)	Est. 90 <sup>th</sup> Percentile (FC/100mL)	Meets Standard
292	Approved	8/15/2017 - 11/6/2023	1.7 - 140.0	5.4	32.4	Y
293	Approved	9/8/2016 - 11/6/2023	1.7 - 130.0	4.7	23.9	Y
294	Approved	7/7/2016 - 11/6/2023	1.7 - 170.0	4.0	21.0	Y
296	Approved	9/8/2016 - 11/6/2023	1.7 - 79.0	5.4	27.9	Y
344	Approved	7/8/2019 - 12/7/2023	1.7 - 79.0	4.4	20.6	Y
345	Approved	8/7/2019 - 12/7/2023	1.7 - 70.0	3.4	12.5	Y
346	Approved	8/7/2019 - 12/7/2023	1.7 - 49.0	3.9	16.0	Y
290	Prohibited	9/8/2016 - 11/6/2023	1.7 - 540.0	6.7	43.2	N
291	Prohibited	8/15/2017 - 11/6/2023	1.7 - 240.0	5.0	34.0	Y
295	Prohibited	8/15/2017 - 11/6/2023	1.7 - 350.0	9.1	83.2	N
297	Prohibited	8/15/2017 - 11/6/2023	1.7 - 350.0	7.4	66.7	N
298	Prohibited	8/15/2017 - 11/6/2023	1.7 - 130.0	5.4	27.9	Y
299	Prohibited	10/12/2017 - 11/6/2023	1.7 - 170.0	6.8	43.8	N
335	Prohibited	12/5/2016 - 11/6/2023	1.7 - 350.0	6.3	40.5	Y
357	Unclassified	2/8/2018 - 12/7/2023	1.7 - 130.0	3.7	17.3	Y
411	Unclassified	7/7/2016 - 10/17/2022	1.7 - 70.0	4.1	19.6	Y

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

**TABLE 2. Marine Water Quality Summary of the Threatened Stations in Port Susan**

Station: 292

Classification: Approved

Method: SRS

<b>Total Samples: 30</b> <b>Range (FC/100 mL): 1.7 – 140.0</b> <b>GeoMean (FC/100 mL): 5.4</b>				<b>Date Range: 8/15/2017 – 11/6/2023</b> <b>E90th (FC/100 mL): 32.4</b> <b>Meets Standard: Y</b>		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
08/15/2017	Regulatory	11:26	Flood	17	26	1.7
10/12/2017	Regulatory	12:39	Ebb	12	27	1.7
12/13/2017	Regulatory	12:08	Flood	4	13	140.0
02/08/2018	Regulatory	11:10	Flood	7	0	7.8
08/15/2018	Regulatory	08:44	Flood	16	28	1.7
09/17/2018	Regulatory	12:25	Flood	16	10	22.0
10/15/2018	Regulatory	11:08	Flood	12	29	1.7
12/12/2018	Regulatory	10:13	Ebb	6	3	79.0
02/28/2019	Regulatory	11:18	Flood	6	24	1.7
06/06/2019	Regulatory	07:21	Ebb	14	25	4.5
07/08/2019	Regulatory	10:53	Ebb	18	25	1.7
09/04/2019	Regulatory	10:06	Flood	15	31	1.7
10/23/2019	Regulatory	12:28	Flood	11	1	70.0
11/04/2019	Regulatory	10:59	Flood	9	22	2.0
12/04/2019	Regulatory	11:04	Flood	9	20	1.7
01/09/2020	Regulatory	12:40	Flood	5	1	4.5
03/04/2020	Regulatory	11:24	Flood	6	2	13.0
08/24/2020	Regulatory	10:12	Flood	16	29	2.0
10/21/2020	Regulatory	10:36	Ebb	12	21	6.8
12/08/2020	Regulatory	13:01	Ebb	8	18	2.0
01/20/2021	Regulatory	11:28	Ebb	6	4	33.0
02/08/2021	Regulatory	12:26	Flood	5	1	4.5
03/23/2021	Regulatory	11:26	Flood	8	6	7.8
08/26/2021	Regulatory	08:13	Flood	17	30	1.7
09/28/2021	Regulatory	12:10	Flood	13	11	49.0
12/07/2021	Regulatory	10:57	Ebb	7	9	4.5
03/24/2022	Regulatory	11:19	Ebb	7	3	2.0
10/17/2022	Regulatory	13:17	Ebb	13	29	1.7
10/05/2023	Regulatory	12:26	Ebb	14	29	1.7
11/06/2023	Regulatory	12:40	Flood	11	11	27.0

**TABLE 2. Continued**

Station: 296

Classification: Approved

Method: SRS

<b>Total Samples: 30</b> <b>Range (FC/100 mL): 1.7 – 79.0</b> <b>GeoMean (FC/100 mL): 5.4</b>				<b>Date Range: 9/8/2016 – 11/6/2023</b> <b>E90th (FC/100 mL): 27.9</b> <b>Meets Standard: Y</b>		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
09/08/2016	Regulatory	11:48	Ebb	17	24	2.0
11/07/2016	Regulatory	13:34	Ebb	11	3	33.0
12/05/2016	Regulatory	10:23	Ebb	6	10	33.0
10/12/2017	Regulatory	12:22	Flood	12	26	1.7
12/13/2017	Regulatory	11:11	Flood	6	19	7.8
02/08/2018	Regulatory	11:28	Ebb	7	0	17.0
08/15/2018	Regulatory	09:00	Ebb	17	27	1.8
09/17/2018	Regulatory	12:44	Flood	17	22	1.7
02/28/2019	Regulatory	11:11	Flood	6	25	23.0
06/06/2019	Regulatory	07:16	Ebb	14	21	7.8
07/08/2019	Regulatory	10:47	Ebb	18	25	1.7
09/04/2019	Regulatory	10:17	Flood	18	30	1.7
10/23/2019	Regulatory	12:36	Flood	12	2	43.0
11/04/2019	Regulatory	11:09	Flood	10	22	1.7
12/04/2019	Regulatory	11:34	Flood	9	20	1.7
01/09/2020	Regulatory	12:29	Flood	5	1	17.0
03/04/2020	Regulatory	11:19	Flood	7	7	13.0
08/24/2020	Regulatory	10:07	Flood	17	28	1.7
10/21/2020	Regulatory	10:46	Ebb	12	21	1.7
12/08/2020	Regulatory	12:48	Ebb	8	8	23.0
01/20/2021	Regulatory	11:23	Ebb	6	7	4.5
02/08/2021	Regulatory	12:20	Flood	5	1	2.0
08/26/2021	Regulatory	08:00	Flood	17	29	2.0
09/28/2021	Regulatory	11:52	Flood	13	19	79.0
10/26/2021	Regulatory	10:01	Flood	10	14	21.0
12/07/2021	Regulatory	10:13	Ebb	7	12	1.7
03/24/2022	Regulatory	11:20	Ebb	7	1	4.0
10/17/2022	Regulatory	12:33	Flood	12	28	1.7
10/05/2023	Regulatory	11:58	Ebb	14	29	1.7
11/06/2023	Regulatory	11:36	Flood	11	11	13.0



MAP 1. Port Susan Growing Area

