

# Pickering Passage

## Annual Shellfish Growing Area Review



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Area: Pickering Passage

Year Ending: December 31, 2021

Classification: Approved, Prohibited

### Activities in the Growing Area in 2021

The growing area was sampled a minimum of six times in accordance with the National Shellfish Sanitation Program (NSSP) Systematic Random Sampling (SRS) method. A portion of the growing area was closed for 21 days in September due to an upset at the Rustlewood WWTP. Marine Station 67 in Jones Cove failed the NSSP standard for an Approved classification resulting in a reclassification of seven acres around this station to Prohibited.

Mason Conservation District received EPA National Estuary Program (NEP) funds through the Washington State Conservation Commission to provide technical assistance and education and outreach to landowners to promote the implementation of livestock best management practices.

### Analytical Results of Water Samples

Table 1 summarizes the results of the of the last 30 samples collected from each of the stations. Station 52 is categorized as Threatened with an estimated 90<sup>th</sup> percentile of 34.4 FC/100mL. Prohibited Station 56 holds the sanitary line with Approved waters and has a Concerned status. Table 2 includes individual sample results for Station 52.

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

### Remarks and Recommendations

The area is correctly classified. The Department should continue meeting with the Mason Clean Water District to help find and fix pollution sources in the Jones Cove watershed.

**TABLE 1. Summary of Marine Water Data (SRS) for the Pickering Passage 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
52	Approved	2/2/2017 - 12/8/2021	1.7 - 1600.0	4.6	34.4	Y
53	Approved	2/2/2017 - 12/8/2021	1.7 - 23.0	2.6	6.3	Y
54	Approved	2/2/2017 - 12/8/2021	1.7 - 49.0	3.0	10.4	Y
57	Approved	5/9/2018 - 12/8/2021	1.7 - 79.0	3.5	16.6	Y
58	Approved	5/9/2018 - 12/8/2021	1.7 - 170.0	3.4	17.6	Y
59	Approved	2/2/2017 - 12/8/2021	1.7 - 49.0	3.2	10.6	Y
60	Approved	2/2/2017 - 12/8/2021	1.7 - 49.0	2.3	5.8	Y
61	Approved	2/2/2017 - 12/8/2021	1.7 - 6.8	1.9	2.8	Y
62	Approved	2/2/2017 - 12/8/2021	1.7 - 33.0	2.8	7.9	Y
63	Approved	11/8/2016 - 12/8/2021	1.7 - 4.5	1.9	2.8	Y
64	Approved	2/2/2017 - 12/8/2021	1.7 - 4.5	2.0	3.2	Y
65	Approved	2/2/2017 - 12/8/2021	1.7 - 7.8	2.1	3.5	Y
66	Approved	2/2/2017 - 12/8/2021	1.7 - 350.0	3.8	19.2	Y
68	Approved	4/5/2017 - 12/8/2021	1.7 - 23.0	1.9	3.7	Y
69	Approved	2/2/2017 - 12/8/2021	1.7 - 33.0	2.7	7.0	Y
70	Approved	2/2/2017 - 12/8/2021	1.7 - 49.0	2.7	8.4	Y
71	Approved	2/2/2017 - 12/8/2021	1.7 - 49.0	2.9	8.9	Y
72	Approved	2/2/2017 - 12/8/2021	1.7 - 7.8	2.1	3.5	Y
74	Approved	2/2/2017 - 12/8/2021	1.7 - 4.5	1.9	2.6	Y
75	Approved	2/2/2017 - 12/8/2021	1.7 - 49.0	2.7	8.0	Y
76	Approved	2/2/2017 - 12/8/2021	1.7 - 6.8	1.9	2.8	Y
586	Approved	2/2/2017 - 12/8/2021	1.7 - 12.0	2.1	3.8	Y
643	Approved	2/2/2017 - 12/8/2021	1.7 - 170.0	2.3	7.5	Y
654	Approved	2/2/2017 - 12/8/2021	1.7 - 11.0	2.1	4.1	Y
679	Approved	2/2/2017 - 12/8/2021	1.7 - 9.3	2.1	4.0	Y
768	Approved	2/2/2017 - 12/8/2021	1.7 - 23.0	2.2	4.7	Y
769	Approved	2/2/2017 - 12/8/2021	1.7 - 13.0	1.9	3.3	Y
770	Approved	2/2/2017 - 12/8/2021	1.7 - 4.5	1.8	2.3	Y
848	Approved	2/2/2017 - 12/8/2021	1.7 - 49.0	2.8	9.6	Y
868	Approved	5/9/2018 - 12/8/2021	1.7 - 7.8	2.1	3.7	Y
55	Prohibited	2/2/2017 - 12/8/2021	1.7 - 79.0	4.3	18.6	Y
56	Prohibited	2/2/2017 - 12/8/2021	1.7 - 920.0	4.0	28.7	Y
67	Prohibited	2/2/2017 - 12/8/2021	1.7 - 920.0	10.1	126.5	N

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 for the Threatened Station in Pickering Passage**

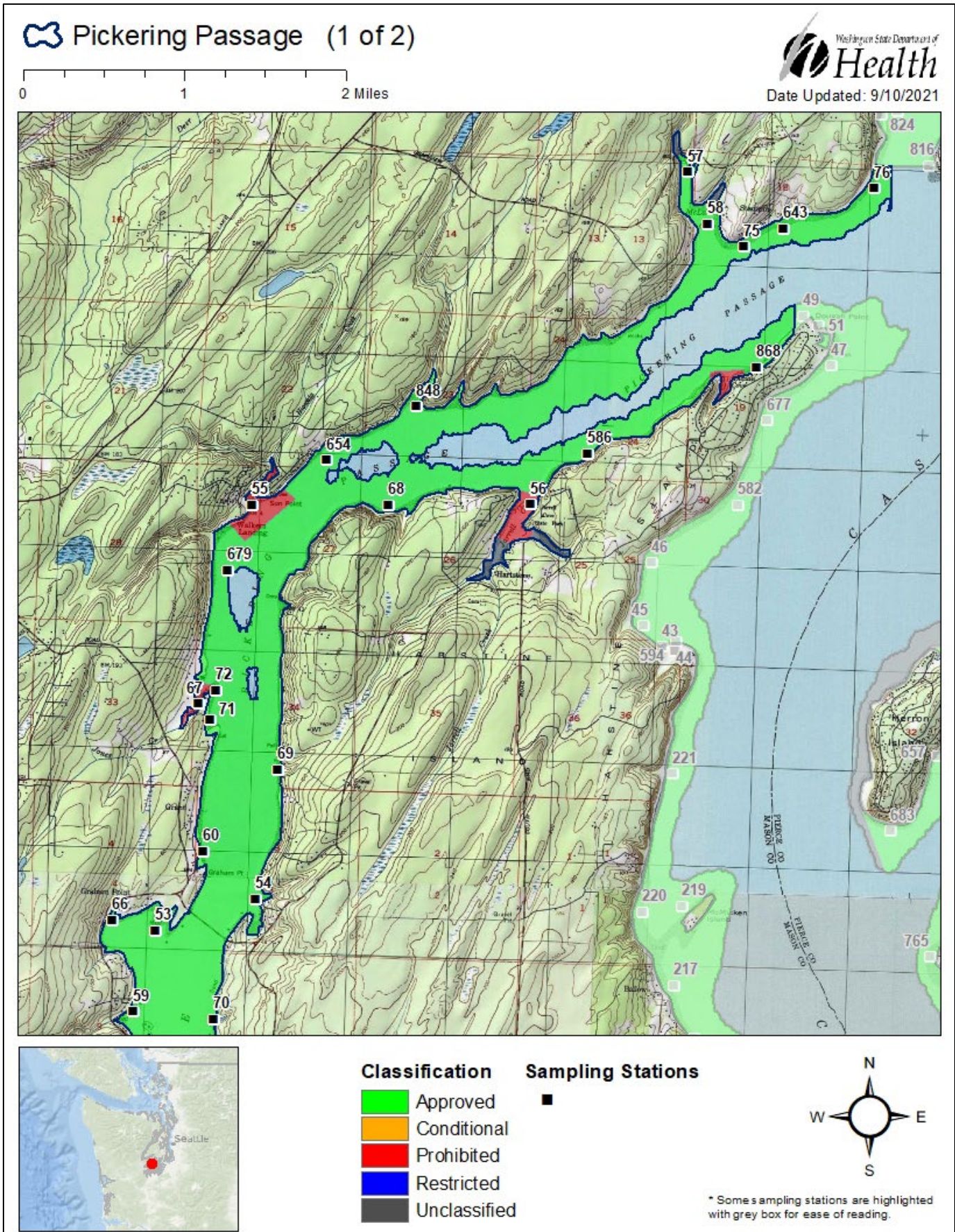
Station: 52

Classification: Approved

Method: SRS

<b>Total Samples: 30</b> <b>Range (FC/100 mL): 1.7 - 1600.0</b> <b>GeoMean (FC/100 mL): 4.6</b>				<b>Date Range: 02/02/2017 - 12/08/2021</b> <b>E90th (FC/100 mL): 34.4</b> <b>Meets Standard: Y</b>		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
02/02/2017	Regulatory	13:54	Ebb	6	28	1.7
04/05/2017	Regulatory	13:15	Flood	9	22	22.0
06/13/2017	Regulatory	11:20	Ebb	13	26	49.0
08/24/2017	Regulatory	10:58	Ebb	16	28	6.1
10/24/2017	Regulatory	11:44	Ebb	12	28	2.0
12/06/2017	Regulatory	11:30	Ebb	7	28	1.7
01/24/2018	Regulatory	11:56	Ebb	7	22	17.0
03/20/2018	Regulatory	11:44	Ebb	7	28	2.0
05/09/2018	Regulatory	12:31	Flood	11	28	1.7
07/31/2018	Regulatory	11:16	Ebb	17	28	6.8
09/12/2018	Regulatory	10:54	Ebb	15	29	6.8
11/27/2018	Regulatory	12:13	Ebb	10	18	1600.0
02/14/2019	Regulatory	11:37	Flood	7	27	1.7
03/26/2019	Regulatory	11:19	Ebb	9	28	1.7
06/10/2019	Regulatory	11:37	Flood	15	28	1.7
08/05/2019	Regulatory	11:18	Ebb	19	29	1.7
10/30/2019	Regulatory	11:36	Ebb	12	29	1.7
12/16/2019	Regulatory	11:33	Ebb	10	29	1.7
01/23/2020	Regulatory	13:11	Flood	9	19	33.0
03/12/2020	Regulatory	09:16	Ebb	9	26	1.7
05/18/2020	Regulatory	15:12	Flood	15	29	1.7
07/15/2020	Regulatory	14:29	Flood	19	28	1.7
09/08/2020	Regulatory	12:27	Ebb	17	29	2.0
11/16/2020	Regulatory	12:03	Ebb	11	27	11.0
02/04/2021	Regulatory	11:15	Ebb	9	24	2.0
04/21/2021	Regulatory	13:00	Flood	13	27	1.7
06/01/2021	Regulatory	12:05	Ebb	15	28	2.0
08/05/2021	Regulatory	16:16	Flood	20	28	1.7
10/27/2021	Regulatory	12:25	Flood	13	29	7.8
12/08/2021	Regulatory	13:46	Ebb	10	26	49.0

MAP 1. Pickering Passage Growing Area 1 of 2



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