Liberty Bay

Annual Shellfish Growing Area Review



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Area: Liberty Bay

Year Ending: December 31, 2024

Classification: Approved, Conditionally Approved, Prohibited

Activities in the Growing Area in 2024

The growing area was sampled six times in accordance with the National Shellfish Sanitation Program (NSSP) Systematic Random Sampling criteria. Four sampling events occurred while the Conditionally Approved area was in open status. The Conditionally Approved portion was closed during the boating season (May 1 through September 30). A portion of Liberty Bay including the area south of a line between 267 NW Scandia Rd and 17346 Lemolo Shore Dr NE in Poulsbo was closed on 12/2/2024 for 21 days due to a sewage spill.

Analytical Results of Water Samples

Table 1 summarizes the results of the last 30 samples collected from the area. This summary shows that all stations pass the NSSP water quality standard. Stations 388, 390, and 391 are categorized as Threatened with estimated 90th percentiles of 39.9 FC/100mL, 29.8 FC/100mL, and 37.5 FC/100mL, respectively. See Table 2 for the last 30 sampling results at the Threatened stations.

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
\boxtimes	Meets standards, but threatened with downgrade in classification
	Fails to meet current classification standards

Remarks and Recommendations

Table 1 shows that all stations meet the NSSP water quality standard for an Approved classification and the area is correctly classified.

In order to evaluate the Conditionally Approved Area Management Plan, boats that are likely to have marine toilets within Liberty Bay were counted by DOH boat operators during marine water sampling events. Boats were counted four times during the closed period with boat counts ranging from 20 to 30. Boats were counted once during the closed period (October 2, 2024) with a count of 20 boats. The Conditionally Approved area was established in response to a large number of boats present in the harbor over the summer months. We are not noting an increase in the number of boats with marine heads in the area for prolonged periods. No classification changes are recommended.

Management Plan Evaluation

1.	Have all parties involved complied with the conditions of the management plan	Yes
2.	Has reporting been adequate to manage the conditional area	Yes
3.	Does the area consistently meet approved area criteria when it is open for harvest	.Yes
4.	Has a field inspection of critical pollution sources been conducted	Yes

TABLE 1. Summary of Marine Water Data (SRS) for the Liberty Bay 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 th Percentile (FC/100mL)	Meets Standard
499	Approved	7/25/2019 - 11/12/2024	1.7 - 49.0	2.4	6.9	Y
500	Approved	7/25/2019 - 11/12/2024	1.7 - 33.0	2.4	6.5	Y
501	Approved	7/25/2019 - 11/12/2024	1.7 - 49.0	2.3	5.6	Y
384	Conditionally Approved	7/25/2019 - 11/12/2024	1.7 - 33.0	2.9	8.0	Y
385	Conditionally Approved	7/25/2019 - 11/12/2024	1.7 - 22.0	2.8	7.8	Y
386	Conditionally Approved	7/25/2019 - 11/12/2024	1.7 - 110.0	3.7	19.8	Y
387	Conditionally Approved	7/25/2019 - 11/12/2024	1.7 - 130.0	4.0	16.5	Υ
388	Conditionally Approved	7/25/2019 - 11/12/2024	1.7 - 280.0	5.7	39.9	Υ
389	Conditionally Approved	5/2/2019 - 11/12/2024	1.7 - 79.0	2.9	9.1	Υ
390	Conditionally Approved	7/25/2019 - 11/12/2024	1.7 - 110.0	5.4	29.8	Υ
392	Conditionally Approved	7/25/2019 - 11/12/2024	1.7 - 130.0	2.3	6.8	Υ
498	Conditionally Approved	7/25/2019 - 11/12/2024	1.7 - 49.0	2.1	4.8	Υ
872	Conditionally Approved	7/25/2019 - 11/12/2024	1.7 - 46.0	2.5	7.1	Υ
380	Unclassified	7/25/2019 - 11/12/2024	1.7 - 23.0	2.2	4.7	Υ
381	Unclassified	7/25/2019 - 11/12/2024	1.7 - 110.0	2.6	8.5	Υ
382	Unclassified	7/25/2019 - 11/12/2024	1.7 - 49.0	3.4	13.0	Υ
383	Unclassified	7/25/2019 - 11/12/2024	1.7 - 14.0	3.0	7.8	Y
391	Unclassified	7/25/2019 - 11/12/2024	1.7 - 350.0	5.1	37.5	Y
393	Unclassified	7/25/2019 - 11/12/2024	1.7 - 110.0	3.2	12.6	Υ
394	Unclassified	7/25/2019 - 11/12/2024	1.7 - 110.0	2.4	7.3	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 for the Threatened Stations in Liberty Bay Growing Area

Station:388

Classification: Conditionally Approved

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7-280.0 GeoMean (FC/100 mL): 5.7 Date Range: 07/25/2019 - 11/12/2024

E90th (FC/100 mL): 39.9 Meets Standard: Y

Sample	Event Type	Time	Tide	SWT	Salinity	Fecal
Date						Coliform
07/25/2019	Regulatory	09:40	Flood	19	31	17.0
09/04/2019	Regulatory	09:59	Flood	18	32	13.0
11/06/2019	Regulatory	09:51	Flood	11	30	1.7
02/18/2020	Regulatory	10:07	Flood	8	26	1.8
04/30/2020	Regulatory	09:57	Flood	13	30	1.7
06/23/2020	Regulatory	08:30	Ebb	18	29	1.7
08/25/2020	Regulatory	09:43	Flood	18	31	23.0
10/08/2020	Regulatory	10:15	Flood	15	31	13.0
12/03/2020	Regulatory	09:48	Ebb	8	29	33.0
03/16/2021	Regulatory	11:14	Ebb	9	29	1.7
05/06/2021	Regulatory	12:03	Flood	13	30	1.7
09/13/2021	Regulatory	11:27	Flood	17	31	2.0
11/22/2021	Regulatory	09:22	Ebb	10	27	1.8
04/04/2022	Regulatory	08:41	Ebb	10	27	240.0
06/08/2022	Regulatory	11:15	Flood	15	28	2.0
08/03/2022	Regulatory	08:17	Flood	19	30	7.8
10/05/2022	Regulatory	14:31	Flood	16	30	1.7
12/29/2022	Regulatory	12:10	Ebb	8	15	280.0
01/23/2023	Regulatory	08:42	Ebb	9	27	22.0
03/02/2023	Regulatory	09:42	Ebb	8	30	1.7
05/24/2023	Regulatory	08:52	Ebb	17	28	4.5
07/18/2023	Regulatory	07:23	Ebb	18	29	2.0
09/12/2023	Regulatory	15:54	Flood	17	31	4.5
11/02/2023	Regulatory	08:36	Flood	12	29	49.0
02/26/2024	Regulatory	08:47	Ebb	9	28	1.7
04/22/2024	Regulatory	07:48	Ebb	13	27	1.7
05/29/2024	Regulatory	10:15	Ebb	15	28	1.7
09/17/2024	Regulatory	15:35	Flood	16	29	23.0
10/02/2024	Regulatory	15:48	Flood	16	29	7.8
11/12/2024	Regulatory	12:21	Flood	12	28	2.0

TABLE 2. continued

Station: 390

Classification: Conditionally Approved

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7 - 110.0 GeoMean (FC/100 mL): 5.4

Date Range: 07/25/2019 - 11/12/2024 E90th (FC/100 mL): 29.8 Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
07/25/2019	Regulatory	09:43	Flood	18	31	1.7
09/04/2019	Regulatory	10:03	Flood	18	32	7.8
11/06/2019	Regulatory	09:55	Flood	11	30	79.0
02/18/2020	Regulatory	10:10	Flood	8	26	2.0
04/30/2020	Regulatory	10:00	Flood	13	30	4.5
06/23/2020	Regulatory	08:34	Ebb	18	29	7.8
08/25/2020	Regulatory	09:49	Flood	18	31	6.8
10/08/2020	Regulatory	10:18	Flood	15	31	7.8
12/03/2020	Regulatory	09:51	Ebb	8	31	49.0
03/16/2021	Regulatory	11:17	Ebb	9	29	1.7
05/06/2021	Regulatory	11:58	Flood	12	30	1.7
09/13/2021	Regulatory	11:31	Flood	17	31	22.0
11/22/2021	Regulatory	09:30	Ebb	10	27	7.8
04/04/2022	Regulatory	08:46	Ebb	10	27	23.0
06/08/2022	Regulatory	11:19	Flood	17	28	1.8
08/03/2022	Regulatory	08:23	Flood	19	30	2.0
10/05/2022	Regulatory	14:35	Flood	16	29	1.8
12/29/2022	Regulatory	12:16	Ebb	8	8	110.0
01/23/2023	Regulatory	08:46	Ebb	8	28	2.0
03/02/2023	Regulatory	09:47	Flood	8	29	4.5
05/24/2023	Regulatory	08:57	Ebb	17	28	2.0
07/18/2023	Regulatory	07:27	Ebb	18	29	4.5
09/12/2023	Regulatory	15:58	Flood	17	31	1.7
11/02/2023	Regulatory	08:40	Flood	12	29	33.0
02/26/2024	Regulatory	08:52	Ebb	9	28	1.7
04/22/2024	Regulatory	07:53	Ebb	13	27	1.7
05/29/2024	Regulatory	10:17	Ebb	15	28	1.7
09/17/2024	Regulatory	15:40	Flood	17	29	4.0
10/02/2024	Regulatory	15:53	Flood	16	29	1.7
11/12/2024	Regulatory	12:25	Flood	12	27	49.0

TABLE 2. continued

Station: 391

Classification: Unclassified

Method: SRS

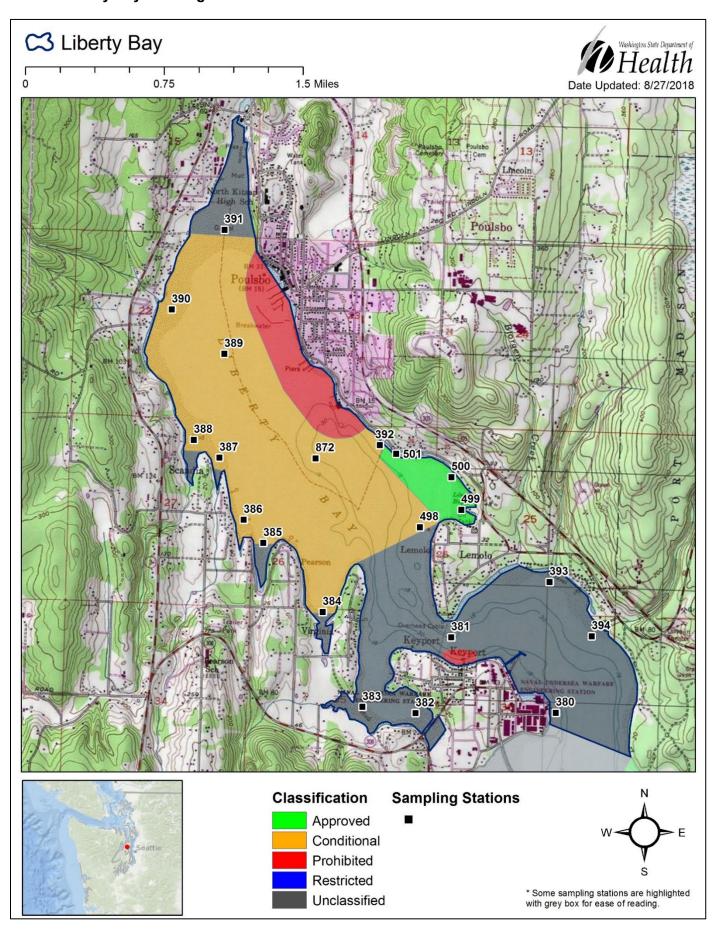
Total Samples: 30

Range (FC/100 mL): 1.7-350.0 GeoMean (FC/100 mL): 5.1

Date Range: 07/25/2019 - 11/12/2024 E90th (FC/100 mL): 37.5 Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
07/25/2019	Regulatory	09:47	Flood	18	32	4.5
09/04/2019	Regulatory	10:05	Flood	18	32	4.5
11/06/2019	Regulatory	09:57	Flood	11	30	1.7
02/18/2020	Regulatory	10:13	Flood	8	26	2.0
04/30/2020	Regulatory	10:03	Flood	13	30	1.7
06/23/2020	Regulatory	08:37	Ebb	18	30	1.7
08/25/2020	Regulatory	09:51	Flood	18	31	2.0
10/08/2020	Regulatory	10:21	Flood	15	30	13.0
12/03/2020	Regulatory	09:53	Ebb	8	31	7.8
03/16/2021	Regulatory	11:20	Ebb	9	29	4.5
05/06/2021	Regulatory	11:56	Flood	12	30	1.7
09/13/2021	Regulatory	11:34	Flood	17	31	2.0
11/22/2021	Regulatory	09:32	Ebb	10	27	11.0
04/04/2022	Regulatory	08:48	Ebb	10	10	240.0
06/08/2022	Regulatory	11:20	Flood	17	28	23.0
08/03/2022	Regulatory	08:25	Flood	19	30	4.5
10/05/2022	Regulatory	14:37	Flood	17	28	2.0
12/29/2022	Regulatory	12:19	Ebb	8	10	350.0
01/23/2023	Regulatory	08:48	Ebb	8	27	2.0
03/02/2023	Regulatory	09:49	Flood	8	16	17.0
05/24/2023	Regulatory	08:58	Ebb	17	28	2.0
07/18/2023	Regulatory	07:29	Ebb	18	29	7.8
09/12/2023	Regulatory	16:00	Flood	17	28	1.7
11/02/2023	Regulatory	08:42	Flood	12	29	4.5
02/26/2024	Regulatory	08:55	Ebb	9	25	1.8
04/22/2024	Regulatory	07:56	Ebb	13	26	1.7
05/29/2024	Regulatory	10:20	Ebb	15	28	1.7
09/17/2024	Regulatory	15:42	Flood	17	29	1.7
10/02/2024	Regulatory	15:56	Flood	16	29	1.7
11/12/2024	Regulatory	12:27	Flood	12	20	240.0

MAP 1. Liberty Bay Growing Area



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