

Dyes Inlet

Annual Shellfish Growing Area Review



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Area: Dyes Inlet

Year Ending: December 31, 2023

Classification: Approved, Conditionally Approved, Prohibited

Activities in the Growing Area in 2023

The growing area was sampled six times in accordance with the National Shellfish Sanitation Program (NSSP) Systematic Random Sampling (SRS) criteria. All samples were collected during Open status. During the week of December 5-12 all of Dyes Inlet was closed due to excessive rainfall. During January, 50 acres of Prohibited area in eastern Chico Bay were reclassified to Approved based on improved marine water quality and pollution identification and correction activities in the watershed.

A routine shoreline survey was conducted, and no Direct or Indirect impacts were identified in the Conditionally Approved and Approved areas. The Department completed an annual CAAMP evaluation of the Bremerton Eastside CSO plant. No changes to the classification or the CAAMP were needed.

The Kitsap Public Health District continues to identify and correct pollution sources affecting the central and western portions of Dyes Inlet.

Analytical Results of Water Samples

Table 1 summarizes the results of the most recent 30 water samples at all stations. All stations meet NSSP criteria for an Approved classification except stations 466 and 472 in the Prohibited area. Station 474 is Threatened with an estimated 90th percentile of 31.5 FC/100mL. Table 2 shows Station 474 individual data.

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 threatened with downgrade in classification
- Fails to meet current classification standards

Remarks and Recommendations

Table 1 shows that all stations meet NSSP water quality standards, and the area is correctly classified. The Department should continue to work with Kitsap County and the Suquamish Tribe to find and fix sources of pollution in the Dyes Inlet watershed.

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 Dyes Inlet 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
469	Approved	2/21/2019 - 12/21/2023	1.7 - 49.0	3.9	16.9	Y
470	Approved	2/21/2019 - 12/21/2023	1.7 - 79.0	3.4	12.1	Y
471	Approved	2/21/2019 - 12/21/2023	1.7 - 49.0	3.9	12.7	Y
473	Approved	4/16/2019 - 12/21/2023	1.7 - 49.0	5.2	26.2	Y
474	Approved	2/21/2019 - 12/21/2023	1.7 - 240.0	5.6	31.5	Y
462	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 13.0	2.4	5.1	Y
463	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 22.0	3.8	9.4	Y
464	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 23.0	3.2	9.1	Y
465	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 31.0	3.0	7.9	Y
467	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 7.8	2.2	3.9	Y
468	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 23.0	2.8	7.5	Y
477	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 13.0	2.3	5.2	Y
478	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 13.0	2.2	4.2	Y
479	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 9.2	2.1	3.8	Y
480	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 33.0	3.5	11.0	Y
481	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 33.0	4.1	15.0	Y
482	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 33.0	3.5	11.7	Y
483	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 13.0	2.4	5.0	Y
484	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 14.0	2.6	5.7	Y
491	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 49.0	2.5	7.0	Y
655	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 23.0	2.6	6.0	Y
661	Conditionally Approved	12/16/2019 - 12/21/2023	1.7 - 110.0	3.2	11.5	Y
466	Prohibited	2/21/2019 - 12/21/2023	1.7 - 130.0	8.7	50.8	N

TABLE 1 Continued.

Station Number	Classification	Date Range	Range (FC/100mL)	Geomean (FC/100mL)	Est. 90 th Percentile (FC/100mL)	Meets Standard
472	Prohibited	4/16/2019 - 12/21/2023	1.7 - 110.0	8.8	44.1	N
485	Prohibited	2/21/2019 - 12/21/2023	1.7 - 46.0	2.9	8.3	Y
486	Prohibited	2/21/2019 - 12/21/2023	1.7 - 14.0	3.1	8.1	Y
487	Prohibited	2/21/2019 - 12/21/2023	1.7 - 110.0	4.3	19.5	Y
488	Prohibited	2/21/2019 - 12/21/2023	1.7 - 33.0	3.0	9.1	Y
489	Prohibited	2/21/2019 - 12/21/2023	1.7 - 110.0	4.0	15.4	Y
490	Prohibited	2/21/2019 - 12/21/2023	1.7 - 49.0	3.7	12.9	Y
492	Prohibited	2/21/2019 - 12/21/2023	1.7 - 46.0	2.7	7.8	Y
546	Prohibited	2/21/2019 - 12/21/2023	1.7 - 23.0	2.8	7.9	Y
576	Prohibited	2/21/2019 - 12/21/2023	1.7 - 33.0	2.8	8.0	Y
577	Prohibited	2/21/2019 - 12/21/2023	1.7 - 49.0	3.5	11.1	Y
578	Prohibited	2/21/2019 - 12/21/2023	1.7 - 130.0	2.6	8.0	Y
604	Prohibited	2/21/2019 - 12/21/2023	1.7 - 13.0	2.5	5.7	Y
605	Prohibited	2/21/2019 - 12/21/2023	1.7 - 13.0	2.5	5.0	Y
606	Prohibited	2/21/2019 - 12/21/2023	1.7 - 17.0	3.1	7.5	Y
656	Prohibited	2/21/2019 - 12/21/2023	1.7 - 33.0	2.4	5.7	Y
817	Prohibited	7/19/2018 - 12/21/2023	1.7 - 79.0	4.1	16.2	Y

The standard for approved shellfish growing waters is a fecal coliform geometric mean not greater than 14 organisms / 100 mL with not more than 10 percent greater than 43 organisms / 100 mL. The above table shows bacteriological results in relation to program standards.

TABLE 2. Marine Water Data Summary for the Threatened Station in Dyes Inlet

Station: 474

Classification: Approved

Method: SRS

Total Samples: 30 Range (FC/100 mL): 1.7 - 240.0 GeoMean (FC/100 mL): 5.6				Date Range: 02/21/2019 - 12/21/2023 E90th (FC/100 mL): 31.5 Meets Standard: Y		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
02/21/2019	Regulatory	09:46	Ebb	8	25	4.5
04/16/2019	Regulatory	13:04	Flood	11	24	1.7
06/18/2019	Regulatory	07:05	Ebb	18	30	7.8
08/15/2019	Regulatory	07:04	Ebb	20	30	49.0
10/15/2019	Regulatory	09:44	Ebb	13	32	1.7
12/16/2019	Regulatory	10:22	Ebb	10	31	13.0
01/29/2020	Regulatory	08:47	Flood	9	25	2.0
03/18/2020	Regulatory	10:22	Flood	9	26	2.0
05/12/2020	Regulatory	07:40	Flood	14	30	7.8
07/06/2020	Regulatory	07:22	Ebb	17	30	33.0
09/09/2020	Regulatory	08:53	Flood	17	31	1.7
11/05/2020	Regulatory	09:44	Ebb	12	31	4.0
02/16/2021	Regulatory	09:40	Ebb	7	29	4.0
04/20/2021	Regulatory	09:22	Flood	13	29	23.0
06/28/2021	Regulatory	10:09	Ebb	20	30	22.0
08/12/2021	Regulatory	09:10	Ebb	19	30	22.0
10/20/2021	Regulatory	09:16	Ebb	13	31	7.8
12/21/2021	Regulatory	10:17	Ebb	7	4	79.0
01/24/2022	Regulatory	11:04	Ebb	8	8	2.0
03/09/2022	Regulatory	10:44	Ebb	8	25	2.0
05/05/2022	Regulatory	07:51	Flood	11	29	2.0
07/28/2022	Regulatory	18:10	Flood	28	29	1.7
09/12/2022	Regulatory	08:23	Ebb	17	29	4.5
11/30/2022	Regulatory	09:44	Flood	10	17	240.0
02/02/2023	Regulatory	09:44	Ebb	8	27	1.7
04/05/2023	Regulatory	07:37	Ebb	9	31	1.7
06/12/2023	Regulatory	13:31	Flood	20	30	1.7
08/21/2023	Regulatory	07:51	Flood	17	31	4.0
10/04/2023	Regulatory	08:12	Flood	15	32	4.5
12/21/2023	Regulatory	09:28	Flood	10	29	1.7

MAP 1. Dyes Inlet Growing Area

