

Dungeness Bay

Annual Shellfish Growing Area Review



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Area: Dungeness Bay

Year Ending: December 31, 2021

Classification: Approved, Conditionally Approved, Prohibited

Activities in the Growing Area in 2021

The growing area was sampled 12 times in accordance with National Shellfish Sanitation Program (NSSP) Systematic Random Sampling (SRS) criteria. Eight sampling events occurred during Open status. One sampling event occurred during a growing area-wide emergency closure due to Dungeness River flooding. The closure lasted seven days (11/15/21 to 11/22/21). The Conditionally Approved portion of the growing area was closed November through January per the current management plan. The Department conducted a routine shoreline survey. No Direct or Indirect Impacts were identified.

Clallam 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. Clallam County Environmental Health continued implementing a pollution identification and correction plan and enhanced their septic system operations and maintenance program in the Sequim Bay-Dungeness Watershed Clean Water District. Clean Water Work Group meetings continued quarterly.

Analytical Results of Water Samples

Table 1 summarizes the most recent 30 samples collected from each of the sampling stations. It includes samples collected when the Conditionally Approved area was in Closed status. Table 2 shows open period data for the Conditionally Approved stations. Station 199, in the Prohibited area, fails the NSSP standard, although Station 182 in the Jamestown Growing Area may support the sanitary line placement. Station 197 has a Threatened status with an estimated 90th percentile of 43.0 FC/100mL during the open period. Station 104 is categorized as Concerned during the open period. Table 3 shows the evaluation of closed period data for the Conditionally Approved stations based 15 samples and an APC evaluation. Table 4 includes the last 30 individual sampling results from Station 197.

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

Based on the evaluation of marine water quality, the Department should evaluate the conditions and classification around stations 197 and 199. The Department should continue working with Clallam County, the Jamestown S'Klallam Tribe, and others to identify and correct sources of pollution in the Dungeness Bay watershed.

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Management Plan Evaluation

1. Have all parties involved complied with the conditions of the management planYes
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 Dungeness 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
103	Approved	6/11/2019 - 12/20/2021	1.7 - 23.0	3.0	9.6	Y
108	Approved	6/11/2019 - 12/20/2021	1.7 - 33.0	3.6	12.9	Y
109	Approved	6/11/2019 - 12/20/2021	1.7 - 33.0	3.6	12.1	Y
110	Approved	6/11/2019 - 12/20/2021	1.7 - 49.0	3.1	10.3	Y
111	Approved	6/11/2019 - 12/20/2021	1.7 - 79.0	2.9	9.4	Y
112	Approved	6/11/2019 - 12/20/2021	1.7 - 49.0	2.6	6.8	Y
113	Approved	7/25/2019 - 12/20/2021	1.7 - 130.0	4.3	21.6	Y
114	Approved	6/11/2019 - 12/20/2021	1.7 - 49.0	4.0	15.2	Y
115	Approved	5/15/2019 - 12/20/2021	1.7 - 49.0	3.3	11.5	Y
104	Conditionally Approved	7/25/2019 - 12/20/2021	1.7 - 110.0	6.4	32.4	Y
105	Conditionally Approved	7/25/2019 - 12/20/2021	1.7 - 130.0	4.5	23.3	Y
106	Conditionally Approved	7/25/2019 - 12/20/2021	1.7 - 540.0	4.7	32.0	Y
107	Conditionally Approved	7/25/2019 - 12/20/2021	1.7 - 49.0	5.3	26.1	Y
197	Conditionally Approved	5/13/2019 - 12/20/2021	1.7 - 240.0	8.4	53.0	N
207	Conditionally Approved	7/25/2019 - 12/20/2021	1.7 - 79.0	4.2	21.0	Y
198	Prohibited	4/16/2019 - 12/20/2021	1.7 - 79.0	7.7	41.5	Y
199	Prohibited	4/16/2019 - 12/20/2021	1.7 - 1600	10.1	86.9	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. Summary of Sorted Marine Water Data (SRS) for the Dungeness Bay Growing Area

Sampling Event Type: Regulatory

Number of Samples: 30

Tides Included: All

Includes data from the Open period (February through October) only.

Station Number	Classification	Date Range	Range (FC/100mL)	Geomean (FC/100mL)	Est. 90 th Percentile (FC/100mL)	Meets Standard
104	Conditionally Approved	8/6/2018 - 10/12/2021	1.7 - 110.0	4.4	20.2	Y
105	Conditionally Approved	8/6/2018 - 10/12/2021	1.7 - 130.0	3.1	12.3	Y
106	Conditionally Approved	8/6/2018 - 10/12/2021	1.7 - 46.0	2.5	7.7	Y
107	Conditionally Approved	8/6/2018 - 10/12/2021	1.7 - 33.0	3.0	9.6	Y
197	Conditionally Approved	6/19/2018 - 10/12/2021	1.7 - 240.0	6.7	43.0	Y
207	Conditionally Approved	8/6/2018 - 10/12/2021	1.7 - 17.0	2.4	5.7	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 3. Summary of Marine Water Data (APC) for the Dungeness Bay Growing Area

Sampling Event Type: Regulatory

Number of Samples: 15

Tides Included: All

Includes data from the Closed period (November through January) only, from the last five years.

Station Number	Classification	Date Range	Range (FC/100mL)	Geomean (FC/100mL)	% of samples > 43 FC/100mL	Meets Std.
104	Conditionally Approved	12/14/2016 - 12/20/2021	4.5 - 79.0	13.3	13.33	N
105	Conditionally Approved	12/14/2016 - 12/20/2021	1.7 - 70.0	9.8	6.67	Y
106	Conditionally Approved	12/14/2016 - 12/20/2021	1.7 - 540.0	16.7	6.67	Y
107	Conditionally Approved	12/14/2016 - 12/20/2021	1.7 - 49.0	13.3	20.00	N
197	Conditionally Approved	12/22/2016 - 12/20/2021	1.7-33.0	7.7	0.00	Y
207	Conditionally Approved	11/15/2017 - 12/20/2021	1.7 - 79.0	17.1	20.00	N

The standard for approved shellfish growing waters is 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 4. Marine Water Data Summary of the Threatened Station in Dungeness Bay

Station: 197

Classification: Conditionally Approved

Method: SRS

Total Samples: 30 Range (FC/100 mL): 1.7 - 240.0 GeoMean (FC/100 mL): 6.7				Date Range: 06/19/2018 - 10/12/2021 E90th (FC/100 mL): 43.0 Meets Standard: Y		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
06/19/2018	Regulatory	08:40	Ebb	12	36	4.5
07/30/2018	Regulatory	07:50	Ebb	13	28	4.5
08/20/2018	Regulatory	10:51	Flood	12	33	7.8
10/09/2018	Regulatory	11:47	Flood	9	31	13.0
10/29/2018	Regulatory	10:35	Ebb	9	33	11.0
03/04/2019	Regulatory	11:13	Flood	6	32	2.0
03/14/2019	Regulatory	10:49	Ebb	7	30	2.0
04/16/2019	Regulatory	10:42	Flood	9	5	49.0
05/13/2019	Regulatory	10:36	Flood	10	3	2.0
06/11/2019	Regulatory	09:59	Flood	11	2	23.0
07/23/2019	Regulatory	11:27	Ebb	10	32	1.7
08/22/2019	Regulatory	09:03	Flood	10	21	7.8
09/24/2019	Regulatory	12:06	Flood	11	16	130.0
10/14/2019	Regulatory	09:26	Ebb	7	32	33.0
02/05/2020	Regulatory	10:22	Flood	6	27	1.7
03/16/2020	Regulatory	11:57	Ebb	7	33	1.7
03/31/2020	Regulatory	11:02	Ebb	7	31	1.7
05/14/2020	Regulatory	12:52	Ebb	9	29	1.7
06/16/2020	Regulatory	11:38	Flood	13	5	49.0
07/27/2020	Regulatory	10:26	Flood	13	15	2.0
08/24/2020	Regulatory	11:07	Ebb	9	30	4.5
09/28/2020	Regulatory	13:01	Flood	10	22	11.0
10/21/2020	Regulatory	09:05	Flood	9	30	2.0
02/09/2021	Regulatory	10:30	Flood	5	27	2.0
04/05/2021	Regulatory	09:50	Ebb	5	25	2.0
05/04/2021	Regulatory	10:49	Ebb	8	31	4.0
06/17/2021	Regulatory	08:10	Ebb	10	29	4.5
08/16/2021	Regulatory	11:05	Flood	13	15	79.0
09/27/2021	Regulatory	09:39	Flood	10	32	240.0
10/12/2021	Regulatory	11:41	Ebb	6	28	4.5

MAP 1. Dungeness Bay Growing Area

