

Filucy Bay

Annual Shellfish Growing Area Review



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Area: Filucy Bay

Year Ending: December 31, 2021

Classification: Conditionally Approved, Restricted, Prohibited

Activities in the Growing Area in 2021

The growing area was sampled 12 times in accordance with the National Shellfish Sanitation Program (NSSP) Systematic Random Sampling (SRS) criteria. Ten samples were collected during the Open status. The Conditionally Approved portion of the growing area was closed six times for a total of 38 days due to rainfall (≥ 1 -inch in 24 hours).

A routine shoreline survey was conducted, and no Direct or Indirect Impacts were identified. The Tacoma-Pierce County Health Department, Pierce County Surface Water Management, and Pierce Conservation District continued pollution identification and correction work in the watershed. The Filucy Bay Shellfish Protection District continues to meet quarterly.

Analytical Results of Water Samples

Table 1 summarizes the most recent 30 samples collected from each of the sampling stations. Two of these samples were collected during Closed status. Table 2 shows the Conditionally Approved stations during Open status (less than 1-inch rainfall in 24 hours). After removing Closed status data, Station 764 is categorized as Threatened with an estimated 90th percentile of 33.7 FC/100mL. Table 3 shows individual, open period results for Station 764.

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

Tables 1 and 2 shows that all stations meet the required NSSP water quality standards and the area is correctly classified.

The Department should continue to work with Tacoma-Pierce County Health Department, Pierce County Surface Water Management, Pierce Conservation District, and others to identify and correct sources of pollution in the 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 Filucy 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
274	Conditionally Approved	7/22/2019 - 12/16/2021	1.7 - 240.0	4.0	21.3	Yes
278	Conditionally Approved	7/22/2019 - 12/16/2021	1.7 - 350.0	5.9	46.6	No
279	Conditionally Approved	7/22/2019 - 12/16/2021	1.7 - 240.0	5.9	43.4	No
764	Conditionally Approved	7/22/2019 - 12/16/2021	1.7 - 350.0	7.1	74.1	No
276	Prohibited	7/22/2019 - 12/16/2021	1.7 - 220.0	5.2	30.8	Yes
275	Restricted	7/22/2019 - 12/16/2021	1.7 - 920.0	11.5	131.6	No

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 Conditionally Approved Marine Water Data (SRS) in Open Status in the Filucy Bay Growing Area

Sampling Event Type: Regulatory

Maximum Number of Samples: 30

Tides Included: All

Includes data for rainfall amounts:00-0.99” on days 0 – 4 previous to the sampling event.

Station Number	Classification	Date Range	Range (FC/100mL)	Geomean (FC/100mL)	Est. 90 th Percentile (FC/100mL)	Meets Standard
274	Conditionally Approved	3/13/2019 - 12/16/2021	1.7 - 240.0	3.4	16.0	Yes
278	Conditionally Approved	3/13/2019 - 12/16/2021	1.7 - 170.0	4.1	18.8	Yes
279	Conditionally Approved	3/13/2019 - 12/16/2021	1.7 - 130.0	4.1	18.9	Yes
764	Conditionally Approved	3/13/2019 - 12/16/2021	1.7 - 240.0	4.9	33.7	Yes

The above table shows bacteriological results in relation to NSSP criteria. NSSP standards for approved shellfish growing waters are a fecal coliform geometric mean not greater than 14 organisms/100 mL and an estimated 90th percentile not greater than 43 organisms/100mL.

TABLE 4. Marine Water Quality Summary for a Threatened Station in Filucy Bay

Station: 764

Classification: Conditionally Approved

Method: SRS

Includes data for rainfall amounts 0.00-0.99 on days 0-5 previous to the sampling event

Total Samples: 30 Range (FC/100 mL): 1.7 – 240.0 GeoMean (FC/100 mL): 4.9				Date Range: 03/13/2019 – 12/16/2021 E90th (FC/100 mL): 33.7 Meets Standard: Yes		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
03/13/2019	Regulatory	09:49	Flood	8	28	1.7
04/11/2019	Regulatory	09:07	Flood	10	24	14.0
05/23/2019	Regulatory	09:00	Ebb	15	29	4.5
06/06/2019	Regulatory	08:10	Ebb	15	29	6.8
07/22/2019	Regulatory	08:57	Flood	16	29	2.0
08/06/2019	Regulatory	09:43	Flood	18	30	23.0
09/03/2019	Regulatory	09:21	Flood	16	30	11.0
10/07/2019	Regulatory	12:08	Flood	14	32	1.7
11/06/2019	Regulatory	10:39	Flood	12	30	2.0
12/19/2019	Regulatory	13:16	Ebb	9	29	7.8
01/02/2020	Regulatory	13:33	Ebb	9	30	240.0
03/19/2020	Regulatory	13:02	Flood	10	28	1.7
04/27/2020	Regulatory	08:41	Ebb	13	27	33.0
06/11/2020	Regulatory	08:50	Flood	15	25	13.0
07/07/2020	Regulatory	08:22	Ebb	16	29	1.7
08/10/2020	Regulatory	12:39	Ebb	18	29	1.7
09/03/2020	Regulatory	08:41	Ebb	16	29	11.0
09/28/2020	Regulatory	16:50	Flood	17	30	1.7
10/27/2020	Regulatory	15:21	Flood	13	30	1.7
12/21/2020	Regulatory	15:00	Ebb	11	12	240.0
02/17/2021	Regulatory	12:36	Ebb	8	25	2.0
03/04/2021	Regulatory	11:43	Ebb	10	25	1.7
04/06/2021	Regulatory	14:33	Ebb	11	26	1.7
05/18/2021	Regulatory	08:38	Flood	13	26	2.0
06/22/2021	Regulatory	14:46	Flood	19	29	1.7
07/07/2021	Regulatory	18:07	Flood	17	29	1.7
08/02/2021	Regulatory	15:30	Flood	19	29	1.8
10/06/2021	Regulatory	17:50	Flood	14	30	2.0
11/04/2021	Regulatory	14:24	Flood	13	28	70.0
12/16/2021	Regulatory	12:34	Flood	9	23	2.0

MAP 1. Fil Lucy Bay Growing Area

