

Oakland Bay

Annual Shellfish Growing Area Review



Prepared By: Trevor Swanson

Area: Oakland Bay

Year Ending: December 31, 2024

Classification: Approved, Conditionally Approved, Prohibited

Activities in the Growing Area in 2024

The growing area was sampled 11 times in accordance with National Shellfish Sanitation Program (NSSP) Systematic Random Sampling (SRS) criteria. All samples were collected at stations in the Conditionally Approved area during the Open status. The Conditionally Approved area was closed 10 times for 57 days due to rainfall (≥ 1 inch in 24 hours). All of Oakland Bay was closed on an emergency basis from December 18-23 due to excessive rainfall. The Conditionally Approved area around stations 129 and 614 was Restricted from June through September. No relays occurred during this time.

A routine three-year shoreline evaluation was completed. It was recommended that the Department maintain contact with Mason County Public Health regarding additional sampling in High Risk drainages. No new or changes in pollution sources were identified that impacted the growing area.

Based on a harvest request, a reevaluation of the Shelton WWTP was completed in 2023. Due to improvements at the plant and increased holding capacity, a portion of the Prohibited area was reclassified to Conditionally Approved in February 2024. An annual Oakland Bay/Hammersley Inlet CAAMP evaluation of the Shelton WWTP was completed. No changes to the classification or the CAAMP were needed. A comprehensive evaluation report is in the central growing area file.

The Mason Conservation District received EPA National Estuary Program funds for education and outreach activities throughout Mason County. The Mason County Clean Water District continued to implement pollution identification and correction activities identified in the Oakland Bay pollution closure response plan.

Analytical Results of Water Samples

All stations meet NSSP standards. 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 closed to harvest. Table 2 summarizes the most recent 30 samples sorted for the open period and 1 inch of rainfall in the Conditionally Approved area. Table 2 also includes various other data sorts for comparison purposes. Stations 129 and 614 are considered Threatened after sorting with estimated 90th percentiles of 34.4 FC/100mL and 40.8 FC/100mL, respectively. Only one of the last thirty marine water sampling events (4/6/2022 event) occurred during a rainfall closure.

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

Remarks and Recommendations

The area is correctly classified. The Department should continue to meet and work with Mason County and others to find and fix pollution sources 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 Oakland 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
116	Approved	3/7/2022 - 12/5/2024	1.7 - 23.0	2.6	5.9	Y
117	Approved	3/7/2022 - 12/5/2024	1.7 - 33.0	3.4	9.6	Y
118	Approved	3/7/2022 - 12/5/2024	1.7 - 27.0	3.4	10.2	Y
119	Approved	3/7/2022 - 12/5/2024	1.7 - 13.0	2.6	5.6	Y
120	Approved	3/7/2022 - 12/5/2024	1.7 - 13.0	2.5	5.5	Y
121	Approved	3/7/2022 - 12/5/2024	1.7 - 79.0	3.9	12.5	Y
123	Approved	3/7/2022 - 12/5/2024	1.7 - 11.0	2.8	6.0	Y
125	Approved	3/7/2022 - 12/5/2024	1.7 - 33.0	3.8	12.6	Y
126	Approved	3/7/2022 - 12/5/2024	1.7 - 170.0	4.3	14.6	Y
127	Approved	3/7/2022 - 12/5/2024	1.7 - 240.0	3.7	14.2	Y
128	Approved	3/7/2022 - 12/5/2024	1.7 - 23.0	2.2	4.6	Y
615	Approved	3/7/2022 - 12/5/2024	1.7 - 33.0	3.8	13.5	Y
639	Approved	3/7/2022 - 12/5/2024	1.7 - 17.0	2.9	7.0	Y
758	Approved	3/7/2022 - 12/5/2024	1.7 - 170.0	4.5	24.5	Y
858	Approved	3/7/2022 - 12/5/2024	1.7 - 33.0	2.8	7.3	Y
129	Conditionally Approved	3/7/2022 - 12/5/2024	1.7 - 240.0	8.8	63.6	N
614	Conditionally Approved	3/7/2022 - 12/5/2024	1.7 - 1600.0	13.5	136.5	N
114	Prohibited	3/7/2022 - 12/5/2024	1.7 - 17.0	3.3	9.1	Y
115	Prohibited	3/7/2022 - 12/5/2024	1.7 - 17.0	2.7	6.3	Y
122	Prohibited	3/7/2022 - 12/5/2024	1.7 - 17.0	3.1	8.0	Y
124	Prohibited	3/7/2022 - 12/5/2024	1.7 - 7.8	2.0	3.0	Y

The standard for Approved shellfish growing waters is a 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. Conditionally Approved stations with various data sorts. The same date range is used for all sorts.

Station	Classification	Date Range	Number of samples	Range (FC/100mL)	Geometric Mean (FC/100mL)	E90th (FC/100 mL)	Meets Standard
Open period (October through May) with rainfall sort (does not include data collected 0-4 days after rainfall event of 1 inch or greater in 24 hours)							
129	Conditionally Approved	12/26/2019 - 12/5/2024	30	1.7 - 240.0	5.7	34.4	Y
614	Conditionally Approved	12/26/2019 - 12/5/2024	30	1.7 - 350.0	6.3	40.8	Y
Unsorted							
129	Conditionally Approved	12/26/2019 - 12/5/2024	55	1.7 - 350.0	8.9	67.5	N
614	Conditionally Approved	12/26/2019 - 12/5/2024	55	1.7 - 1600.0	14.1	126.9	N
Rainfall sorted only							
129	Conditionally Approved	12/26/2019 - 12/5/2024	49	1.7 - 350.0	8.1	60.3	N
614	Conditionally Approved	12/26/2019 - 12/5/2024	49	1.7 - 1600.0	14.1	130.4	N
Open period not sorted for rainfall							
129	Conditionally Approved	12/26/2019 - 12/5/2024	36	1.7 - 240.0	7.0	47.1	N
614	Conditionally Approved	12/26/2019 - 12/5/2024	36	1.7 - 350.0	7.2	49.5	N
Closed period (June through September)							
129	Conditionally Approved	12/26/2019 - 12/5/2024	19	1.7 - 350.0	14.1		
614	Conditionally Approved	12/26/2019 - 12/5/2024	19	2.0 - 1600.0	50.3		

TABLE 3. Marine Water Data Summary during Open Status for Threatened Stations in Oakland Bay

Station: 129

Classification: Conditionally Approved

Method: SRS

Includes data for rainfall amounts 0-.99 on days 0-4 previous to the sampling event.

Total Samples: 30 Range (FC/100 mL): 1.7 - 240.0 GeoMean (FC/100 mL): 5.7				Date Range: 12/26/2019 - 12/05/2024 E90th (FC/100 mL): 34.4 Meets Standard: Y		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
12/26/2019	Regulatory	10:17	Ebb	7	14	17.0
02/13/2020	Regulatory	10:50	Ebb	8	8	11.0
03/02/2020	Regulatory	10:37	Flood	8	12	1.7
04/13/2020	Regulatory	11:31	Ebb	13	20	1.7
05/26/2020	Regulatory	09:55	Ebb	14	11	130.0
10/07/2020	Regulatory	10:22	Flood	17	19	2.0
12/07/2020	Regulatory	12:05	Flood	9	16	2.0
03/31/2021	Regulatory	09:49	Ebb	10	17	1.7
04/15/2021	Regulatory	09:38	Ebb	11	21	1.7
05/27/2021	Regulatory	08:54	Ebb	15	16	13.0
12/07/2021	Regulatory	10:11	Ebb	10	11	2.0
02/07/2022	Regulatory	10:43	Flood	8	17	4.0
03/07/2022	Regulatory	10:04	Ebb	8	11	2.0
05/04/2022	Regulatory	09:16	Ebb	12	18	1.7
10/13/2022	Regulatory	10:27	Flood	15	25	13.0
12/19/2022	Regulatory	12:11	Flood	5	8	7.8
01/25/2023	Regulatory	11:00	Ebb	8	15	2.0
02/07/2023	Regulatory	10:13	Ebb	8	7	7.8
03/14/2023	Regulatory	10:36	Flood	7	11	1.7
04/11/2023	Regulatory	10:10	Ebb	9	10	7.8
05/09/2023	Regulatory	10:13	Ebb	14	5	46.0
10/17/2023	Regulatory	10:09	Ebb	15	22	17.0
11/01/2023	Regulatory	11:15	Ebb	11	21	1.7
01/02/2024	Regulatory	11:23	Flood	8	16	1.7
02/13/2024	Regulatory	10:07	Ebb	8	20	1.7
03/12/2024	Regulatory	10:15	Ebb	8	14	11.0
04/01/2024	Regulatory	10:56	Ebb	12	18	2.0
05/13/2024	Regulatory	10:14	Flood	16	8	240.0
11/06/2024	Regulatory	10:39	Ebb	11	20	7.8
12/05/2024	Regulatory	10:45	Ebb	8	18	46.0

Station: 614

Classification: Conditionally Approved

Method: SRS

Includes data for rainfall amounts 0-.99 on days 0-4 previous to the sampling event.

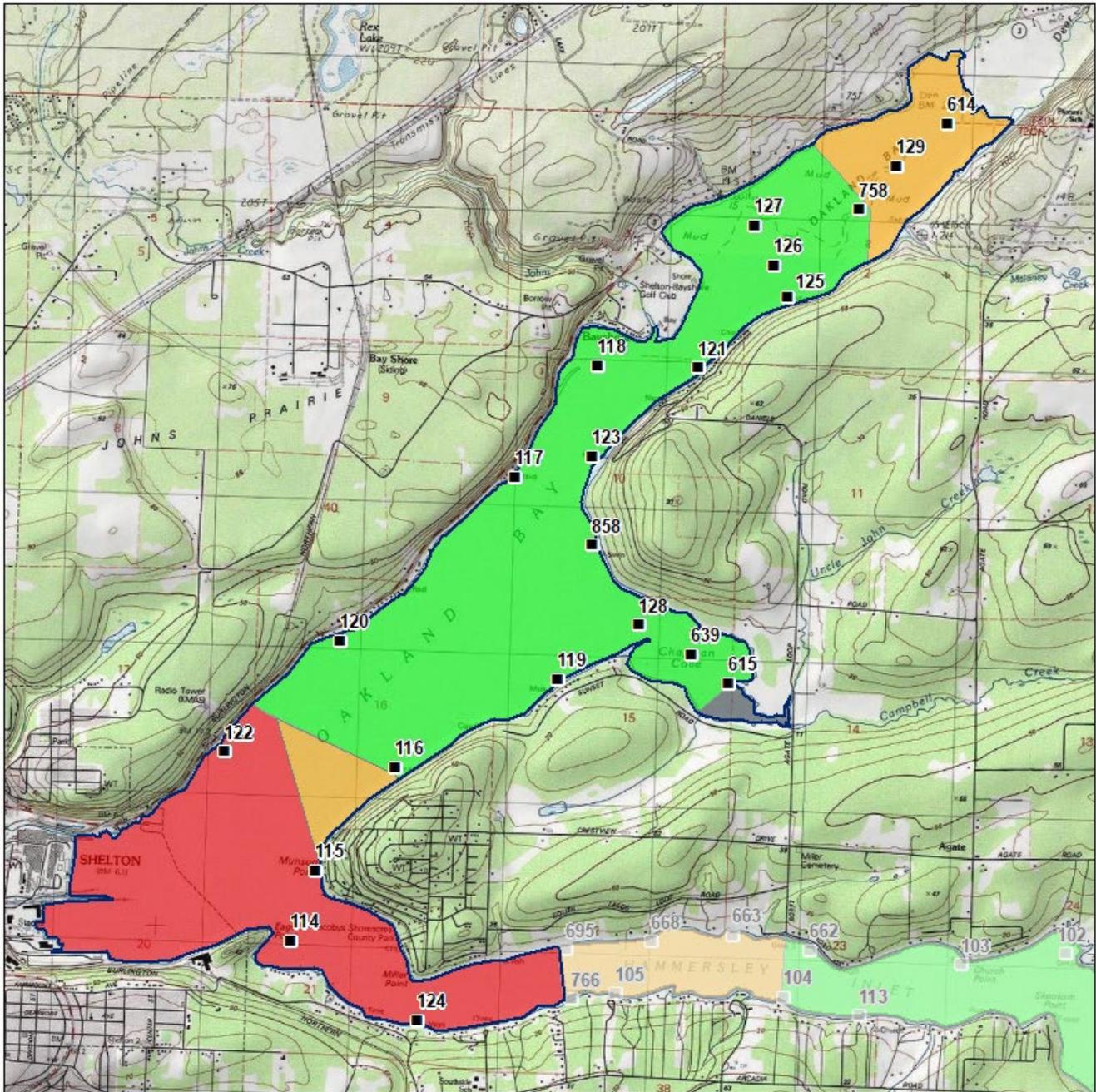
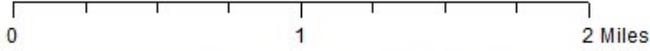
Total Samples: 30				Date Range: 12/26/2019 - 12/05/2024		
Range (FC/100 mL): 1.7 - 350.0				E90th (FC/100 mL): 40.8		
GeoMean (FC/100 mL): 6.3				Meets Standard: Y		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
12/26/2019	Regulatory	10:18	Ebb	7	14	7.8
02/13/2020	Regulatory	10:52	Ebb	8	6	7.8
03/02/2020	Regulatory	10:40	Flood	7	4	1.7
04/13/2020	Regulatory	11:33	Ebb	12	6	1.7
05/26/2020	Regulatory	09:57	Ebb	15	14	33.0
10/07/2020	Regulatory	10:23	Flood	16	18	2.0
12/07/2020	Regulatory	12:06	Flood	9	14	2.0
03/31/2021	Regulatory	09:50	Ebb	10	17	2.0
04/15/2021	Regulatory	09:39	Ebb	11	16	2.0
05/27/2021	Regulatory	08:55	Ebb	14	13	130.0
12/07/2021	Regulatory	10:13	Ebb	10	16	4.5
02/07/2022	Regulatory	10:45	Flood	8	6	13.0
03/07/2022	Regulatory	10:06	Ebb	8	14	1.7
05/04/2022	Regulatory	09:18	Ebb	13	19	1.7
10/13/2022	Regulatory	10:28	Flood	15	24	4.5
12/19/2022	Regulatory	12:13	Flood	5	12	1.7
01/25/2023	Regulatory	11:02	Ebb	8	11	1.7
02/07/2023	Regulatory	10:15	Ebb	8	7	49.0
03/14/2023	Regulatory	10:37	Flood	7	10	2.0
04/11/2023	Regulatory	10:11	Ebb	9	5	6.8
05/09/2023	Regulatory	10:14	Ebb	14	6	23.0
10/17/2023	Regulatory	10:10	Ebb	15	19	23.0
11/01/2023	Regulatory	11:17	Ebb	11	22	4.5
01/02/2024	Regulatory	11:24	Flood	8	20	2.0
02/13/2024	Regulatory	10:10	Ebb	8	18	1.7
03/12/2024	Regulatory	10:16	Ebb	8	6	22.0
04/01/2024	Regulatory	10:58	Ebb	12	4	23.0
05/13/2024	Regulatory	10:16	Flood	15	4	350.0
11/06/2024	Regulatory	10:40	Ebb	11	21	17.0
12/05/2024	Regulatory	10:47	Ebb	8	23	2.0

MAP 1. Oakland Bay Growing Area

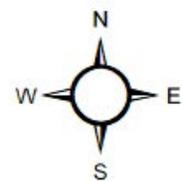
Oakland Bay



Date Updated: 2/14/2025



Classification		Sampling Stations
	Approved	
	Conditional	
	Prohibited	
	Restricted	
	Unclassified	



* Some sampling stations are highlighted with grey box for ease of reading.