

Skagit Bay South

Annual Shellfish Growing Area Review



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Area: Skagit Bay South

Year Ending: December 31, 2019

Classification: Approved, Prohibited

Activities in the Growing Area in 2019

The growing area was sampled six times in accordance with National Shellfish Sanitation Program (NSSP) Systematic Random Sampling criteria.

Snohomish County received EPA National Estuary Program (NEP) funds for pollution identification and correction work in the lower Stillaguamish River watershed. The County also received NEP funds for on-site septic system operation and maintenance incentives, workshops, and grants. The Stillaguamish Clean Water District continued working in the watershed.

Analytical Results of Water Samples

Table 1 summarizes results of the 30 most recent samples collected from each of the sampling stations. All stations meet the NSSP standard for their respective classifications. Station 192 is categorized as Threatened with an estimated 90th percentile of 30.2 FC/100mL. Stations 180, 184, 185, and 179 have a Concerned status. Table 2 shows the most recent 30 samples for Station 192.

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

The area is correctly classified.

TABLE 1. Summary of Marine Water Data (SRS) for Skagit Bay South 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
180	Approved	2/17/2015 - 11/5/2019	1.7 - 79.0	5.6	22.0	Y
183	Approved	2/17/2015 - 11/5/2019	1.7 - 27.0	3.6	10.3	Y
184	Approved	2/17/2015 - 11/5/2019	1.7 - 110.0	4.8	20.0	Y
185	Approved	2/17/2015 - 11/5/2019	1.7 - 33.0	5.5	23.0	Y
186	Approved	2/17/2015 - 11/5/2019	1.7 - 79.0	4.2	16.3	Y
187	Approved	2/17/2015 - 11/5/2019	1.7 - 49.0	2.9	7.8	Y
188	Approved	2/17/2015 - 11/5/2019	1.7 - 17.0	2.7	6.8	Y
189	Approved	2/17/2015 - 11/5/2019	1.7 - 11.0	2.3	4.5	Y
190	Approved	2/17/2015 - 11/5/2019	1.7 - 70.0	3.5	11.4	Y
191	Approved	2/17/2015 - 11/5/2019	1.7 - 22.0	2.3	5.3	Y
192	Approved	9/16/2014 - 11/5/2019	1.7 - 110.0	7.1	30.2	Y
269	Approved	2/17/2015 - 11/5/2019	1.7 - 79.0	3.8	13.5	Y
341	Approved	2/17/2015 - 11/5/2019	1.7 - 7.8	2.0	3.1	Y
179	Prohibited	8/19/2014 - 11/5/2019	1.7 - 23.0	5.9	20.3	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 – Threatened Station in Skagit Bay South Growing Area

Station: 192

Classification: Approved

Method: SRS

Total Samples: 30**Range (FC/100 mL): 1.7 - 110.0****GeoMean (FC/100 mL): 7.1****Date Range: 09/16/2014 - 11/05/2019****E90th (FC/100 mL): 30.2****Meets Standard: Y**

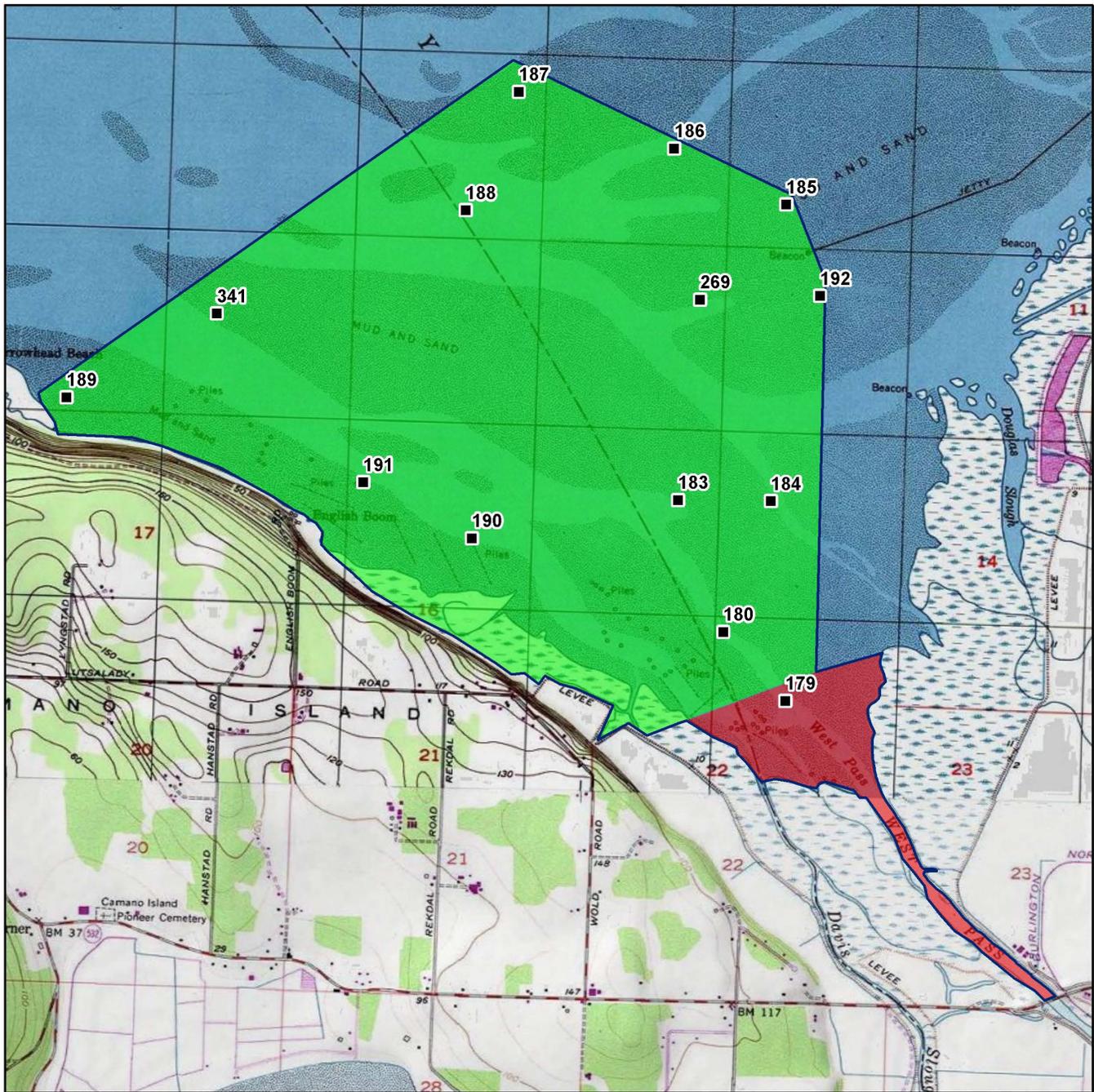
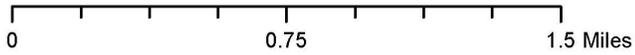
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
09/16/2014	Regulatory	13:29	Ebb	16	22	4.5
02/17/2015	Regulatory	13:48	Flood	9	10	1.8
06/10/2015	Regulatory	11:51	Flood	19	8	23.0
07/23/2015	Regulatory	12:57	Ebb	21	8	23.0
08/06/2015	Regulatory	10:05	Flood	17	22	4.5
09/21/2015	Regulatory	13:43	Ebb	16	8	110.0
10/21/2015	Regulatory	12:07	Flood	14	20	2.0
02/29/2016	Regulatory	10:58	Ebb	9	16	2.0
03/30/2016	Regulatory	10:17	Ebb	11	10	11.0
05/04/2016	Regulatory	14:44	Flood	14	5	17.0
07/27/2016	Regulatory	12:17	Flood	19	6	49.0
09/22/2016	Regulatory	10:04	Flood	15	16	6.8
11/21/2016	Regulatory	10:41	Flood	10	6	13.0
01/05/2017	Regulatory	09:52	Flood	4	12	4.5
03/07/2017	Regulatory	13:39	Ebb	6	18	1.7
04/04/2017	Regulatory	08:41	Flood	9	2	2.0
06/27/2017	Regulatory	08:38	Ebb	16	6	49.0
09/26/2017	Regulatory	08:58	Flood	14	18	4.0
12/27/2017	Regulatory	10:34	Flood	6	19	13.0
02/27/2018	Regulatory	12:23	Flood	6	13	2.0
06/11/2018	Regulatory	17:30	Ebb	16	6	4.5
08/09/2018	Regulatory	16:20	Flood	19	14	7.8
10/30/2018	Regulatory	12:37	Ebb	11	17	13.0
12/18/2018	Regulatory	12:56	Flood	9	22	13.0
01/29/2019	Regulatory	12:44	Ebb	5	6	4.5
05/01/2019	Regulatory	15:56	Flood	14	16	1.7
07/22/2019	Regulatory	08:52	Flood	18	7	7.8
08/27/2019	Regulatory	14:50	Flood	18	18	4.5
09/18/2019	Regulatory	08:25	Flood	14	18	22.0
11/05/2019	Regulatory	12:21	Flood	10	21	2.0

MAP 1. Skagit Bay South Growing Area

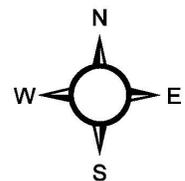
 South Skagit Bay

 Washington State Department of Health

Date Updated: 7/11/2018



Classification	Sampling Stations
 Approved	
 Conditional	
 Prohibited	
 Restricted	
 Unclassified	



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