

Skagit Bay South

Annual Shellfish Growing Area Review



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Area: Skagit Bay South

Year Ending: December 31, 2021

Classification: Approved, Prohibited

Activities in the Growing Area in 2021

The growing area was sampled six times in accordance with National Shellfish Sanitation Program (NSSP) Systematic Random Sampling criteria. A routine shoreline survey was conducted, and no Direct or Indirect Impacts were identified. The Stanwood WWTP was evaluated in May and no changes to the Prohibited area were recommended. The growing area was closed for 10 days in November due to flooding on the Skagit River.

Snohomish County and local partners continued working in the Stillaguamish River watershed using National Estuary Program (NEP) grant funds for on-site septic system operations and maintenance incentives and pollution identification and control projects. The Skagit Conservation District and WSU Extension are using NEP grant funds to continue their education, outreach, and technical assistance program for agricultural landowners in the area.

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 NSSP standards. Stations 185 and 192 are categorized as Threatened with respective estimated 90th percentiles of 30.6 and 28.4 FC/100mL. Stations 179, 180, and 184 are Concerned. Station 179 is classified as Prohibited; however, this station holds the sanitary line with the Approved portion of the growing area. Table 2 includes individual sample results for stations 185 and 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

Table 1 shows that all stations meet the NSSP water quality standard for an Approved classification and the area is correctly classified.

TABLE 1. Summary of Marine Water Data (SRS) for the 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	11/21/2016 - 11/30/2021	1.7 - 49.0	5.4	20.1	Y
183	Approved	11/21/2016 - 11/30/2021	1.7 - 33.0	3.9	12.0	Y
184	Approved	11/21/2016 - 11/30/2021	1.7 - 49.0	4.7	20.1	Y
185	Approved	11/21/2016 - 11/30/2021	1.7 - 130.0	6.1	30.6	Y
186	Approved	11/21/2016 - 11/30/2021	1.7 - 33.0	4.6	17.8	Y
187	Approved	11/21/2016 - 11/30/2021	1.7 - 49.0	3.3	11.6	Y
188	Approved	11/21/2016 - 11/30/2021	1.7 - 17.0	2.9	8.3	Y
189	Approved	11/21/2016 - 11/30/2021	1.7 - 79.0	2.6	7.6	Y
190	Approved	11/21/2016 - 11/30/2021	1.7 - 70.0	4.5	18.0	Y
191	Approved	11/21/2016 - 11/30/2021	1.7 - 23.0	2.6	5.8	Y
192	Approved	9/22/2016 - 11/30/2021	1.7 - 49.0	7.6	28.4	Y
269	Approved	11/21/2016 - 11/30/2021	1.7 - 79.0	4.3	16.8	Y
341	Approved	11/21/2016 - 11/30/2021	1.7 - 17.0	2.4	5.2	Y
179	Prohibited	9/22/2016 - 11/30/2021	1.7 - 79.0	5.9	24.5	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 for the Threatened Station in Skagit Bay South

Station: 185

Classification: Approved

Method: SRS

Total Samples: 30 Range (FC/100 mL): 1.7 - 130.0 GeoMean (FC/100 mL): 6.1				Date Range: 11/21/2016 - 11/30/2021 E90th (FC/100 mL): 30.6 Meets Standard: Y		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
11/21/2016	Regulatory	10:43	Flood	9	5	17.0
01/05/2017	Regulatory	09:55	Flood	2	12	4.5
03/07/2017	Regulatory	13:41	Ebb	6	15	4.5
04/04/2017	Regulatory	08:47	Flood	9	0	27.0
06/27/2017	Regulatory	08:41	Ebb	16	7	23.0
09/26/2017	Regulatory	09:01	Flood	14	20	2.0
12/27/2017	Regulatory	10:36	Flood	6	20	7.8
02/27/2018	Regulatory	12:29	Flood	6	12	2.0
04/09/2018	Regulatory	12:22	Flood	9	1	4.0
06/11/2018	Regulatory	17:34	Ebb	17	4	2.0
08/09/2018	Regulatory	16:25	Flood	19	20	1.7
10/30/2018	Regulatory	12:49	Ebb	11	17	13.0
12/18/2018	Regulatory	13:00	Flood	9	24	4.5
01/29/2019	Regulatory	12:47	Ebb	5	5	1.7
05/01/2019	Regulatory	16:01	Flood	14	17	1.7
07/22/2019	Regulatory	08:56	Flood	18	18	1.7
08/27/2019	Regulatory	14:54	Flood	18	20	2.0
09/18/2019	Regulatory	08:29	Flood	14	18	17.0
11/05/2019	Regulatory	12:25	Flood	10	21	2.0
02/18/2020	Regulatory	12:38	Flood	6	0	1.7
06/30/2020	Regulatory	14:01	Flood	15	1	11.0
08/27/2020	Regulatory	13:35	Flood	18	16	2.0
10/12/2020	Regulatory	13:02	Flood	12	13	130.0
12/21/2020	Regulatory	11:34	Ebb	7	7	13.0
01/05/2021	Regulatory	11:23	Ebb	7	11	33.0
03/08/2021	Regulatory	12:28	Flood	7	2	2.0
05/18/2021	Regulatory	10:06	Ebb	11	0	33.0
07/06/2021	Regulatory	17:32	Flood	19	2	1.7
09/14/2021	Regulatory	12:41	Flood	15	9	23.0
11/30/2021	Regulatory	12:16	Flood	9	2	33.0

TABLE 2 Continued

Station: 192

Classification: Approved

Method: SRS

Total Samples: 30 Range (FC/100 mL): 1.7 - 49.0 GeoMean (FC/100 mL): 7.6				Date Range: 9/22/2016 - 11/30/2021 E90th (FC/100 mL): 28.4 Meets Standard: Y		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
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
02/18/2020	Regulatory	12:34	Flood	6	0	4.5
06/30/2020	Regulatory	13:57	Flood	15	2	49.0
08/27/2020	Regulatory	13:30	Flood	18	15	4.5
10/12/2020	Regulatory	13:00	Flood	12	8	33.0
12/21/2020	Regulatory	11:30	Ebb	7	5	17.0
01/05/2021	Regulatory	11:20	Ebb	7	12	13.0
03/08/2021	Regulatory	12:24	Flood	7	5	1.7
05/18/2021	Regulatory	10:04	Ebb	11	1	26.0
07/06/2021	Regulatory	17:28	Flood	19	1	4.0
09/14/2021	Regulatory	12:37	Flood	15	11	33.0
11/30/2021	Regulatory	12:12	Flood	9	0	13.0

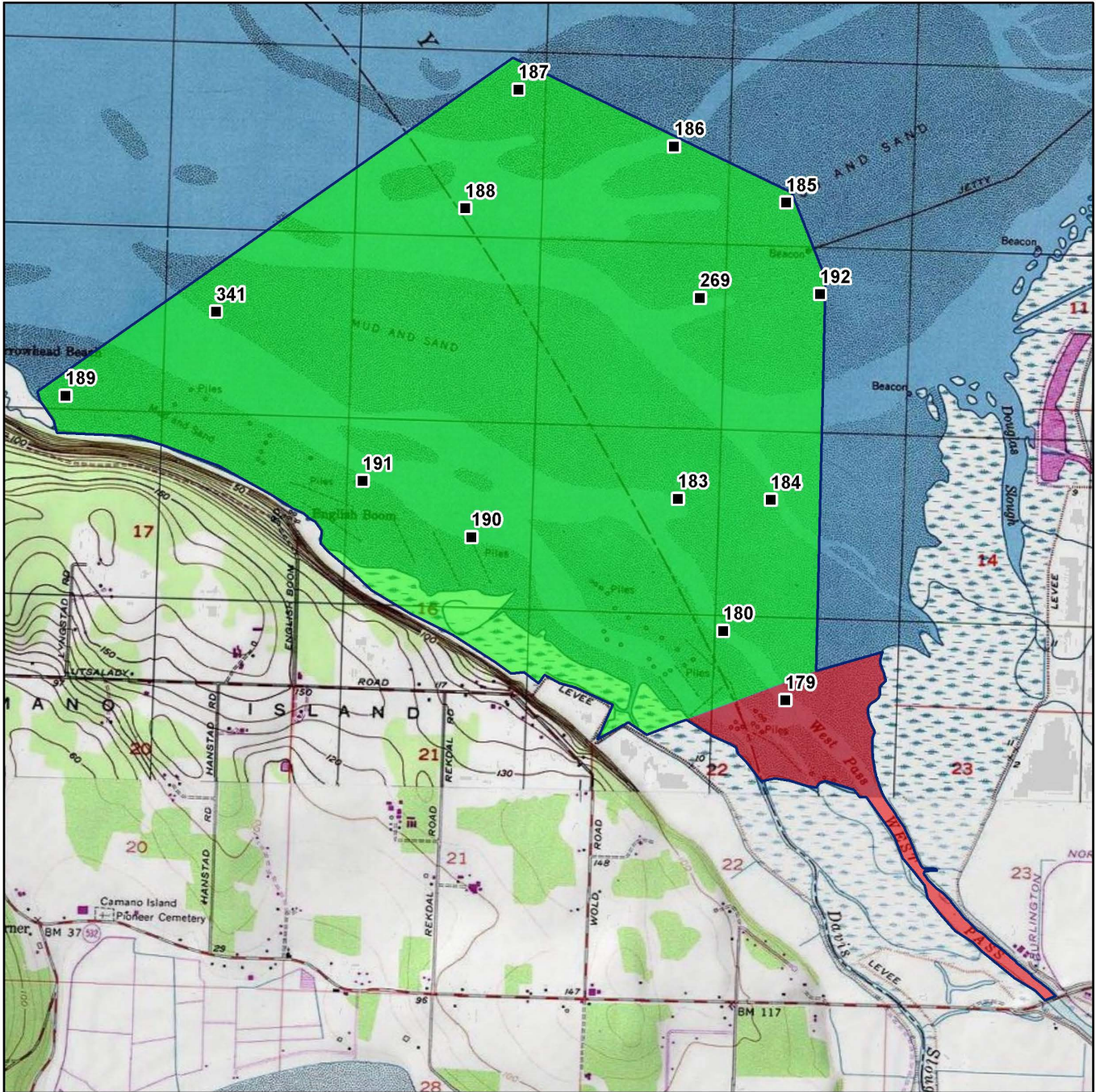
MAP 1. Skagit Bay South Growing Area

South Skagit Bay



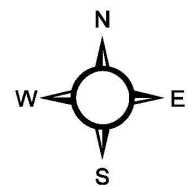
Date Updated: 7/11/2018

0 0.75 1.5 Miles



- Classification**
- Approved
 - Conditional
 - Prohibited
 - Restricted
 - Unclassified

Sampling Stations



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