

Hood Canal 6

Annual Shellfish Growing Area Review



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Area: Hood Canal 6

Year Ending: December 31, 2021

Classification: Approved, Conditionally Approved, Prohibited

Activities in the Growing Area in 2021

The growing area was sampled a minimum of six times in accordance with National Shellfish Sanitation Program (NSSP) Systematic Random Sampling (SRS) criteria. The Alderbrook Marina Conditionally Approved area was closed from May 1 through September 30 due to boating activities. Station 291 was sampled three times in Open status.

In January, the Department changed the classification of the Hoodsport portion of the growing area (stations 316 – 320) from Prohibited to Approved due to repaired and replaced onsite sewage systems and improved freshwater water quality.

The Hood Canal Coordinating Council received EPA National Estuary Program funds to implement the Hood Canal Regional PIC Plan.

Analytical Results of Water Samples

Table 1 summarizes the most recent 30 samples collected from each of the sampling stations. All stations meet NSSP criteria. Stations 217, 225, and 230 are Threatened with estimated 90th percentiles of 39.7, 30.5, and 38.7 FC/100mL, respectively. Stations 192, 218, 309, and 316 have a Concerned status. Table 2 includes the last 30 individual sample results for stations 217, 225, and 230.

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.

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 Hood Canal 6 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
192	Approved	3/23/2017 - 12/8/2021	1.7 - 920.0	3.3	20.2	Y
207	Approved	3/23/2017 - 12/8/2021	1.7 - 49.0	2.7	8.4	Y
209	Approved	3/23/2017 - 12/8/2021	1.7 - 70.0	3.2	12.2	Y
210	Approved	3/23/2017 - 12/8/2021	1.7 - 79.0	3.0	11.1	Y
212	Approved	8/1/2017 - 12/8/2021	1.7 - 240.0	3.0	12.7	Y
213	Approved	8/1/2017 - 12/8/2021	1.7 - 49.0	4.4	17.4	Y
214	Approved	8/1/2017 - 12/8/2021	1.7 - 49.0	2.9	9.7	Y
215	Approved	3/23/2017 - 12/8/2021	1.7 - 240.0	3.6	17.3	Y
216	Approved	3/23/2017 - 12/8/2021	1.7 - 350.0	3.7	18.4	Y
217	Approved	3/23/2017 - 12/8/2021	1.7 - 540.0	6.3	39.7	Y
218	Approved	3/23/2017 - 12/8/2021	1.7 - 130.0	4.2	20.5	Y
219	Approved	3/23/2017 - 12/8/2021	1.7 - 49.0	3.0	9.9	Y
220	Approved	3/23/2017 - 12/8/2021	1.7 - 49.0	2.5	7.2	Y
221	Approved	3/23/2017 - 12/8/2021	1.7 - 13.0	2.2	4.4	Y
222	Approved	3/23/2017 - 12/8/2021	1.7 - 170.0	3.1	13.5	Y
223	Approved	4/19/2017 - 12/8/2021	1.7 - 240.0	3.1	17.0	Y
224	Approved	3/23/2017 - 12/8/2021	1.7 - 350.0	2.8	11.9	Y
225	Approved	3/23/2017 - 12/8/2021	1.7 - 350.0	4.2	30.5	Y
226	Approved	3/23/2017 - 12/8/2021	1.7 - 350.0	2.7	11.0	Y
227	Approved	3/23/2017 - 12/8/2021	1.7 - 140.0	2.8	13.3	Y
228	Approved	3/23/2017 - 12/8/2021	1.7 - 79.0	2.6	8.3	Y
229	Approved	3/23/2017 - 12/8/2021	1.7 - 79.0	2.8	10.0	Y
230	Approved	3/23/2017 - 12/8/2021	1.7 - 920.0	4.6	38.7	Y
231	Approved	3/23/2017 - 12/8/2021	1.7 - 240.0	3.3	14.6	Y
232	Approved	3/23/2017 - 12/8/2021	1.7 - 79.0	3.1	10.3	Y
233	Approved	10/18/2016 - 12/8/2021	1.7 - 120.0	2.5	9.1	Y
292	Approved	3/7/2018 - 12/8/2021	1.7 - 70.0	3.5	15.5	Y
298	Approved	3/23/2017 - 12/8/2021	1.7 - 130.0	2.9	10.6	Y
309	Approved	2/7/2018 - 12/8/2021	1.7 - 240.0	3.6	22.1	Y
316	Approved	4/19/2017 - 12/8/2021	1.7 - 170.0	4.7	22.2	Y
317	Approved	4/19/2017 - 12/8/2021	1.7 - 23.0	2.3	5.2	Y
318	Approved	4/19/2017 - 12/8/2021	1.7 - 240.0	3.6	17.9	Y
319	Approved	4/19/2017 - 12/8/2021	1.7 - 240.0	3.1	14.0	Y
320	Approved	4/19/2017 - 12/8/2021	1.7 - 1600.0	3.1	18.4	Y
291	Conditionally Approved	3/7/2018 - 12/8/2021	1.7 - 170.0	2.9	11.2	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. Marine Water Quality Summary for the Threatened Stations in Hood Canal 6

Station: 217

Classification: Approved

Method: SRS

Total Samples: 30 Range (FC/100 mL): 1.7 - 540.0 GeoMean (FC/100 mL): 6.3				Date Range: 03/23/2017 - 12/08/2021 E90th (FC/100 mL): 39.7 Meets Standard: Y		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
03/23/2017	Regulatory	12:26	Flood	10	7	1.7
04/19/2017	Regulatory	12:01	Ebb	11	10	7.8
06/14/2017	Regulatory	10:17	Ebb	14	8	33.0
08/01/2017	Regulatory	16:13	Ebb	24	22	1.7
10/26/2017	Regulatory	12:07	Ebb	12	20	1.7
12/05/2017	Regulatory	13:26	Flood	7	2	2.0
01/29/2018	Regulatory	13:08	Flood	8	0	17.0
05/09/2018	Regulatory	13:44	Ebb	16	6	13.0
07/19/2018	Regulatory	12:20	Ebb	19	22	13.0
09/04/2018	Regulatory	14:43	Ebb	20	25	1.7
11/19/2018	Regulatory	14:23	Ebb	8	18	1.7
02/28/2019	Regulatory	10:32	Flood	5	5	1.7
04/15/2019	Regulatory	14:38	Ebb	12	10	1.7
05/09/2019	Regulatory	10:01	Ebb	17	14	23.0
06/27/2019	Regulatory	14:48	Flood	18	24	1.7
08/07/2019	Regulatory	12:56	Ebb	20	25	4.5
10/02/2019	Regulatory	11:19	Ebb	12	21	2.0
12/04/2019	Regulatory	12:36	Ebb	10	27	4.5
01/21/2020	Regulatory	12:42	Flood	7	25	7.8
03/03/2020	Regulatory	11:26	Ebb	9	3	1.7
05/13/2020	Regulatory	11:12	Ebb	14	15	23.0
07/28/2020	Regulatory	11:19	Flood	21	22	13.0
09/08/2020	Regulatory	09:23	Flood	19	26	1.7
11/04/2020	Regulatory	10:09	Ebb	12	15	33.0
02/24/2021	Regulatory	10:46	Flood	8	8	1.7
04/19/2021	Regulatory	09:38	Flood	14	6	9.2
06/29/2021	Regulatory	08:28	Flood	23	19	540.0
08/30/2021	Regulatory	11:45	Flood	17	22	4.5
10/26/2021	Regulatory	10:16	Flood	11	9	79.0
12/08/2021	Regulatory	10:33	Ebb	9	9	13.0

TABLE 2. Continued

Station: 225

Classification: Approved

Method: SRS

Total Samples: 30 Range (FC/100 mL): 1.7 - 350.0 GeoMean (FC/100 mL): 4.2				Date Range: 03/23/2017 - 12/08/2021 E90th (FC/100 mL): 30.5 Meets Standard: Y		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
03/23/2017	Regulatory	12:52	Flood	9	4	2.0
04/19/2017	Regulatory	12:30	Ebb	11	16	1.7
06/14/2017	Regulatory	10:48	Ebb	15	23	6.8
08/01/2017	Regulatory	17:01	Ebb	24	22	7.8
10/26/2017	Regulatory	12:31	Ebb	12	20	110.0
12/05/2017	Regulatory	13:56	Flood	8	4	2.0
01/29/2018	Regulatory	13:34	Flood	9	5	240.0
03/07/2018	Regulatory	13:26	Ebb	8	14	1.7
05/09/2018	Regulatory	14:14	Ebb	15	20	7.8
07/19/2018	Regulatory	12:51	Ebb	20	25	7.8
09/04/2018	Regulatory	15:28	Ebb	18	24	1.7
11/19/2018	Regulatory	14:51	Ebb	6	16	2.0
04/15/2019	Regulatory	15:02	Ebb	12	13	1.7
05/09/2019	Regulatory	10:27	Ebb	17	19	2.0
06/27/2019	Regulatory	15:21	Ebb	18	26	2.0
08/07/2019	Regulatory	13:36	Ebb	20	27	1.7
10/02/2019	Regulatory	11:45	Ebb	12	20	1.7
12/04/2019	Regulatory	13:05	Ebb	10	27	2.0
01/21/2020	Regulatory	13:15	Flood	7	31	1.7
03/03/2020	Regulatory	11:53	Ebb	9	26	1.7
05/13/2020	Regulatory	11:36	Ebb	14	25	1.7
07/28/2020	Regulatory	14:21	Ebb	22	25	1.7
09/08/2020	Regulatory	12:15	Ebb	19	26	2.0
11/04/2020	Regulatory	12:58	Ebb	12	25	4.5
02/24/2021	Regulatory	13:20	Flood	9	14	1.7
04/19/2021	Regulatory	12:23	Ebb	16	16	1.7
06/29/2021	Regulatory	11:10	Ebb	23	23	49.0
08/30/2021	Regulatory	14:26	Ebb	18	27	1.7
10/26/2021	Regulatory	12:57	Ebb	11	2	350.0
12/08/2021	Regulatory	13:10	Ebb	11	25	7.8

TABLE 2. Continued

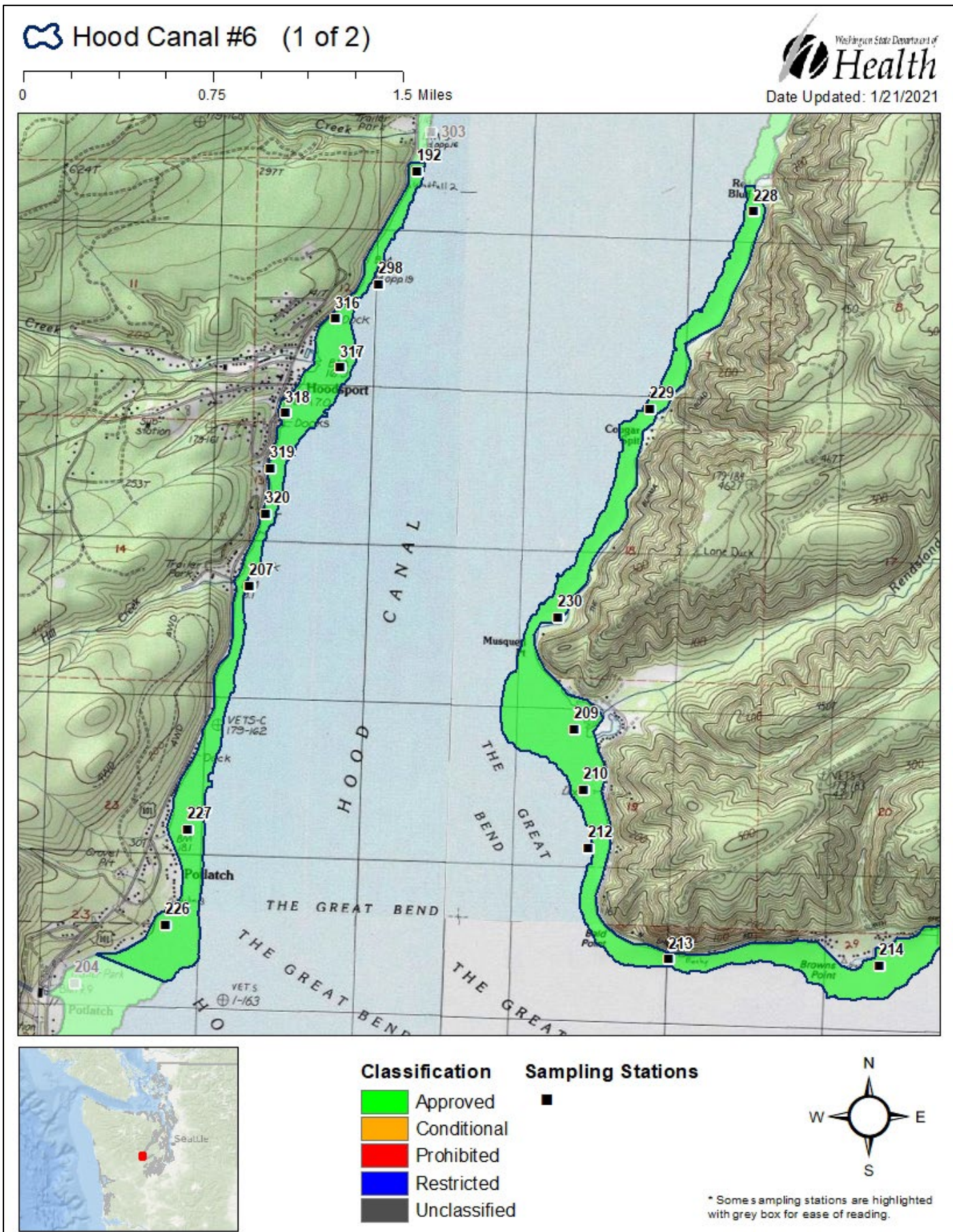
Station: 230

Classification: Approved


Method: SRS

Total Samples: 30 Range (FC/100 mL): 1.7 - 920.0 GeoMean (FC/100 mL): 4.6				Date Range: 03/23/2017 - 12/08/2021 E90th (FC/100 mL): 38.7 Meets Standard: Y		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
03/23/2017	Regulatory	12:05	Flood	9	13	1.7
04/19/2017	Regulatory	11:35	Ebb	10	12	1.7
06/14/2017	Regulatory	09:49	Ebb	15	22	2.0
08/01/2017	Regulatory	15:42	Ebb	23	22	1.7
10/26/2017	Regulatory	11:44	Ebb	12	25	920.0
12/05/2017	Regulatory	12:54	Flood	8	11	7.8
01/29/2018	Regulatory	12:42	Flood	9	11	13.0
03/07/2018	Regulatory	12:30	Ebb	9	24	1.7
05/09/2018	Regulatory	13:13	Flood	15	23	1.7
07/19/2018	Regulatory	11:48	Ebb	18	26	2.0
09/04/2018	Regulatory	14:13	Flood	19	24	1.7
11/19/2018	Regulatory	13:56	Flood	9	22	1.7
04/15/2019	Regulatory	14:13	Flood	12	25	1.7
05/09/2019	Regulatory	09:36	Ebb	16	25	1.7
06/27/2019	Regulatory	14:21	Flood	18	27	1.7
08/07/2019	Regulatory	12:30	Ebb	19	27	1.8
10/02/2019	Regulatory	10:50	Ebb	11	24	1.7
12/04/2019	Regulatory	12:07	Ebb	11	30	4.5
01/21/2020	Regulatory	12:10	Flood	7	30	2.0
03/03/2020	Regulatory	10:50	Ebb	9	28	1.7
05/13/2020	Regulatory	10:48	Ebb	14	28	33.0
07/28/2020	Regulatory	11:46	Flood	20	25	7.8
09/08/2020	Regulatory	09:51	Flood	19	27	1.7
11/04/2020	Regulatory	10:30	Ebb	12	26	49.0
02/24/2021	Regulatory	11:08	Flood	8	18	1.7
04/19/2021	Regulatory	10:04	Ebb	13	21	2.0
06/29/2021	Regulatory	08:51	Flood	23	23	350.0
08/30/2021	Regulatory	12:13	Flood	17	27	1.7
10/26/2021	Regulatory	10:39	Flood	11	16	11.0
12/08/2021	Regulatory	11:00	Ebb	10	24	33.0

MAP 1. Hood Canal 6 Growing Area 1 of 2



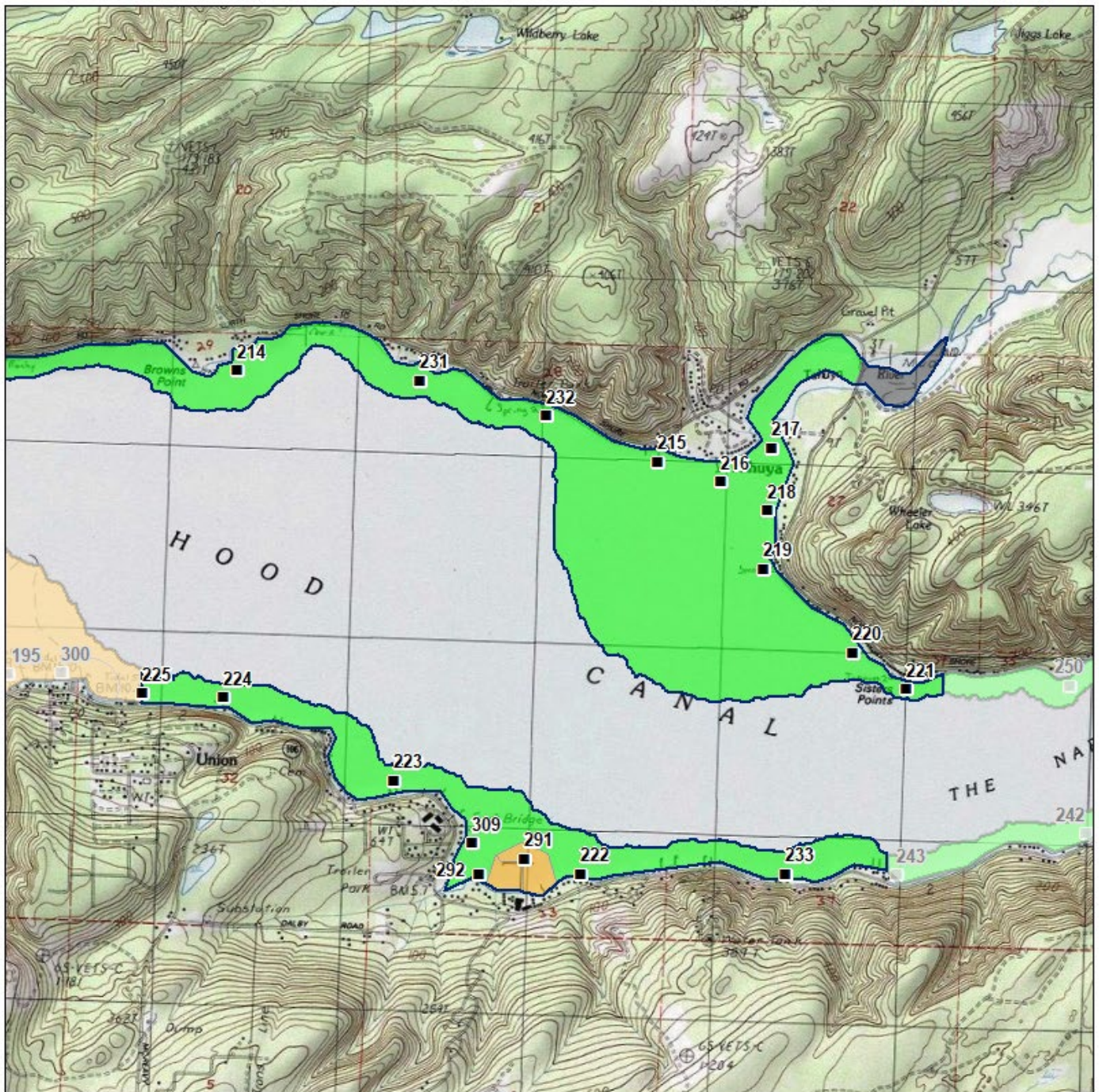
MAP 2. Hood Canal 6 Growing Area 2 of 2

 Hood Canal #6 (2 of 2)



Date Updated: 12/13/2019

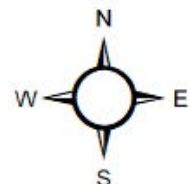
0 0.75 1.5 Miles



Classification

-  Approved
-  Conditional
-  Prohibited
-  Restricted
-  Unclassified

Sampling Stations



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