

Henderson Inlet

Annual Shellfish Growing Area Review



Prepared By: Jean Frost

Area: Henderson Inlet

Year Ending: December 31, 2019

Classification: Approved, Restricted, Prohibited

Activities in the Growing Area in 2019

The growing area was sampled a minimum of six times in accordance with National Shellfish Sanitation Program (NSSP) Systematic Random Sampling criteria. The marine stations near the head of the Inlet were sampled 12 times. A routine shoreline survey of the growing area was completed and no Direct or Indirect Impacts were identified. The growing area was closed once for five days due to 4.31 inches of rainfall recorded in 24 hours at the Olympia Airport rain gauge.

Thurston County Public Health and Social Services Department continues to implement their enhanced on-site septic system operation and maintenance program. In addition, Thurston County received EPA National Estuary Program funds to find and fix fecal pollution in the Dobbs and Fleming Creek watersheds. The Henderson Inlet Shellfish Protection District continues to meet and investigate pollution sources.

Analytical Results of Water Samples

Table 1 summarizes the most recent 30 samples collected from each of the sampling stations. All stations in the Approved and Restricted areas meet the NSSP standard for an Approved classification. Stations 187, 190, and 197 are categorized as Concerned with estimate 90th percentiles of 27.7 FC/100mL, 21.1 FC/100mL, and 21.3 FC/10mL respectively.

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. The Department should continue to collaborate with Thurston County and other Shellfish Protection District members to identify and correct sources of pollution in the Henderson Inlet watershed.

TABLE 1. Summary of Marine Water Data (SRS) Henderson Inlet 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
187	Approved	7/13/2017 - 12/18/2019	1.7 - 110.0	6.8	27.7	Y
190	Approved	7/13/2017 - 12/18/2019	1.7 - 70.0	5.3	21.1	Y
191	Approved	7/13/2017 - 12/18/2019	1.7 - 49.0	3.7	10.6	Y
192	Approved	3/10/2015 - 12/18/2019	1.7 - 33.0	3.7	11.0	Y
193	Approved	3/10/2015 - 12/18/2019	1.7 - 33.0	3.4	9.1	Y
194	Approved	7/13/2017 - 12/18/2019	1.7 - 49.0	3.4	10.7	Y
195	Approved	7/13/2017 - 12/18/2019	1.7 - 49.0	5.5	17.9	Y
196	Approved	8/29/2017 - 12/18/2019	1.7 - 23.0	3.4	9.6	Y
197	Approved	7/13/2017 - 12/18/2019	1.7 - 79.0	5.0	21.3	Y
198	Approved	7/13/2017 - 12/18/2019	1.7 - 21.0	2.7	6.6	Y
199	Approved	7/13/2017 - 12/18/2019	1.7 - 33.0	2.8	7.4	Y
200	Approved	7/13/2017 - 12/18/2019	1.7 - 33.0	3.7	11.0	Y
201	Approved	7/13/2017 - 12/18/2019	1.7 - 13.0	3.2	7.8	Y
202	Approved	3/10/2015 - 12/18/2019	1.7 - 33.0	4.4	16.1	Y
203	Approved	3/10/2015 - 12/18/2019	1.7 - 11.0	2.6	5.6	Y
204	Approved	3/10/2015 - 12/18/2019	1.7 - 11.0	2.2	4.1	Y
205	Approved	3/10/2015 - 12/18/2019	1.7 - 49.0	3.7	11.9	Y
206	Approved	3/10/2015 - 12/18/2019	1.7 - 46.0	2.5	7.0	Y
207	Approved	3/10/2015 - 12/18/2019	1.7 - 13.0	2.2	4.4	Y
208	Approved	3/10/2015 - 12/18/2019	1.7 - 110.0	4.1	18.9	Y
209	Approved	3/10/2015 - 12/18/2019	1.7 - 7.8	2.2	4.0	Y
698	Approved	5/11/2015 - 12/18/2019	1.7 - 6.8	2.0	3.0	Y
723	Approved	5/11/2015 - 12/18/2019	1.7 - 13.0	2.6	5.7	Y
724	Approved	3/10/2015 - 12/18/2019	1.7 - 70.0	4.1	15.0	Y
767	Approved	8/5/2015 - 12/18/2019	1.7 - 13.0	2.1	4.0	Y
825	Approved	8/5/2015 - 12/18/2019	1.7 - 11.0	2.1	3.8	Y
185	Prohibited	7/13/2017 - 12/18/2019	1.7 - 130.0	11.5	59.3	N
186	Prohibited	6/28/2017 - 12/18/2019	1.7 - 130.0	11.5	56.5	N
188	Prohibited	7/13/2017 - 12/18/2019	1.7 - 130.0	13.1	56.1	N
212	Prohibited	7/13/2017 - 12/18/2019	1.7 - 240.0	8.9	42.9	Y
189	Restricted	7/13/2017 - 12/18/2019	1.7 - 110.0	7.6	34.8	Y

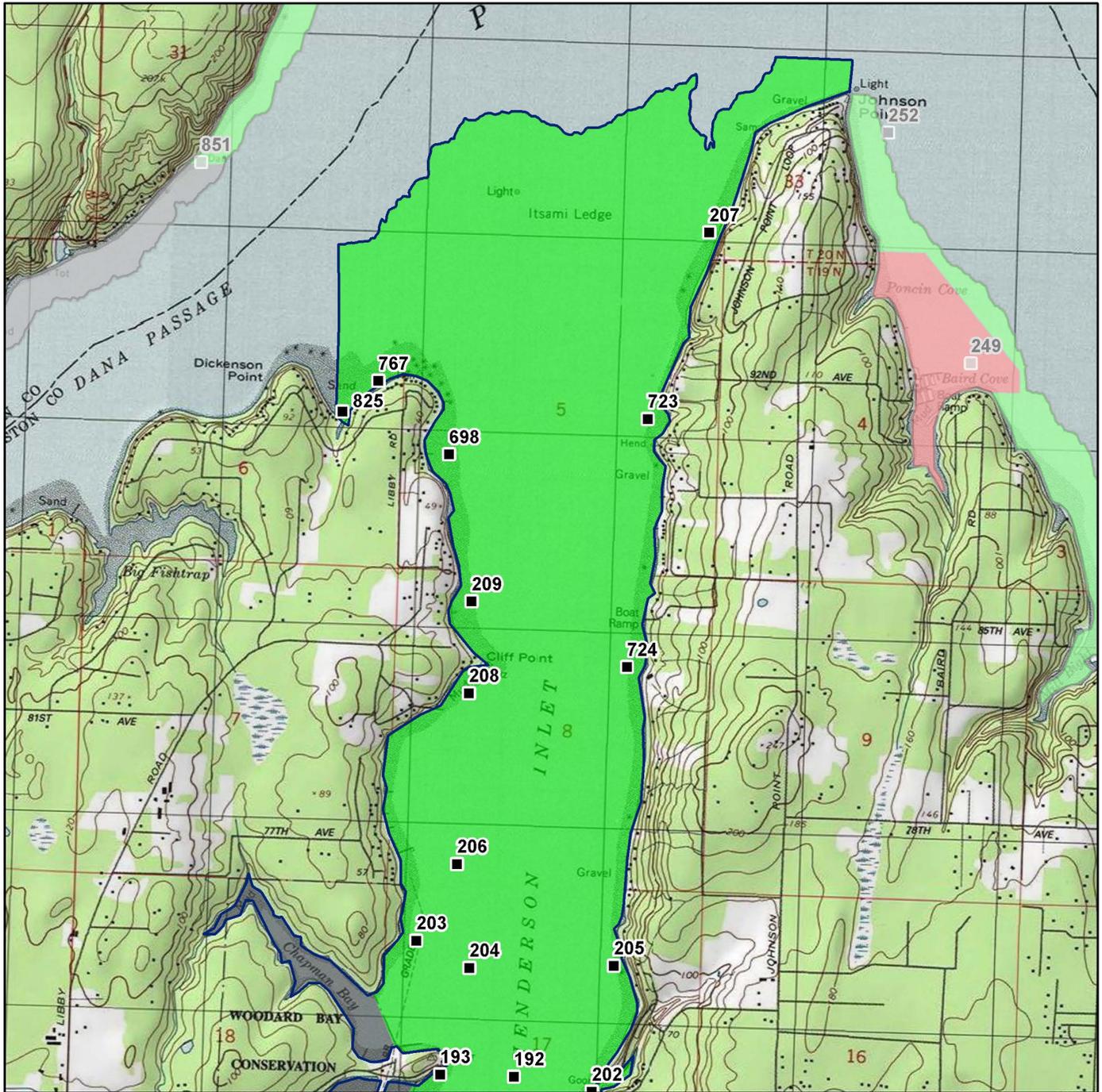
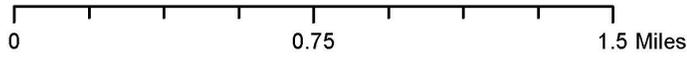
The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/ 100 mL with an estimated 90th percentile not greater than 43 organisms/ 100 mL. The above table shows bacteriological results in relation to program standards.

MAP 1. Henderson Inlet Growing Area 1 of 2

Henderson Inlet (1 of 2)

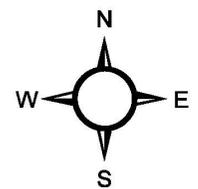


Date Updated: 7/11/2018



Classification	
■	Approved
■	Conditional
■	Prohibited
■	Restricted
■	Unclassified

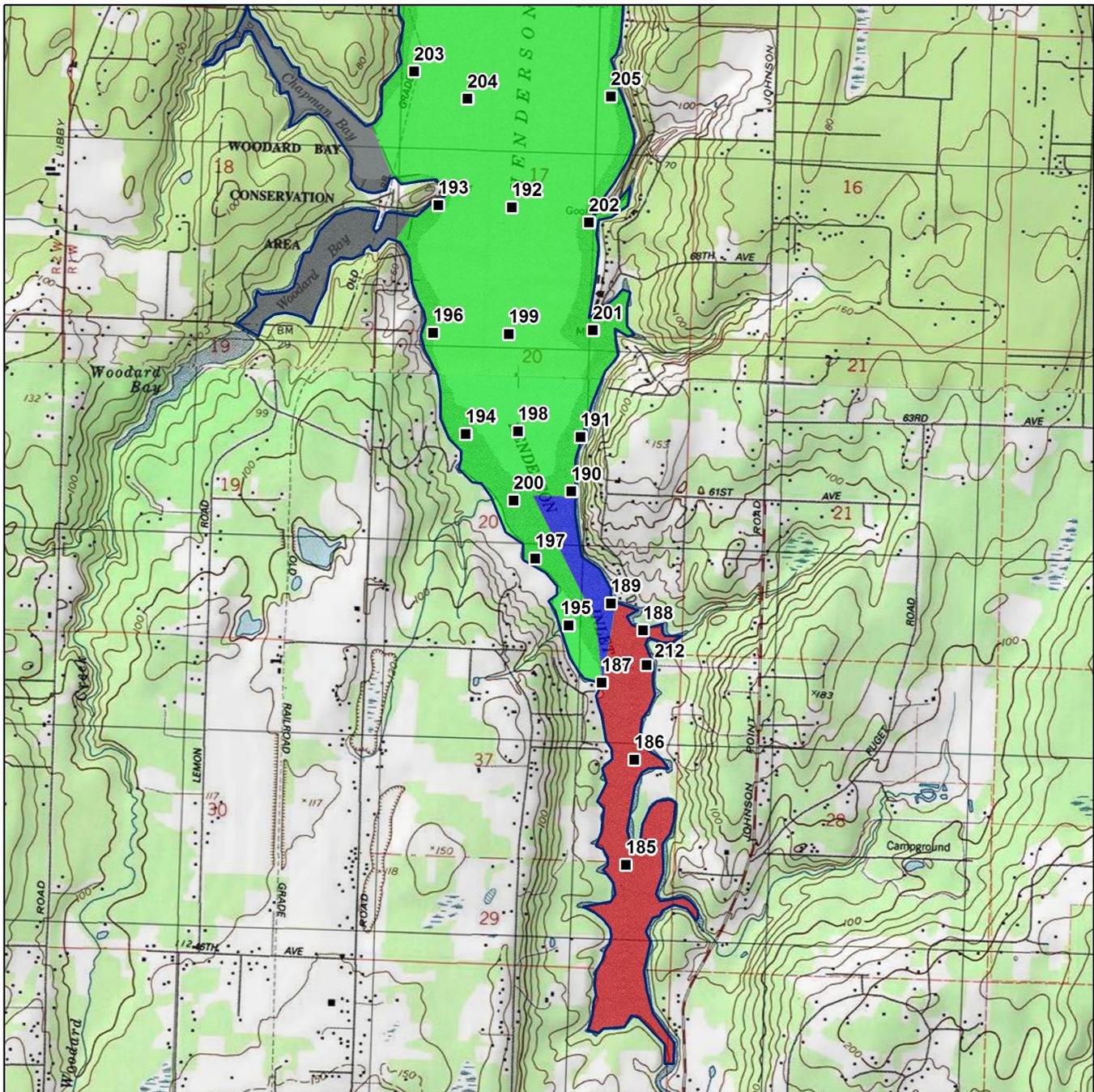
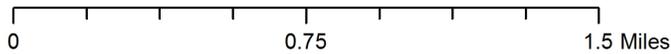
Sampling Stations



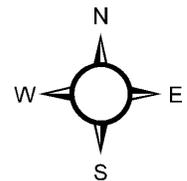
* Some sampling stations are highlighted with grey box for ease of reading.

MAP 2. Henderson Inlet Growing Area 2 of 2

Henderson Inlet (2 of 2)



Classification	Sampling Stations
Approved	■
Conditional	
Prohibited	
Restricted	
Unclassified	



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