

Upright Channel

Annual Shellfish Growing Area Review



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Area: Upright Channel

Year Ending: December 31, 2023

Classification: Approved

Activities in the Growing Area in 2023

The growing area was sampled six times in accordance with the National Shellfish Sanitation Program (NSSP) Systematic Random Sampling criteria. A routine three-year shoreline evaluation was completed, and San Juan Environmental Health and San Juan Conservation District identified evidence of cattle with direct access to a drainage and worked with the livestock operator to implement best management practices including fencing livestock out of a drainage with historic elevated bacteria levels. Post-corrective samples from the drainage had low bacteria levels.

San Juan Islands Conservation District received NEP funds through the Washington State Conservation Commission to provide technical assistance and education and outreach to landowners to promote the implementation of livestock best management practices.

Analytical Results of Water Samples

Table 1 summarizes the results of the last 30 samples collected from the area. This summary shows that all stations meet the NSSP water quality standard. Station 92 is Threatened with an estimated 90th percentile of 28.1 FC/100mL. Table 2 shows Station 92 individual data.

Change in Actual Pollution Sources that Impact the Growing Area

We currently have no information indicating that the area has new sources of pollution.

Classification Status

- Well within the classification standards
- 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 Upright Channel 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
36	Approved	12/11/2018 - 11/15/2023	1.7 - 12.0	1.9	2.9	Y
37	Approved	1/16/2019 - 11/15/2023	1.7 - 49.0	2.0	4.4	Y
38	Approved	1/16/2019 - 11/15/2023	1.7 - 2.0	1.7	1.9	Y
39	Approved	1/16/2019 - 11/15/2023	1.7 - 6.8	1.8	2.5	Y
40	Approved	1/16/2019 - 11/15/2023	1.7 - 2.0	1.7	1.8	Y
41	Approved	1/16/2019 - 11/15/2023	1.7 - 17.0	1.9	3.4	Y
42	Approved	1/16/2019 - 11/15/2023	1.7 - 1.7	1.7	1.7	Y
92	Approved	1/16/2019 - 11/15/2023	1.7 - 540.0	4.3	28.1	Y
94	Approved	1/16/2019 - 11/15/2023	1.7 - 1.7	1.7	1.7	Y
95	Approved	1/16/2019 - 11/15/2023	1.7 - 2.0	1.7	1.8	Y
93	Unclassified	1/16/2019 - 11/15/2023	1.7 - 2500.0	2.4	13.9	Y
100	Unclassified	1/16/2019 - 11/15/2023	1.7 - 4.5	1.8	2.2	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 Data Summary for the Threatened Station in Upright Channel

Station: 92

Classification: Approved

Method: SRS

Total Samples: 30 Range (FC/100 mL): 1.7 - 540.0 GeoMean (FC/100 mL): 4.3				Date Range: 01/16/2019 - 11/15/2023 E90th (FC/100 mL): 28.1 Meets Standard: Y		
Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
01/16/2019	Regulatory	12:32	Ebb	9	28	1.7
03/13/2019	Regulatory	12:59	Ebb	8	28	1.7
05/15/2019	Regulatory	14:14	Flood	12	30	1.7
07/09/2019	Regulatory	12:21	Ebb	13	32	1.7
09/24/2019	Regulatory	12:07	Flood	12	32	13.0
11/20/2019	Regulatory	13:51	Ebb	10	32	1.7
02/05/2020	Regulatory	13:46	Ebb	8	8	540.0
05/19/2020	Regulatory	13:36	Flood	12	32	1.7
06/02/2020	Regulatory	13:35	Flood	11	32	1.7
08/11/2020	Regulatory	13:40	Ebb	14	29	1.7
10/21/2020	Regulatory	11:00	Ebb	10	30	17.0
12/08/2020	Regulatory	13:08	Ebb	9	30	49.0
01/27/2021	Regulatory	12:41	Flood	8	28	6.8
03/24/2021	Regulatory	12:28	Flood	9	27	2.0
05/05/2021	Regulatory	11:52	Flood	10	28	2.0
07/21/2021	Regulatory	14:19	Flood	12	32	4.0
09/29/2021	Regulatory	11:33	Flood	12	31	23.0
11/17/2021	Regulatory	12:54	Flood	10	31	1.7
02/16/2022	Regulatory	12:30	Flood	8	30	1.7
04/13/2022	Regulatory	14:02	Flood	9	31	1.7
06/08/2022	Regulatory	12:38	Ebb	12	32	1.7
08/17/2022	Regulatory	12:38	Ebb	13	32	7.8
10/05/2022	Regulatory	13:34	Flood	12	32	79.0
12/14/2022	Regulatory	12:55	Ebb	9	32	1.7
01/25/2023	Regulatory	12:29	Ebb	9	31	4.5
03/22/2023	Regulatory	12:58	Flood	9	32	1.7
05/17/2023	Regulatory	12:48	Flood	11		1.7
09/20/2023	Regulatory	14:45	Ebb	13	31	1.7
10/18/2023	Regulatory	12:03	Ebb	12	32	23.0
11/15/2023	Regulatory	12:10	Ebb	10	30	1.7

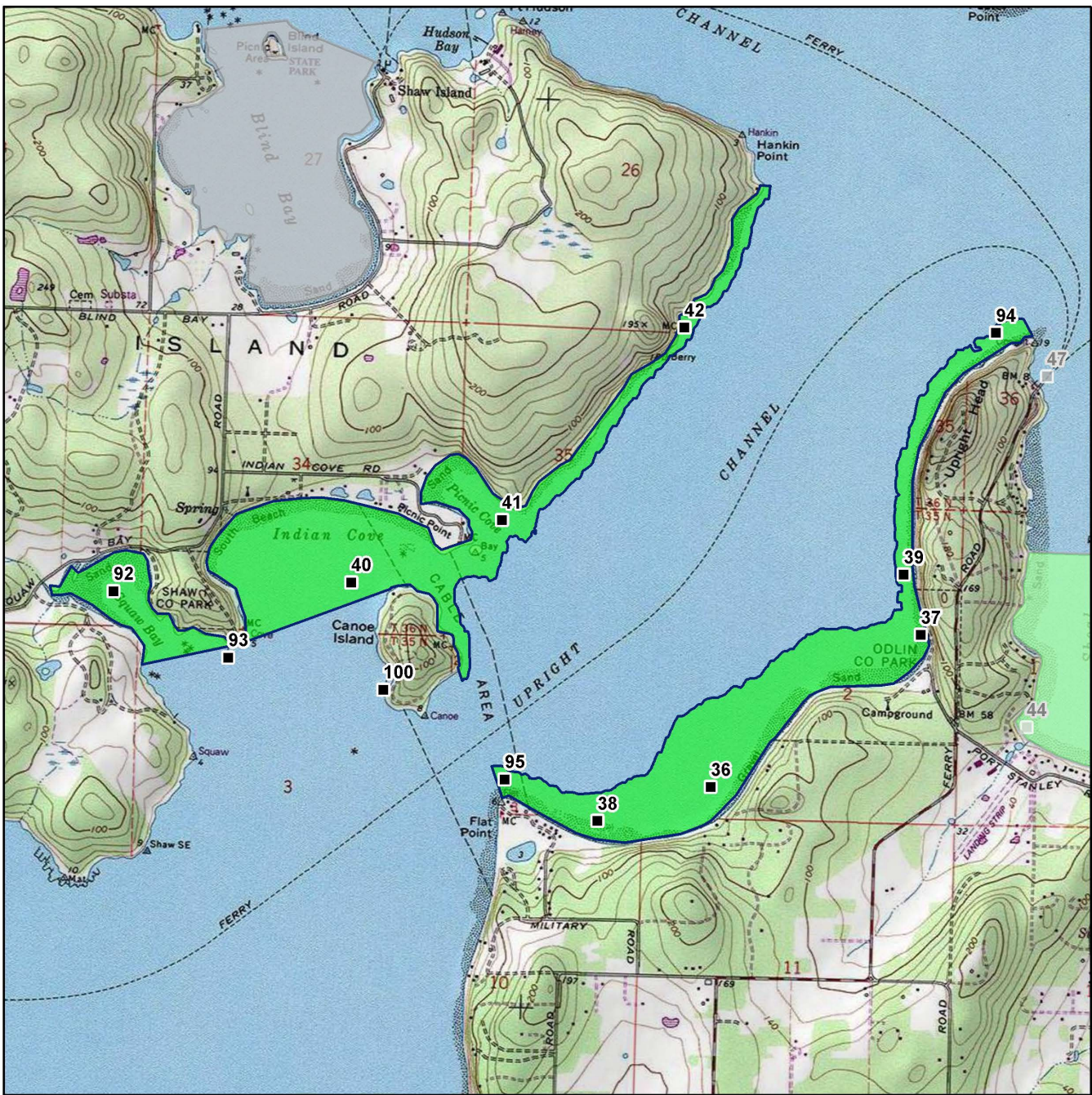
MAP 1. Upright Channel Growing Area



 Upright Channel

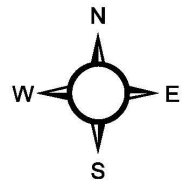
 Washington State Department of Health

Date Updated: 7/11/2018

0 0.75 1.5 Miles



Classification	Sampling Stations
 Approved	
 Conditional	
 Prohibited	
 Restricted	
 Unclassified	



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