

# Nisqually Reach

## Annual Shellfish Growing Area Review



Prepared By: Michael Ulrich

Area: Nisqually Reach

Year Ending: December 31, 2023

Classification: Approved, Prohibited

### 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. Station 759 was only sampled five times due to a bottle spilled. No additional activities have been documented in the growing area.

The Shellfish Protection District continues to work in the uplands of the growing area. Thurston County Public Health and Social Services continues to implement their enhanced on-site septic system operation and maintenance program in the area including dye-testing shoreline on-site septic systems.

### 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.

### 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. The Department should continue to work with Thurston County and local partners to find and fix shoreline pollution sources.

**TABLE 1. Summary of Marine Water Data (SRS) for the Nisqually Reach Growing Area**

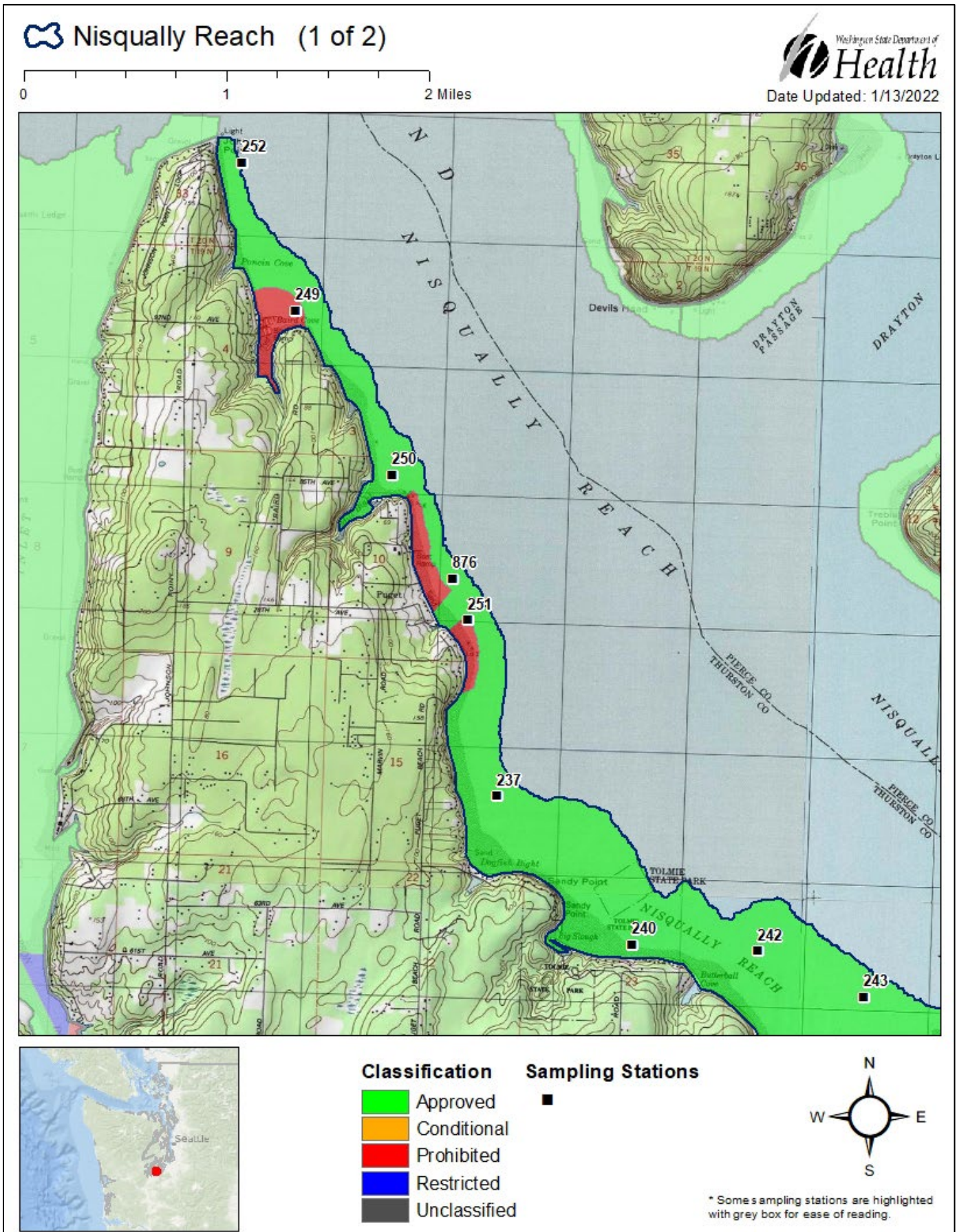
Sampling Event Type: Regulatory  
 Maximum Number of Samples: 30

Tides Included: ALL

| Station Number | Classification | Date Range             | Range (FC/100 mL) | GeoMean (FC/100 mL) | Est. 90 <sup>th</sup> Percentile (FC/100 mL) | Meets Standard |
|----------------|----------------|------------------------|-------------------|---------------------|--|----------------|
| 222            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 49.0        | 2.5                 | 6.8  | Y              |
| 223            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 23.0        | 2.4                 | 5.4  | Y              |
| 225            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 13.0        | 2.4                 | 5.3  | Y              |
| 227            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 4.5         | 1.9                 | 2.9  | Y              |
| 231            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 11.0        | 2.4                 | 4.9  | Y              |
| 233            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 4.5         | 1.8                 | 2.3  | Y              |
| 237            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 7.8         | 1.9                 | 2.8  | Y              |
| 240            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 2.0         | 1.7                 | 1.8  | Y              |
| 242            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 8.3         | 1.8                 | 2.7  | Y              |
| 243            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 7.8         | 1.9                 | 2.8  | Y              |
| 245            | Approved       | 12/4/2018 - 11/30/2023 | 1.7 - 13.0        | 1.9                 | 3.5  | Y              |
| 246            | Approved       | 3/12/2019 - 11/30/2023 | 1.7 - 33.0        | 2.6                 | 7.0  | Y              |
| 247            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 13.0        | 2.3                 | 4.7  | Y              |
| 248            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 14.0        | 2.2                 | 4.7  | Y              |
| 250            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 2.0         | 1.7                 | 1.9  | Y              |
| 251            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 4.5         | 1.8                 | 2.3  | Y              |
| 252            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 6.1         | 1.8                 | 2.7  | Y              |
| 253            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 13.0        | 2.4                 | 5.6  | Y              |
| 709            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 31.0        | 3.2                 | 9.2  | Y              |
| 759            | Approved       | 12/4/2018 - 11/30/2023 | 1.7 - 7.8         | 2.2                 | 4.1  | Y              |
| 876            | Approved       | 1/2/2019 - 11/30/2023  | 1.7 - 2.0         | 1.7                 | 1.8  | Y              |
| 224            | Prohibited     | 12/4/2018 - 11/30/2023 | 1.7 - 17.0        | 3.1                 | 8.6  | Y              |
| 234            | Prohibited     | 1/2/2019 - 11/30/2023  | 1.7 - 49.0        | 3.9                 | 13.2   | Y              |
| 235            | Prohibited     | 1/2/2019 - 11/30/2023  | 1.7 - 49.0        | 8.7                 | 30.9   | Y              |
| 249            | Prohibited     | 1/2/2019 - 11/30/2023  | 1.7 - 6.8         | 1.9                 | 3.0  | Y              |

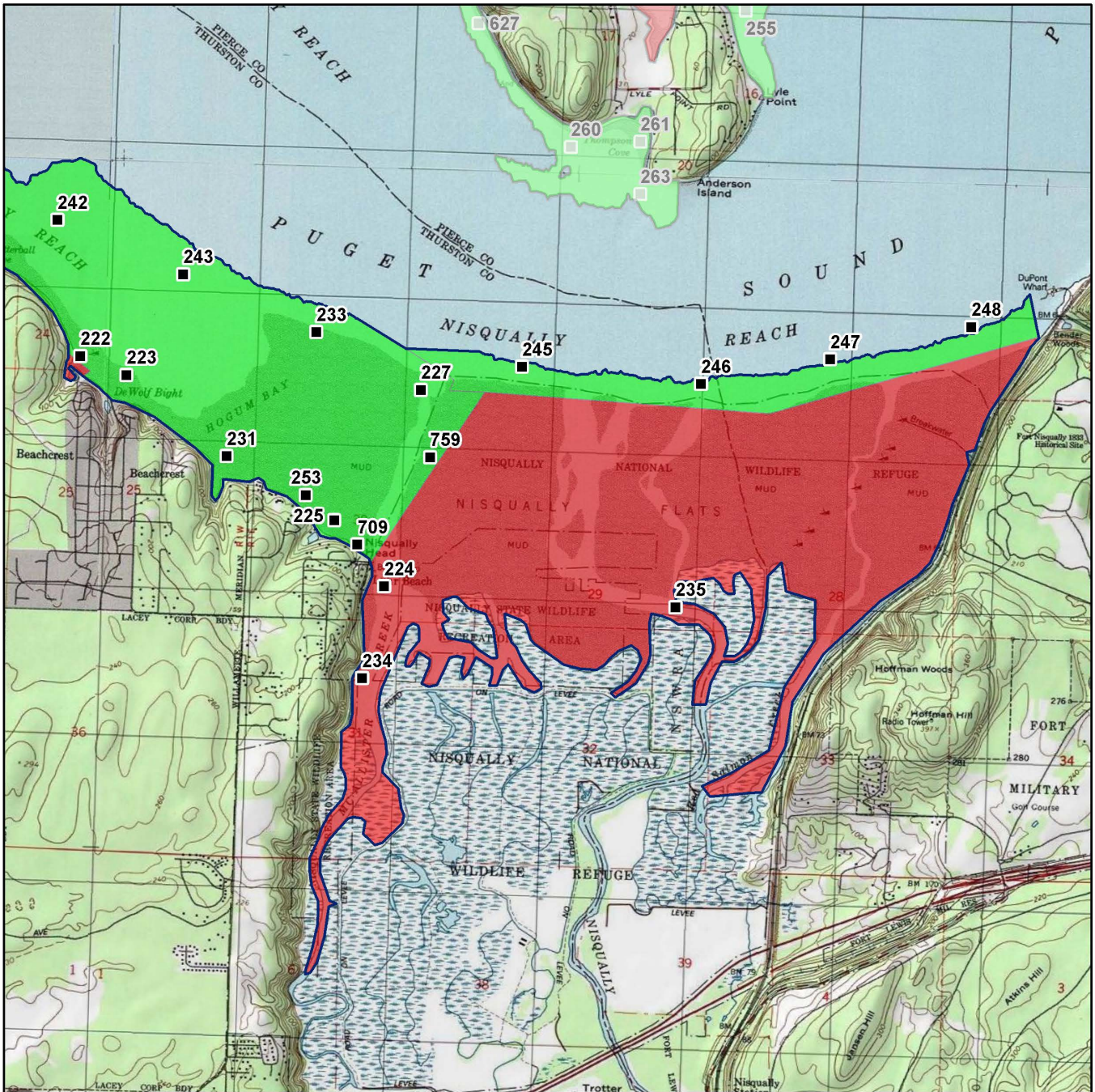
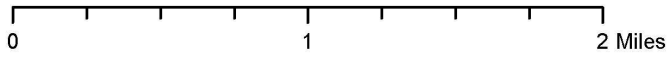
The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/ 100 mL with an estimated 90th percentile not greater than 43 organisms/ 100 mL. The above table shows bacteriological results in relation to program standards.

**MAP 1. Nisqually Reach Growing Area (1 of 2)**

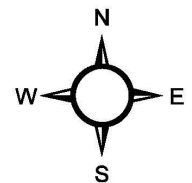


MAP 2. Nisqually Reach Growing Area (2 of 2)

Nisqually Reach (2 of 2)



| Classification  | Sampling Stations  |
|---|--|
| <span style="display:inline-block; width:15px; height:15px; background-color: #00FF00; border: 1px solid black;"></span> Approved     | <span style="display:inline-block; width:10px; height:10px; background-color: black; border: 1px solid black;"></span> |
| <span style="display:inline-block; width:15px; height:15px; background-color: #FFA500; border: 1px solid black;"></span> Conditional  |  |
| <span style="display:inline-block; width:15px; height:15px; background-color: #FF0000; border: 1px solid black;"></span> Prohibited   |  |
| <span style="display:inline-block; width:15px; height:15px; background-color: #0000FF; border: 1px solid black;"></span> Restricted   |  |
| <span style="display:inline-block; width:15px; height:15px; background-color: #808080; border: 1px solid black;"></span> Unclassified |  |



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