

# Poverty Bay

## Annual Shellfish Growing Area Review

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Prepared By: Mark Toy

Area: Poverty Bay

Year Ending: December 31, 2019

Classification: Approved, Conditionally Approved, Prohibited

### Activities in the Growing Area in 2019

The growing area was sampled a minimum of six times, in accordance with NSSP standards for Systematic Random Sampling. The Conditionally Approved area is closed to commercial shellfish harvest from June 1 through November 30 each year and the stations were sampled a minimum of 6 times during the Open period. Sampling was increased at stations in and near the Conditionally Approved area in response to water quality concerns.

King County Department of Natural Resources received National Estuary Program grant funds to conduct a pollution identification and correction program in the Des Moines and Federal Way area of Poverty Bay, implementing actions in their Closure Response Plan.

### Analytical Results of Water Samples

Table 1 summarizes the 30 most recent samples collected from each of the sampling stations for all months. Tables 2 and 3 show open and closed period data for the Conditionally Approved and Prohibited stations based on the same date range as Table 1.

### Change in Actual Pollution Sources that Impact the Growing Area

We have no information regarding new pollution sources in the area.

### 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

The Department should continue to evaluate ongoing pollution identification and correction efforts in the watershed and monitor the freshwater discharges to the Conditionally Approved area during rainfall events in the Closed period.

## Management Plan Evaluation

1. Have all parties involved complied with the conditions of the management plan ..... Yes
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) Poverty Bay 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 <sup>th</sup> Percentile (FC/100mL)	Meets Standard
571	Approved	3/3/2015 - 11/14/2019	1.7 - 11.0	2.0	3.5	Y
701	Approved	1/26/2015 - 11/14/2019	1.7 - 2400.0	3.5	21.2	Y
702	Approved	1/26/2015 - 11/14/2019	1.7 - 33.0	2.6	7.7	Y
836	Approved	6/1/2015 - 11/14/2019	1.7 - 49.0	3.9	15.6	Y
837	Approved	6/1/2015 - 11/14/2019	1.7 - 27.0	3.6	11.5	Y
720	Conditionally Approved	7/26/2017 - 12/4/2019	1.7 - 540.0	4.4	21.6	Y
721	Conditionally Approved	6/8/2017 - 12/4/2019	1.7 - 130.0	4.3	20.6	Y
722	Conditionally Approved	6/8/2017 - 12/4/2019	1.7 - 33.0	2.5	6.3	Y
756	Conditionally Approved	6/8/2017 - 12/4/2019	1.7 - 1600.0	3.5	24.9	Y
857	Conditionally Approved	6/8/2017 - 12/4/2019	1.7 - 6.8	1.9	3.0	Y
570	Prohibited	3/3/2015 - 11/14/2019	1.7 - 17.0	2.5	5.7	Y
572	Prohibited	3/3/2015 - 11/14/2019	1.7 - 46.0	2.2	5.0	Y
703	Prohibited	1/26/2015 - 11/14/2019	1.7 - 14.0	2.3	4.5	Y
704	Prohibited	1/26/2015 - 11/14/2019	1.7 - 23.0	2.8	8.1	Y
705	Prohibited	1/26/2015 - 11/14/2019	1.7 - 13.0	2.6	6.0	Y
835	Prohibited	6/1/2015 - 11/14/2019	1.7 - 540.0	4.2	23.9	Y
567	Unclassified	3/3/2015 - 11/14/2019	1.7 - 33.0	2.3	5.0	Y
568	Unclassified	3/3/2015 - 11/14/2019	1.7 - 22.0	2.7	6.7	Y
617	Unclassified	6/22/2015 - 11/14/2019	1.7 - 23.0	2.6	6.2	Y
706	Unclassified	7/26/2017 - 12/4/2019	1.7 - 49.0	2.7	7.7	Y
707	Unclassified	7/26/2017 - 12/4/2019	1.7 - 26.0	2.5	6.3	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. Summary of Marine Water Data from the Conditionally Approved Stations during the Open Period**

Sampling Event Type: Regulatory

Tides Included: All

Includes data for Open Period (December 1 through May 31) collected within the same date range as Table 1.

Station Number	Classification	Number of samples	Range (FC/100mL)	Geomean (FC/100mL)
720	Conditionally Approved	13	1.7 - 540.0	4.8
721	Conditionally Approved	13	1.7 - 33.0	2.8
722	Conditionally Approved	13	1.7 - 13.0	2.4
756	Conditionally Approved	13	1.7 - 33.0	2.7
857	Conditionally Approved	13	1.7 - 6.8	2.1

**TABLE 3. Summary of Marine Water Data from the Conditionally Approved Stations during the Closed Period**

Sampling Event Type: Regulatory

Tides Included: All

Includes data for Closed Period (June 1 through November 30) collected within the same date range as Table 1.

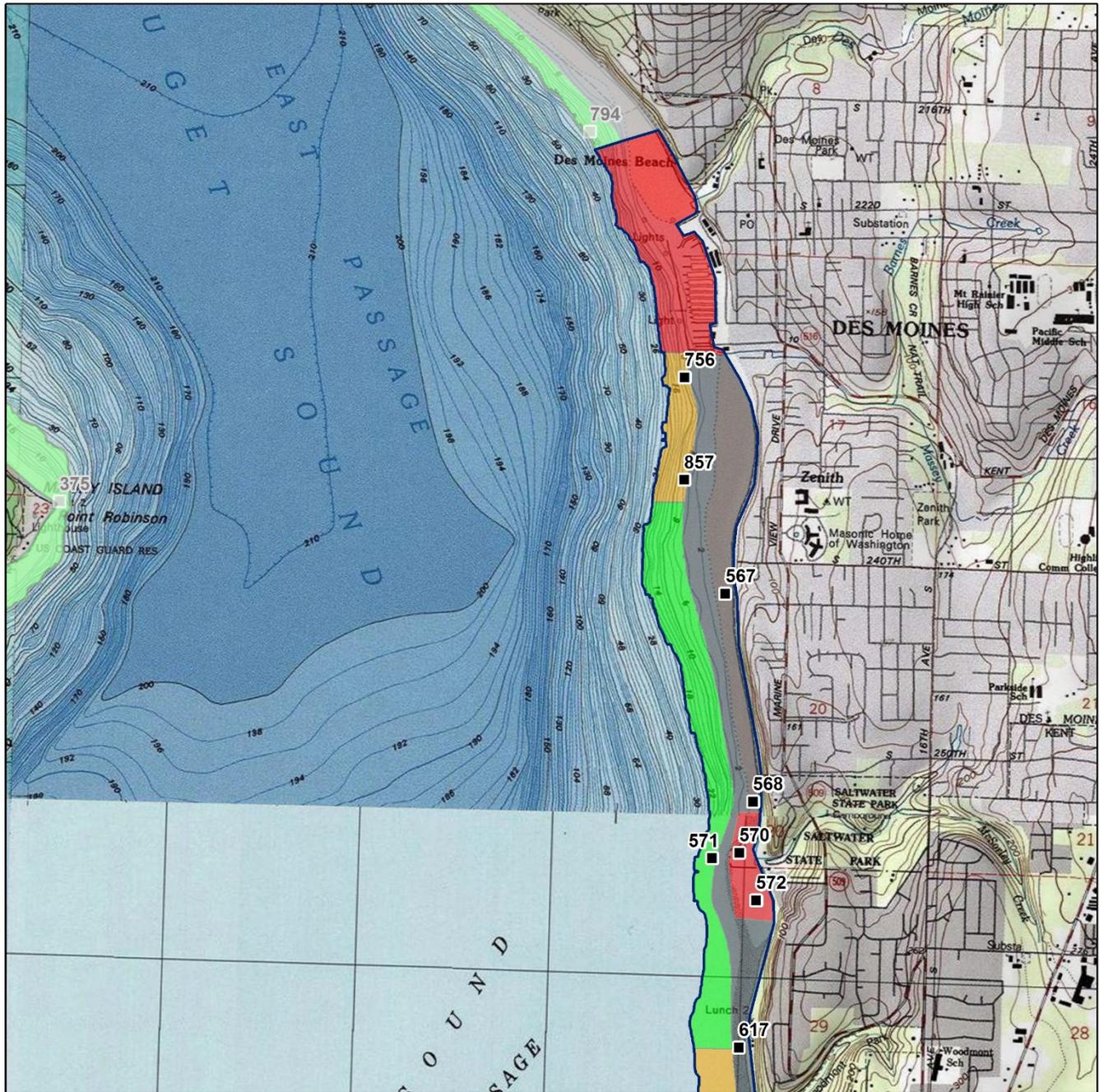
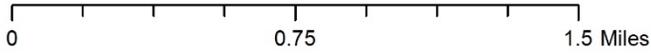
Station Number	Classification	Number of samples	Range (FC/100mL)	Geomean (FC/100mL)
720	Conditionally Approved	18	1.7 - 33.0	3.9
721	Conditionally Approved	17	1.7 - 130.0	5.9
722	Conditionally Approved	17	1.7 - 33.0	2.5
756	Conditionally Approved	17	1.7 - 1600.0	4.3
857	Conditionally Approved	17	1.7 - 4.0	1.9

MAP 1. Poverty Bay Growing Area 1 of 3

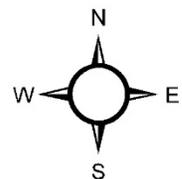
Poverty Bay (1 of 3)



Date Updated: 7/11/2018



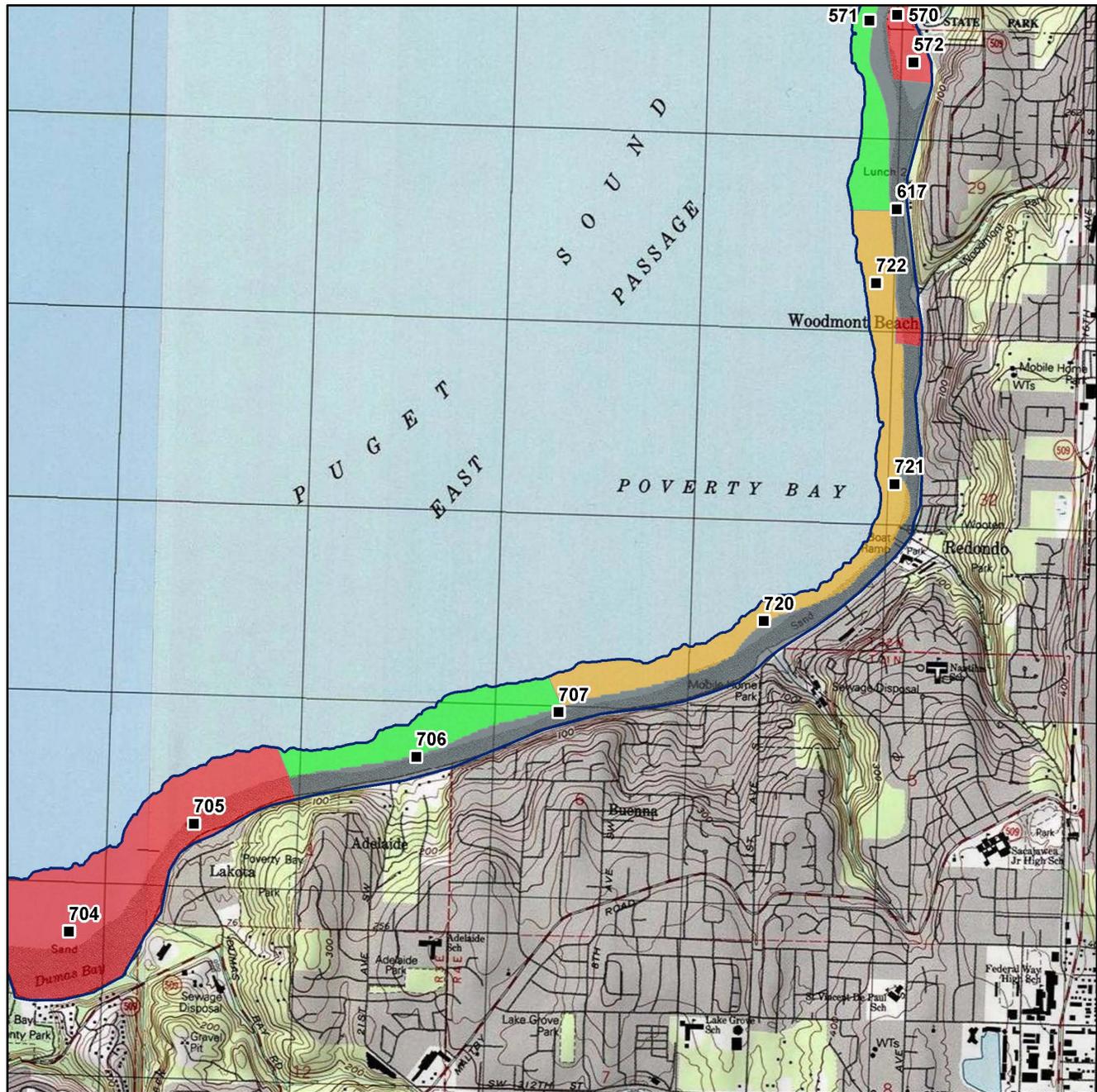
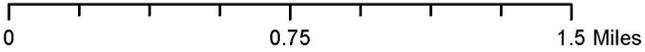
Classification	Sampling Stations
<span style="color: green;">■</span> Approved	<span style="color: black;">■</span>
<span style="color: orange;">■</span> Conditional	
<span style="color: red;">■</span> Prohibited	
<span style="color: blue;">■</span> Restricted	
<span style="color: grey;">■</span> Unclassified	



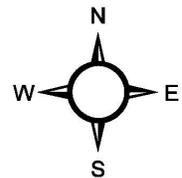
\* Some sampling stations are highlighted with grey box for ease of reading.

MAP 2. Poverty Bay Growing Area 2 of 3

Poverty Bay (2 of 3)



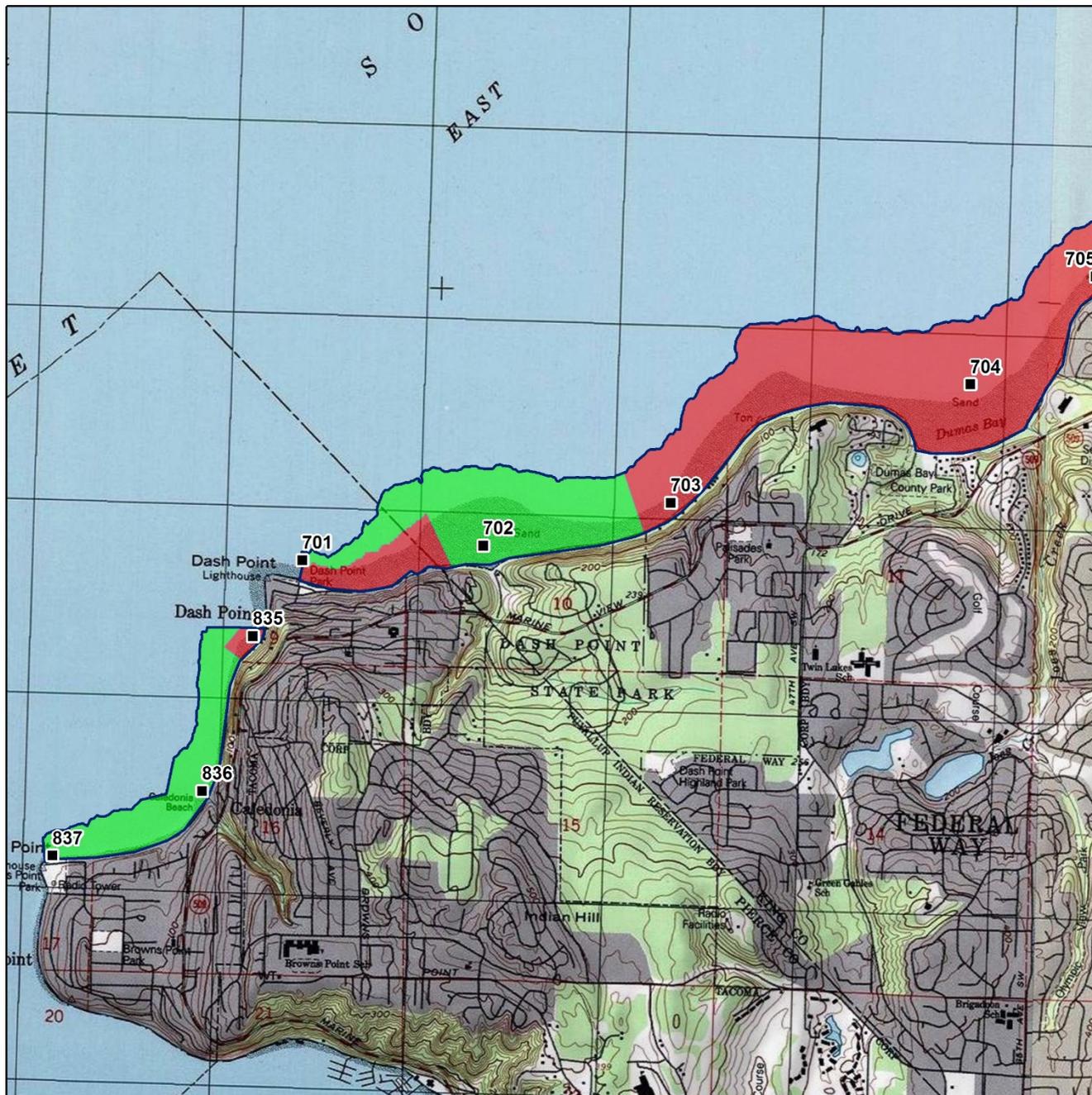
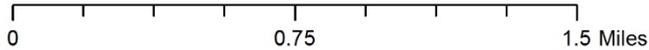
Classification	Sampling Stations
<span style="color: green;">■</span> Approved	■
<span style="color: orange;">■</span> Conditional	
<span style="color: red;">■</span> Prohibited	
<span style="color: blue;">■</span> Restricted	
<span style="color: grey;">■</span> Unclassified	



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

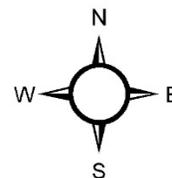
MAP 3 Poverty Bay Growing Area 3 of 3

Poverty Bay (3 of 3)



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

**Sampling Stations**



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