

**WASHINGTON STATE DEPARTMENT OF HEALTH  
OFFICE OF SHELLFISH AND WATER PROTECTION**

**ANNUAL GROWING AREA REVIEW**

**PREPARED BY:** Lawrence Sullivan, Public Health Advisor

**AREA:** Hood Canal #9

**YEAR ENDING:** December 31, 2008

**CLASSIFICATION:** Approved, Prohibited

**ACTIVITIES IN THE GROWING AREA IN 2008:**

Hood Canal #9 was sampled six times during 2008 in accordance with the NSSP systematic random sampling criteria. Pollution source identification and correction work is on-going in the area. Extreme rainfall and storm water runoff resulted in a seven day emergency closure of the area. An emergency closure was created around two failing on-site sewage systems in the area.

**ANALYTICAL RESULTS OF WATER SAMPLES:**

An analysis of the most recent 30 samples collected from each of the sampling stations within the area is presented in Table #1. All "approved" stations in the area pass the NSSP water quality standard, although station #277 is threatened due to elevated bacteria levels. Individual sample results for station #277 are shown in Table #2.

**CHANGE IN ACTUAL POLLUTION SOURCES THAT IMPACT THE GROWING AREA:**

Pollution source investigations are on-going.

**CLASSIFICATION STATUS:**

- Well within the classification standards
- Meets standards but some concerns
- Meets standards but threatened with a downgrade in classification
- Fails to meet classification standards

**REMARKS AND RECOMMENDATIONS:**

All stations in the "approved" portion of Hood Canal #9 meet the NSSP standard for an "approved" classification. Continue to assist Mason County in their pollution source identification work. Stimson and Little Mission creeks and portions of the marine waters in Hood Canal #9 are on the 303D list for fecal coliform.

## TABLE 1

### SUMMARY OF MARINE WATER DATA (SRS)

Growing Area: **HOOD CANAL #9**

Classification: **Approved,Prohibited**

From **12/07/2004** To **11/19/2008**

### FECAL COLIFORM ORGANISMS/100 ML

Station Number	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
269	Approved	31	1.7 - 23.0	2.8	7.0	Yes
270	Approved	31	1.7 - 26.0	2.3	5.0	Yes
271	Approved	31	1.7 - 49.0	2.9	8.0	Yes
272	Approved	31	1.7 - 14.0	2.3	5.0	Yes
273	Approved	31	1.7 - 49.0	2.2	5.0	Yes
274	Approved	31	1.7 - 23.0	2.1	4.0	Yes
275	Approved	30	1.7 - 110.0	2.4	7.0	Yes
276	Approved	31	1.7 - 240.0	2.9	12.0	Yes
277	Approved	31	1.7 - 130.0	4.7	30.0	Yes
278	Approved	31	1.7 - 350.0	3.6	18.0	Yes
279	Approved	30	1.7 - 33.0	2.9	8.0	Yes
280	Approved	31	1.7 - 46.0	2.8	8.0	Yes
281	Approved	31	1.7 - 79.0	3.4	12.0	Yes
282	Approved	31	1.7 - 23.0	2.4	6.0	Yes
284	Approved	31	1.7 - 46.0	3.4	12.0	Yes
286	Approved	31	1.7 - 23.0	2.5	5.0	Yes
287	Approved	31	1.7 - 33.0	3.1	10.0	Yes
268	Prohibited	31	1.7 - 79.0	6.3	24.0	Yes
283	Prohibited	31	1.7 - 350.0	6.2	43.0	No
301	Prohibited	31	1.7 - 79.0	4.6	22.0	Yes
302	Prohibited	31	1.7 - 49.0	4.4	16.0	Yes

All tides information is presented

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

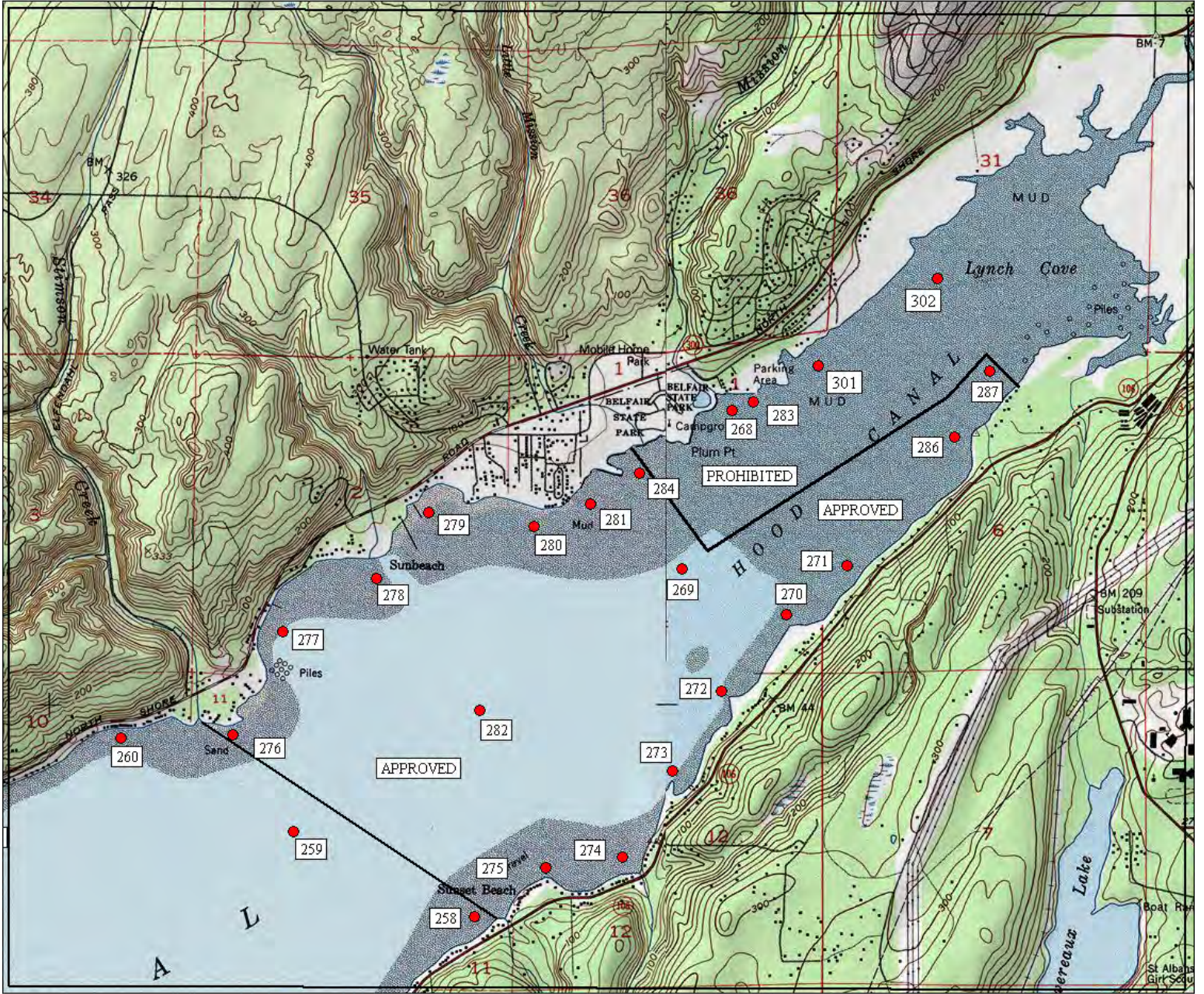
† All samples have been verified.

**TABLE 2****SUMMARY OF SHELLFISH GROWING AREAS  
WATER QUALITY STUDY RESULTS**Growing Area: **HOOD CANAL #9**Sampling Station Number: **277**Classification: **Approved**

Sample Date	Sample Time	Tide	Fcoli/100ml	Temperature	Salinity
12/07/2004	11:13	Flood	1.7	6	20
01/27/2005	09:24	Ebb	4.5	8	10
02/08/2005	09:36	Ebb	1.7	5	14
03/08/2005	13:19	Flood	130	13	22
04/14/2005	10:19	Ebb	1.7	9	24
05/18/2005	12:56	Flood	79	16	20
06/02/2005	12:26	Flood	7.8	17	24
07/26/2005	08:43	Flood	4.5	20	26
08/23/2005	10:38	Ebb	23	19	28
09/21/2005	09:21	Ebb	1.7	15	25
10/24/2005	10:05	Flood	4.5	12	25
11/08/2005	11:00	Flood	2	6	20
12/13/2005	11:17	Flood	1.8	4	18
01/18/2006	11:19	Ebb	23	6	0
04/04/2006	10:41	Ebb	2	8	16
05/04/2006	10:23	Ebb	2	12	26
08/22/2006	13:18	Flood	2	18	22
10/26/2006	10:46	Ebb	1.7	10	22
11/21/2006	10:54	Ebb	49	7	12
01/30/2007	11:29	Flood	2	5	20
03/14/2007	11:24	Flood	2	8	8
06/06/2007	10:30	Ebb	4.5	17	20
09/18/2007	10:31	Flood	46	15	19
11/20/2007	12:00	Flood	1.7	8	21
12/11/2007	10:46	Ebb	4.5	5	10
01/30/2008	10:02	Flood	1.7	6	20
04/16/2008	12:38	Flood	130	11	16
07/09/2008	11:17	Ebb	1.7	22	22
08/07/2008	11:28	Ebb	1.7	20	24
10/21/2008	11:33	Flood	1.7	11	21
11/19/2008	11:38	Ebb	1.7	10	18

**Number of Samples: 31****Geometric Mean: 4.7****Range: 1.7 - 130****Estimated 90th Percentile: 30**

† All samples have been verified.



TN \* MN  
18°

0 1000 FEET 0 500 1000 METERS  
Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)

### Station 277 Hood Canal Area 9

