

Addendum to the 2010 Sanitary Survey Report of Drayton Harbor

September 2016



WASHINGTON STATE DEPARTMENT OF HEALTH
OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
SHELLFISH PROGRAMS

Prepared by:

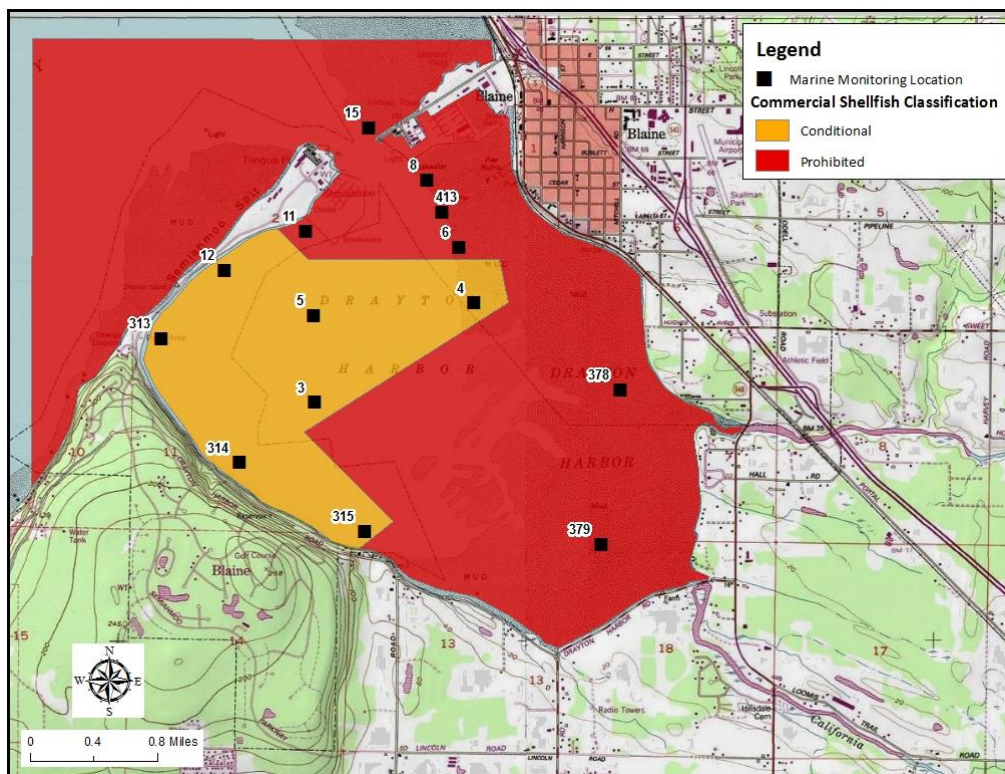
Jean Snyder
Public Health Advisor

Summary

An evaluation of the Conditionally Approved stations during the 2016 Drayton Harbor Triennial Report preparation found that all these stations now meet the National Shellfish Sanitation Program (NSSP) standards for an Approved classification. The Washington State Department of Health (Department) staff evaluated environmental conditions (rainfall and seasonality of elevated fecal coliform levels) that potentially impact a portion of the Drayton Harbor growing area. This evaluation showed no clear correlation between elevated fecal coliform levels and an environmental condition (rainfall or season). However, the highest fecal coliform levels in the last 30-sample dataset were recorded after one excessive rainfall event (> 2 inches in 24-hours). As a result, this report upgrades 810 acres of the Drayton Harbor growing area from Conditionally Approved to Approved. In addition, due to the limited number of sample results after excessive rainfall, an emergency closure condition is established that Drayton Harbor growing area may close to commercial shellfish harvest when greater than 2-inches of rainfall in 24-hours is measured at the City of Blaine WWTP (Lighthouse Point Water Reclamation Facility).

Description of Growing Area

Drayton Harbor is located along the northwest shoreline of Whatcom County adjacent to the Canadian border. It is a small embayment, approximately one and a half miles wide and two miles long, encompassing an area of almost four square miles. Semiahmoo Spit encloses the harbor on the west, leaving an opening approximately 1,000 feet wide. Prior to this current addendum to the 2010 Sanitary Survey, approximately 810 acres were classified as Conditionally Approved and 2,900 acres were classified as Prohibited in Drayton Harbor. The Conditionally Approved area is closed for commercial shellfish harvest from November 1st through January 31st each year. Marine Station 413 was added in September 2016 due to a harvest site request. Map 1 shows the Drayton Harbor growing area, including the location of sampling stations and classification boundaries.



Map 1. Drayton Harbor Growing Area Classification and Marine Stations

Pollution Source Survey

Improvements in water quality follow active efforts by Whatcom County, the City of Blaine, the Whatcom County Conservation District, the Nooksack Indian Tribe, state agencies, and Drayton Harbor Shellfish Protection District to reduce bacteria loading in the watershed. Whatcom County has received EPA National Estuary Program grant funding since 2011 to implement a fecal coliform pollution identification and correction (PIC) program in the Drayton Harbor watershed through a partnership with the Whatcom Conservation District. The PIC program implementation has led to the evaluation of 85 parcels with agricultural operations, 35 farms plans completed, and installation/implementation of 45 agricultural best management practices. Whatcom County Health Department continues to implement their onsite septic system operation and maintenance program, which requires the inspection of onsite septic systems every 1-3 years depending on system type. By the end of 2015 all of the approximately 3,100 onsite septic systems in Drayton Harbor watershed completed the required operation and maintenance inspection. Of which only 18 systems were identified between 2011-2015 as failing and all have been repaired or are in process of repair.

In addition, the City of Blaine is completing a two-year Drayton Harbor/Semiahmoo Bay Water Quality Enhancement project identifying and correcting fecal coliform pollutions sources in Cain Creek and within the city limits of Blaine. This work includes inspecting with a camera the sewer and stormwater pipes within 100 feet of Cain Creek, stormwater and creek fecal coliform sampling, pet waste campaign, education and outreach, and corrective actions. A final report summarizing the data and recommending long-term actions for pollution prevention will follow.

Water Quality Studies

Table 1, page 4 summarizes the fecal coliform results from the last 30 water samples collected from the Drayton Harbor stations. This summary shows that all of the Conditionally Approved stations meet the NSSP standard for an Approved classification. Fecal coliform levels at stations 8 and 15 in the Prohibited area continue to be well above NSSP standard with estimated 90th percentiles of 79.1 FC/100mL and 109.6 FC/100mL respectively. Table 2, page 5 shows water quality during the Conditionally Open (February – October) and Closed (November – January) periods between June 2012 and July 2016. As shown in Table 2, when samples taken during the seasonally closed period are removed from the sample set, six of the seven Conditionally Approved stations have estimated 90th percentiles less than 20 FC/100mL. However, as shown in the individual sample results in Appendix A, pages 8-20, the highest fecal coliform sampling results do not occur during the closed period of November through January.

Department staff evaluated environmental conditions (rainfall and the seasonality of elevated bacteria levels) that potentially impact the Drayton Harbor growing area. The highest fecal coliform sample results occurred during the Open Period after 3.54 inches of rain in 24-hours was recorded at the City of Blaine WWTP. During the May 6, 2014 sampling event, fecal coliform levels at the marine stations ranged from 33 to 920 FC/100mL. Also, elevated fecal coliform samples results occurred on February 17, after greater than 1-inch rainfall was recorded in 24 hours. Fecal coliform levels ranged from 11 to 350 FC/100mL and many stations had salinities less than or equal to 20 ppt.

Table 3, page 6 includes a comparison of the summary data for a rainfall condition and the current seasonal condition. The estimated 90th percentiles of the Conditionally Approved stations are lower after removing all sample results collected after greater than 1-inch in 24-hour versus the current Open Period (February – October). Appendix B, on pages 21 – 33, show marine station evaluations for both seasonal closure and a greater than 1-inch rainfall in 24-hours at the Blaine WWTP and the current seasonal closure scenario (closed November – January). This evaluation examined individual results from 2012 through 2016. The marine

water quality evaluation found more instances of elevated fecal coliform levels after greater than 1-inch rainfall in 24 hours than with the current seasonal closure. However, fecal coliform levels were also low after three of the five greater than 1-inch rainfall events in the dataset. No predictable environmental condition (rainfall or season) removes all the elevated fecal coliform levels in the Conditionally Approved area.

Table 1. Marine Water Quality Data Summary for the last 30 Samples in Drayton Harbor

Station Number	Classification	Date Range	Range (FC/100 mL)	Geometric Mean (FC/100 mL)	Est 90th Percentile (FC/100 mL)	Meets Standard*
3	Conditionally Approved	12/10/2013 - 7/28/2016	1.7 - 130.0	4.0	20.1	Yes
4	Conditionally Approved	11/5/2013 - 7/28/2016	1.7 - 220.0	5.3	23.2	Yes
5	Conditionally Approved	12/10/2013 - 7/28/2016	1.7 - 170.0	4.1	22.6	Yes
12	Conditionally Approved	11/5/2013 - 7/28/2016	1.7 - 350.0	4.2	24.2	Yes
313	Conditionally Approved	12/10/2013 - 7/28/2016	1.7 - 350.0	4.8	34.2	Yes
314	Conditionally Approved	12/10/2013 - 7/28/2016	1.7 - 79.0	4.0	20.2	Yes
315	Conditionally Approved	12/10/2013 - 7/28/2016	1.7 - 130.0	4.3	21.3	Yes
6	Prohibited	11/5/2013 - 7/28/2016	1.7 - 240.0	6.7	32.6	Yes
8	Prohibited	11/5/2013 - 7/28/2016	1.7 - 540.0	12.0	79.1	No
11	Prohibited	11/5/2013 - 7/28/2016	1.7 - 110.0	3.5	16.4	Yes
15	Prohibited	12/10/2013 - 7/28/2016	1.7 - 920.0	17.3	109.6	No
378	Prohibited	9/24/2013 - 7/28/2016	1.7 - 350.0	7.9	52.1	No
379	Prohibited	10/15/2013 - 7/28/2016	1.7 - 130.0	6.4	28.3	Yes

*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. Data Summary of the Open and Closed Periods at the Conditionally Approved Stations

Station Number	Classification	Total Samples	Date Range	Range (FC/100 mL)	Geometric Mean (FC/100 mL)	Est 90th Percentile (FC/100 mL)
Seasonal Open Period (February – October)						
3	Conditionally Approved	30	3/21/2013 - 7/28/2016	1.7 - 130.0	3.0	14.2
4	Conditionally Approved	30	2/21/2013 - 7/28/2016	1.7 - 220.0	3.8	16.7
5	Conditionally Approved	30	3/21/2013 - 7/28/2016	1.7 - 170.0	3.4	17.4
12	Conditionally Approved	30	2/21/2013 - 7/28/2016	1.7 - 350.0	3.0	15.6
313	Conditionally Approved	30	3/21/2013 - 7/28/2016	1.7 - 350.0	3.6	23.5
314	Conditionally Approved	30	3/21/2013 - 7/28/2016	1.7 - 79.0	3.3	17.1
315	Conditionally Approved	30	3/21/2013 - 7/28/2016	1.7 - 130.0	3.6	17.0
6	Prohibited	30	2/21/2013 - 7/28/2016	1.7 - 240.0	4.7	23.8
Seasonal Closed Period (November - January)						
3	Conditionally Approved	10	1/8/2013 - 1/20/2016	1.7 - 79.0	7.6	N/A
4	Conditionally Approved	10	1/8/2013 - 1/20/2016	2.0 - 33.0	7.8	N/A
5	Conditionally Approved	10	1/8/2013 - 1/20/2016	1.7 - 23.0	5.9	N/A
12	Conditionally Approved	10	1/8/2013 - 1/20/2016	1.7 - 240.0	8.0	N/A
313	Conditionally Approved	10	1/8/2013 - 1/20/2016	1.7 - 240.0	9.0	N/A
314	Conditionally Approved	10	1/8/2013 - 1/20/2016	1.7 - 350.0	7.9	N/A
315	Conditionally Approved	10	1/8/2013 - 1/20/2016	1.7 - 49.0	7.0	N/A
6	Prohibited	10	1/8/2013 - 1/20/2016	2.0 - 23.0	11.4	N/A

Table 3. Comparison of the Marine Water Quality Summary Data for a Seasonal and Rainfall Conditional Closures (Last 30-Sample Dataset)

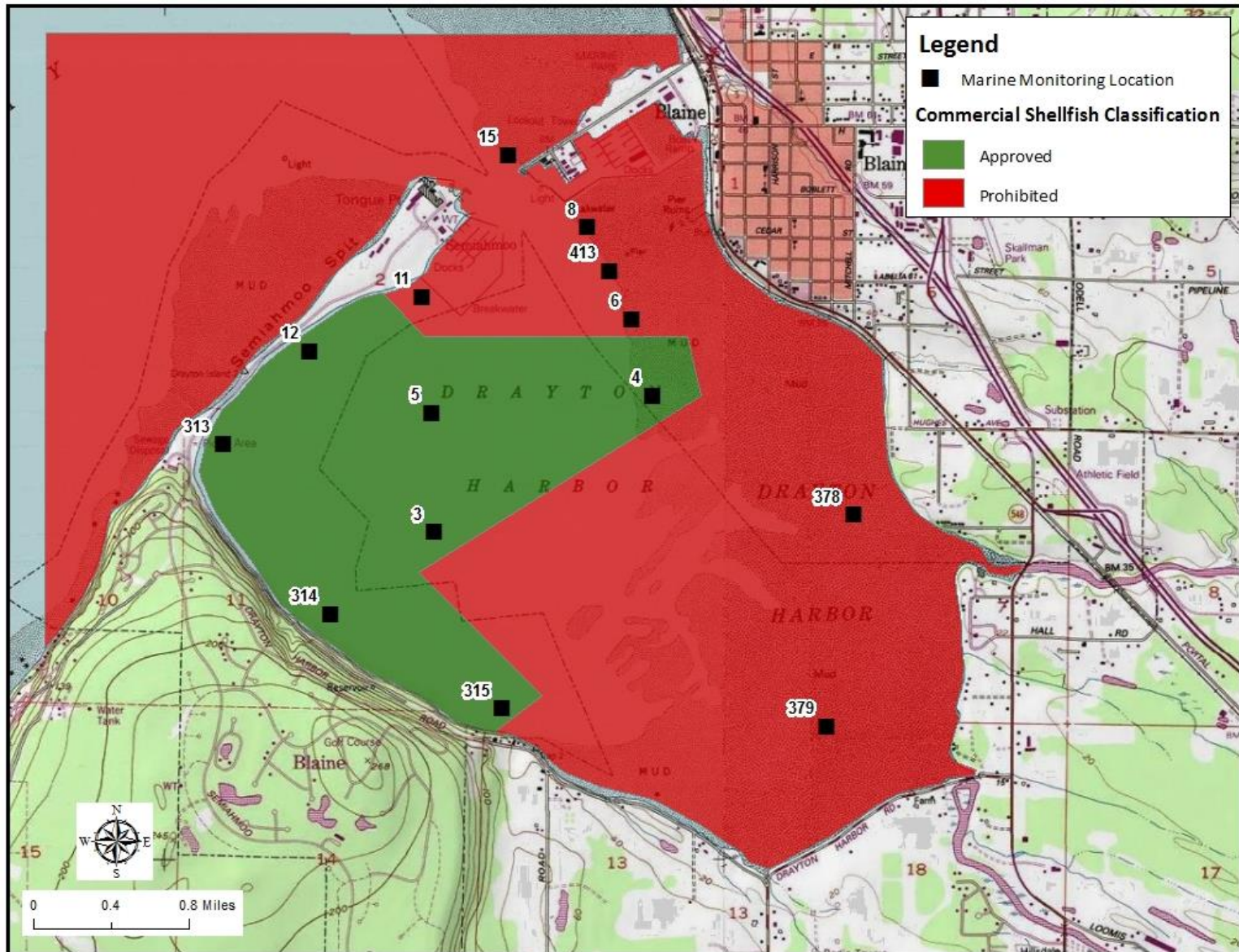
Station Numbers	Classification	Seasonal Open Period (February - October)		Rainfall < 1-inch 24 hours (0-5 days prior to sampling)	
		Geometric Mean (FC/100mL)	Est 90 th Percentile (FC/100mL)	Geometric Mean (FC/100mL)	Est 90 th Percentile (FC/100mL)
3	Conditionally Approved	3.0	14.2	3.2	11.7
4	Conditionally Approved	3.8	16.7	3.8	11.1
5	Conditionally Approved	3.4	17.4	3.2	11.2
12	Conditionally Approved	3.0	15.6	2.9	9.4
313	Conditionally Approved	3.6	23.5	3.4	13.6
314	Conditionally Approved	3.3	17.1	3.3	12.0
315	Conditionally Approved	3.6	17.0	3.2	10.0
6	Prohibited	4.7	23.8	5.1	18.9
8	Prohibited	7.3	42.7	9.1	46.5
11	Prohibited	2.6	10.0	2.6	7.1
15	Prohibited	14.8	99.1	12.5	58.6
378	Prohibited	6.5	52.3	6.5	38.3
379	Prohibited	4.4	16.3	5.6	18.3

Conclusions

All marine stations in the Conditionally Approved area currently meet the NSSP standard for an Approved classification. No clear correlation between high fecal coliform levels and an environmental condition (rainfall or season) was identified during this evaluation. However, the highest fecal coliform levels in the last 30-sample dataset were recorded after one excessive rainfall event (> 2 inches in 24-hours). As a result, this report upgrades 810 acres of the Drayton Harbor growing area from Conditionally Approved to Approved. In addition, due to the limited number of sample results after excessive rainfall, an emergency closure condition is established that Drayton Harbor growing area may close to commercial shellfish harvest when greater than 2-inches of rainfall in 24-hours is measured at the City of Blaine WWTP (Lighthouse Point Water Reclamation Facility). Map 2, page 7 shows all of the Drayton Harbor growing area with the classification changes.

The GPS coordinates for the new Approved area are as follows:

Beginning at a point located on the northeastern shore of Semiahmoo Spit at 48.9858° N 122.7768° W, southeast to a point at 48.9837° N 122.7736° W, then east to a point at 48.9837°N, 122.7541°W, then south-southeast to a point at 48.9808°N, 122.7531°W, then southwest to a point at 48.9721°N, 122.7740°W, then east-southeast to a point at 48.9661°N, 122.7649°W and finally south-southwest to a point on the western Drayton Harbor shore at 48.9642°N, 122.7684°W.



Map 2. New Classifications in Drayton Harbor Growing Area

Appendix A. Individual Sampling Results Marine Stations in Drayton Harbor

Station: 3

**Classification: Conditionally
Approved**

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7 - 130.0

GeoMean (FC/100 mL): 4

Date Range: 12/10/2013 - 07/28/2016

E90th (FC/100 mL): 20.1

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
12/10/2013	Regulatory	13:26	Ebb	3	30	7.8
01/22/2014	Regulatory	12:49	Ebb	7	30	2.0
02/04/2014	Regulatory	10:21	Ebb	5	30	130.0
03/11/2014	Regulatory	12:55	Flood	9	24	1.7
04/10/2014	Regulatory	10:39	Flood	11	29	1.7
05/06/2014	Regulatory	10:09	Flood	12	30	33.0
06/05/2014	Regulatory	12:20	Flood	17	19	1.7
07/17/2014	Regulatory	11:27	Ebb	19	25	2.0
08/12/2014	Regulatory	11:18	Ebb	17	26	2.0
09/03/2014	Regulatory	11:33	Flood	18	26	13.0
09/17/2014	Regulatory	12:04	Flood	15	30	1.7
11/19/2014	Regulatory	14:36	Flood	7	28	4.0
12/16/2014	Regulatory	11:29	Flood	7	25	7.8
01/15/2015	Regulatory	10:19	Flood	6	25	1.7
02/03/2015	Regulatory	10:06	Ebb	9	26	4.5
03/31/2015	Regulatory	14:22	Flood	12	28	2.0
05/26/2015	Regulatory	12:01	Flood	15	27	1.7
06/09/2015	Regulatory	10:00	Flood	19	25	1.7
08/24/2015	Regulatory	14:54	Flood	20	25	1.7
09/22/2015	Regulatory	12:42	Flood	15	26	2.0
10/20/2015	Regulatory	12:36	Flood	13	30	7.8
11/18/2015	Regulatory	10:51	Flood	9	27	23.0
12/01/2015	Regulatory	13:01	Ebb	7	30	4.5
01/20/2016	Regulatory	10:45	Flood	8	31	7.8
02/17/2016	Regulatory	10:42	Flood	9	15	110.0
03/29/2016	Regulatory	07:37	Flood	9	25	1.7
04/26/2016	Regulatory	09:04	Ebb	14	24	1.7
05/03/2016	Regulatory	14:18	Flood	17	25	1.7
07/21/2016	Regulatory	08:44	Ebb	20	22	1.7
07/28/2016	Regulatory	16:07	Ebb	22	20	1.7

Station: 4

Classification: Conditionally
Approved

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7 - 220.0

GeoMean (FC/100 mL): 5.3

Date Range: 11/05/2013 - 07/28/2016

E90th (FC/100 mL): 23.2

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
11/05/2013	Regulatory	10:00	Ebb	9	29	7.8
12/10/2013	Regulatory	13:11	Ebb	5	28	23.0
01/22/2014	Regulatory	12:27	Ebb	7	28	2.0
02/04/2014	Regulatory	09:57	Ebb	5	30	6.8
03/11/2014	Regulatory	13:13	Flood	9	20	2.0
04/10/2014	Regulatory	09:55	Ebb	11	29	1.7
05/06/2014	Regulatory	09:48	Flood	13	25	220.0
06/05/2014	Regulatory	11:43	Flood	18	19	2.0
08/12/2014	Regulatory	10:14	Ebb	18	26	7.8
09/03/2014	Regulatory	11:14	Flood	17	26	22.0
09/17/2014	Regulatory	11:50	Flood	15	30	1.7
11/19/2014	Regulatory	14:24	Flood	10	28	4.5
12/16/2014	Regulatory	11:01	Flood	7	25	7.8
01/15/2015	Regulatory	09:53	Flood	6	25	13.0
02/03/2015	Regulatory	09:53	Ebb	8	25	6.8
03/31/2015	Regulatory	14:10	Flood	12	28	1.8
05/26/2015	Regulatory	11:14	Flood	15	27	1.7
06/09/2015	Regulatory	09:43	Flood	18	25	4.5
08/24/2015	Regulatory	14:40	Flood	19	25	1.7
09/22/2015	Regulatory	12:17	Flood	15	28	4.5
10/20/2015	Regulatory	12:24	Flood	13	30	1.7
11/18/2015	Regulatory	10:22	Flood	9	27	4.5
12/01/2015	Regulatory	12:50	Ebb	8	30	7.8
01/20/2016	Regulatory	10:32	Flood	8	31	4.5
02/17/2016	Regulatory	10:19	Flood	9	21	49.0
03/29/2016	Regulatory	07:25	Flood	10	24	17.0
04/26/2016	Regulatory	08:46	Ebb	14	22	4.0
05/03/2016	Regulatory	13:58	Flood	15	25	2.0
07/21/2016	Regulatory	08:26	Ebb	20	23	4.0
07/28/2016	Regulatory	15:56	Ebb	22	20	1.7

Station: 5

Classification: Conditionally
Approved

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7 - 170.0

GeoMean (FC/100 mL): 4.1

Date Range: 12/10/2013 - 07/28/2016

E90th (FC/100 mL): 22.6

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
12/10/2013	Regulatory	13:33	Ebb	2	28	17.0
01/22/2014	Regulatory	12:51	Ebb	7	26	4.0
02/04/2014	Regulatory	10:26	Ebb	5	30	33.0
03/11/2014	Regulatory	12:48	Flood	9	22	1.7
04/10/2014	Regulatory	10:43	Flood	11	29	2.0
05/06/2014	Regulatory	10:16	Flood	12	28	170.0
06/05/2014	Regulatory	12:26	Flood	17	19	1.7
07/17/2014	Regulatory	11:21	Ebb	19	26	2.0
08/12/2014	Regulatory	11:24	Ebb	17	26	13.0
09/03/2014	Regulatory	11:40	Flood	18	26	33.0
09/17/2014	Regulatory	12:11	Flood	16	30	1.7
11/19/2014	Regulatory	14:38	Flood	7	28	1.7
12/16/2014	Regulatory	11:33	Flood	7	25	2.0
01/15/2015	Regulatory	10:22	Flood	6	25	1.7
02/03/2015	Regulatory	10:13	Ebb	9	26	1.8
03/31/2015	Regulatory	14:30	Flood	12	25	2.0
05/26/2015	Regulatory	11:59	Flood	15	26	1.7
06/09/2015	Regulatory	10:09	Flood	18	25	1.7
08/24/2015	Regulatory	15:03	Flood	20	25	1.7
09/22/2015	Regulatory	12:45	Flood	15	28	1.7
10/20/2015	Regulatory	12:42	Flood	13	30	4.5
11/18/2015	Regulatory	10:54	Flood	9	27	23.0
12/01/2015	Regulatory	13:09	Ebb	6	30	7.8
01/20/2016	Regulatory	10:57	Flood	8	31	2.0
02/17/2016	Regulatory	10:45	Flood	9	15	79.0
03/29/2016	Regulatory	07:45	Flood	8	24	4.0
04/26/2016	Regulatory	09:10	Ebb	14	23	1.7
05/03/2016	Regulatory	14:26	Flood	17	25	1.7
07/21/2016	Regulatory	08:46	Ebb	20	22	2.0
07/28/2016	Regulatory	16:14	Ebb	22	23	2.0

Station: 12

Classification: Conditionally
Approved

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7 - 350.0

GeoMean (FC/100 mL): 4.2

Date Range: 11/05/2013 - 07/28/2016

E90th (FC/100 mL): 24.2

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
11/05/2013	Regulatory	10:47	Ebb	7	27	11.0
12/10/2013	Regulatory	13:32	Ebb	2	28	13.0
01/22/2014	Regulatory	12:55	Ebb	7	30	4.5
02/04/2014	Regulatory	10:35	Ebb	3	28	7.8
03/11/2014	Regulatory	12:50	Flood	9	25	2.0
04/10/2014	Regulatory	10:55	Flood	11	28	1.7
05/06/2014	Regulatory	10:14	Flood	12	25	350.0
06/05/2014	Regulatory	12:37	Flood	17	19	1.7
07/17/2014	Regulatory	11:22	Ebb	19	26	1.7
09/03/2014	Regulatory	11:39	Flood	17	25	33.0
09/17/2014	Regulatory	12:10	Flood	16	30	1.7
11/19/2014	Regulatory	14:42	Ebb	7	28	1.7
12/16/2014	Regulatory	11:42	Flood	7	25	7.8
01/15/2015	Regulatory	10:29	Flood	5	20	1.7
02/03/2015	Regulatory	10:11	Ebb	9	26	1.7
03/31/2015	Regulatory	14:28	Flood	12	26	2.0
05/26/2015	Regulatory	11:52	Flood	16	26	1.7
06/09/2015	Regulatory	10:08	Flood	18	25	1.7
08/24/2015	Regulatory	15:01	Flood	20	25	1.7
09/22/2015	Regulatory	12:52	Flood	15	28	1.7
10/20/2015	Regulatory	12:40	Flood	13	30	7.8
11/18/2015	Regulatory	11:00	Flood	8	26	33.0
12/01/2015	Regulatory	13:08	Ebb	6	30	2.0
01/20/2016	Regulatory	10:54	Flood	8	30	4.5
02/17/2016	Regulatory	10:51	Flood	9	17	70.0
03/29/2016	Regulatory	07:44	Flood	8	23	7.8
04/26/2016	Regulatory	09:16	Ebb	14	23	1.7
05/03/2016	Regulatory	14:24	Flood	17	25	1.7
07/21/2016	Regulatory	08:50	Ebb	21	22	1.7
07/28/2016	Regulatory	16:12	Ebb	22	23	1.7

Station: 313

Classification: Conditionally
Approved

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7 - 350.0

GeoMean (FC/100 mL): 4.8

Date Range: 12/10/2013 - 07/28/2016

E90th (FC/100 mL): 34.2

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
12/10/2013	Regulatory	13:30	Ebb	3	28	17.0
01/22/2014	Regulatory	12:53	Ebb	7	30	4.5
02/04/2014	Regulatory	10:30	Ebb	2	28	4.5
03/11/2014	Regulatory	12:52	Flood	9	22	6.1
04/10/2014	Regulatory	10:50	Flood	11	29	1.7
05/06/2014	Regulatory	10:13	Flood	12	25	240.0
06/05/2014	Regulatory	12:30	Flood	18	19	2.0
07/17/2014	Regulatory	11:28	Ebb	19	25	1.7
08/12/2014	Regulatory	11:40	Ebb	17	26	1.7
09/03/2014	Regulatory	11:38	Flood	18	25	23.0
09/17/2014	Regulatory	12:08	Flood	16	30	1.7
11/19/2014	Regulatory	14:40	Ebb	7	28	17.0
12/16/2014	Regulatory	11:37	Flood	7	25	1.7
01/15/2015	Regulatory	10:25	Flood	5	22	2.0
02/03/2015	Regulatory	10:09	Ebb	9	25	1.7
03/31/2015	Regulatory	14:27	Flood	12	28	2.0
05/26/2015	Regulatory	11:49	Flood	15	26	1.7
06/09/2015	Regulatory	10:05	Flood	18	25	1.7
08/24/2015	Regulatory	14:59	Flood	20	25	1.7
09/22/2015	Regulatory	12:49	Flood	16	28	1.7
10/20/2015	Regulatory	12:39	Flood	13	30	23.0
11/18/2015	Regulatory	10:57	Flood	8	26	49.0
12/01/2015	Regulatory	13:06	Ebb	7	30	4.5
01/20/2016	Regulatory	10:52	Flood	8	31	2.0
02/17/2016	Regulatory	10:48	Flood	9	10	350.0
03/29/2016	Regulatory	07:41	Flood	8	20	27.0
04/26/2016	Regulatory	09:13	Ebb	14	24	1.7
05/03/2016	Regulatory	14:22	Flood	17	26	1.7
07/21/2016	Regulatory	08:48	Ebb	20	22	1.7
07/28/2016	Regulatory	16:11	Ebb	22	20	2.0

Station: 314

Classification: Conditionally
Approved

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7 - 79.0

GeoMean (FC/100 mL): 4

Date Range: 12/10/2013 - 07/28/2016

E90th (FC/100 mL): 20.2

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
12/10/2013	Regulatory	13:28	Ebb	3	30	7.8
01/22/2014	Regulatory	12:48	Ebb	7	30	2.0
02/04/2014	Regulatory	10:16	Ebb	3	29	49.0
03/11/2014	Regulatory	12:57	Flood	9	20	1.7
04/10/2014	Regulatory	10:29	Ebb	11	29	1.7
05/06/2014	Regulatory	10:11	Flood	12	25	79.0
06/05/2014	Regulatory	12:16	Flood	17	19	1.7
07/17/2014	Regulatory	11:28	Ebb	19	25	1.7
08/12/2014	Regulatory	11:11	Ebb	17	27	2.0
09/03/2014	Regulatory	11:35	Flood	18	25	49.0
09/17/2014	Regulatory	12:05	Flood	16	30	1.7
11/19/2014	Regulatory	14:35	Flood	7	26	1.7
12/16/2014	Regulatory	11:26	Flood	7	25	4.5
01/15/2015	Regulatory	10:15	Flood	6	25	4.5
02/03/2015	Regulatory	10:07	Ebb	9	28	2.0
03/31/2015	Regulatory	14:24	Flood	12	28	1.7
05/26/2015	Regulatory	11:45	Flood	16	26	1.7
06/09/2015	Regulatory	10:03	Flood	18	25	2.0
08/24/2015	Regulatory	14:57	Flood	20	25	1.7
09/22/2015	Regulatory	12:40	Flood	15	28	2.0
10/20/2015	Regulatory	12:35	Flood	13	30	17.0
11/18/2015	Regulatory	10:48	Flood	9	27	11.0
12/01/2015	Regulatory	13:03	Ebb	7	30	4.5
01/20/2016	Regulatory	10:48	Flood	8	31	7.8
02/17/2016	Regulatory	10:40	Flood	9	10	79.0
03/29/2016	Regulatory	07:39	Flood	8	26	2.0
04/26/2016	Regulatory	09:02	Ebb	14	24	1.7
05/03/2016	Regulatory	14:19	Flood	17	26	1.7
07/21/2016	Regulatory	08:42	Ebb	20	22	1.7
07/28/2016	Regulatory	16:09	Ebb	22	20	1.7

Station: 315

Classification: Conditionally
Approved

Method: SRS

Total Samples: 30

Range (FC/100 mL): 1.7 - 130.0

GeoMean (FC/100 mL): 4.3

Date Range: 12/10/2013 - 07/28/2016

E90th (FC/100 mL): 21.3

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
12/10/2013	Regulatory	13:24	Ebb	3	28	4.0
01/22/2014	Regulatory	12:45	Ebb	7	30	2.0
02/04/2014	Regulatory	10:12	Ebb	2	28	23.0
03/11/2014	Regulatory	13:00	Flood	9	20	4.5
04/10/2014	Regulatory	10:21	Ebb	11	29	1.7
05/06/2014	Regulatory	10:06	Flood	12	28	130.0
06/05/2014	Regulatory	12:10	Flood	18	19	1.7
07/17/2014	Regulatory	11:31	Ebb	19	25	1.7
08/12/2014	Regulatory	10:48	Ebb	19	26	4.5
09/03/2014	Regulatory	11:31	Flood	18	26	11.0
09/17/2014	Regulatory	12:02	Flood	15	30	1.7
11/19/2014	Regulatory	14:33	Flood	7	28	1.7
12/16/2014	Regulatory	11:21	Flood	7	25	7.8
01/15/2015	Regulatory	10:12	Flood	6	25	2.0
02/03/2015	Regulatory	10:04	Ebb	8	26	2.0
03/31/2015	Regulatory	14:20	Flood	12	26	2.0
05/26/2015	Regulatory	11:42	Flood	16	26	1.7
06/09/2015	Regulatory	09:58	Flood	19	25	4.5
08/24/2015	Regulatory	14:52	Flood	20	25	1.7
09/22/2015	Regulatory	12:34	Flood	15	29	1.7
10/20/2015	Regulatory	12:32	Flood	13	30	7.8
11/18/2015	Regulatory	10:42	Flood	8	25	33.0
12/01/2015	Regulatory	12:59	Ebb	7	30	4.0
01/20/2016	Regulatory	10:42	Flood	8	31	7.8
02/17/2016	Regulatory	10:36	Flood	9	15	110.0
03/29/2016	Regulatory	07:35	Flood	9	25	14.0
04/26/2016	Regulatory	08:59	Ebb	14	24	1.7
05/03/2016	Regulatory	14:16	Flood	17	25	1.7
07/21/2016	Regulatory	08:39	Ebb	20	22	1.7
07/28/2016	Regulatory	16:05	Ebb	22	20	1.7

Station: 6**Classification: Prohibited****Method: SRS****Total Samples: 30****Date Range: 11/05/2013 - 07/28/2016****Range (FC/100 mL): 1.7 - 240.0****E90th (FC/100 mL): 32.6****GeoMean (FC/100 mL): 6.7****Meets Standard: Y**

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
11/05/2013	Regulatory	09:55	Ebb	9	28	17.0
12/10/2013	Regulatory	13:10	Ebb	4	30	23.0
01/22/2014	Regulatory	12:26	Ebb	7	15	23.0
02/04/2014	Regulatory	09:55	Ebb	5	30	4.5
03/11/2014	Regulatory	13:16	Flood	9	18	6.8
04/10/2014	Regulatory	09:50	Ebb	10	29	2.0
05/06/2014	Regulatory	09:46	Flood	13	24	240.0
06/05/2014	Regulatory	11:40	Flood	18	19	2.0
08/12/2014	Regulatory	10:11	Ebb	19	26	2.0
09/03/2014	Regulatory	11:12	Flood	17	26	23.0
09/17/2014	Regulatory	11:49	Flood	15	30	2.0
11/19/2014	Regulatory	14:23	Flood	10	28	2.0
12/16/2014	Regulatory	10:57	Flood	8	25	7.8
01/15/2015	Regulatory	09:50	Flood	6	25	11.0
02/03/2015	Regulatory	09:52	Ebb	8	22	27.0
03/31/2015	Regulatory	14:09	Flood	12	25	17.0
05/26/2015	Regulatory	11:12	Flood	15	27	1.7
06/09/2015	Regulatory	09:41	Flood	18	24	1.7
08/24/2015	Regulatory	14:39	Flood	19	25	1.7
09/22/2015	Regulatory	12:15	Flood	15	28	2.0
10/20/2015	Regulatory	12:23	Flood	13	30	7.8
11/18/2015	Regulatory	10:17	Flood	9	27	13.0
12/01/2015	Regulatory	12:49	Ebb	8	32	11.0
01/20/2016	Regulatory	10:30	Flood	8	31	7.8
02/17/2016	Regulatory	10:17	Flood	9	20	33.0
03/29/2016	Regulatory	07:24	Flood	10	24	2.0
04/26/2016	Regulatory	08:44	Ebb	14	22	11.0
05/03/2016	Regulatory	13:55	Flood	16	25	2.0
07/21/2016	Regulatory	08:24	Ebb	20	24	13.0
07/28/2016	Regulatory	15:55	Ebb	22	20	1.7

Station: 8**Classification: Prohibited****Method: SRS****Total Samples: 30****Date Range: 11/05/2013 - 07/28/2016****Range (FC/100 mL): 1.7 - 540.0****E90th (FC/100 mL): 79.1****GeoMean (FC/100 mL): 12****Meets Standard: N**

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
11/05/2013	Regulatory	09:50	Ebb	9	29	70.0
12/10/2013	Regulatory	13:07	Ebb	4	30	4.5
01/22/2014	Regulatory	12:24	Ebb	7	22	14.0
02/04/2014	Regulatory	09:50	Ebb	5	30	17.0
03/11/2014	Regulatory	13:17	Flood	9	20	4.5
04/10/2014	Regulatory	09:45	Ebb	10	29	4.5
05/06/2014	Regulatory	09:44	Flood	12	24	540.0
06/05/2014	Regulatory	11:37	Flood	18	17	1.7
08/12/2014	Regulatory	10:06	Ebb	19	26	7.8
09/03/2014	Regulatory	11:10	Flood	17	26	17.0
09/17/2014	Regulatory	11:48	Flood	15	30	1.7
11/19/2014	Regulatory	14:21	Flood	10	26	1.7
12/16/2014	Regulatory	10:53	Flood	7	25	49.0
01/15/2015	Regulatory	09:48	Flood	6	24	130.0
02/03/2015	Regulatory	09:50	Ebb	8	25	23.0
03/31/2015	Regulatory	14:07	Flood	12	25	17.0
05/26/2015	Regulatory	11:09	Flood	15	27	4.0
06/09/2015	Regulatory	09:38	Flood	18	25	11.0
08/24/2015	Regulatory	14:37	Flood	19	25	1.7
09/22/2015	Regulatory	12:13	Flood	15	28	1.7
10/20/2015	Regulatory	12:21	Flood	13	30	49.0
11/18/2015	Regulatory	10:12	Flood	9	29	49.0
12/01/2015	Regulatory	12:47	Ebb	8	30	33.0
01/20/2016	Regulatory	10:28	Flood	8	30	33.0
02/17/2016	Regulatory	10:15	Flood	9	20	49.0
03/29/2016	Regulatory	07:22	Flood	10	25	7.8
04/26/2016	Regulatory	08:39	Ebb	13	24	17.0
05/03/2016	Regulatory	13:54	Flood	16	25	1.7
07/21/2016	Regulatory	08:21	Ebb	20	25	13.0
07/28/2016	Regulatory	15:54	Ebb	22	20	3.6

Station: 11

Classification: Prohibited

Method: SRS

Total Samples: 30

Date Range: 11/05/2013 - 07/28/2016

Range (FC/100 mL): 1.7 - 110.0

E90th (FC/100 mL): 16.4

GeoMean (FC/100 mL): 3.5

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
11/05/2013	Regulatory	11:05	Ebb			23.0
12/10/2013	Regulatory	13:35	Ebb	3	28	6.8
01/22/2014	Regulatory	12:56	Ebb	7	30	23.0
02/04/2014	Regulatory	10:40	Ebb	4	29	7.8
03/11/2014	Regulatory	12:47	Flood	9	25	1.7
04/10/2014	Regulatory	10:59	Flood	11	29	1.7
05/06/2014	Regulatory	10:18	Flood	12	28	110.0
06/05/2014	Regulatory	12:41	Flood	17	19	1.7
07/17/2014	Regulatory	11:19	Ebb	19	28	1.7
09/03/2014	Regulatory	11:42	Flood	18	25	17.0
09/17/2014	Regulatory	12:13	Flood	16	30	1.7
11/19/2014	Regulatory	14:43	Ebb	7	28	1.8
12/16/2014	Regulatory	11:46	Flood	7	25	7.8
01/15/2015	Regulatory	10:33	Flood	5	22	1.7
02/03/2015	Regulatory	10:15	Ebb	9	26	2.0
03/31/2015	Regulatory	14:31	Flood	12	28	1.7
05/26/2015	Regulatory	11:54	Flood	15	26	1.7
06/09/2015	Regulatory	10:11	Flood	18	25	2.0
08/24/2015	Regulatory	15:05	Flood	20	25	1.7
09/22/2015	Regulatory	12:55	Flood	15	28	1.7
10/20/2015	Regulatory	12:43	Flood	13	30	2.0
11/18/2015	Regulatory	11:03	Flood	9	27	11.0
12/01/2015	Regulatory	13:11	Ebb	7	30	1.7
01/20/2016	Regulatory	11:00	Flood	8	32	1.7
02/17/2016	Regulatory	10:54	Flood	9	20	49.0
03/29/2016	Regulatory	07:47	Flood	9	27	1.7
04/26/2016	Regulatory	09:19	Ebb	14	25	2.0
05/03/2016	Regulatory	14:27	Flood	17	25	1.7
07/21/2016	Regulatory	08:52	Ebb	21	22	1.7
07/28/2016	Regulatory	16:15	Ebb	22	23	1.7

Station: 15

Classification: Prohibited

Method: SRS

Total Samples: 30

Date Range: 12/10/2013 - 07/28/2016

Range (FC/100 mL): 1.7 - 920.0

E90th (FC/100 mL): 109.6

GeoMean (FC/100 mL): 17.3

Meets Standard: N

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
12/10/2013	Regulatory	13:38	Ebb	3	28	13.0
01/22/2014	Regulatory	12:59	Ebb	7	30	33.0
02/04/2014	Regulatory	09:45	Ebb	5	30	13.0
03/11/2014	Regulatory	12:44	Flood	9	22	22.0
04/10/2014	Regulatory	09:39	Ebb	10	28	70.0
05/06/2014	Regulatory	10:22	Flood	12	25	920.0
06/05/2014	Regulatory	11:31	Flood	18	15	2.0
07/17/2014	Regulatory	11:16	Ebb	19	26	79.0
08/12/2014	Regulatory	10:02	Ebb	17	26	51.5
09/03/2014	Regulatory	11:08	Flood	17	26	33.0
09/17/2014	Regulatory	11:46	Flood	15	30	17.0
11/19/2014	Regulatory	14:19	Flood	10	26	1.7
12/16/2014	Regulatory	11:53	Flood	8	27	11.0
01/15/2015	Regulatory	10:38	Flood	6	25	9.2
02/03/2015	Regulatory	10:17	Ebb	9	25	49.0
03/31/2015	Regulatory	14:05	Flood	12	22	31.0
05/26/2015	Regulatory	11:05	Flood	16	26	23.0
06/09/2015	Regulatory	10:15	Flood	18	22	17.0
08/24/2015	Regulatory	14:35	Flood	19	25	1.7
09/22/2015	Regulatory	12:09	Flood	15	29	1.7
10/20/2015	Regulatory	12:47	Flood	13	30	7.8
11/18/2015	Regulatory	10:06	Flood	9	28	33.0
12/01/2015	Regulatory	12:46	Ebb	8	30	49.0
01/20/2016	Regulatory	10:26	Flood	8	30	33.0
02/17/2016	Regulatory	10:11	Flood	9	22	130.0
03/29/2016	Regulatory	07:50	Flood	9	28	4.5
04/26/2016	Regulatory	08:36	Ebb	13	25	7.8
05/03/2016	Regulatory	13:51	Flood	16	24	1.7
07/21/2016	Regulatory	08:18	Ebb	19	24	33.0
07/28/2016	Regulatory	15:52	Ebb	22	20	13.0

Station: 378

Classification: Prohibited

Method: SRS

Total Samples: 30

Date Range: 09/24/2013 - 07/28/2016

Range (FC/100 mL): 1.7 - 350.0

E90th (FC/100 mL): 52.1

GeoMean (FC/100 mL): 7.9

Meets Standard: N

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
09/24/2013	Regulatory	10:18	Flood	13	29	4.5
10/15/2013	Regulatory	14:50	Flood	12	30	1.7
11/05/2013	Regulatory	10:11	Ebb	9	28	13.0
12/10/2013	Regulatory	13:17	Ebb	4	28	4.5
01/22/2014	Regulatory	12:33	Ebb	7	20	4.5
02/04/2014	Regulatory	10:02	Ebb	4	30	49.0
03/11/2014	Regulatory	13:09	Flood	9	22	1.7
05/06/2014	Regulatory	09:53	Flood	13	22	350.0
06/05/2014	Regulatory	11:45	Flood	21	22	17.0
09/03/2014	Regulatory	11:21	Flood	17	25	13.0
09/17/2014	Regulatory	11:54	Flood	15	30	1.7
11/19/2014	Regulatory	14:27	Flood	9	28	9.3
12/16/2014	Regulatory	11:07	Flood	7	24	7.8
01/15/2015	Regulatory	10:04	Flood	6	25	14.0
02/03/2015	Regulatory	09:58	Ebb	8	14	79.0
03/31/2015	Regulatory	14:14	Flood	12	20	33.0
05/26/2015	Regulatory	11:26	Flood	17	29	1.7
06/09/2015	Regulatory	09:48	Flood	18	25	4.0
08/24/2015	Regulatory	14:45	Flood	19	25	1.7
09/22/2015	Regulatory	12:22	Flood	15	28	1.7
10/20/2015	Regulatory	12:27	Flood	13	30	4.5
11/18/2015	Regulatory	10:28	Flood	7	20	33.0
12/01/2015	Regulatory	12:53	Ebb	8	30	13.0
01/20/2016	Regulatory	10:35	Flood	8	33	7.8
02/17/2016	Regulatory	10:26	Flood	10	10	21.0
03/29/2016	Regulatory	07:28	Flood	10	21	2.0
04/26/2016	Regulatory	08:51	Ebb	13	18	170.0
05/03/2016	Regulatory	14:03	Flood	16	25	2.0
07/21/2016	Regulatory	08:30	Ebb	21	21	2.0
07/28/2016	Regulatory	16:00	Ebb	22	20	1.8

Station: 379

Classification: Prohibited

Method: SRS

Total Samples: 30

Date Range: 10/15/2013 - 07/28/2016

Range (FC/100 mL): 1.7 - 130.0

E90th (FC/100 mL): 28.3

GeoMean (FC/100 mL): 6.4

Meets Standard: Y

Sample Date	Event Type	Time	Tide	SWT	Salinity	Fecal Coliform
10/15/2013	Regulatory	14:52	Flood	12	30	1.7
11/05/2013	Regulatory	10:18	Ebb	8	27	33.0
12/10/2013	Regulatory	13:20	Ebb	3	28	11.0
01/22/2014	Regulatory	12:39	Ebb	7	22	33.0
02/04/2014	Regulatory	10:09	Ebb	4	30	11.0
03/11/2014	Regulatory	13:03	Flood	9	20	1.7
05/06/2014	Regulatory	10:02	Flood	12	28	130.0
06/05/2014	Regulatory	11:58	Flood	18	20	1.7
07/17/2014	Regulatory	11:35	Ebb	19	25	4.0
09/03/2014	Regulatory	11:27	Flood	18	25	11.0
09/17/2014	Regulatory	11:57	Flood	16	30	1.7
11/19/2014	Regulatory	14:30	Flood	8	26	4.5
12/16/2014	Regulatory	11:13	Flood	7	25	13.0
01/15/2015	Regulatory	10:08	Flood	6	25	2.0
02/03/2015	Regulatory	10:00	Ebb	8	20	14.0
03/31/2015	Regulatory	14:17	Flood	13	25	4.5
05/26/2015	Regulatory	11:32	Flood	18	27	2.0
06/09/2015	Regulatory	09:53	Flood	19	25	13.0
08/24/2015	Regulatory	14:48	Flood	20	26	1.7
09/22/2015	Regulatory	12:27	Flood	15	28	1.7
10/20/2015	Regulatory	12:29	Flood	13	30	17.0
11/18/2015	Regulatory	10:35	Flood	7	22	33.0
12/01/2015	Regulatory	12:55	Ebb	7	30	13.0
01/20/2016	Regulatory	10:38	Flood	8	28	11.0
02/17/2016	Regulatory	10:29	Flood	9	25	11.0
03/29/2016	Regulatory	07:31	Flood	9	25	4.5
04/26/2016	Regulatory	08:55	Ebb	15	21	1.7
05/03/2016	Regulatory	14:09	Flood	18	25	1.7
07/21/2016	Regulatory	08:34	Ebb	22	21	7.8
07/28/2016	Regulatory	16:02	Ebb	22	20	4.5

Appendix B. Conditional Closure Evaluations at All Marine Stations (X = excluded data)

Station 3

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:34	Ebb	49	5	28
X			2/7/2012	14:33	Flood	4.5	7	28
X			3/8/2012	10:36	Ebb	4.5	5	25
X			4/17/2012	15:11	Flood	1.7	11	26
X			5/10/2012	9:45	Ebb	4.5	11	29
X			6/12/2012	14:27	Ebb	2	16	25
X			7/23/2012	10:06	Ebb	1.7	16	23
X			8/8/2012	11:18	Flood	2	19	15
X			9/20/2012	10:11	Flood	6.8	15	28
X			10/23/2012	14:28	Ebb	1.7	9	29
X	X		11/26/2012	13:47	Flood	2	8	26
X	X		12/11/2012	12:09	Flood	33	7	30
X	X	X	1/8/2013	14:05	Ebb	79	6	21
X			2/21/2013	14:31	Ebb	1.7	7	28
X			3/21/2013	13:08	Ebb	1.8	8	28
X			4/4/2013	12:16	Flood	1.7	12	30
X			5/15/2013	10:03	Ebb	1.7	14	28
X			6/18/2013	11:37	Flood	1.7	18	26
X			7/23/2013	9:42	Ebb	1.7	24	19
X			8/14/2013	14:45	Ebb	2	20	25
X			9/24/2013	10:29	Flood	1.8	13	29
X			10/15/2013	15:00	Flood	1.7	12	30
X	X	X	11/5/2013	10:35	Ebb	13	9	27
	X		12/10/2013	13:26	Ebb	7.8	3	30
	X		1/22/2014	12:49	Ebb	2	7	30
			2/4/2014	10:21	Ebb	130	5	30
		X	3/11/2014	12:55	Flood	1.7	9	24
			4/10/2014	10:39	Flood	1.7	11	29
		X	5/6/2014	10:09	Flood	33	12	30
			6/5/2014	12:20	Flood	1.7	17	19
			7/17/2014	11:27	Ebb	2	19	25
			8/12/2014	11:18	Ebb	2	17	26
			9/3/2014	11:33	Flood	13	18	26
			9/17/2014	12:04	Flood	1.7	15	30
	X		11/19/2014	14:36	Flood	4	7	28
	X		12/16/2014	11:29	Flood	7.8	7	25
	X		1/15/2015	10:19	Flood	1.7	6	25
			2/3/2015	10:06	Ebb	4.5	9	26
		X	3/31/2015	14:22	Flood	2	12	28
			5/26/2015	12:01	Flood	1.7	15	27
			6/9/2015	10:00	Flood	1.7	19	25
			8/24/2015	14:54	Flood	1.7	20	25
			9/22/2015	12:42	Flood	2	15	26
			10/20/2015	12:36	Flood	7.8	13	30
	X		11/18/2015	10:51	Flood	23	9	27
	X		12/1/2015	13:01	Ebb	4.5	7	30
	X		1/20/2016	10:45	Flood	7.8	8	31
		X	2/17/2016	10:42	Flood	110	9	15
			3/29/2016	7:37	Flood	1.7	9	25
			4/26/2016	9:04	Ebb	1.7	14	24
			5/3/2016	14:18	Flood	1.7	17	25
			7/21/2016	8:44	Ebb	1.7	20	22
			7/28/2016	16:07	Ebb	1.7	22	20

Station 4

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:27	Ebb	33	7	29
X			2/7/2012	13:57	Flood	11	8	30
X			3/8/2012	9:36	Ebb	13	6	20
X			4/17/2012	14:43	Flood	1.7	10	28
X			5/10/2012	9:10	Ebb	4.5	11	29
X			6/12/2012	13:57	Flood	1.7	15	25
X			7/23/2012	9:55	Ebb	7.8	16	23
X			8/8/2012	10:40	Flood	4	19	15
X			9/20/2012	9:36	Flood	2	15	28
X			10/23/2012	14:09	Flood	4.5	10	32
X	X		11/26/2012	13:27	Flood	6.8	8	30
X	X		12/11/2012	11:56	Flood	22	7	30
X	X	X	1/8/2013	13:30	Ebb	33	6	25
X			2/21/2013	14:16	Ebb	1.7	7	28
X			3/21/2013	13:25	Ebb	4.5	8	24
X			4/4/2013	12:03	Flood	1.7	11	28
X			5/15/2013	10:26	Ebb	4.5	15	27
X			6/18/2013	11:09	Flood	1.7	18	25
X			7/23/2013	10:30	Ebb	2	25	20
X			8/14/2013	14:24	Ebb	2	20	26
X			9/24/2013	10:16	Flood	1.7	13	29
X			10/15/2013	14:47	Flood	1.7	12	30
	X	X	11/5/2013	10:00	Ebb	7.8	9	29
	X		12/10/2013	13:11	Ebb	23	5	28
	X		1/22/2014	12:27	Ebb	2	7	28
			2/4/2014	9:57	Ebb	6.8	5	30
		X	3/11/2014	13:13	Flood	2	9	20
			4/10/2014	9:55	Ebb	1.7	11	29
		X	5/6/2014	9:48	Flood	220	13	25
			6/5/2014	11:43	Flood	2	18	19
			8/12/2014	10:14	Ebb	7.8	18	26
			9/3/2014	11:14	Flood	22	17	26
			9/17/2014	11:50	Flood	1.7	15	30
	X		11/19/2014	14:24	Flood	4.5	10	28
	X		12/16/2014	11:01	Flood	7.8	7	25
	X		1/15/2015	9:53	Flood	13	6	25
			2/3/2015	9:53	Ebb	6.8	8	25
		X	3/31/2015	14:10	Flood	1.8	12	28
			5/26/2015	11:14	Flood	1.7	15	27
			6/9/2015	9:43	Flood	4.5	18	25
			8/24/2015	14:40	Flood	1.7	19	25
			9/22/2015	12:17	Flood	4.5	15	28
			10/20/2015	12:24	Flood	1.7	13	30
	X		11/18/2015	10:22	Flood	4.5	9	27
	X		12/1/2015	12:50	Ebb	7.8	8	30
	X		1/20/2016	10:32	Flood	4.5	8	31
		X	2/17/2016	10:19	Flood	49	9	21
			3/29/2016	7:25	Flood	17	10	24
			4/26/2016	8:46	Ebb	4	14	22
			5/3/2016	13:58	Flood	2	15	25
			7/21/2016	8:26	Ebb	4	20	23
			7/28/2016	15:56	Ebb	1.7	22	20

Station 5

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:31	Ebb	23	5	29
X			2/7/2012	14:42	Flood	13	7	28
X			3/8/2012	10:41	Ebb	7.8	6	24
X			4/17/2012	15:25	Flood	2	11	25
X			5/10/2012	9:50	Ebb	2	11	24
X			6/12/2012	14:40	Ebb	1.7	16	25
X			7/23/2012	10:01	Ebb	14	15	23
X			8/8/2012	11:33	Flood	6.8	19	15
X			9/20/2012	10:19	Flood	4.5	14	28
X			10/23/2012	14:39	Ebb	2	9	30
X	X		11/26/2012	13:48	Flood	13	8	28
X	X		12/11/2012	12:17	Flood	34	7	30
X	X	X	1/8/2013	14:10	Ebb	17	6	26
X			2/21/2013	14:32	Ebb	1.8	7	28
X			3/21/2013	13:10	Ebb	1.7	8	28
X			4/4/2013	12:17	Flood	1.7	11	30
X			5/15/2013	10:07	Ebb	1.7	14	27
X			6/18/2013	11:51	Flood	4.5	19	25
X			7/23/2013	10:25	Ebb	1.7	24	19
X			8/14/2013	14:46	Ebb	1.7	20	26
X			9/24/2013	10:41	Flood	4.5	12	29
X			10/15/2013	15:08	Flood	1.7	12	30
X	X	X	11/5/2013	10:40	Ebb	22	9	27
	X		12/10/2013	13:33	Ebb	17	2	28
	X		1/22/2014	12:51	Ebb	4	7	26
			2/4/2014	10:26	Ebb	33	5	30
		X	3/11/2014	12:48	Flood	1.7	9	22
			4/10/2014	10:43	Flood	2	11	29
		X	5/6/2014	10:16	Flood	170	12	28
			6/5/2014	12:26	Flood	1.7	17	19
			7/17/2014	11:21	Ebb	2	19	26
			8/12/2014	11:24	Ebb	13	17	26
			9/3/2014	11:40	Flood	33	18	26
			9/17/2014	12:11	Flood	1.7	16	30
	X		11/19/2014	14:38	Flood	1.7	7	28
	X		12/16/2014	11:33	Flood	2	7	25
	X		1/15/2015	10:22	Flood	1.7	6	25
			2/3/2015	10:13	Ebb	1.8	9	26
		X	3/31/2015	14:30	Flood	2	12	25
			5/26/2015	11:59	Flood	1.7	15	26
			6/9/2015	10:09	Flood	1.7	18	25
			8/24/2015	15:03	Flood	1.7	20	25
			9/22/2015	12:45	Flood	1.7	15	28
			10/20/2015	12:42	Flood	4.5	13	30
	X		11/18/2015	10:54	Flood	23	9	27
	X		12/1/2015	13:09	Ebb	7.8	6	30
	X		1/20/2016	10:57	Flood	2	8	31
		X	2/17/2016	10:45	Flood	79	9	15
			3/29/2016	7:45	Flood	4	8	24
			4/26/2016	9:10	Ebb	1.7	14	23
			5/3/2016	14:26	Flood	1.7	17	25
			7/21/2016	8:46	Ebb	2	20	22
			7/28/2016	16:14	Ebb	2	22	23

Station 6

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:22	Ebb	49	6	29
X			2/7/2012	13:55	Flood	33	8	30
X			3/8/2012	9:31	Ebb	13	6	26
X			4/17/2012	14:42	Flood	2	11	26
X			5/10/2012	9:05	Ebb	2	11	29
X			6/12/2012	13:55	Flood	4	16	25
X			7/23/2012	9:50	Ebb	7.8	16	23
X			8/8/2012	10:36	Flood	4.5	19	18
X			9/20/2012	9:31	Flood	4.5	15	28
X			10/23/2012	14:07	Flood	11	10	32
X	X		11/26/2012	13:25	Flood	17	8	30
X	X		12/11/2012	11:54	Flood	49	7	30
X	X	X	1/8/2013	13:25	Ebb	22	6	26
X			2/21/2013	14:14	Ebb	1.7	7	28
X			3/21/2013	13:29	Ebb	2	8	24
X			4/4/2013	12:02	Flood	1.7	11	28
X			5/15/2013	10:30	Ebb	2	15	28
X			6/18/2013	11:07	Flood	33	18	26
X			7/23/2013	10:34	Ebb	4.5	23	21
X			8/14/2013	14:22	Ebb	4.5	20	26
X			9/24/2013	10:14	Flood	4.5	13	29
X			10/15/2013	14:46	Flood	1.7	12	30
X	X	X	11/5/2013	9:55	Ebb	17	9	28
	X		12/10/2013	13:10	Ebb	23	4	30
	X		1/22/2014	12:26	Ebb	23	7	15
			2/4/2014	9:55	Ebb	4.5	5	30
		X	3/11/2014	13:16	Flood	6.8	9	18
			4/10/2014	9:50	Ebb	2	10	29
		X	5/6/2014	9:46	Flood	240	13	24
			6/5/2014	11:40	Flood	2	18	19
			8/12/2014	10:11	Ebb	2	19	26
			9/3/2014	11:12	Flood	23	17	26
			9/17/2014	11:49	Flood	2	15	30
	X		11/19/2014	14:23	Flood	2	10	28
	X		12/16/2014	10:57	Flood	7.8	8	25
	X		1/15/2015	9:50	Flood	11	6	25
			2/3/2015	9:52	Ebb	27	8	22
		X	3/31/2015	14:09	Flood	17	12	25
			5/26/2015	11:12	Flood	1.7	15	27
			6/9/2015	9:41	Flood	1.7	18	24
			8/24/2015	14:39	Flood	1.7	19	25
			9/22/2015	12:15	Flood	2	15	28
			10/20/2015	12:23	Flood	7.8	13	30
	X		11/18/2015	10:17	Flood	13	9	27
	X		12/1/2015	12:49	Ebb	11	8	32
	X		1/20/2016	10:30	Flood	7.8	8	31
		X	2/17/2016	10:17	Flood	33	9	20
			3/29/2016	7:24	Flood	2	10	24
			4/26/2016	8:44	Ebb	11	14	22
			5/3/2016	13:55	Flood	2	16	25
			7/21/2016	8:24	Ebb	13	20	24
			7/28/2016	15:55	Ebb	1.7	22	20

Station 8

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:20	Ebb	79	6	30
X			2/7/2012	13:51	Flood	23	8	28
X			3/8/2012	9:26	Ebb	1.7	7	27
X			4/17/2012	14:40	Flood	6.8	11	26
X			5/10/2012	9:01	Ebb	6.8	11	29
X			6/12/2012	13:53	Flood	23	16	25
X			7/23/2012	9:41	Ebb	26	16	23
X			8/8/2012	10:31	Flood	4	19	4
X			9/20/2012	9:28	Flood	4	13	27
X			10/23/2012	14:06	Flood	2	10	32
X	X		11/26/2012	13:23	Flood	17	8	30
X	X		12/11/2012	11:52	Flood	33	7	30
X	X	X	1/8/2013	13:21	Ebb	140	6	21
X			2/21/2013	14:13	Ebb	1.7	7	25
X			3/21/2013	13:32	Ebb	4.5	8	25
X			4/4/2013	12:00	Flood	1.7	11	30
X			5/15/2013	10:36	Ebb	1.7	15	28
X			6/18/2013	11:05	Flood	13	18	26
X			7/23/2013	10:40	Ebb	49	24	21
X			8/14/2013	14:20	Ebb	4.5	20	26
X			9/24/2013	10:09	Flood	7.8	13	28
X			10/15/2013	14:44	Flood	1.7	12	32
	X	X	11/5/2013	9:50	Ebb	70	9	29
	X		12/10/2013	13:07	Ebb	4.5	4	30
	X		1/22/2014	12:24	Ebb	14	7	22
			2/4/2014	9:50	Ebb	17	5	30
		X	3/11/2014	13:17	Flood	4.5	9	20
			4/10/2014	9:45	Ebb	4.5	10	29
		X	5/6/2014	9:44	Flood	540	12	24
			6/5/2014	11:37	Flood	1.7	18	17
			8/12/2014	10:06	Ebb	7.8	19	26
			9/3/2014	11:10	Flood	17	17	26
			9/17/2014	11:48	Flood	1.7	15	30
	X		11/19/2014	14:21	Flood	1.7	10	26
	X		12/16/2014	10:53	Flood	49	7	25
	X		1/15/2015	9:48	Flood	130	6	24
			2/3/2015	9:50	Ebb	23	8	25
		X	3/31/2015	14:07	Flood	17	12	25
			5/26/2015	11:09	Flood	4	15	27
			6/9/2015	9:38	Flood	11	18	25
			8/24/2015	14:37	Flood	1.7	19	25
			9/22/2015	12:13	Flood	1.7	15	28
			10/20/2015	12:21	Flood	49	13	30
	X		11/18/2015	10:12	Flood	49	9	29
	X		12/1/2015	12:47	Ebb	33	8	30
	X		1/20/2016	10:28	Flood	33	8	30
		X	2/17/2016	10:15	Flood	49	9	20
			3/29/2016	7:22	Flood	7.8	10	25
			4/26/2016	8:39	Ebb	17	13	24
			5/3/2016	13:54	Flood	1.7	16	25
			7/21/2016	8:21	Ebb	13	20	25
			7/28/2016	15:54	Ebb	3.6	22	20

Station 11

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:53	Ebb	79	6	29
X			2/7/2012	14:45	Flood	17	7	26
X			3/8/2012	10:55	Ebb	4.5	6	24
X			4/17/2012	15:28	Flood	1.7	11	25
X			5/10/2012	10:03	Ebb	4.5	11	26
X			6/12/2012	14:42	Ebb	1.7	16	25
X			7/23/2012	11:05	Ebb	2	15	23
X			8/8/2012	11:36	Flood	6.8	19	12
X			9/20/2012	10:47	Ebb	1.7	15	28
X			10/23/2012	14:41	Ebb	2	9	30
X	X		11/26/2012	13:57	Flood	4.5	8	30
X	X		12/11/2012	12:19	Flood	6.8	7	25
X	X	X	1/8/2013	14:26	Ebb	49	6	22
X			2/21/2013	14:38	Ebb	1.7	7	28
X			3/21/2013	13:20	Ebb	1.7	8	28
X			4/4/2013	12:23	Flood	1.7	11	28
X			5/15/2013	10:20	Ebb	1.7	15	28
X			6/18/2013	11:53	Flood	1.7	19	25
X			7/23/2013	10:22	Ebb	1.7	22	19
X			8/14/2013	14:52	Ebb	1.7	20	25
X			9/24/2013	10:45	Flood	4.5	13	29
X			10/15/2013	15:10	Flood	1.7	12	30
	X	X	11/5/2013	11:05	Ebb	23		
	X		12/10/2013	13:35	Ebb	6.8	3	28
	X		1/22/2014	12:56	Ebb	23	7	30
			2/4/2014	10:40	Ebb	7.8	4	29
		X	3/11/2014	12:47	Flood	1.7	9	25
			4/10/2014	10:59	Flood	1.7	11	29
		X	5/6/2014	10:18	Flood	110	12	28
			6/5/2014	12:41	Flood	1.7	17	19
			7/17/2014	11:19	Ebb	1.7	19	28
			9/3/2014	11:42	Flood	17	18	25
			9/17/2014	12:13	Flood	1.7	16	30
	X		11/19/2014	14:43	Ebb	1.8	7	28
	X		12/16/2014	11:46	Flood	7.8	7	25
	X		1/15/2015	10:33	Flood	1.7	5	22
			2/3/2015	10:15	Ebb	2	9	26
		X	3/31/2015	14:31	Flood	1.7	12	28
			5/26/2015	11:54	Flood	1.7	15	26
			6/9/2015	10:11	Flood	2	18	25
			8/24/2015	15:05	Flood	1.7	20	25
			9/22/2015	12:55	Flood	1.7	15	28
			10/20/2015	12:43	Flood	2	13	30
	X		11/18/2015	11:03	Flood	11	9	27
	X		12/1/2015	13:11	Ebb	1.7	7	30
	X		1/20/2016	11:00	Flood	1.7	8	32
		X	2/17/2016	10:54	Flood	49	9	20
			3/29/2016	7:47	Flood	1.7	9	27
			4/26/2016	9:19	Ebb	2	14	25
			5/3/2016	14:27	Flood	1.7	17	25
			7/21/2016	8:52	Ebb	1.7	21	22
			7/28/2016	16:15	Ebb	1.7	22	23

Station 12

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:50	Ebb	240	4	28
X			2/7/2012	14:20	Flood	17	7	28
X			3/8/2012	10:50	Ebb	1.7	5	25
X			4/17/2012	15:23	Flood	2	11	24
X			5/10/2012	10:00	Ebb	1.7	11	29
X			6/12/2012	14:38	Ebb	1.7	16	25
X			7/23/2012	10:55	Ebb	2	15	23
X			8/8/2012	11:30	Flood	2	19	14
X			9/20/2012	10:41	Ebb	2	15	28
X			10/23/2012	14:37	Ebb	2	9	29
X	X		11/26/2012	13:55	Flood	7.8	8	30
X	X		12/11/2012	12:16	Flood	49	7	25
X	X	X	1/8/2013	14:20	Ebb	240	5	19
X			2/21/2013	14:36	Ebb	1.7	7	28
X			3/21/2013	13:17	Ebb	1.7	8	27
X			4/4/2013	12:21	Flood	1.7	11	28
X			5/15/2013	10:15	Ebb	1.7	15	28
X			6/18/2013	11:48	Flood	1.8	19	25
X			7/23/2013	10:16	Ebb	1.7	24	19
X			8/14/2013	14:50	Ebb	1.7	20	25
X			9/24/2013	10:39	Flood	1.7	13	28
X			10/15/2013	15:06	Flood	1.7	12	30
	X	X	11/5/2013	10:47	Ebb	11	7	27
	X		12/10/2013	13:32	Ebb	13	2	28
	X		1/22/2014	12:55	Ebb	4.5	7	30
			2/4/2014	10:35	Ebb	7.8	3	28
		X	3/11/2014	12:50	Flood	2	9	25
			4/10/2014	10:55	Flood	1.7	11	28
		X	5/6/2014	10:14	Flood	350	12	25
			6/5/2014	12:37	Flood	1.7	17	19
			7/17/2014	11:22	Ebb	1.7	19	26
			9/3/2014	11:39	Flood	33	17	25
			9/17/2014	12:10	Flood	1.7	16	30
	X		11/19/2014	14:42	Ebb	1.7	7	28
	X		12/16/2014	11:42	Flood	7.8	7	25
	X		1/15/2015	10:29	Flood	1.7	5	20
			2/3/2015	10:11	Ebb	1.7	9	26
		X	3/31/2015	14:28	Flood	2	12	26
			5/26/2015	11:52	Flood	1.7	16	26
			6/9/2015	10:08	Flood	1.7	18	25
			8/24/2015	15:01	Flood	1.7	20	25
			9/22/2015	12:52	Flood	1.7	15	28
			10/20/2015	12:40	Flood	7.8	13	30
	X		11/18/2015	11:00	Flood	33	8	26
	X		12/1/2015	13:08	Ebb	2	6	30
	X		1/20/2016	10:54	Flood	4.5	8	30
		X	2/17/2016	10:51	Flood	70	9	17
			3/29/2016	7:44	Flood	7.8	8	23
			4/26/2016	9:16	Ebb	1.7	14	23
			5/3/2016	14:24	Flood	1.7	17	25
			7/21/2016	8:50	Ebb	1.7	21	22
			7/28/2016	16:12	Ebb	1.7	22	23

Station 15

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:15	Ebb	70	6	28
X			2/7/2012	13:49	Flood	17	8	28
X			3/8/2012	11:00	Ebb	17	6	21
X			4/17/2012	14:38	Flood	2	10	25
X			5/10/2012	8:55	Ebb	13	11	29
X			6/12/2012	14:45	Ebb	1.7	16	24
X			7/23/2012	9:35	Ebb	220	16	22
X			8/8/2012	10:26	Flood	240	19	15
X			9/20/2012	9:20	Flood	2	13	28
X			10/23/2012	14:03	Flood	2	10	32
X	X		11/26/2012	13:20	Flood	2	8	30
X	X		12/11/2012	11:49	Flood	17	7	30
X	X	X	1/8/2013	13:14	Ebb	240	6	21
X			2/21/2013	14:41	Ebb	6.1	7	28
X			3/21/2013	13:36	Ebb	49	8	23
X			4/4/2013	12:26	Flood	2	11	30
X			5/15/2013	10:40	Ebb	17	14	28
X			6/18/2013	11:03	Flood	4.5	18	26
X			7/23/2013	10:46	Ebb	13	24	20
X			8/14/2013	14:18	Ebb	17	20	30
X			9/24/2013	10:50	Flood	11	13	29
X			10/15/2013	14:42	Flood	1.7	12	32
X	X	X	11/5/2013	9:45	Ebb	17	10	29
	X		12/10/2013	13:38	Ebb	13	3	28
	X		1/22/2014	12:59	Ebb	33	7	30
			2/4/2014	9:45	Ebb	13	5	30
		X	3/11/2014	12:44	Flood	22	9	22
			4/10/2014	9:39	Ebb	70	10	28
		X	5/6/2014	10:22	Flood	920	12	25
			6/5/2014	11:31	Flood	2	18	15
			7/17/2014	11:16	Ebb	79	19	26
			8/12/2014	10:02	Ebb	51.5	17	26
			9/3/2014	11:08	Flood	33	17	26
			9/17/2014	11:46	Flood	17	15	30
	X		11/19/2014	14:19	Flood	1.7	10	26
	X		12/16/2014	11:53	Flood	11	8	27
	X		1/15/2015	10:38	Flood	9.2	6	25
			2/3/2015	10:17	Ebb	49	9	25
		X	3/31/2015	14:05	Flood	31	12	22
			5/26/2015	11:05	Flood	23	16	26
			6/9/2015	10:15	Flood	17	18	22
			8/24/2015	14:35	Flood	1.7	19	25
			9/22/2015	12:09	Flood	1.7	15	29
			10/20/2015	12:47	Flood	7.8	13	30
	X		11/18/2015	10:06	Flood	33	9	28
	X		12/1/2015	12:46	Ebb	49	8	30
	X		1/20/2016	10:26	Flood	33	8	30
		X	2/17/2016	10:11	Flood	130	9	22
			3/29/2016	7:50	Flood	4.5	9	28
			4/26/2016	8:36	Ebb	7.8	13	25
			5/3/2016	13:51	Flood	1.7	16	24
			7/21/2016	8:18	Ebb	33	19	24
			7/28/2016	15:52	Ebb	13	22	20

Station 313

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:46	Ebb	79	4	28
X			2/7/2012	14:38	Flood	7.8	7	25
X			3/8/2012	10:45	Ebb	49	5	23
X			4/17/2012	15:21	Flood	1.7	11	22
X			5/10/2012	9:55	Ebb	1.7	11	29
X			6/12/2012	14:36	Ebb	1.7	16	25
X			7/23/2012	10:54	Ebb	1.7	15	23
X			8/8/2012	11:27	Flood	1.7	19	15
X			9/20/2012	10:35	Ebb	4.5	15	28
X	X		11/26/2012	13:53	Flood	2	8	28
X	X		12/11/2012	12:13	Flood	4.5	7	26
X	X	X	1/8/2013	14:15	Ebb	240	5	11
X			2/21/2013	14:35	Ebb	1.7	7	28
X			3/21/2013	13:15	Ebb	1.7	9	27
X			4/4/2013	12:19	Flood	1.7	11	30
X			5/15/2013	10:12	Ebb	2	15	28
X			6/18/2013	11:46	Flood	1.7	18	26
X			7/23/2013	10:09	Ebb	7.8	24	20
X			8/14/2013	14:48	Ebb	1.7	20	30
X			9/24/2013	10:35	Flood	1.7	13	29
X			10/15/2013	15:04	Flood	1.7	12	30
X	X	X	11/5/2013	10:45	Ebb	7.8	8	27
	X		12/10/2013	13:30	Ebb	17	3	28
	X		1/22/2014	12:53	Ebb	4.5	7	30
			2/4/2014	10:30	Ebb	4.5	2	28
		X	3/11/2014	12:52	Flood	6.1	9	22
			4/10/2014	10:50	Flood	1.7	11	29
		X	5/6/2014	10:13	Flood	240	12	25
			6/5/2014	12:30	Flood	2	18	19
			7/17/2014	11:28	Ebb	1.7	19	25
			8/12/2014	11:40	Ebb	1.7	17	26
			9/3/2014	11:38	Flood	23	18	25
			9/17/2014	12:08	Flood	1.7	16	30
	X		11/19/2014	14:40	Ebb	17	7	28
	X		12/16/2014	11:37	Flood	1.7	7	25
	X		1/15/2015	10:25	Flood	2	5	22
			2/3/2015	10:09	Ebb	1.7	9	25
		X	3/31/2015	14:27	Flood	2	12	28
			5/26/2015	11:49	Flood	1.7	15	26
			6/9/2015	10:05	Flood	1.7	18	25
			8/24/2015	14:59	Flood	1.7	20	25
			9/22/2015	12:49	Flood	1.7	16	28
			10/20/2015	12:39	Flood	23	13	30
	X		11/18/2015	10:57	Flood	49	8	26
	X		12/1/2015	13:06	Ebb	4.5	7	30
	X		1/20/2016	10:52	Flood	2	8	31
		X	2/17/2016	10:48	Flood	350	9	10
			3/29/2016	7:41	Flood	27	8	20
			4/26/2016	9:13	Ebb	1.7	14	24
			5/3/2016	14:22	Flood	1.7	17	26
			7/21/2016	8:48	Ebb	1.7	20	22
			7/28/2016	16:11	Ebb	2	22	20

Station 314

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:43	Ebb	130	5	28
X			2/7/2012	14:35	Flood	7.8	7	22
X			3/8/2012	10:29	Ebb	13	4	11
X			4/17/2012	15:18	Flood	1.7	11	25
X			5/10/2012	9:39	Ebb	1.7	12	28
X			6/12/2012	14:33	Ebb	1.7	16	25
X			7/23/2012	10:40	Ebb	1.8	16	23
X			8/8/2012	11:23	Flood	1.7	19	15
X			9/20/2012	10:25	Ebb	4.5	15	28
X			10/23/2012	14:33	Ebb	1.7	9	29
X	X		11/26/2012	13:45	Flood	7.8	8	25
X	X		12/11/2012	12:11	Flood	6.8	7	26
X	X	X	1/8/2013	14:00	Ebb	350	5	14
X			2/21/2013	14:29	Ebb	1.7	7	28
X			3/21/2013	13:04	Ebb	2	8	29
X			4/4/2013	12:14	Flood	1.7	12	28
X			5/15/2013	10:00	Ebb	2	15	28
X			6/18/2013	11:43	Flood	1.7	18	25
X			7/23/2013	9:46	Ebb	11	24	19
X			8/14/2013	14:43	Ebb	1.7	20	26
X			9/24/2013	10:32	Flood	2	13	29
X			10/15/2013	15:02	Flood	1.7	12	30
X	X	X	11/5/2013	10:31	Ebb	13	9	28
	X		12/10/2013	13:28	Ebb	7.8	3	30
	X		1/22/2014	12:48	Ebb	2	7	30
			2/4/2014	10:16	Ebb	49	3	29
		X	3/11/2014	12:57	Flood	1.7	9	20
			4/10/2014	10:29	Ebb	1.7	11	29
		X	5/6/2014	10:11	Flood	79	12	25
			6/5/2014	12:16	Flood	1.7	17	19
			7/17/2014	11:28	Ebb	1.7	19	25
			8/12/2014	11:11	Ebb	2	17	27
			9/3/2014	11:35	Flood	49	18	25
	X		9/17/2014	12:05	Flood	1.7	16	30
	X		11/19/2014	14:35	Flood	1.7	7	26
	X		12/16/2014	11:26	Flood	4.5	7	25
			1/15/2015	10:15	Flood	4.5	6	25
			2/3/2015	10:07	Ebb	2	9	28
		X	3/31/2015	14:24	Flood	1.7	12	28
			5/26/2015	11:45	Flood	1.7	16	26
			6/9/2015	10:03	Flood	2	18	25
			8/24/2015	14:57	Flood	1.7	20	25
			9/22/2015	12:40	Flood	2	15	28
	X		10/20/2015	12:35	Flood	17	13	30
	X		11/18/2015	10:48	Flood	11	9	27
	X		12/1/2015	13:03	Ebb	4.5	7	30
			1/20/2016	10:48	Flood	7.8	8	31
		X	2/17/2016	10:40	Flood	79	9	10
			3/29/2016	7:39	Flood	2	8	26
			4/26/2016	9:02	Ebb	1.7	14	24
			5/3/2016	14:19	Flood	1.7	17	26
			7/21/2016	8:42	Ebb	1.7	20	22
			7/28/2016	16:09	Ebb	1.7	22	20

Station 315

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X	X		1/12/2012	9:39	Ebb	23	5	29
X			2/7/2012	14:30	Flood	2	7	26
X			3/8/2012	10:21	Ebb	13	5	21
X			4/17/2012	15:15	Flood	1.7	11	26
X			5/10/2012	9:32	Ebb	2	12	29
X			6/12/2012	14:30	Ebb	2	16	25
X			7/23/2012	10:30	Ebb	2	16	23
X			8/8/2012	11:14	Flood	1.7	19	12
X			9/20/2012	10:04	Flood	4.5	15	28
X			10/23/2012	14:30	Ebb	7.8	9	30
X	X		11/26/2012	13:42	Flood	4.5	8	25
X	X		12/11/2012	12:07	Flood	33	7	28
X	X	X	1/8/2013	13:50	Ebb	26	6	26
X			2/21/2013	14:27	Ebb	1.7	7	28
X			3/21/2013	12:56	Ebb	7.8	8	28
X			4/4/2013	12:12	Flood	1.7	12	28
X			5/15/2013	9:55	Ebb	1.7	15	28
X			6/18/2013	11:40	Flood	1.7	18	25
X			7/23/2013	9:31	Ebb	2	24	20
X			8/14/2013	14:40	Ebb	1.7	20	26
X			9/24/2013	10:24	Flood	4.5	13	29
X			10/15/2013	14:56	Flood	1.7	12	30
X	X	X	11/5/2013	10:26	Ebb	49	9	28
	X		12/10/2013	13:24	Ebb	4	3	28
	X		1/22/2014	12:45	Ebb	2	7	30
			2/4/2014	10:12	Ebb	23	2	28
		X	3/11/2014	13:00	Flood	4.5	9	20
			4/10/2014	10:21	Ebb	1.7	11	29
		X	5/6/2014	10:06	Flood	130	12	28
			6/5/2014	12:10	Flood	1.7	18	19
			7/17/2014	11:31	Ebb	1.7	19	25
			8/12/2014	10:48	Ebb	4.5	19	26
			9/3/2014	11:31	Flood	11	18	26
			9/17/2014	12:02	Flood	1.7	15	30
	X		11/19/2014	14:33	Flood	1.7	7	28
	X		12/16/2014	11:21	Flood	7.8	7	25
	X		1/15/2015	10:12	Flood	2	6	25
			2/3/2015	10:04	Ebb	2	8	26
		X	3/31/2015	14:20	Flood	2	12	26
			5/26/2015	11:42	Flood	1.7	16	26
			6/9/2015	9:58	Flood	4.5	19	25
			8/24/2015	14:52	Flood	1.7	20	25
			9/22/2015	12:34	Flood	1.7	15	29
			10/20/2015	12:32	Flood	7.8	13	30
	X		11/18/2015	10:42	Flood	33	8	25
	X		12/1/2015	12:59	Ebb	4	7	30
	X		1/20/2016	10:42	Flood	7.8	8	31
		X	2/17/2016	10:36	Flood	110	9	15
			3/29/2016	7:35	Flood	14	9	25
			4/26/2016	8:59	Ebb	1.7	14	24
			5/3/2016	14:16	Flood	1.7	17	25
			7/21/2016	8:39	Ebb	1.7	20	22
			7/28/2016	16:05	Ebb	1.7	22	20

Station 378

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X			3/8/2012	9:55	Ebb	12	5	7
X			4/17/2012	14:51	Flood	1.7	11	25
X			5/10/2012	9:18	Ebb	33	12	28
X			6/12/2012	14:04	Flood	1.8	16	24
X			7/23/2012	10:16	Ebb	7.8	16	23
X			8/8/2012	10:49	Flood	4.5	19	15
X			9/20/2012	9:45	Flood	11	14	28
X			10/23/2012	14:15	Flood	2	10	30
X	X		11/26/2012	13:30	Flood	11	8	30
X	X		12/11/2012	11:59	Flood	49	7	25
X			2/21/2013	14:20	Ebb	1.7	7	28
X			3/21/2013	12:50	Ebb	79	8	11
X			4/4/2013	12:06	Flood	2	11	28
X			5/15/2013	9:45	Ebb	33	16	22
X			6/18/2013	11:13	Flood	1.7	18	26
X			8/14/2013	14:30	Ebb	2	20	28
			9/24/2013	10:18	Flood	4.5	13	29
			10/15/2013	14:50	Flood	1.7	12	30
	X	X	11/5/2013	10:11	Ebb	13	9	28
	X		12/10/2013	13:17	Ebb	4.5	4	28
	X		1/22/2014	12:33	Ebb	4.5	7	20
			2/4/2014	10:02	Ebb	49	4	30
		X	3/11/2014	13:09	Flood	1.7	9	22
		X	5/6/2014	9:53	Flood	350	13	22
			6/5/2014	11:45	Flood	17	21	22
			9/3/2014	11:21	Flood	13	17	25
			9/17/2014	11:54	Flood	1.7	15	30
	X		11/19/2014	14:27	Flood	9.3	9	28
	X		12/16/2014	11:07	Flood	7.8	7	24
	X		1/15/2015	10:04	Flood	14	6	25
			2/3/2015	9:58	Ebb	79	8	14
		X	3/31/2015	14:14	Flood	33	12	20
			5/26/2015	11:26	Flood	1.7	17	29
			6/9/2015	9:48	Flood	4	18	25
			8/24/2015	14:45	Flood	1.7	19	25
			9/22/2015	12:22	Flood	1.7	15	28
			10/20/2015	12:27	Flood	4.5	13	30
	X		11/18/2015	10:28	Flood	33	7	20
	X		12/1/2015	12:53	Ebb	13	8	30
	X		1/20/2016	10:35	Flood	7.8	8	33
		X	2/17/2016	10:26	Flood	21	10	10
			3/29/2016	7:28	Flood	2	10	21
			4/26/2016	8:51	Ebb	170	13	18
			5/3/2016	14:03	Flood	2	16	25
			7/21/2016	8:30	Ebb	2	21	21
			7/28/2016	16:00	Ebb	1.8	22	20

Station 379

Data Exclusion			Sample Date	Time	Tide	Fecal Coliform (FC/100mL)	Surface Water Temperature (°C)	Salinity (ppt)
Last 30	Seasonal	Rainfall						
X			3/8/2012	10:08	Ebb	7.8	2	5
X			4/17/2012	15:05	Flood	2	11	25
X			5/10/2012	9:25	Ebb	1.7	12	28
X			6/12/2012	14:18	Flood	2	16	24
X			7/23/2012	10:22	Ebb	13	16	22
X			8/8/2012	11:03	Flood	6.1	19	15
X			9/20/2012	9:55	Flood	1.7	15	28
X			10/23/2012	14:23	Flood	4.5	9	29
X	X		11/26/2012	13:37	Flood	26	8	25
X	X		12/11/2012	12:03	Flood	13	7	25
X			2/21/2013	14:23	Ebb	1.7	7	28
X			3/21/2013	12:54	Ebb	1.7	8	28
X			4/4/2013	12:08	Flood	7.8	12	26
X			5/15/2013	9:50	Ebb	7.8	15	27
X			6/18/2013	11:27	Flood	4.5	18	26
X			8/14/2013	14:35	Ebb	4.5	20	26
X			9/24/2013	10:20	Flood	4.5	13	24
			10/15/2013	14:52	Flood	1.7	12	30
	X	X	11/5/2013	10:18	Ebb	33	8	27
	X		12/10/2013	13:20	Ebb	11	3	28
	X		1/22/2014	12:39	Ebb	33	7	22
			2/4/2014	10:09	Ebb	11	4	30
		X	3/11/2014	13:03	Flood	1.7	9	20
		X	5/6/2014	10:02	Flood	130	12	28
			6/5/2014	11:58	Flood	1.7	18	20
			7/17/2014	11:35	Ebb	4	19	25
			9/3/2014	11:27	Flood	11	18	25
			9/17/2014	11:57	Flood	1.7	16	30
	X		11/19/2014	14:30	Flood	4.5	8	26
	X		12/16/2014	11:13	Flood	13	7	25
	X		1/15/2015	10:08	Flood	2	6	25
			2/3/2015	10:00	Ebb	14	8	20
		X	3/31/2015	14:17	Flood	4.5	13	25
			5/26/2015	11:32	Flood	2	18	27
			6/9/2015	9:53	Flood	13	19	25
			8/24/2015	14:48	Flood	1.7	20	26
			9/22/2015	12:27	Flood	1.7	15	28
			10/20/2015	12:29	Flood	17	13	30
	X		11/18/2015	10:35	Flood	33	7	22
	X		12/1/2015	12:55	Ebb	13	7	30
	X		1/20/2016	10:38	Flood	11	8	28
		X	2/17/2016	10:29	Flood	11	9	25
			3/29/2016	7:31	Flood	4.5	9	25
			4/26/2016	8:55	Ebb	1.7	15	21
			5/3/2016	14:09	Flood	1.7	18	25
			7/21/2016	8:34	Ebb	7.8	22	21
			7/28/2016	16:02	Ebb	4.5	22	20