



**GROWING AREA WR – Johns Bay  
Bristol and South Bristol**

**Annual Review for 2008**

**Final Report Date: April 17, 2009**

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**APPROVAL**

Division Director:

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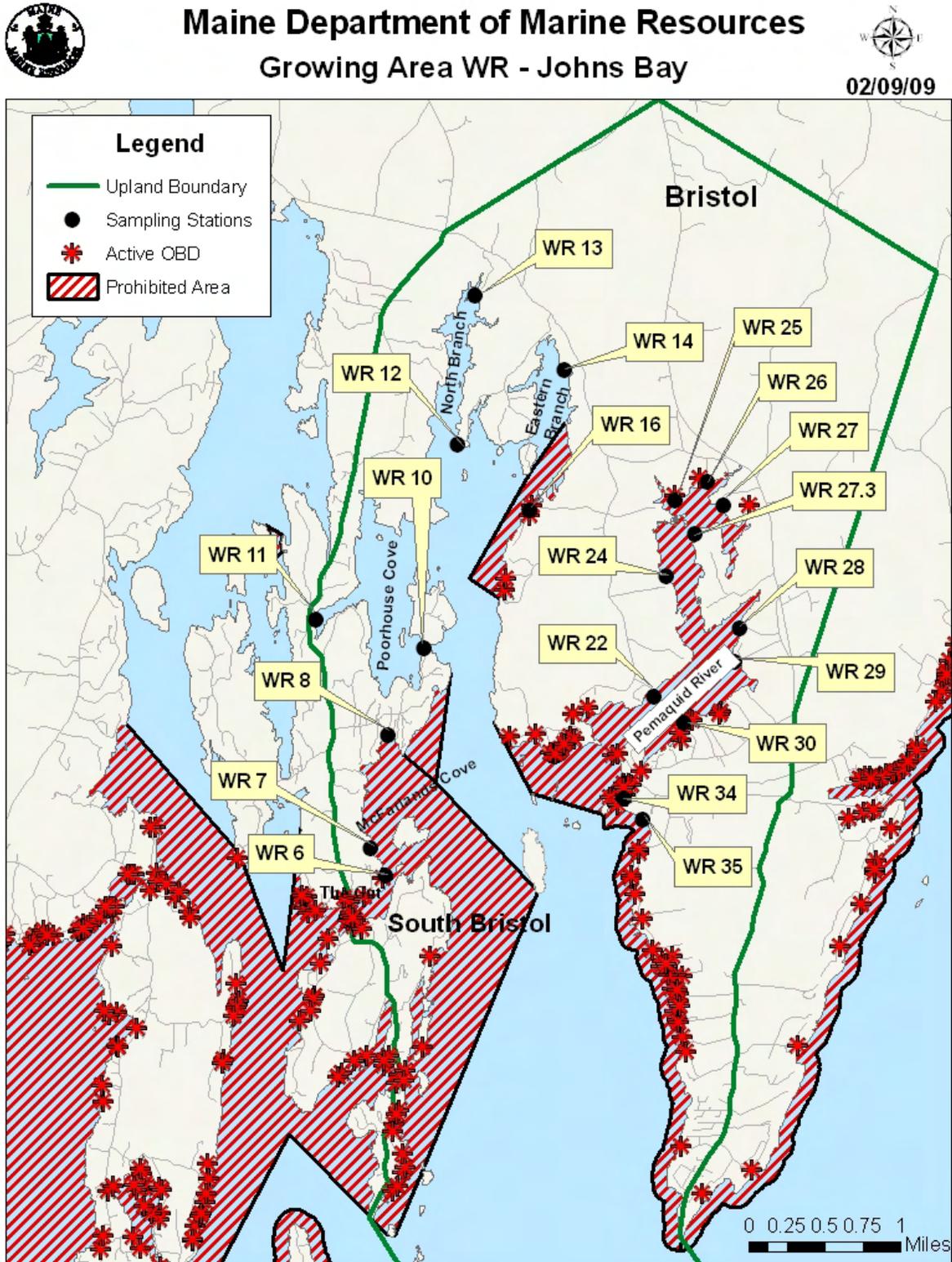
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Figure 1. Growing Area WR with Active Stations





## Executive Summary

This is an annual report for growing area WR, Johns Bay (Bristol and South Bristol) written in compliance with the requirements of the 2007 Model Ordinance of the National Shellfish Sanitation program.

Growing area WR includes Johns Bay and Pemaquid River. Major sources of pollution in this area include private septic systems, licensed over board discharges (OBDs) and outhouses; there are no municipal waste water facilities in this area. Based on the results of the 2008 annual growing area review, all water quality stations classified as approved are meeting their appropriate NSSP classification standard. During the 2008 review year, no new stations were added and no stations were deactivated. One OBD, discharging into John Bay was removed by the DEP in 2008.

One upward classification change is being recommended, based on a remediation of a malfunctioning septic system and removal of an OBD on the western shore of Johns Bay (WR 8). The shoreline survey in this area is currently expired and must be updated before any upward classification changes can be implemented. No downward classification changes are required.

The last sanitary survey report for growing area WR was written through 2006. The next triennial report will include information through 2009, and will be written in 2010.

## Growing Area Description

Growing Area WR (Johns Bay) is located in Lincoln County, mid-coast Maine, approximately 60 miles north of Portland (Figure 1). The growing area lies between the Damariscotta River and Muscongus Bay, and includes coastal areas of the towns of Bristol and South Bristol. A complete boundary description for this growing area can be found in DMR central files.

The shoreline is typical of mid-coast Maine, with rockbound points and shoreline separating shallow coves and harbors. The muddy and gravel bottoms in these coves frequently provide excellent habitat for soft shell clams. Within Area WR, the coves most likely to support significant populations of soft shell clams include MacFarlands Cove, Poorhouse Cove, Bradstreet Cove, the North Branch, the Eastern Branch, the upper Pemaquid River, Coombs Cove and Fossetts Cove. Fresh water influence is minimal in this growing area, with no major river drainages, although small brooks and streams, many of which are intermittent, can be found throughout the growing area.

Based on the results of the 2000 Census, the town of Bristol had 1203 households and a year-round population of 2844. South Bristol had 410 households, with a year-round population of 897. The population of the towns has increased 6% and 2% respectively since 2000. Primary sources of employment in both towns are retail, construction, fishing, and manufacturing. The towns of Bristol and South Bristol both have 17 commercial shellfish license holders.



Land use in the study area is dominated by a mix of seasonal and year-round residential properties. Sections of moderate shoreline development are punctuated by large tracts of undeveloped land. Seasonal properties are being converted to year-round use throughout the area. Heaviest development is found near the Bristol Gut, along MacFarlands Cove, Bradstreet Cove, Riverview Rd, Sunset Loop and Pemaquid Harbor, and in the area from Pemaquid Beach to Pemaquid Point. Rutherford Island and Pemaquid Point both have increased summer populations with numerous groupings of old cottages on very small lots.

The northern side of the Bristol Gut is an area of heavy marine/fishing activity. It has several docks with lobster buying businesses, some of which offer support services for fishermen (fuel, bait, gear). An inactive aquaculture lease site is located at the northern end of High Island. Pemaquid Harbor has a fisherman's co-op, two seasonal restaurants, a small boat building facility, and the historic site of Fort William Henry, in Pemaquid. A building supply company operates at the upper end of the Pemaquid River.

## Current Classifications

This growing area has areas classified as approved and prohibited.

**Approved:** 5 Stations

**Prohibited:** 14 stations, due to presence of OBDs and poor water quality, and /or expired sanitary survey assessment

There is also one 'new' station (WR 27.3) located in the prohibited Pemaquid River Area of growing area WR; the station has less than 30 data points and does not have a classification assigned to it.

Please visit the DMR website to view legal notices:

Area No. 24-A: Johns River and Pemaquid River (South Bristol and Bristol)

Area No. 24-B: John Bay (South Bristol and Bristol)

[http://www.maine.gov/dmr/rm/public\\_health/closures/closedarea.htm#R](http://www.maine.gov/dmr/rm/public_health/closures/closedarea.htm#R)

## Current Management Plan for Conditional Area

There are no conditionally managed areas in growing areas WR.

## Activity during Review Year (2008)

On March 27, 2008, the entire growing area WR was placed under an administrative closure due to an expired shoreline survey.

On April 11, 2008, several areas in John River that were classified as approved prior to the March 27 administrative closure were reclassified back to approved due to an updated shoreline



survey. Additionally, the area east of McFarlands Point, South Bristol (east of station WR 10) was reclassified from prohibited to approved due to a removal of an OBD.

## Water Quality Review and Discussion

Table 1 lists all active stations in Growing Area WR, with their respective geomean and P90 calculations. Please refer to Appendix A for a key to interpreting the headers on the columns of Table 1. The approved and restricted standards for each station are also displayed in Table 1. These standards will fluctuate yearly as a result of the DMR transition from a most probable number (MPN) fecal coliform test method to a membrane filtration (MF) method and are dependent on the number of sample analyzed by MPN verses MF. The total number of data points used in the calculations is displayed in the Count column and includes both MPN and MF values. The number of data points analyzed by MF is displayed in the MFCNT column. A more detailed explanation of this transition can be found in Appendix B.

Based on the current review of water quality data, all approved stations are meeting their NSSP classification. Several prohibited stations (WR 6, 16, 30, 34 and 35) are also meeting the approved standard, but will remain classified as prohibited due to their proximity to active OBDs. Stations WR 7 and 8, are currently classified as prohibited but are meeting the approved standards; the area surrounding these stations was downgraded to prohibited classification due to expired survey status (no survey work in past 12 year period) on March 27, 2008. Additionally, the last sanitary survey had identified a potential and actual pollution sources in the vicinity of station WR 8; both of these problems have since been remediated. This area will be re-surveyed in the Spring of 2009; once this work is completed, and if no additional problems are identified, this area can be upgraded to approved classification.

**Table 1. Geomean and P90 Scores for Growing Area WR, 2003-2008**

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WR006.00	P	30	15	3.2	0.47	240	12.8	39	221
WR007.00	P	30	15	3.0	0.29	43	7.1	39	221
WR008.00	P	30	15	3.6	0.42	43	12.4	39	221
WR010.00	A	30	15	3.8	0.42	93	13.0	39	221
WR011.00	A	30	15	5.6	0.55	114	28.6	39	221
WR012.00	A	30	15	4.8	0.55	180	24.1	39	221
WR013.00	A	30	15	5.4	0.50	78	23.7	39	221
WR014.00	A	30	15	3.9	0.40	44	12.5	39	221
WR016.00	P	30	15	3.7	0.46	460	14.4	39	221
WR022.00	P	30	15	3.3	0.32	43	8.5	39	221
WR024.00	P	30	15	5.9	0.60	1700	35.0	39	221
WR025.00	P	30	14	9.9	0.60	98	58.7	40	226
WR026.00	P	30	15	11.0	0.60	240	64.8	39	221
WR027.00	P	30	16	12.2	0.66	460	84.7	38	217
WR027.30	New	18	15	7.8	0.53	93	37.5	33	180
WR028.00	P	30	15	5.7	0.68	460	41.6	39	221
WR029.00	P	30	15	7.1	0.63	500	45.0	39	221
WR030.00	P	30	15	4.8	0.48	104	19.8	39	221
WR034.00	P	30	15	5.8	0.58	1100	31.5	39	221
WR035.00	P	30	15	4.2	0.44	149	15.1	39	221



All stations active at the beginning of the year were sampled at least 6 times in 2008, following the systematic random sampling (SRS) schedule. Stations WR 11, 13 and 14 served as re-opening sample stations after flood events sampled under adverse conditions. Table 2 shows the number of random and adverse samples taken during the 2008 sampling year; Appendix C shows random data collected in 2008 for all active stations in growing area WR.

**Table 2. WR Sampling Effort for 2008**

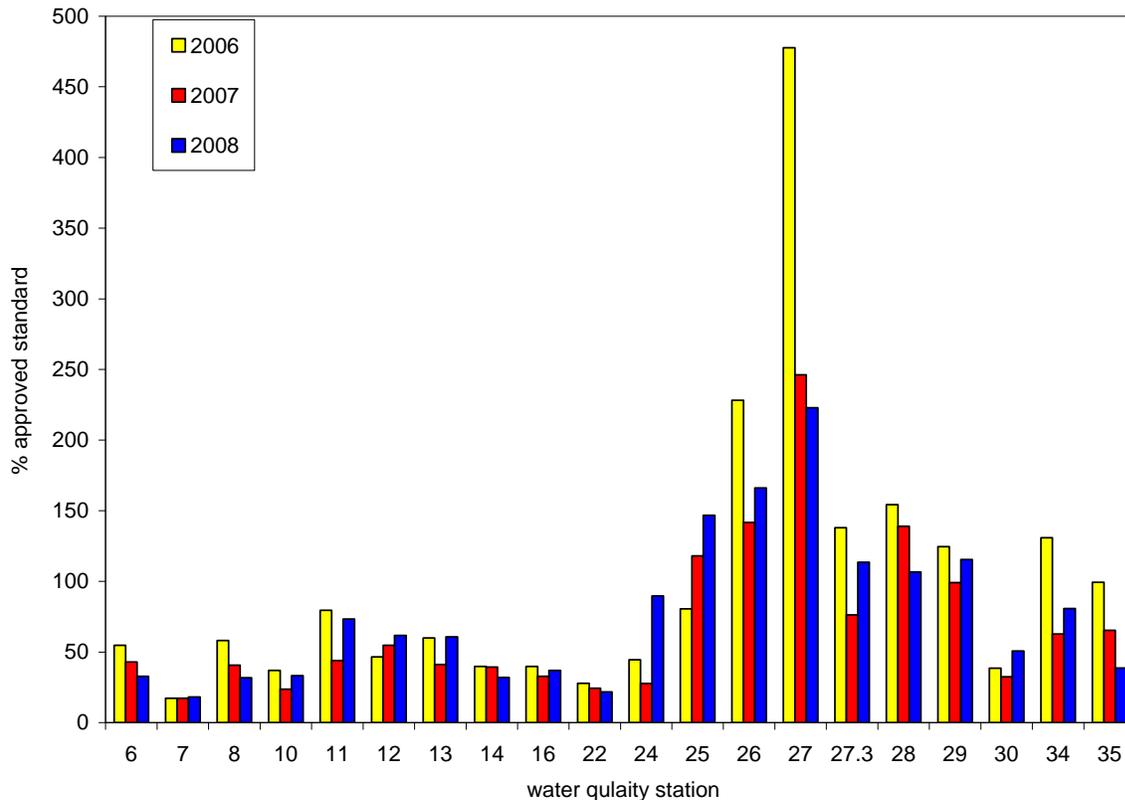
Station	Class	Adverse	Random		Total	Notes
		Closed	Closed	Open		
WR006.00	P		6		6	
WR007.00	A			2	6	Reclassified from A to P due to expired sanitary survey
	P		6			
WR008.00	P		6		6	
WR010.00	A			6	6	
WR011.00	A	14		6	20	Flood Station
WR012.00	A			6	6	
WR013.00	A	9		6	15	Flood Station
WR014.00	A	5		6	11	Former Flood Station
WR016.00	P		6		6	
WR022.00	P		6		6	
WR024.00	P		6		6	
WR025.00	P		6		6	
WR026.00	P		6		6	
WR027.00	P		6		6	
WR027.30	P		6		6	
WR028.00	P		6		6	
WR029.00	P		6		6	
WR030.00	P		6		6	
WR034.00	P		6		6	
WR035.00	P		6		6	

Figure 2 shows the P90 trends over the past three years, for all stations classified as approved, as well as the prohibited stations located in the upper part of the Pemaquid River. During the transition from MPN to MF analysis method, the approved standard will decrease every year, until all samples have been analyzed by the MF method. In order to show the trend of the P90 value over the years, the calculated P90 scores are expressed as a percentage of the approved standard; any station showing the 2008 column on or above the 100 percent line does not meet the standard for approved classification. Approved station WR 12 has shown a gradual increase in P90 scores over the past three year (decreasing water quality), and follow-up survey work is recommended for this area as part of the 2009 triennial review of the area. Approved stations 10, 11 and 13, have shown an increase in scores over the past review year, however the current P90 scores are similar, or slightly lower than the P90 scores at the end of 2006 review year. Additional scores from these three stations should be monitored closely over the 2009 field season, to determine whether the upward trend in P90 scores is likely to continue at the end of the 2009 season. Follow up survey, and pollution source and stream sampling is recommended in this area for the next triennial report. Prohibited stations WR 22 and 24, located on the western shore of the Pemaquid River are currently meeting the approved



standard; however scores at station WR 24 have shown a dramatic rise in 2008. Stations WR 27, 27.3, 28, and 29, located on the eastern shore of the river, are currently not meeting the approved standard, however, WR 27 and 28 have shown a significant decline in P90 scores (improvement in water quality) over the past three years. The survey for the Pemaquid River, last completed on 2003, will be updated in 2009, and all previously identified pollution sources, will be re-evaluated for the next triennial report. Major streams draining into the Pemaquid River will also be sampled to identify possible pollution loading to the river. Once this work is completed, areas in the Pemaquid River can be re-evaluated for classification upgrades.

**Figure 2. Area WR P90 Scores (expressed as the percent of the approved standard), 2006-2008**



### Shoreline Survey Activity in 2008

The following areas in Growing Area WR were surveyed in 2008:

March 31, 2008: 32 properties were surveyed in Bristol and South Bristol, in the Pemaquid river area by the DEP, the local shellfish warden and the local shellfish committee chair. Five potential and two actual problems were noted during the survey. All actual problems were located within a prohibited area.

April 1, 2008: 28 properties were surveyed in South Bristol, East and North Branch areas by the DEP, the local shellfish warden, and the local shellfish committee chair. Three potential problems were noted during the survey.



April 4, 2008: 55 properties were surveyed in South Bristol, Bradstreet, Poorhouse and High Isle Cove areas by DMR, the local shellfish warden, and the local shellfish committee chair. Two potential problems were noted during the survey.

April 5, 2008: 4 properties were surveyed in South Bristol, by the local shellfish committee chair. No potential or actual problems were identified during the survey.

April 7, 2008: 27 properties were surveyed in South Bristol, Johns River area by DEP, the local shellfish warden, and the local shellfish committee chair. No potential or actual problems were identified during the survey.

A drive through survey of the entire growing area was completed on August 19, 2008. Improvements in area WR include a replacement of a malfunctioning septic system in South Bristol, located off Priscilla Point Road (McFarlands Cove area); the area surrounding this property can be upgraded to approved classification once the sanitary survey field work is completed, and if no additional problems are identified.

## **Aquaculture/ Wet Storage Activity**

There are 3 active aquaculture lease sites in area WR (two limited and one experimental). There are no wet storage sites or activities in area WR.

For more information on aquaculture leases, please visit the DMR website:

<http://www.maine.gov/dmr/aquaculture/leaseinventory/index.htm>

## **Classification Change Required**

No classification changes are required at this time. Once the sanitary survey field work for the western shore of Johns Bay is completed, and if no actual pollution sources are identified, the area surrounding stations WR 7 and 8 can be upgraded from prohibited to approved. This upward classification recommendation is based on a confirmation that a malfunctioning septic system in the vicinity of the station has been replaced, and an OBD has been removed; water quality at this station is currently meeting the approved standard, with a P90 score of 17.5.

## **Summary**

Growing area WR continues to maintain good water quality in areas currently classified as approved. At the end of the 2008 review year, all approved stations were meeting their respective NSSP classification standards, and no downgrades in classification are required. Several areas are currently classified as prohibited, but are meeting the approved standards. Areas that are currently meeting these standards and are closed to shellfish harvesting due to an expired shoreline survey, are being recommended for an evaluation of upward re-classifications based on good water quality scores, remediation of a previously identified



problems and removals of two OBDs. However, the shoreline survey work must be updated before any classification changes can be implemented

Portions of growing area WR were extensively surveyed in 2008. All data collected during this recent survey has been entered into the DMR database, and information on all identified problems has been submitted to the town Codes Enforcement Officer for corrective action. In 2009, all previously identified problems will be re-checked by DMR, and the current status of these shoreline pollution sources will be presented in the 2009 triennial growing area WR report.



## Appendix A. Key to Water Quality Table Headers

Station = water quality monitoring station

Class = classification assigned to the station; prohibited (P), restricted (R), conditionally restricted (CR), conditionally approved (CA) and approved (A).

Count = the number of samples evaluated for classification, must be a minimum of 30.

MFCNT = the number of samples evaluated with the MTec method (included in the total Count column)

Geo\_Mean = means the antilog (base 10) of the arithmetic mean of the sample result logarithm (base 10).

SDV = standard deviation

Max = maximum score of the 30 data points in the count column

P90 = 90th percentile

APPD\_STD = the 90th percentile, at or below which the station would meet approved criteria in the absence of pollution sources or poisonous and deleterious substances.

RESTR\_STD = the 90th percentile, at or below which the station would meet restricted criteria.



## Appendix B. Transitioning to Membrane Filtration for Seawater and Pollution Source Samples

The Maine Department of Marine Resources has switched to a Membrane Filtration (MF) method for Fecal Coliforms using mTEC agar with a two hour resuscitation step. The geometric mean and the 90<sup>th</sup> percentile are calculated on 30 data points extending over a five year period. During the transition from MPN to MF, we will be accumulating MF data points. The statistical calculations will be a combination of MPN and MF data points.

During the transition the P90 standard for approved and restricted classification will migrate from the MPN to MF standards. The FDA has determined that the best way to handle the data is to perform the calculations as always for the data set, but to compare the data set to a hybrid weighted 90<sup>th</sup> percentile. This hybrid standard is calculated by weighting the relative contributions of each method to the database. This will mean that as the number of MPN data points reduce and the number of MF data points increase the 90<sup>th</sup> percentile standard that the sample site is compared to will change over time. Once all 30 data points are analyzed using MF, the 90<sup>th</sup> percentile for approved classification will be 31 and for restricted (for depuration) will be 163. The geomean approved standard of 14 fecal coliforms per 100 ml and geomean restricted standard of 88 fecal coliforms per 100 ml will remain the same for both methods.

Reports that display 90<sup>th</sup> percentiles will show the number of data points derived from MF analysis and will show the appropriate 90<sup>th</sup> percentile standard for that MPN/MF combination for approved and restricted classifications. It must be remembered that this weighted standard is only used for data sets encompassing data from the two different test methods, MF and MPN (3 tube/3 dilution). If decisions are to be made on a single test result analyzed by the MF method or a multiple number of test results all exclusively analyzed by the MF method, the 90<sup>th</sup> percentile standard is 31 fecal coliforms per 100 ml.

This was the second year the water quality program documented, in the database, the inability to collect a sample based on the following parameters: if the tide stage was too low to collect the sample, there was a safety issue with collecting the sample, the location was inaccessible or "other" which was accompanied by a comment on the data sheet. Stations that were unable to be sampled due to any of these parameters show 999 in the salinity column and have no data recorded in any of the columns except the time which is recorded so the actual tide stage can be computed. Stations that were missed due to the above parameters were required to be made up to assure that each station would receive the required six samples during the sampling season.



### Appendix C. Water Quality Data for 2008

Station	Date	Collect	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
WR006.00	01/09/08	EXT	F	1	30	R	-	C	P	<2.0	SW
	03/05/08	FP	F	-1	30	R	-	C	P	<2.0	NE
	05/06/08	LL	F	8	25	R	P	C	P	<2.0	CL
	07/01/08	LL	HF	16	30	R	-	C	P	4	CL
	08/19/08	AB	F	22	30	R	P	C	P	<2.0	CL
	10/22/08	AB	LE	10	32	R	P	C	P	2	NE
WR007.00	01/09/08	EXT	F	1	30	R	-	O	A	<2.0	SW
	03/05/08	FP	F	-1	29	R	-	O	A	<2.0	NE
	05/06/08	LL	F	8	25	R	P	C	P	<2.0	CL
	07/01/08	LL	HF	17	32	R	-	C	P	<2.0	CL
	08/19/08	AB	F	22	30	R	P	C	P	<2.0	CL
	10/22/08	AB	LE	10	32	R	P	C	P	2	NE
WR008.00	01/09/08	EXT	F	2	28	R	-	C	P	<2.0	SW
	03/05/08	FP	HF	-1	30	R	-	C	P	2	NE
	05/06/08	LL	F	9	25	R	P	C	P	<2.0	CL
	07/01/08	LL	H	16	30	R	-	C	P	18	CL
	08/19/08	AB	F	22	30	R	P	C	P	2	CL
	10/22/08	AB	LE	10	31	R	P	C	P	<2.0	NW
WR010.00	01/09/08	EXT	F	1	31	R	-	O	A	<2.0	SW
	03/05/08	FP	HF	-1	30	R	-	O	A	<2.0	NE
	05/06/08	LL	F	9	26	R	P	O	A	<2.0	CL
	07/01/08	LL	H	14	31	R	-	O	A	40	CL
	08/19/08	AB	F	22	30	R	P	O	A	<2.0	CL
	10/22/08	AB	E	10	31	R	P	O	A	7.3	E
WR011.00	01/09/08	EXT	HF	1	30	R	-	O	A	<2.0	SW
	03/05/08	FP	HF	-1	26	R	-	O	A	6	NE
	05/06/08	LL	F	10	25	R	P	O	A	<2.0	CL
	07/01/08	LL	H	16	31	R	-	O	A	40	CL
	08/19/08	AB	F	23	30	R	P	O	A	6	CL
	10/22/08	AB	E	10	31	R	P	O	A	114	E
WR012.00	01/09/08	EXT	HF	2	30	R	-	O	A	<2.0	SW
	03/05/08	FP	H	-1	30	R	-	O	A	<2.0	NE
	05/06/08	LL	F	10	26	R	P	O	A	<2.0	S
	07/01/08	LL	H	17	31	R	-	O	A	35	SW
	08/19/08	AB	F	24	30	R	P	O	A	4	NE
	10/22/08	AB	E	10	32	R	P	O	A	<2.0	NE
WR013.00	01/09/08	EXT	HF	2	22	R	-	O	A	6	SW
	03/05/08	FP	H	-1	30	R	-	O	A	2	NE
	05/06/08	LL	F	10	10	R	P	O	A	<2.0	CL
	07/01/08	LL	H	18	30	R	-	O	A	78	CL
	08/19/08	AB	F	24	30	R	P	O	A	<2.0	CL
	10/22/08	AB	E	10	31	R	P	O	A	40	E
WR014.00	01/09/08	EXT	HF	1	30	R	-	O	A	2	SW
	03/05/08	FP	H	-1	30	R	O	O	A	<2.0	NE



Station	Date	Collect	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
	05/06/08	LL	F	13	26	R	P	O	A	<2.0	S
	07/01/08	LL	HE	19	31	R	-	O	A	2	SW
	08/19/08	AB	HF	24	30	R	P	O	A	6	NE
	10/22/08	AB	E	9	31	R	P	O	A	44	E
WR016.00	01/09/08	EXT	H	1	30	R	-	C	P	4	SW
	03/05/08	FP	H	-1	30	R	P	C	P	2	CL
	05/06/08	LL	HF	11	26	R	P	C	P	<2.0	S
	07/01/08	LL	HE	16	31	R	-	C	P	12	SW
	08/19/08	AB	HF	22	30	R	P	C	P	<2.0	E
	10/22/08	AB	LE	10	32	R	P	C	P	16	NE
WR022.00	01/09/08	EXT	H	1	30	R	-	C	P	<2.0	SW
	03/05/08	FP	HE	-1	29	R	P	C	P	<2.0	E
	05/06/08	LL	HF	9	26	R	P	C	P	<2.0	S
	07/01/08	LL	HE	13	32	R	-	C	P	6	SW
	08/19/08	AB	HF	17	30	R	P	C	P	20	E
	10/22/08	AB	E	10	30	R	P	C	P	<2.0	E
WR024.00	01/09/08	EXT	H	1	18	R	-	C	P	2	SW
	03/05/08	FP	HE	-3	24	R	P	C	P	<2.0	E
	05/06/08	LL	HF	11	18	R	P	C	P	<2.0	CL
	07/01/08	LL	HE	17	30	R	-	C	P	16	CL
	08/19/08	AB	HF	20	28	R	PN	C	P	>1600	NW
	10/22/08	AB	L	10	28	R	P	C	P	32	N
WR025.00	01/09/08	EXT	H	-1	3	R	-	C	P	2	SW
	03/05/08	FP	HE	-2	14	R	P	C	P	14	E
	05/06/08	LL	HF	13	2	R	P	C	P	6	S
	07/01/08	LL	HE	17	29	R	-	C	P	98	S
	08/19/08	AB	H	22	28	R	P	C	P	24	NE
	10/29/08	FP	F	6	22	R	W	C	P	32	NW
WR026.00	01/09/08	EXT	HE	1	2	R	-	C	P	62	SW
	03/05/08	FP	HE	-1	16	R	P	C	P	12	CL
	05/06/08	LL	HF	13	0	R	P	C	P	2	S
	07/01/08	LL	HE	21	23	R	-	C	P	240	CL
	08/19/08	AB	H	23	28	R	W	C	P	8	NE
	10/22/08	AB	LF	10	8	R	P	C	P	16	N
WR027.00	01/09/08	EXT	HE	1	5	R	-	C	P	96	SW
	03/05/08	FP	HE	-1	20	R	P	C	P	<2.0	CL
	05/06/08	LL	HF	13	5	R	P	C	P	4	S
	07/01/08	LL	E	17	28	R	-	C	P	44	SW
	08/19/08	AB	H	22	28	R	-	C	P	64	CL
	10/29/08	FP	F	5	7	R	-	C	P	56	W
WR027.30	01/09/08	EXT	HE	0	15	R	P	C	P	10	SW
	03/05/08	FP	E	-1	22	R	P	C	P	22	CL
	05/06/08	LL	H	12	9	R	P	C	P	6	S
	07/01/08	LL	E	16	30	R	-	C	P	44	CL
	08/19/08	AB	H	22	26	R	-	C	P	31	NW
	10/22/08	AB	L	10	18	R	P	C	P	13	E



Station	Date	Collect	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
WR028.00	01/09/08	EXT	HE	0	21	R	P	C	P	2	SW
	03/05/08	FP	E	-1	30	R	P	C	P	<2.0	CL
	05/06/08	LL	H	12	15	R	P	C	P	<2.0	S
	07/01/08	LL	E	17	30	R	-	C	P	15	CL
	08/19/08	AB	H	20	30	R	-	C	P	13	N
	10/22/08	AB	LF	10	30	R	P	C	P	4	N
WR029.00	01/09/08	EXT	HE	1	24	R	P	C	P	35	SW
	03/05/08	FP	E	-1	30	R	P	C	P	<2.0	CL
	05/06/08	LL	H	10	20	R	P	C	P	<2.0	S
	07/01/08	LL	E	18	30	R	-	C	P	13	SW
	08/19/08	AB	HE	19	30	R	-	C	P	16	CL
	10/22/08	AB	LF	10	30	R	P	C	P	<2.0	N
WR030.00	01/09/08	EXT	E	1	29	R	P	C	P	<2.0	SW
	03/05/08	FP	E	0	26	R	P	C	P	14	CL
	05/06/08	LL	H	8	26	R	P	C	P	<2.0	S
	07/01/08	LL	E	18	30	R	-	C	P	14	SW
	08/19/08	AB	HE	19	30	R	-	C	P	104	N
	10/22/08	AB	LF	10	30	R	P	C	P	2	N
WR034.00	01/09/08	EXT	E	1	28	R	P	C	P	4	SW
	03/05/08	FP	E	0	26	R	P	C	P	2	CL
	05/06/08	LL	H	10	26	R	P	C	P	<2.0	CL
	07/01/08	LL	E	15	30	R	-	C	P	12	CL
	08/19/08	AB	HE	21	30	R	-	C	P	18	NE
	10/22/08	AB	L	9	30	R	P	C	P	20	NE
WR035.00	01/09/08	EXT	E	-1	30	R	-	C	P	<2.0	SW
	03/05/08	FP	E	0	30	R	P	C	P	<2.0	CL
	05/06/08	LL	H	10	25	R	P	C	P	<2.0	CL
	07/01/08	LL	E	15	30	R	-	C	P	4	SW
	08/19/08	AB	HE	20	30	R	-	C	P	7.3	NE
	10/22/08	AB	L	10	32	R	P	C	P	<2.0	NE