



GROWING AREA WK

Towns of Brunswick and Harpswell

ANNUAL REVIEW for 2006

Final Report Date: 10/09/08

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APPROVAL

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Figure 1. Growing Area WK with Sampling Stations

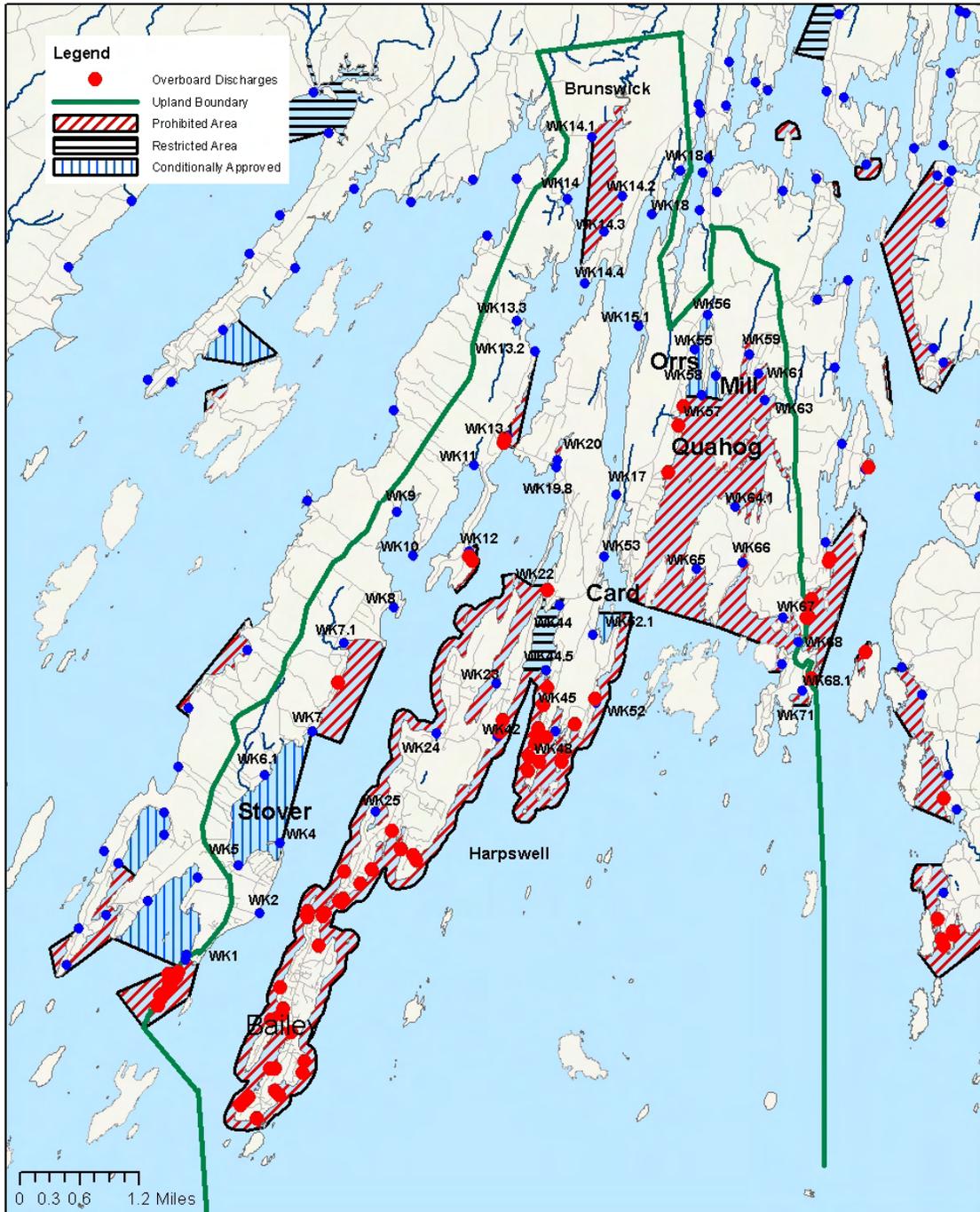


Maine Department of Marine Resources

Growing Area WK



3/15/07





Executive Summary

This is an annual report, written in compliance with the NSSP 2005 Model Ordinance.

Growing Area WK is located between Potts Point, Harpswell Neck and East Cundy Point, in the town of Harpswell. Major source of pollution in area WK include numerous over board discharges (OBDs), and one marina; there are no municipal waste water treatment plants in area WK. No stations were deactivated in 2006, but several new stations were created or reactivated: WK 6.1, 14.1, 14.3, 14.4, 19.8, 44.5 and 52. No overboard discharges were removed from growing area WK in 2006, and no classifications changes are required at this time.

The next triennial report for area WK is due in 2011; the next sanitary survey report is due in 2007.

Current Classification(s)

Shellfish growing area WK currently has areas classified as:

Approved:

- Stover Point (2 Station)
- Merriman, Mill and Widgeon Coves (4 Stations)
- Harpswell Cove (3 Stations)
- Long Reach (4 Stations)

Conditionally Approved:

- Stover Cove (3 Stations)
- Card Cove (2 Stations)
- Orrs Cove (2 Stations)
- Mill Cove, Quahog Bay (2 Stations)

Restricted:

- Inner Gun Point Cove (2 Stations)

Prohibited:

- Harpswell Sound (13 Stations)
- Quahog Bay (15 Stations)

Please visit the DMR website to view legal notices:

- Area No. 17A, Upper Harpswell Neck and Long Reach (Brunswick to Harpswell)
- Area No. 17B, Harpswell Neck (Harpswell)
- Area No. 17C, Bailey Island, Orrs Island and nearby southwest Sebascodegan Island (Harpswell)
- Area No. 18, Quahog Bay, Hen Cove, Ridley Cove (Harpswell).

http://www.maine.gov/dmr/rm/public_health/closures/closedarea.htm



Activity during Review Period

In response to the 2005 annual review, the following changes occurred in 2006:

- Harpswell Cove (WK 14.2, reactivated station WK 14.1, and new stations WK 14.3 and 14.4) was classified as prohibited on May 17, 2006. The new and reactivated stations were established to identify potential pollution sources and pollution boundaries.
- Beals Cove (WK 25) and Long Cove (WK23) were reclassified as prohibited on 4/5/06 due to elevated fecal coliform levels.
- Stover Cove (WK 4 and 5) conditionally approved area was enlarged to include reactivated station WK 6.1 and the boundary station WK 7 on May 17, 2006; this change also reclassified station WK 2 from prohibited to approved. Water quality improved in this area.
- Quahog Bay (WK 61, 64.1, 65, and 66) was closed on May 17, 2006 due to elevated fecal coliform levels.
- Gun Point Cove (WK 44 and new station WK 44.5) - the head of the cove was reclassified as conditionally approved May 17, 2006, and was again reclassified as restricted on October 3, 2006 after the FDA review determined there was insufficient seasonal data to support the conditionally approved classification. The new station was established to monitor the restricted/prohibited boundary line.
- Gurnet Strait (WK 18 and 18.1) was reclassified as approved on September 12, 2006. A new shoreline survey determined that there were no longer any potential pollution sources and water quality met approved standards.

The above classification changes are reflected in the tabulated data for 2006, where samples collected earlier in the year had one classification and later in the year had a different classification.

New station WK 19.8 was established to monitor water quality on the approved/prohibited boundary line in Strawberry Creek. Stations WK 48 and 52, reactivated in 2005, are sampled to evaluate water quality around Long Point.

Current Management Plan(s)

There are management plans for four conditional areas in WK: Stover Cove Seasonal Conditional Area, Card Cove Seasonal Conditional Area, Mill Cove (Quahog Bay) Seasonal Conditional Area, and Orrs Cove Seasonal Marina Conditional Area. Stover Cove, Card Cove and Mill Cove are closed May 1 through September 30, due of seasonal non-point pollution. All three areas are reopened per the management plan, following satisfactory water quality samples. Orrs Cove marina conditional area is closed May 1 through November 30, due to the potential for pollution from boats at Great Island boatyard. Copies of the management plans can be found in the central files.



Current Annual Review of Management Plan

As of October 24, 2006, before a seasonal area can reopen, water samples must be collected and the samples must meet Conditional Area Re-opening Criteria as defined in the DMR Shellfish Area Growing Area Classification SOP, Fecal Coliform Levels for Re-opening. Stover Cove, Card Cove and Mill Cove were sampled prior to the seasonal conditional areas reopening in the fall of 2006. Stover and Card Coves were sampled on September 20, 2006 and did not meet approved standards; therefore the areas did not open on October 1st, as scheduled. Stover and Card Coves were re-sampled on October 2, 2006. Card Cove met approved standards and was reopened on November 21, 2006. Stover Cove was sampled a third time on November 15, 2006, met approved standards, and was reopened on November 28, 2006. Mill Cove met approved standards on September 20, 2006 and opened on time on October 1, 2006. Orrs Cove was observed for boats prior to the reopening of the marina conditional area in 2006. The complete Annual Reviews can be found in Appendices A and B.

Review of Water Quality

Transitioning to Membrane Filtration for Seawater and Pollution Source Samples

The Maine Department of Marine Resources has chosen to switch to a fecal coliform method that was approved for use in the National Shellfish Sanitation Program (NSSP) at the Interstate Shellfish Sanitation Conference in 2003. This method is the Membrane Filtration (MF) for Fecal Coliforms using mTEC agar with a two hour resuscitation step. The geometric mean and the 90th percentile are calculated on 30 data points extending over a five year period.

During the transition from MPN to MF, DMR will be accumulating MF data points. The statistical calculations will be a combination of MPN and MF data points. 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 90th 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 90th percentile standard that the sample site is compared to will change over time.

Once all 30 data points are analyzed using MF, the 90th 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 90th percentiles will show the number of data points derived from MF analysis and will show the appropriate 90th 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 90th percentile standard is 31 fecal coliforms per 100 ml.



This was the first 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 and “other” which usually 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 but the time 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.

Review of Water Quality Data

Table 1 displays the geomean and P90 scores for all the active approved, restricted, and prohibited stations in growing area WK. The data represents the evaluation of the 30 most recent data points collected between 2001 and 2006. A key to the water quality table headers can be found in appendix C. All stations met their current classification during the current review year. Some stations classified as prohibited met the approved standard, however, due to their proximity to active OBDs, they will retain their current classification.

Table 1. Geomean and P90 scores, Growing Area WK, 2001-2006

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WK001.00	P	30	2	6.3	0.59	1200	35.8	48	288
WK002.00	A	30	2	4.4	0.39	43	14.0	48	288
WK007.10	P	30	2	5.7	0.57	460	30.8	48	288
WK008.00	A	30	2	6.0	0.55	120	30.4	48	288
WK009.00	A	30	3	6.1	0.46	90	23.5	47	282
WK010.00	A	30	3	5.4	0.56	280	28.0	47	282
WK011.00	A	30	4	5.4	0.59	800	30.2	46	277
WK012.00	P	30	2	4.5	0.39	93	14.1	48	288
WK013.10	P	30	2	4.6	0.42	93	16.2	48	288
WK013.20	P	30	2	4.0	0.35	82	11.4	48	288
WK013.30	A	30	3	4.1	0.34	43	11.1	47	282
WK014.00	A	30	3	5.3	0.51	200	24.0	47	282
WK014.10	New	8	3	9.9	0.88	240	142.3		
WK014.20	P	30	4	8.3	0.83	1200	95.6	46	277
WK014.30	New	6	3	3.3	0.42	23	11.8		
WK014.40	New	6	3	2.4	0.09	2.9	3.2		
WK015.10	A	30	3	3.4	0.22	23	6.6	47	282
WK017.00	A	30	2	4.0	0.41	93	13.5	48	288
WK018.00	A	30	4	4.7	0.60	1200	27.9	46	277
WK018.10	A	30	2	4.3	0.40	150	14.1	48	288
WK019.80	New	6	3	4.5	0.49	42	19.4		
WK020.00	P	30	3	11.6	0.74	1100	101.8	47	282
WK022.00	A	30	3	4.2	0.37	93	12.5	47	282
WK023.00	P	30	2	12.1	0.77	1100	115.5	48	288
WK024.00	P	30	2	12.9	0.78	920	127.1	48	288
WK025.00	P	30	2	11.0	0.64	460	73.2	48	288
WK042.00	P	30	2	21.5	0.91	1440	313.5	48	288
WK044.00	R	30	3	7.2	0.72	1200	59.6	47	282



STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WK044.50	New	6	2	7.2	0.50	33	32.8		
WK045.00	P	30	2	5.4	0.60	1100	31.9	48	288
WK048.00	New	12	2	15.8	0.84	1200	195.8		
WK052.00	New	6	2	12.4	0.89	420	180.0		
WK053.00	A	30	2	6.8	0.63	460	43.1	48	288
WK057.00	P	30	3	4.0	0.38	93	12.3	47	282
WK059.00	P	30	2	9.0	0.63	240	57.8	48	288
WK061.00	P	30	2	12.1	0.69	1200	93.5	48	288
WK063.00	P	30	2	9.7	0.75	1700	88.9	48	288
WK064.10	P	30	2	6.9	0.71	1100	55.3	48	288
WK065.00	P	30	2	11.7	0.67	460	84.2	48	288
WK066.00	P	30	2	10.5	0.56	460	55.0	48	288
WK067.00	P	30	2	9.1	0.61	240	55.4	48	288
WK068.00	P	30	2	18.7	0.82	1100	211.5	48	288
WK068.10	P	30	2	8.5	0.72	1100	70.2	48	288
WK071.00	P	30	2	6.1	0.45	43	23.2	48	288

Tables 2-5 display geomean and P90 scores for conditionally approved areas in WK, using water quality data collected during the open status. Stover Cove seasonal conditional stations met approved standards during the open season (Table 2). Card Cove seasonal conditional station met approved standards during the open season (Table 3). Orrs Cove seasonal marina conditional stations met approved standards during the open season (Table 4). Mill Cove seasonal conditional stations met approved standards during the open season (Table 5).

Table 2. Stover Cove Conditional Area Geomean and P90 Scores-Open Status

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WK004.00	CA	30	3	5.6	0.60	420	32.7	47	282
WK005.00	CA	30	3	6.1	0.57	160	32.2	47	282
WK006.10	New	7	3	3.6	0.28	12	8.4		

Table 3. Card Cove Conditional Area Geomean and P90 Scores-Open Status

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WK052.10	CA	30	3	6.3	0.60	460	37.0	47	282
WK053.00	New	27	1	4.7	0.50	460	20.5		

Table 4. Orrs Cove Conditional Area Geomean and P90 Scores, Open Status

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WK055.00	CA	26	1	3.8	0.38	240	11.6	48	293
WK056.00	CA	24	1	4.8	0.54	743	23.5	48	292

Table 5. Mill Cove Conditional Area Geomean and P90-Open Status

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WK057.00	P	30	2	3.8	0.33	93	10.0	48	288
WK058.00	CA	30	2	3.9	0.39	76	12.1	48	288



Stations that were active at the beginning of the year were sampled six times in 2006, except for station WK 13.1, which was mistakenly collected twice at the location of station WK 13 (a deactivated station) (Table 6). Station WK 13.1 is classified as prohibited. Stations in the marina conditional area (WK 55 and 56) were sampled 6 times in the open status. All stations located in the seasonal conditional areas were sampled 5 times in the open status, with the exception of WK 58, that was sampled 6 times. Conditional station WL 4, 5, 6.1 and 52.1 were sampled only five times in the open status, as they reopened almost two months after their scheduled re-opening date of October 1.

In 2006, two of the seasonal conditional areas reopened late due to elevated fecal scores. Stations WK 4, 5, 6.1, 52.1 and 58 were sampled five times in the open status. Station WK 7 is located on the conditionally approved/prohibited boundary line. When the area was reclassified on May 17, 2006, which made this station conditionally approved, the change was not reflected on the sampling schedule. This station was sampled 6 times in 2006, but not during the open season. However, water quality met approved standards year round.

Table 6. Sample Collection Summary, 2006

STATION	CLASS	STATUS	Count	COMMENTS
WK001.00	P	C	6	
WK002.00	A	O	4	Reclassified from P to A on 5/17/06. This station has been an active station and sampled on the SRS schedule. This data (30 data points over the last 5 years) was used to reclassify the area. It was sampled 6 times in 2006.
	P	C	2	
WK004.00	CA	C	5	Stover Cove – Management Plan Seasonal opening 10/1 - 4/30. Sampled according to SRS and samples collected in all months of open season according to management plan. However, opening was delayed due to elevated fecal coliform scores in September & October. This caused the area to be in closed status during October & November sampling dates. In 2006, this area was open 5 months and was sampled 5 times in the open status.
	CA	O	5	
WK005.00	CA	C	4	Stover Cove – Management Plan Seasonal opening 10/1 - 4/30. Sampled according to SRS and samples collected in all months of open season according to management plan. However, opening was delayed due to elevated fecal coliform scores in September & October. This caused the area to be in closed status during October & November sampling dates. In 2006, this area was open 5 months and was sampled 5 times in the open status.
	CA	O	5	
WK006.10	CA	C	5	These two stations were classified prohibited until 5/17/06 when Stover Cove conditional area was enlarged to include the area monitored by WK6.1 and WK 7. When they were reclassified the area was in the closed status.
	CA	O	1	
	P	C	4	
WK007.00	CA	C	4	These two stations were classified prohibited until 5/17/06 when Stover Cove conditional area was enlarged to include the area monitored by WK6.1 and WK 7. When they were reclassified the area was in the closed status.
	P	C	2	
WK007.10	P	C	7	
WK008.00	A	C	11	
	A	O	6	
WK009.00	A	O	6	
WK010.00	A	O	6	
WK011.00	A	O	6	
WK012.00	P	C	6	
WK013.00	A	O	3	
WK013.10	P	C	5	
WK013.20	P	C	6	



STATION	CLASS	STATUS	Count	COMMENTS	
WK013.30	A	O	6		
WK014.00	A	O	6		
WK014.10	P	C	6		
WK014.20	A	O	1	Harpwell Cove reclassified from A to P on 5/17/06	
	P	C	5		
WK014.30	P	C	6		
WK014.40	A	O	6		
WK015.10	A	O	6		
WK017.00	A	O	6		
WK018.00	A	O	6		
WK018.10	A	O	2	Gurnet Strait reclassified from P to A on 9/12/06	
	P	C	4		
WK019.80	A	O	6		
WK020.00	P	C	6		
WK022.00	A	O	7		
WK023.00	A	O	2	Long Cove reclassified from P to A on 4/5/06	
	P	C	5		
WK024.00	P	C	7		
WK025.00	A	O	1	Beals Cove reclassified from P to A on 4/5/06	
	P	C	5		
WK039.00	P	C	1		
WK042.00	P	C	6		
WK044.00	A	O	2	Gun Pt Cove reclassified to conditionally approved on 5/17/06 and then reclassified to restricted on 10/3/06	
	CA	C	3		
	R	O	2		
WK044.50	A	O	3		
	CA	C	3		
	R	O	1		
WK045.00	P	C	6		
WK048.00	P	C	6		
WK052.00	P	C	6		
WK052.10	CA	C	5	Seasonal conditional area; open status 10/1 - 4/30	
	CA	O	5		
WK053.00	A	O	6		
WK055.00	CA	C	4	Marina conditional area; open status 12/1 - 4/30	
	CA	O	6		
WK056.00	CA	C	4		
	CA	O	6		
WK057.00	P	C	10		
WK058.00	CA	C	3	Seasonal conditional area; open status 10/1 - 4/30	
	CA	O	6		
WK059.00	P	C	8		
WK061.00	A	O	3	Quahog Bay was reclassified from A to P on 5/17/06	
	P	C	4		
WK063.00	P	C	7		
WK064.10	A	O	3	Quahog Bay was reclassified from A to P on 5/17/06	



STATION	CLASS	STATUS	Count	COMMENTS
	P	C	4	
WK065.00	A	O	3	
	P	C	4	
WK065.20	P	C	1	Station deactivated in April, 2006
WK066.00	A	O	3	Quahog Bay was closed 5/17/06
	P	C	4	
WK067.00	P	C	6	
WK068.00	P	C	6	
WK068.10	P	C	6	
WK071.00	P	C	6	

Shoreline Survey Activity

Long Cove, Reed Cove, and Beals Cove were surveyed in 2006. A drive through survey was completed for other areas in the WK, as part of a random sample run and no problems were observed.

Aquaculture/Wet Storage Activity

Currently, there are no active aquaculture lease sites. There are two wet storage permits issued in area WK (both for Allen's Seafood, Harpswell Neck).

Classification Changes Required

No classification changes are required at this time.

Summary

Water quality monitoring stations in growing area WK continue to support their current NSSP classifications. As a result of this annual review, no stations need to be upgraded or downgraded in their classification status.

Harpswell Cove and Quahog Bay were last surveyed in 1994 and were classified approved for shellfish harvesting until May 2006, when they were reclassified prohibited due to non-point pollution negatively impacting water quality. Both areas need to be resurveyed in the coming year. All of growing area WK is due for a sanitary survey report, to be completed in 2008.



Appendix A. Annual Review of Management Plan- Stover, Card and Mill Coves

2006 Annual Review Stover Cove, Card Cove and Mill Cove (Quahog Bay) Conditional Areas Growing Area WK

Scope

Three areas in Growing Area WK are classified as conditionally approved due to seasonal variability of water quality, possibly due to an increase in shore usage. Stover Cove is monitored by stations WK 4, 5 and 6.1; Card Cove is monitored by station WK 52.1; and Mill Cove (Quahog Bay) is monitored by station WK 58, were classified conditionally approved based on seasonal variation in water quality in 1998 and/or 1999 (respective of area). DMR evaluated the data in these areas in December 1997 and/or 1998, and made the assessment that there is greater variation in water quality during the summer months. While there is a presence of year-round homes in the vicinity of these three coves, there are many seasonal homes as well. The increase in summer population typically increases shore usage in the months of June, July and August.

Compliance with management plan

In 2006, the seasonal conditional areas closed on June 1 and were scheduled to reopen on October 1, pending satisfactory re-opening water quality scores, collected on September 20. Mill Cove met approved standard and opened on time on October 1, 2006; the samples that were collected at Stover and Card Coves, did not meet approved standards and the areas did not open as scheduled. Stover and Card Coves were re-sampled on October 2, 2006. Card Cove met approved standards and was reopened on November 21, 2006. Stover Cove was sampled a third time on November 15, 2006, met the approved standard, and was reopened on November 28, 2007. The seasonal closures are enforced by the DMR Marine Patrol and the local Shellfish Warden. Cooperation between the involved parties has been excellent.

Table 1. Membrane filtration test method scores (CFU/100ml) for 2006 reopening samples

Date	Stover Cove Station WK 4	Stover Cove Station WK 5	Stover Cove Station WK 6.1	Card Cove WK 52.1	Mill Cove WK 58
9/20/06	1.9	1560	2	1560	4
10/2/06	420	160	12	18	
11/15/06	1.9	1.9	2		

Adequacy of reporting and cooperation of involved persons

This management plan does not require reporting.

Compliance with approved growing area criteria

The annual review of the water quality for all active stations met approved standards during the established open time period (October 1- April 30) (Table 2).



STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WK004.00	CA	30	3	5.6	0.60	420	32.7	47	282
WK005.00	CA	30	3	6.1	0.57	160	32.2	47	282
WK006.10	CA	7	3	3.6	0.28	12	8.4	40	231
WK052.10	CA	30	3	6.3	0.60	460	37.0	47	282
WK058.00	CA	30	2	3.9	0.39	76	12.1	48	288

Field inspection of critical pollution sources

The potential for pollution in growing area WK comes from increased shore usage (swimming, walking pets, etc.) and the influx of summer residents to their seasonal homes. Visual observations are made throughout the year during the course of random sampling and shoreline surveying.

Water sampling compliance history

All stations were collected 5 times when in the open status. The results of all sampling can be found in the 2006 Annual Review for Growing Area WK.

Analysis-Recommendations

It is MDMR policy to sample two weeks before reopening a seasonal area to ensure compliance with approved standards. This policy was established at the end of October 2006 and was immediately put into effect for these conditional areas. Samples will continue to be collected prior to conditional area reopenings.



Appendix B. Annual Review of Management Plan- Orrs Cove

Orrs Cove Marina Conditional Area Growing Area WK

Scope

A portion of Growing Area WK, Orrs Cove, is conditionally approved based on the presence or absence of 10 or more boats with heads at the Great Island Boatyard, which may discharge into Orrs Cove. Orrs Cove, monitored by stations WK 55, 56, and boundary station 57 (Classified as Prohibited) was classified conditionally approved in August 2002. DMR evaluated the Orrs Cove data, made observations of the marina, and interviewed the marina owner with regard to usage in December 2001, and made the assessment that fewer than 10 boats are in the cove from November 15 through May 1. Water quality met approved standards from December 1 through April 30.

Compliance with management plan

In 2006 the seasonal conditional area closed on May 1 and reopened on December 1. The area was visited by DMR on April 26, 2006 and there were fewer than 10 boats with heads in the area. The marina was also visited on November 15, 2006, and there were fewer than 10 boats with heads in the area. The seasonal closures are enforced by the MDMR Marine Patrol and the local Shellfish Warden. Cooperation between the involved parties has been excellent.

Adequacy of reporting

Per management plan, the marina is visited prior to both the closing and the reopening date. The marina was visited by DMR staff on April 26, 2006 to confirm that there were fewer than 10 boats with heads in the water. It was also visited on November 15, 2006, to confirm that were than 10 boats with heads remained in the water.

Compliance with approved growing area criteria

Water quality for all active stations met approved standards during the open status (Table 1).

Table 1. Orrs Cove Conditional Area Water Quality Scores, Open Status

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WK055.00	CA	26	1	3.8	0.38	240	11.6	48	293
WK056.00	CA	24	1	4.8	0.54	743	23.5	48	292

Field inspection of critical pollution sources

The potential for pollution in Orrs Cove comes from boats with heads that are moored at the Great Island Boatyard. Visual observations are made of Orrs Cove at the end of April and in the middle of November to ensure that there are fewer than 10 boats with heads in the cove.



Water sampling compliance history

Stations WK 55 and 56 were collected 6 times when in the open status.

Analysis-Recommendations

It is the DMR's policy to observe marina areas two weeks before closure/re-opening to ensure compliance with approved standards. Orrs Cove was observed on November 15 for the reopening on December 1. Fewer than 10 boats with heads were in the water. No changes in management of this conditional area are recommended at this time.



Appendix C. 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 D. Water Quality Data, growing area WK, 2006

Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL	WIND
WK001.00	03/15/06	JB	F	1	31	R	-	C	P	<3.0	-	NW
	04/12/06	LL	H	8	31	R	-	C	P	<3.0	-	S
	06/20/06	JSC	E	18	26	R	-	C	P	9.1	-	S
	08/09/06	HWQ	HF	18	29	R	-	C	P	<3.0	-	-
	09/20/06	HWQ	H	15	31	R	-	C	P	-	2	CL
	11/15/06	GBR	E	9	28	R	-	C	P	-	2	NW
WK002.00	03/15/06	JB	F	1	32	R	-	C	P	<3.0	-	W
	04/12/06	LL	H	8	31	R	-	C	P	<3.0	-	S
	06/20/06	JSC	LE	18	26	R	-	O	A	<3.0	-	S
	08/09/06	HWQ	HF	19	29	R	-	O	A	<3.0	-	-
	09/20/06	HWQ	H	15	31	R	-	O	A	-	<2.0	CL
	11/15/06	GBR	E	9	29	R	-	O	A	-	<2.0	NW
WK004.00	01/17/06	JB	F		27	R	-	O	CA	<3.0	-	N
	02/07/06	FP	E	6	30	R	W	O	CA	3.6	-	NW
	03/15/06	JB	F	1	31	R	-	O	CA	23	-	W
	04/12/06	LL	HF	8	31	R	-	O	CA	<3.0	-	S
	06/20/06	JSC	LE	18	27	R	-	C	CA	<3.0	-	S
	08/09/06	HWQ	HF	19	29	R	-	C	CA	9.1	-	-
	09/20/06	HWQ	H	16	30	R	-	C	CA	-	<2.0	CL
	10/02/06	LL	E	14	31	R	-	C	CA	-	420	NW
	11/15/06	GBR	E	9	29	R	-	C	CA	-	<2.0	NW
	12/05/06	LL	H	6	30	R	-	O	CA	-	2	CL
WK005.00	01/17/06	JB	F		30	R	-	O	CA	<3.0	-	N
	02/07/06	FP	E	5	20	R	WN	O	CA	3.6	-	NW
	03/15/06	JB	HF	1	31	R	W	O	CA	<3.0	-	CL
	04/12/06	LL	HF	8	30	R	-	O	CA	<3.0	-	CL
	08/09/06	HWQ	HF	19	28	R	-	C	CA	3.6	-	-
	09/20/06	HWQ	H	16	25	R	-	C	CA	-	1560	CL
	10/02/06	LL	E	14	14	R	-	C	CA	-	160	NW
	11/15/06	GBR	E	9	28	R	-	C	CA	-	<2.0	NW
	12/05/06	LL	H	6	20	R	-	O	CA	-	28	CL
	WK006.10	01/17/06	JB	F		31	R	-	O	CA	6.1	-
02/07/06		FP	E	5	30	R	-	O	CA	<3.0	-	NW
03/15/06		JB	HF	1	31	R	-	O	CA	<3.0	-	CL
04/12/06		LL	HF	10	30	R	-	O	CA	<3.0	-	S
06/20/06		JSC	LE	18	26	R	-	C	CA	<3.0	-	CL
08/09/06		HWQ	HF	18	30	R	-	C	CA	<3.0	-	-
09/20/06		HWQ	H	16	30	R	-	C	CA	-	2	CL
10/02/06		LL	E	14	31	R	-	C	CA	-	12	NW
11/15/06		GBR	E	9	28	R	-	C	CA	-	2	NW



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL	WIND
	12/05/06	LL	H	6	30	R	-	O	CA	-	2	CL
WK007.00	03/15/06	JB	HF	1	31	R	-	C	P	<3.0	-	W
	04/12/06	LL	HF	8	31	R	-	C	P	<3.0	-	S
	06/20/06	JSC	LE	18	26	R	-	C	CA	<3.0	-	S
	08/09/06	HWQ	HF	18	30	R	-	C	CA	<3.0	-	-
	09/20/06	HWQ	H	16	30	R	-	C	CA	-	8	CL
	11/15/06	GBR	E	9	28	R	-	C	CA	-	2	NW
WK007.10	02/07/06	FP	E	5	30	R	N	C	P	<3.0	-	NW
	03/15/06	JB	HF	1	31	R	N	C	P	<3.0	-	W
	04/12/06	LL	HF	10	26	R	-	C	P	3.6	-	CL
	06/20/06	JSC	LE	20	26	R	-	C	P	39	-	S
	08/09/06	HWQ	HF	18	30	R	-	C	P	<3.0	-	-
	09/20/06	HWQ	H	16	30	R	-	C	P	-	220	CL
11/15/06	GBR	E	9	22	R	-	C	P	-	24	NW	
WK008.00	03/15/06	JB	HF	1	31	R	-	O	A	<3.0	-	NW
	04/12/06	LL	HF	10	32	R	-	O	A	<3.0	-	CL
	06/20/06	JSC	LE	20	26	R	-	O	A	<3.0	-	S
	08/09/06	HWQ	HF	18	30	R	-	O	A	<3.0	-	-
	09/20/06	HWQ	H	16	30	R	-	O	A	-	120	CL
	11/15/06	GBR	E	9	28	R	-	O	A	-	8	NW
WK009.00	03/15/06	JB	H	2	28	R	-	O	A	3.6	-	CL
	04/12/06	LL	HF	8	31	R	-	O	A	<3.0	-	CL
	08/09/06	HWQ	H	18	30	R	-	O	A	<3.0	-	-
	09/20/06	HWQ	H	16	30	R	-	O	A	-	90	CL
	10/10/06	HWQ	F	11	30	R	-	O	A	-	<2.0	CL
	11/15/06	GBR	E	9	22	R	-	O	A	-	24	NW
WK010.00	03/15/06	JB	H	3	31	R	-	O	A	<3.0	-	W
	04/12/06	LL	F	8	31	R	-	O	A	<3.0	-	CL
	08/09/06	HWQ	H	18	30	R	-	O	A	<3.0	-	-
	09/20/06	HWQ	H	16	30	R	-	O	A	-	280	CL
	11/15/06	GBR	E	9	28	R	-	O	A	-	10	NW
	11/29/06	GBR	L	7	28	R	-	O	A	-	<2.0	CL
WK011.00	03/15/06	JB	H	2	31	R	-	O	A	<3.0	-	NW
	04/12/06	LL	F	8	30	R	-	O	A	<3.0	-	CL
	09/05/06	LL	E	17	30	R	P	O	A	-	2	-
	09/20/06	HWQ	E	16	26	R	-	O	A	-	800	CL
	10/10/06	HWQ	F	11	30	R	-	O	A	-	2	CL
	11/15/06	GBR	E	9	2	R	-	O	A	-	34	NW
WK012.00	03/15/06	JB	H	2	31	R	-	C	P	<3.0	-	N
	04/12/06	LL	F	8	30	R	-	C	P	<3.0	-	CL



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL	WIND
	06/20/06	JSC	LE	18	27	R	-	C	P	<3.0	-	S
	08/09/06	HWQ	H	16	30	R	-	C	P	<3.0	-	-
	09/20/06	HWQ	H	16	30	R	-	C	P	-	5.5	CL
	11/15/06	GBR	E	9	28	R	-	C	P	-	6	NW
WK013.10	03/15/06	JB	H	2	31	R	-	C	P	<3.0	-	NW
	04/12/06	LL	H	8	31	R	-	C	P	<3.0	-	CL
	06/20/06	JSC	E	18	27	R	-	C	P	<3.0	-	S
	11/29/06	GBR	LE	7	28	R	-	C	P	-	<2.0	CL
	12/19/06	LL	H	5	32	R	-	C	P	-	42	CL
WK013.20	03/15/06	JB	H	2	31	R	-	C	P	<3.0	-	W
	04/12/06	LL	H	8	31	R	-	C	P	<3.0	-	CL
	06/20/06	JSC	E	18	27	R	-	C	P	<3.0	-	S
	08/09/06	HWQ	H	18	30	R	-	C	P	<3.0	-	-
	09/20/06	HWQ	HE	16	30	R	-	C	P	-	82	CL
	11/15/06	GBR	E	8	28	R	-	C	P	-	<2.0	NW
WK013.30	04/12/06	LL	HE	8	30	R	-	O	A	<3.0	-	S
	06/20/06	JSC	E	18	27	R	-	O	A	<3.0	-	CL
	08/09/06	HWQ	H	18	30	R	-	O	A	7.3	-	-
	09/20/06	HWQ	HE	16	30	R	-	O	A	-	9.1	CL
	11/15/06	GBR	E	8	28	R	-	O	A	-	<2.0	NW
	11/29/06	GBR	F	7	28	R	-	O	A	-	<2.0	CL
WK014.00	04/12/06	LL	HE	8	28	R	-	O	A	<3.0	-	S
	06/20/06	JSC	E	20	27	R	-	O	A	<3.0	-	CL
	08/09/06	HWQ	H	19	29	R	-	O	A	3.6	-	-
	09/20/06	HWQ	HE	16	30	R	-	O	A	-	200	CL
	11/15/06	GBR	E	9	20	R	-	O	A	-	44	NW
	11/29/06	GBR	F	7	28	R	-	O	A	-	2	CL
WK014.10	06/21/06	DD	LE	20	6	R	P	C	P	240	-	SE
	07/31/06	DD	F	21	28	R	-	C	P	9.1	-	NW
	08/16/06	DD	H	18	27	R	-	C	P	<3.0	-	-
	09/05/06	DD	HE	20	30	R	P	C	P	-	<2.0	-
	09/18/06	DD	HF	17	28	R	W	C	P	-	2	S
	12/12/06	DD	E	7	24	R	-	C	P	-	5.5	-
WK014.20	04/11/06	FP	E	11	30	R	-	O	A	<3.0	-	SW
	08/16/06	DD	H	14	30	R	-	C	P	<3.0	-	-
	09/05/06	DD	E	19	30	R	P	C	P	-	<2.0	-
	09/18/06	DD	HF	18	30	R	-	C	P	-	<2.0	S
	12/12/06	DD	E	7	31	R	W	C	P	-	2	-
	12/18/06	JB	E	4	28	R	-	C	P	-	<2.0	CL
WK014.30	06/21/06	DD	LE	19	26	R	P	C	P	23	-	SE



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL	WIND
	07/31/06	DD	F	19	29	R	-	C	P	<3.0	-	NW
	08/16/06	DD	H	14	30	R	-	C	P	<3.0	-	-
	09/05/06	DD	E	21	30	R	PW	C	P	-	<2.0	-
	09/18/06	DD	HF	18	30	R	-	C	P	-	<2.0	S
	12/12/06	DD	E	6	31	R	-	C	P	-	<2.0	-
WK014.40	06/21/06	DD	LE	19	28	R	P	O	A	<3.0	-	SE
	07/31/06	DD	F	18	30	R	-	O	A	<3.0	-	NW
	08/16/06	DD	H	16	31	R	-	O	A	<3.0	-	-
	09/05/06	DD	E	18	30	R	PW	O	A	-	2	-
	09/18/06	DD	HF	17	30	R	-	O	A	-	<2.0	S
	12/12/06	DD	E	7	30	R	-	O	A	-	2	-
WK015.10	04/12/06	LL	E	8	31	R	-	O	A	<3.0	-	S
	06/20/06	JSC	E	20	27	R	-	O	A	<3.0	-	S
	08/09/06	HWQ	H	20	29	R	-	O	A	<3.0	-	-
	09/20/06	HWQ	HE	16	30	R	-	O	A	-	13	CL
	11/15/06	GBR	E	9	26	R	-	O	A	-	2	NW
	11/29/06	GBR	L	7	28	R	-	O	A	-	<2.0	CL
WK017.00	03/15/06	JB	E		31	R	-	O	A	3.6	-	-
	04/12/06	LL	HE	10	30	R	-	O	A	<3.0	-	CL
	06/20/06	JSC	E	20	27	R	-	O	A	<3.0	-	S
	08/09/06	HWQ	H	21	30	R	-	O	A	<3.0	-	-
	09/20/06	HWQ	HE	16	30	R	-	O	A	-	90	CL
	11/15/06	GBR	E	9	26	R	-	O	A	-	2	NW
WK018.00	07/31/06	DD	F	20	30	R	W	O	A	3.6	-	NW
	08/16/06	DD	HF	19	30	R	-	O	A	<3.0	-	-
	09/05/06	DD	HE	21	30	R	P	O	A	-	2	-
	09/18/06	DD	HF	18	30	R	-	O	A	-	2	SW
	12/12/06	DD	E	8	31	R	-	O	A	-	<2.0	-
	12/18/06	JB	E	3	31	R	-	O	A	-	<2.0	CL
WK018.10	04/11/06	FP	E	11	30	R	-	C	P	<3.0	-	SW
	06/21/06	DD	LE	19	28	R	P	C	P	<3.0	-	SE
	07/31/06	DD	F	18	30	R	-	C	P	<3.0	-	NW
	08/16/06	DD	HF	16	31	R	-	C	P	<3.0	-	-
	09/18/06	DD	HF	18	30	R	H	O	A	-	<2.0	SW
	12/12/06	DD	E	7	32	R	-	O	A	-	<2.0	-
WK019.80	03/15/06	JB	HE	2	31	R	-	O	A	<3.0	-	NW
	04/12/06	LL	F	8	24	R	-	O	A	<3.0	-	CL
	08/09/06	HWQ	H	19	29	R	-	O	A	<3.0	-	-
	09/20/06	HWQ	HE	16	30	R	-	O	A	-	42	CL
	10/10/06	HWQ	F	9	28	R	-	O	A	-	2	CL
	11/15/06	GBR	E	9	24	R	-	O	A	-	4	NW



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL	WIND
WK020.00	03/15/06	JB	HE	2	31	R	N	C	P	<3.0	-	NW
	04/12/06	LL	F	8	28	R	-	C	P	9.1	-	CL
	08/09/06	HWQ	H	19	30	R	-	C	P	43	-	-
	09/20/06	HWQ	HE	16	26	R	-	C	P	-	150	CL
	11/15/06	GBR	E	8	18	R	-	C	P	-	18	NW
	11/29/06	GBR	E	7	28	R	-	C	P	-	6	CL
WK022.00	03/15/06	JB	E	2	32	R	-	O	A	<3.0	-	W
	04/12/06	LL	H	8	31	R	-	O	A	<3.0	-	CL
	06/20/06	JSC	E	18	999	R	-	O	A	3.6	-	S
	08/09/06	HWQ	HE	16	30	R	-	O	A	<3.0	-	-
	09/20/06	HWQ	HE	16	30	R	-	O	A	-	4	CL
	11/15/06	GBR	E	9	28	R	-	O	A	-	2	NW
	11/29/06	LL	F	6	28	R	-	O	A	-	<2.0	CL
WK023.00	03/15/06	JB	HE	2	30	R	-	O	A	<3.0	-	W
	04/12/06	LL	H	8	31	R	-	C	P	<3.0	-	CL
	06/20/06	JSC	E	20	28	R	-	C	P	3.6	-	S
	08/09/06	HWQ	HE	20	29	R	-	C	P	<3.0	-	-
	09/20/06	HWQ	E	16	31	R	-	C	P	-	5.5	CL
	11/15/06	GBR	E	8	28	R	-	C	P	-	6	NW
WK024.00	02/27/06	LL	H	1	31	R	-	C	P	<3.0	-	NW
	03/15/06	JB	HE	2	20	R	N	C	P	<3.0	-	W
	04/12/06	LL	H	8	32	R	-	C	P	<3.0	-	CL
	06/20/06	JSC	E	18	26	R	-	C	P	9.1	-	S
	08/09/06	HWQ	HE	18	30	R	-	C	P	15	-	-
	09/20/06	HWQ	E	16	20	R	-	C	P	-	920	CL
	11/15/06	GBR	E	9	28	R	-	C	P	-	3.6	NW
WK025.00	03/15/06	JB	HE	1	32	R	-	O	A	<3.0	-	W
	04/12/06	LL	HE	8	31	R	-	C	P	3.6	-	CL
	06/20/06	JSC	E		26	R	-	C	P	5.1	-	-
	08/09/06	HWQ	HE	18	29	R	-	C	P	3.2	-	-
	09/20/06	HWQ	E	16	30	R	-	C	P	-	78	CL
	11/15/06	GBR	E	9	28	R	-	C	P	-	<2.0	NW
WK042.00	03/15/06	AD	F	0	26	R	-	C	P	<3.0	-	SW
	04/12/06	AD	F	2	27	R	-	C	P	<3.0	-	SW
	06/20/06	AD	HE	15	25	R	-	C	P	23	-	SW
	08/09/06	AD	F	14	28	R	-	C	P	<3.0	-	NW
	09/20/06	AD	F	12	23	R	-	C	P	-	1440	SW
	11/15/06	AD	HE	15	18	R	-	C	P	-	33	SW
WK044.00	04/12/06	AD	F	2	30	R	-	O	A	<3.0	-	SW
	06/20/06	AD	HE	15	24	R	-	C	CA	3.6	-	SW



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL	WIND
	08/09/06	AD	F	14	29	R	H	C	CA	<3.0	-	NW
	09/20/06	AD	F	13	22	R	W	C	CA	-	10	SW
	11/15/06	AD	HE	15	25	R	-	O	R	-	76	SW
	11/29/06	LL	F	6	28	R	-	O	R	-	<2.0	CL
WK044.50	03/15/06	AD	F	0	31	R	-	O	A	<3.0	-	SW
	04/12/06	AD	F	2	30	R	-	O	A	3.6	-	SW
	06/20/06	AD	E	15	24	R	-	C	CA	3.6	-	SW
	08/09/06	AD	F	14	29	R	-	C	CA	3.6	-	NW
	09/20/06	AD	F	12	30	R	-	C	CA	-	31	SW
	11/15/06	AD	E	15	30	R	-	O	R	-	33	SW
WK045.00	03/15/06	AD	F	0	31	R	-	C	P	<3.0	-	SW
	04/12/06	AD	F	2	30	R	-	C	P	<3.0	-	SW
	06/20/06	AD	E	16	25	R	-	C	P	<3.0	-	SW
	08/09/06	AD	F	13	30	R	H	C	P	<3.0	-	NW
	09/20/06	AD	F	12	31	R	-	C	P	-	18	SW
	11/15/06	AD	E	15	30	R	-	C	P	-	<2.0	SW
WK048.00	03/15/06	AD	F	0	31	R	-	C	P	3.6	-	SW
	04/12/06	AD	F	4	27	R	-	C	P	9.1	-	SW
	06/20/06	AD	E	16	18	R	-	C	P	>1100	-	SW
	08/09/06	AD	F	14	29	R	H	C	P	23	-	NW
	09/20/06	AD	F	13	30	R	-	C	P	-	128	SW
	11/15/06	AD	E	15	20	R	-	C	P	-	126	SW
WK052.00	03/15/06	AD	F	0	28	R	-	C	P	<3.0	-	SW
	04/12/06	AD	F	3	27	R	-	C	P	<3.0	-	SW
	06/20/06	AD	E	15	25	R	-	C	P	23	-	SW
	08/09/06	AD	F	15	29	R	-	C	P	23	-	NW
	09/20/06	AD	F	12	27	R	-	C	P	-	420	SW
	11/15/06	AD	E	15	26	R	-	C	P	-	<2.0	SW
WK052.10	01/17/06	JB	HF		24	R	-	O	CA	3	-	N
	02/07/06	LL	E	1	28	R	P	O	CA	3.6	-	N
	03/15/06	AD	F	0	32	R	-	O	CA	<3.0	-	SW
	04/12/06	AD	F	2	30	R	-	O	CA	<3.0	-	SW
	06/20/06	AD	E	15	25	R	-	C	CA	240	-	SW
	08/09/06	AD	F	14	30	R	-	C	CA	460	-	NW
	09/20/06	AD	HF	12	26	R	-	C	CA	-	1560	SW
	10/02/06	LL	E	14	28	R	-	C	CA	-	18	NW
	11/15/06	AD	E	15	30	R	-	C	CA	-	4	SW
WK053.00	03/15/06	AD	F	0	28	R	-	O	A	<3.0	-	SW
	04/12/06	AD	F	4	28	R	-	O	A	<3.0	-	SW
	06/20/06	AD	E	16	26	R	-	O	A	240	-	SW



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL	WIND
	08/09/06	AD	F	13	31	R	-	O	A	43	-	NW
	09/20/06	AD	HF	13	30	R	-	O	A	-	75	SW
	11/15/06	AD	E	16	22	R	-	O	A	-	16	SW
WK055.00	01/17/06	JB	HF		30	R	N	O	CA	<3.0	-	CL
	02/07/06	LL	E	1	15	R	P	O	CA	3.6	-	N
	03/15/06	AD	F	0	32	R	-	O	CA	<3.0	-	SW
	04/12/06	AD	F	4	30	R	-	O	CA	<3.0	-	SW
	04/26/06	AJS	HF	9	32	R	-	O	CA	<3.0	-	CL
	06/20/06	AD	E	16	26	R	-	C	CA	7.3	-	SW
	08/09/06	AD	HF	15	29	R	-	C	CA	3.9	-	NW
	09/20/06	AD	HF	14	30	R	-	C	CA	-	64	SW
	11/15/06	AD	E	16	10	R	-	C	CA	-	58	SW
	12/05/06	LL	HF	6	20	R	-	O	CA	-	4	CL
WK056.00	01/17/06	JB	HF		8	R	-	O	CA	<3.0	-	CL
	02/07/06	LL	E	1	9	R	P	O	CA	3.6	-	N
	03/15/06	AD	HF	-2	14	R	-	O	CA	9.1	-	SW
	04/12/06	AD	HF	3	13	R	-	O	CA	<3.0	-	SW
	04/26/06	AJS	H	8	28	R	-	O	CA	23	-	NE
	06/20/06	AD	E	18	7	R	-	C	CA	75	-	SW
	08/09/06	AD	HF	15	29	R	-	C	CA	43	-	NW
	09/20/06	AD	HF	14	31	R	-	C	CA	-	86	SW
	11/15/06	AD	E	16	2	R	-	C	CA	-	25	SW
	12/05/06	LL	HF	6	30	R	-	O	CA	-	4	CL
WK057.00	01/17/06	JB	HF		31	R	-	C	P	<3.0	-	CL
	02/27/06	LL	H	1	31	R	-	C	P	<3.0	-	NW
	03/15/06	AD	HF	0	32	R	-	C	P	<3.0	-	SW
	04/12/06	AD	HF	3	30	R	-	C	P	<3.0	-	SW
	04/26/06	AJS	H	8	32	R	-	C	P	<3.0	-	NE
	06/20/06	AD	E	16	26	R	B	C	P	3.6	-	SW
	08/09/06	AD	HF	15	30	R	BH	C	P	3.6	-	NW
	09/20/06	AD	HF	13	30	R	B	C	P	-	54	SW
	11/15/06	AD	E	15	26	R	-	C	P	-	18	SW
	12/05/06	LL	HF	6	30	R	-	C	P	-	<2.0	CL
WK058.00	01/17/06	JB	HF		32	R	-	O	CA	<3.0	-	CL
	02/07/06	LL	E	2	30	R	P	O	CA	<3.0	-	N
	03/15/06	AD	HF	0	32	R	-	O	CA	<3.0	-	SW
	04/12/06	AD	HF	3	28	R	-	O	CA	<3.0	-	SW
	06/20/06	AD	E	17	25	R	-	C	CA	240	-	SW
	08/09/06	AD	HF	15	29	R	-	C	CA	3.6	-	NW
	09/20/06	AD	HF	14	30	R	-	C	CA	-	4	SW
	11/15/06	AD	E	16	15	R	-	O	CA	-	76	SW
	12/05/06	LL	HF	6	30	R	-	O	CA	-	<2.0	CL



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL	WIND
WK059.00	01/17/06	JB	H		30	R	-	C	P	<3.0	-	CL
	02/27/06	LL	HF	1	32	R	-	C	P	<3.0	-	NW
	03/15/06	AD	HF	0	28	R	-	C	P	<3.0	-	NW
	04/12/06	AD	HF	3	30	R	-	C	P	<3.0	-	SW
	06/20/06	AD	E	17	26	R	-	C	CA	43	-	SW
	08/09/06	AD	HF	15	30	R	H	O	CA	<3.0	-	NW
	09/20/06	AD	H	13	30	R	-	C	CA	-	160	SW
	11/15/06	AD	E	16	6	R	-	O	CA	-	44	SW
WK061.00	03/15/06	AD	HF	0	32	R	-	O	A	43	-	NW
	04/12/06	AD	HF	4	30	R	-	O	A	<3.0	-	SW
	06/20/06	AD	E	18	25	R	-	C	P	3.6	-	SW
	08/09/06	AD	H	16	29	R	-	C	P	23	-	NW
	09/20/06	AD	H	13	31	R	-	C	P	-	78	SW
		11/15/06	AD	E	16	10	R	-	C	P	-	118
WK063.00	03/15/06	AD	H	0	30	R	-	C	P	<3.0	-	NW
	04/12/06	AD	HF	5	30	R	-	C	P	<3.0	-	SW
	06/20/06	AD	E	18	26	R	-	C	P	3.6	-	SW
	08/09/06	AD	H	16	30	R	H	C	P	43	-	NW
	09/20/06	AD	H	14	31	R	-	C	P	-	>1600	SW
		11/15/06	AD	E	16	18	R	-	C	P	-	82
WK064.10	03/15/06	AD	H	0	31	R	-	O	A	<3.0	-	NW
	04/12/06	AD	H	3	30	R	-	O	A	<3.0	-	SW
	06/20/06	AD	E	17	26	R	-	C	P	3.6	-	SW
	08/09/06	AD	H	17	29	R	-	C	P	<3.0	-	NW
	09/20/06	AD	H	13	29	R	-	C	P	-	94	SW
		11/15/06	AD	E	15	30	R	-	C	P	-	<2.0
WK065.00	03/15/06	AD	H	0	30	R	-	O	A	<3.0	-	NW
	04/12/06	AD	H	4	30	R	-	O	A	<3.0	-	SW
	06/20/06	AD	E	17	26	R	-	C	P	9.1	-	SW
	08/09/06	AD	H	16	30	R	-	C	P	240	-	NW
	09/20/06	AD	H	13	30	R	-	C	P	-	80	SW
		11/15/06	AD	E	16	14	R	-	C	P	-	42
WK066.00	03/15/06	AD	H	0	30	R	-	O	A	9.1	-	NW
	04/12/06	AD	H	5	30	R	-	O	A	<3.0	-	SW
	06/20/06	AD	E	19	25	R	-	C	P	9.1	-	SW
	08/09/06	AD	H	15	30	R	H	C	P	3.6	-	NW
	09/20/06	AD	H	14	31	R	-	C	P	-	24	SW
		11/15/06	AD	LE	16	15	R	-	C	P	-	66
WK067.00	03/15/06	AD	H	0	30	R	-	C	P	<3.0	-	NW
	04/12/06	AD	H	5	28	R	-	C	P	<3.0	-	SW
	06/20/06	AD	LE	19	25	R	-	C	P	9.1	-	SW



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	A1COL	MFCOL	WIND
	08/09/06	AD	H	15	30	R	-	C	P	3.6	-	NW
	09/20/06	AD	HE	14	30	R	-	C	P	-	42	SW
	11/15/06	AD	LE	15	27	R	-	C	P	-	14	SW
WK068.00	03/15/06	AD	HE	0	30	R	-	C	P	240	-	NW
	04/12/06	AD	H	5	30	R	-	C	P	<3.0	-	SW
	06/20/06	AD	LE	20	25	R	-	C	P	1100	-	SW
	08/09/06	AD	HE	16	30	R	-	C	P	23	-	NW
	09/20/06	AD	HE	14	29	R	-	C	P	-	220	SW
	11/15/06	AD	LE	16	15	R	-	C	P	-	156	SW
WK068.10	03/15/06	AD	HE	0	30	R	-	C	P	<3.0	-	NW
	04/12/06	AD	HE	3	30	R	-	C	P	<3.0	-	SW
	06/20/06	AD	LE	18	25	R	W	C	P	93	-	SW
	08/09/06	AD	HE	14	30	R	-	C	P	<3.0	-	NW
	09/20/06	AD	HE	13	30	R	-	C	P	-	13	SW
	11/15/06	AD	LE	16	26	R	-	C	P	-	24	SW
WK071.00	03/15/06	AD	HE	0	31	R	-	C	P	<3.0	-	NW
	04/12/06	AD	HE	6	28	R	-	C	P	<3.0	-	SW
	06/20/06	AD	LE	18	25	R	-	C	P	12	-	SW
	08/09/06	AD	HE	16	29	R	-	C	P	43	-	NW
	09/20/06	AD	HE	13	30	R	-	C	P	-	7.3	SW
	11/15/06	AD	LE	16	30	R	-	C	P	-	2	SW