



GROWING AREA WG

Towns of Biddeford, Saco, Old Orchard Beach and Scarborough

TRIENNIAL REVIEW for 2007

Final Report Date: 9/26/08

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APPROVAL

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Table of Contents

Executive Summary 5
Current Classification(s)..... 5
Activity during Review Period (2005-2007) 6
Current Management Plan(s)..... 8
Current Annual Review of Management Plan(s)..... 8
Water Quality Review and Discussion 8
Documentation of Pollution Sources 16
Shoreline Survey Activity 29
Aquaculture/Wet Storage Activity 29
Classification Changes Required 29
Summary 29
Appendix A. Annual Review of Management Plan-Biddeford Pool/Hills Beach..... 31
Appendix B. Key to water quality table headers 33
Appendix C. Transitioning to Membrane Filtration for Seawater and Pollution Source Samples 34
Appendix D. Water Quality Data Collected in 2007 35
Appendix E. Recommendation for Classification Change Saco Bay – Area No. 10 41
Appendix E. Recommendation for Classification Change Saco Bay – Area No. 12 43

List of Tables

Table 1. Geomean and P90-Year Round Data Analysis for Stations in Growing Area WG 9
Table 2. Biddeford Pool/Hills Beach Conditional Area Geomean and P90-Open Status 10
Table 3. Sample Counts for Stations in Growing Area WG in 2007 10
Table 4. Water Quality Scores before and after the reduction of Deer Population on Bayley Farm, Station WG 32.0, 2003-2007 15
Table 5. Fecal Coliforms at WG 32 Sorted by Rain Prior to Sample Collection 16
Table 6. Scarborough River Stream Samples from 2007 23
Table 7. Biddeford and Old Orchard Beach Stream Samples Collected on 11/28/07 25
Table 8 Licensed Residential Overboard Discharges in Growing Area WG 28

List of Figures

Figure 1. Growing Area WG with Active Stations 4
Figure 2. P90 Trends Approved Stations 12
Figure 3. P90 Trends Restricted Stations 12
Figure 4. P90 Trends Conditionally Approved Stations 13
Figure 5 Docs Creek and Bayley Hill Deer and Elk Farm 14
Figure 6. Required Dilution Zone for Biddeford Pool WWTP 17
Figure 7. Saco River and Biddeford and Saco WWTP Flows 18
Figure 8. Biddeford, Saco and OOB WWTPs Required Dilution Zone 20
Figure 9 Growing Area WG Marinas 22
Figure 10. Scarborough Stream Samples 26
Figure 11. Biddeford and Old Orchard Beach Stream Sample Sites 27



Figure 1. Growing Area WG with Active Stations

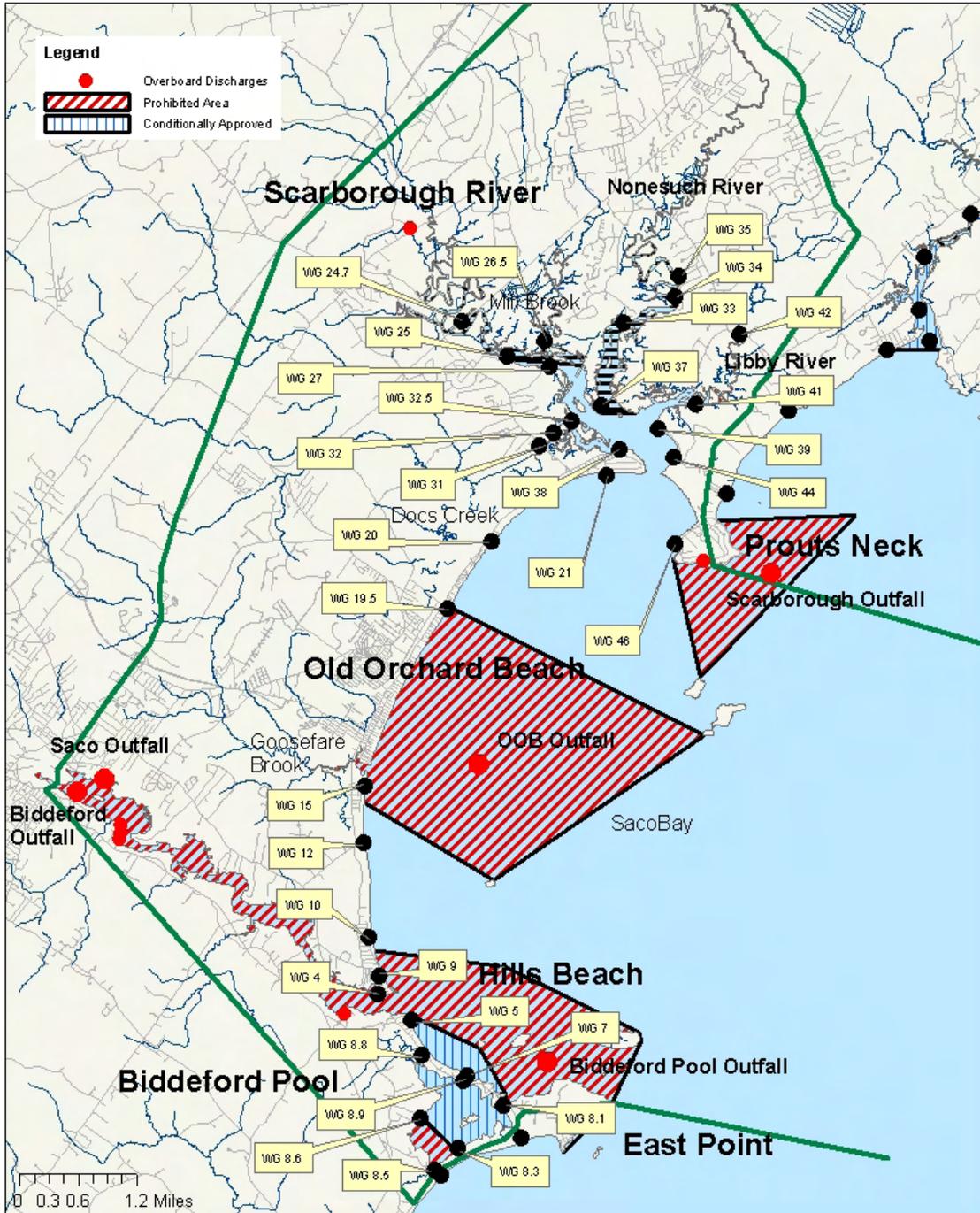


Maine Department of Marine Resources

Growing Area WG



2/20/08





Executive Summary

This is a triennial report for growing area WG, written in compliance with the 2005 NSSP Model Ordinance.

Growing Area WG is the area between East Point, Biddeford and Prouts Neck, Scarborough (Figure 1). A complete boundary description for this area can be found in the central files. This area includes Biddeford Pool, which is a circular embayment that drains out at low tide, and a number of expansive beaches, including Hills Beach in Biddeford, Ferry Beach in Saco, Old Orchard Beach in the town of Old Orchard, Grand Beach and Western Beach in Scarborough. The area also includes the Scarborough River and its tributaries, Nonesuch River, Mill Brook, Cascade Brook and Libby River. The beaches are very popular with tourists and there is a significant increase in seasonal habitation and shore use during the summer months. The Scarborough River is a tidal marsh estuary with numerous grassy islands and spits, narrow and winding channels, attracting various waterfowl and deer. It is the largest salt marsh in the state, comprising tidal marsh, salt creeks, freshwater marsh and uplands.

The major sources of pollution include the Biddeford Pool Waste Water Treatment Plant (WWTP), Biddeford Waste Water Treatment Plant, Saco Waste Water Treatment Plant, Old Orchard Beach Waste Water Treatment Plant, and the Old Orchard Beach storm water outfall. Other sources of pollution include boat moorings in Biddeford Pool and in the Scarborough River (monitored by station WG 38), non-point pollution in the tributaries of the Scarborough River, and a few remaining residential overboard discharges (OBDs).

In February 2007, the north side of Biddeford Pool was reopened after the replacement of a failing septic system. Two new stations were established on the boundary line in the middle of the Pool, WG 8.3 and 8.6. No other stations were created in 2007 and no stations were deactivated. In April 2007, Mill Brook and Nonesuch River were reclassified from prohibited to restricted since these areas meet restricted standards. In July 2007, Jones Creek, also known as Doc's Creek, was reclassified from prohibited to restricted, because water quality met restricted standards. Also in July, the Hills Beach conditional area was expanded and the open season extended to become part of the Biddeford Pool seasonal conditional area. In November 2007, the St. Andre Health Care facility on the Saco River replaced their overboard discharge with a subsurface septic system. No other discharges were removed in 2007.

For this review, dilution calculations for the four major WWTPs were performed using the approved formula to determine if the current prohibited areas were adequate to protect public health. As a result of this review, two prohibited areas must be enlarged. The legal notice to implement this required change was completed on February 13, 2009.

The next sanitary survey for area WG is due in 2010.

Current Classification(s)

Shellfish growing area WG currently has areas classified as:

Approved (14 Stations)



Ferry Beach (WG 10 & 12)
Pine Point (WG 19.5 20 & 21)
Scarborough River (WG 25, 27, 32.5, 37, 38, 39, 41 & 44)
Western Beach (WG 46)

Conditionally Approved (Seasonal Variation in Water Quality) (7 stations)

Biddeford Pool (WG 8.1, 8.3, 8.6, 8.8, & 8.9)
Hills Beach (WG 5 & 7)

Restricted (Non-point Pollution) (8 Stations)

Scarborough River (WG 24.7, 26.5, 31, 32, 33, 34, 35 & 42)

Prohibited (5 Stations)

Biddeford Pool (WG 8.5) (Failing septic system replaced)
Saco River (WG 4 & 9) (Waste Water Treatment Plant Discharges)
Old Orchard Beach (WG 15) (Waste Water Treatment Plant Discharge)
Libby River (WG 42) (High Levels of Non-point Pollution)

Please visit the DMR website to view Legal Notices:

MDMR Regulation 95.10 S, Closed Area No. 10, Saco River and Saco Bay (Biddeford, Saco, Old Orchard Beach)

MDMR Regulation 95.03 A, Closed Area No. 11, Scarborough River

MDMR Regulation 95.03 H, Closed Area No. 12, Spurwink River, Prouts Neck, Cape Elizabeth (Saco, Scarborough, Cape Elizabeth).

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

Activity during Review Period (2005-2007)

2005

May 18, 2005; Area No. 10, Saco Bay, Saco, Old Orchard Beach and Scarborough is amended to close the conditional area at Old Orchard Beach due to non-point pollution.

May 13, 2005; Area No. 11, Scarborough River- This amendment is an administrative correction of the May 12, 2005 regulation to include the Mill Brook closure.

May 12, 2005; Area No. 11, Scarborough River – This amendment enlarges the closure of the upper Scarborough River due to non-point pollution.

July 28, 2005; Area No. 12, Prouts Neck, Scarborough – This amendment enlarges the closure at Prouts Neck.



2006

November 14, 2006; Area No.12, Prouts Neck, Scarborough- This new rule administratively combines the areas previously described in Closed Areas No. 12 and 13 and places them in this legal notice.

October 20, 2006; The Commissioner of the Maine Department of Marine Resources repeals the emergency DMR Regulations 95.10 I, Closed Area No. 9, Saco River, Biddeford and Saco, promulgated on April 20, 2006; and 95.10 T, Closed Area No. 10, Saco Bay, Saco, Old Orchard Beach and Scarborough, promulgated on May 18, 2005; and replaces them with a new regulation. This new regulation reclassifies the area The Pool in Biddeford as prohibited due to the presence of two failing septic systems, and administratively combines the areas previously described in Closed Area No. 10 and part of Closed Area No. 8-B and places them in this notice.

October 19, 2006; Area No. 11, Scarborough River- This new regulation closes the Nonesuch River down to Plummer Island because of a sewer force main break. Shellfish and water samples will be collected to determine whether or not the area can be opened 21 days after the break is repaired and sewage is no longer going into the river.

April 20, 2006; The Commissioner of the Maine Department of Marine Resources repeals the emergency DMR Regulation 95.10 I, Closed Area No. 9, Saco River, Biddeford and Saco, promulgated on July 15, 2004, and replaces it with a new rule. This new regulation opens the southeast corner of Biddeford Pool and shortens the open season to November 1 through April 30. It also closes Basket Island due to a possible straight pipe.

On October 24, 2006 the Nonesuch River was reclassified down to the main body of the Scarborough River due to a sewage force main break and water quality no longer meeting approved standards further down the Nonesuch River.

November 14, 2006; Area No. 10, Saco River and Saco Bay (Biddeford, Saco, Old Orchard Beach) – This amendment reclassifies the Hills Beach area from “Restricted” to “Conditionally Approved” with an open season of November 1 through May 31.

2007

In February 28 2007, the north side of Biddeford Pool (stations WG 8.8 and 8.9) was reclassified as “Conditionally Approved” and is in the closed status from June 1 through September 30. The rule amendment also moved the prohibited line at the mouth of Biddeford Pool so that the area from Fort Point to the west end of Lester B. Orcutt Blvd. is classified as “Conditionally Approved” which is in the closed status from June 1 through September 30. This amendment was due to the replacement of a malfunctioning septic system. The south side of the Pool will remain prohibited pending improved water quality after the replacement of a malfunctioning septic systems west of station WG 8.5. Two new stations were established on the boundary line in the middle of the Pool, WG 8.3 and 8.6.

March 6, 2007; Area No. 10, Saco River and Saco Bay (Biddeford, Saco, Old Orchard Beach) – This amendment is an administrative change to clarify that the status of the southern end of Biddeford Pool is “Prohibited”.



On April 23, 2007, Mill Brook and the upper Scarborough River and an expanded portion of the Libby River were reclassified from approved to restricted due to an increase in non-point pollution. The prohibited areas in the Nonesuch River were reclassified from prohibited to restricted since there were no known point sources of pollution and water quality met restricted standards

July 20, 2007; Area No. 10, Saco River and Saco Bay (Biddeford, Saco, Old Orchard Beach)- This amendment changes the Hills Beach closed season to June 1 through September 30, instead of October 31.

On July 20, 2007 – Jones Creek, also known as Doc's Creek, was reclassified from prohibited to restricted since there were no known point sources of pollution and water quality met restricted standards. The Hills Beach seasonal closure date was changed from October 31 to September 30 and became part of the Biddeford Pool conditional area.

In November 2007, the St. Andre Health Care facility on the Saco River replaced their overboard discharge with a subsurface septic system.

Current Management Plan(s)

There is a management plan for the Biddeford Pool/Hills Beach Seasonal Area. Biddeford Pool/Hills Beach seasonal conditionally approved area is closed to harvesting June 1 through September 30 per the management plan. A copy of the management plan can be found in the central files. The management plan was reviewed on March 12, 2007 and the plan was updated on March 9, 2007.

Current Annual Review of Management Plan(s)

Per the management plan, a review of the Biddeford Pool/Hills Beach seasonal data was completed in September 2007 to confirm that all conditional stations continued to meet the appropriate standard as defined in the DMR Shellfish Area Growing Area Classification SOP. All stations met the appropriate standard and the area reopened as defined. The complete annual review can be found in Appendix A.

Water Quality Review and Discussion

Table 1 lists all active stations classified as approved, restricted and prohibited, with their respective Geomean and P90 calculations for 2007. Please refer to Appendix B 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. This fluctuating standard will cease when all 30 data points have been analyzed by the MF method. A more detailed explanation of this transition can be found in Appendix C.



In 2007, all approved and restricted stations met their NSSP classification standards; station WG 32 (highlighted in yellow) is classified as restricted, but currently meets the approved standard. Several of the prohibited stations met either the approved or restricted standard, but will retain their prohibited classification due to their proximity to OBDs or waste water treatment plant outfalls. Station WG 19.5 (highlighted in blue) was established as the boundary station between the Old Orchard Beach WWTP prohibited area and the neighboring approved area in 2005. At the end of 2006 with only 10 data points the station was not meeting approved standards. Due to the small data set it was decided to monitor this station closely to determine the continued trend as additional data points are added to the dataset. By the end of 2007, with 6 additional data points, this station was meeting the approved standard. Since it is still short of the required 30 data points, this station will continue to be monitored closely to determine if there are water quality issues.

Table 1. Geomean and P90-Year Round Data Analysis for Stations in Growing Area WG

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WG004.00	P	30	8	15.4	0.59	240	86.8	43	255
WG008.30	New	9	9	2.8	0.34	18	7.9		
WG008.50	P	30	12	7.4	0.67	240	52.5	41	235
WG008.60	New	9	9	6.5	0.50	49	29.8		
WG009.00	P	30	8	5.1	0.45	93	19.1	43	255
WG010.00	A	30	8	4.7	0.36	23	13.4	43	255
WG012.00	A	30	8	4.1	0.46	93	16.2	43	255
WG015.00	P	30	8	5.0	0.41	93	16.5	43	255
WG019.50	New	16	8	5.2	0.63	460	33.9	39	221
WG020.00	A	30	8	5.6	0.50	240	24.6	43	255
WG021.00	A	30	8	6.3	0.55	240	32.1	43	255
WG024.70	New	11	8	7.0	0.47	46	28.6		
WG025.00	A	30	9	6.8	0.45	90	25.7	43	250
WG026.50	New	13	12	6.7	0.57	82	37.5		
WG027.00	A	30	9	4.9	0.44	56	17.9	43	250
WG031.00	R	30	10	17.5	0.60	240	101.1	42	245
WG032.00	R	30	12	7.4	0.55	150	36.8	41	235
WG032.50	New	14	12	2.9	0.30	24	7.1		
WG033.00	R	30	11	9.7	0.65	460	64.8	41	240
WG034.00	R	30	10	13.5	0.66	460	95.3	42	245
WG035.00	New	21	11	16.9	0.62	180	105.7		
WG037.00	New	12	6	3.5	0.47	93	14.3		
WG038.00	A	30	11	5.9	0.57	600	31.2	41	240
WG039.00	A	30	9	5.0	0.46	240	19.1	43	250
WG041.00	A	30	13	3.9	0.28	20	8.9	40	230
WG042.00	New	19	7	46.0	0.80	1400	495.1		
WG044.00	A	30	9	5.0	0.62	620	31.2	43	250
WG046.00	A	30	9	4.4	0.49	240	18.9	43	250

Table 2 lists all conditionally approved stations in area WG, with their respective Geomean and P90 calculations, during open status. Biddeford Pool/Hills Beach conditionally approved area is



open from October 1 through May 31; in 2007 all conditionally approved stations met the approved classification in the open status.

Table 2. Biddeford Pool/Hills Beach Conditional Area Geomean and P90-Open Status

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WG005.00	CA	30	8	7.6	0.52	240	34.8	43	255
WG007.00	CA	30	8	6.7	0.53	240	32.3	43	255
WG008.10	CA	30	8	6.2	0.53	460	29.3	43	255
WG008.30	New	6	6	3.4	0.41	18	11.5		
WG008.60	New	6	6	3.9	0.41	18	13.4		
WG008.80	CA	30	8	5.7	0.51	460	25.8	43	255
WG008.90	CA	30	8	5.8	0.54	240	28.1	43	255

Table 3 displays the total number of samples collected in 2007 in growing area WG under the different sampling strategies and statuses. All approved stations were collected six times following a systematic random sample (SRS) schedule. The conditional stations were collected both during open and closed status periods using the SRS schedule. Numerous areas changed classification in 2007; areas that went from prohibited to restricted April 23, 2007 (WG 24.7, 31, 32, 33, 34, and 35) were not sampled six times in the open status. However, at every station the data from all classification and statuses was used to justify the reclassification and the areas met the appropriate standard for the each upward classification change. Appendix D shows SRS data collected in 2007 for all active stations in growing area WG.

Table 3. Sample Counts for Stations in Growing Area WG in 2007

Station	Class	Adverse		Random		Total Samples	Comments
		Closed	Open	Closed	Open		
WG004.00	P			6		6	
WG005.00	CA			4	7	11	
WG007.00	CA			4	7	11	
WG008.10	P	6		4	6	17	Flood Station; Reclassified from P to CA 2/28/07
	CA			1			
WG008.30	CA			4	6	10	
WG008.50	P			11		11	
WG008.60	CA			4	6	10	
WG008.80	CA			4	6	11	Reclassified from P to CA 2/28/07
	P			1			
WG008.90	CA			4	6	11	Reclassified from P to CA 2/28/07
	P			1			
WG009.00	P			6		6	
WG010.00	A				6	6	
WG012.00	A	7			6	13	Flood Station
WG015.00	P			6		6	
WG019.50	A				6	6	
WG020.00	A				6	6	
WG021.00	A				6	6	
WG024.70	P			1		9	Reclassified from P to R 4/23/07;



Station	Class	Adverse		Random		Total Samples	Comments
		Closed	Open	Closed	Open		
	R		3		5		Adverse samples collected at time of stream sampling
WG025.00	A				6	6	
WG026.50	A				3	6	Reclassified from A to R 4/23/07
	R				3		
WG027.00	A	7			6	13	Flood Station
WG031.00	P	1		4		9	Reclassified from P to R 4/23/07; Adverse samples collected at time of stream sampling
	R		2		2		
WG032.00	P			4		6	Reclassified from P to R 4/23/07
	R				2		
WG032.50	A				6	6	
WG033.00	P			2		15	Flood Station; Reclassified from P to R 4/23/07; Adverse samples collected at time of stream sampling
	R	5	4		4		
WG034.00	P			2		10	Reclassified from P to R 4/23/07; Adverse samples collected at time of stream sampling
	R		4		4		
WG035.00	P			2		10	Reclassified from P to R 4/23/07; Adverse samples collected at time of stream sampling
	R		4		4		
WG037.00	R				6	6	
WG038.00	A				6	6	
WG039.00	A				6	6	
WG041.00	A				7	7	
WG042.00	P	3		4		7	Adverse samples collected at time of stream sampling
WG044.00	A				6	6	
WG046.00	A				6	6	

Figure 2, 3 and 4 display the P90 trends over the last five years expressed as a percentage of the approved standard. During the transition from MPN to MF data points, each year the approved standard will be lower than the previous 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 P90s are expressed as a percentage of the approved standard. Stations that show the 2007 column at or above the 100 percent line no longer meet approved standards. Figure 2 presents all current approved stations. For these stations, the trends show an improvement in water quality (decreasing P90's) or no change in the scores over the past five years. Only station WG 19.5 is within 80% of the approved standard; all other stations are less than 80% of the approved standard. WG 19.5 is a new station with less than 30 data points and did show a reduction between 2006 and 2007 with additional data points. Figure 3 shows the trends from all WG restricted stations. All of these stations are located in the upper Scarborough River and its tributaries, an area with generally poor water quality. Stations WG 24.7 and 26.5 are new stations and do not have enough data points under all hydrological and meteorological conditions for a valid assessment. Station WG 37 is at the boundary of the approved and restricted area in Nonesuch and Scarborough Rivers; it meets the approved standard and must



continue to meet approved standards to remain the boundary line. Figure 4 shows the trends from the conditionally approved stations in Biddeford Pool and Hills Beach when the areas are in the open status. All stations have remained relatively stable over the past five years. Since that time the area has been surveyed and a malfunctioning septic system has been removed. Recent testing of the stream near WG 8.5 indicates poor water quality and further assessment of the area is needed.

Figure 2. P90 Trends Approved Stations

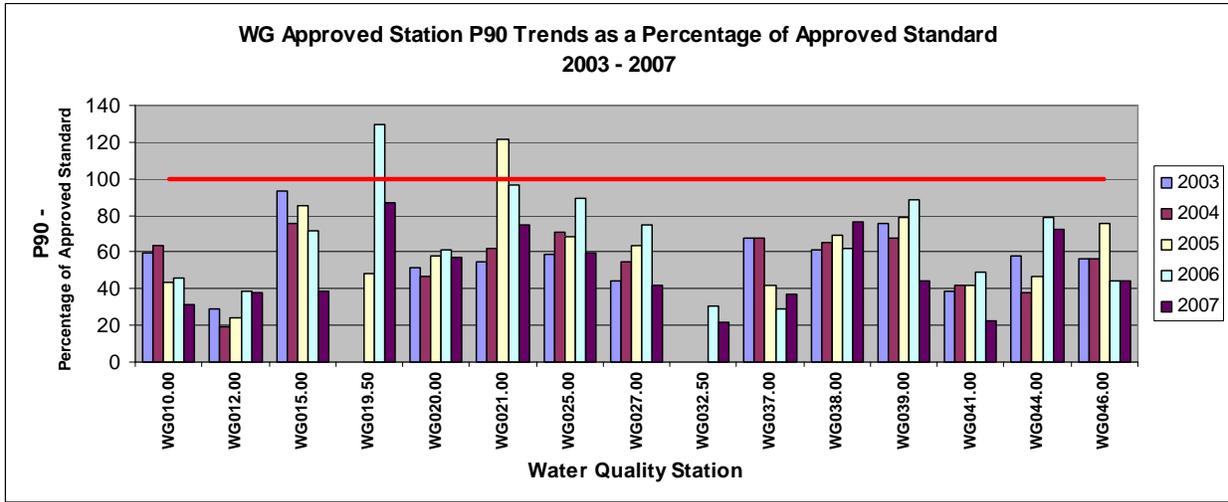


Figure 3. P90 Trends Restricted Stations

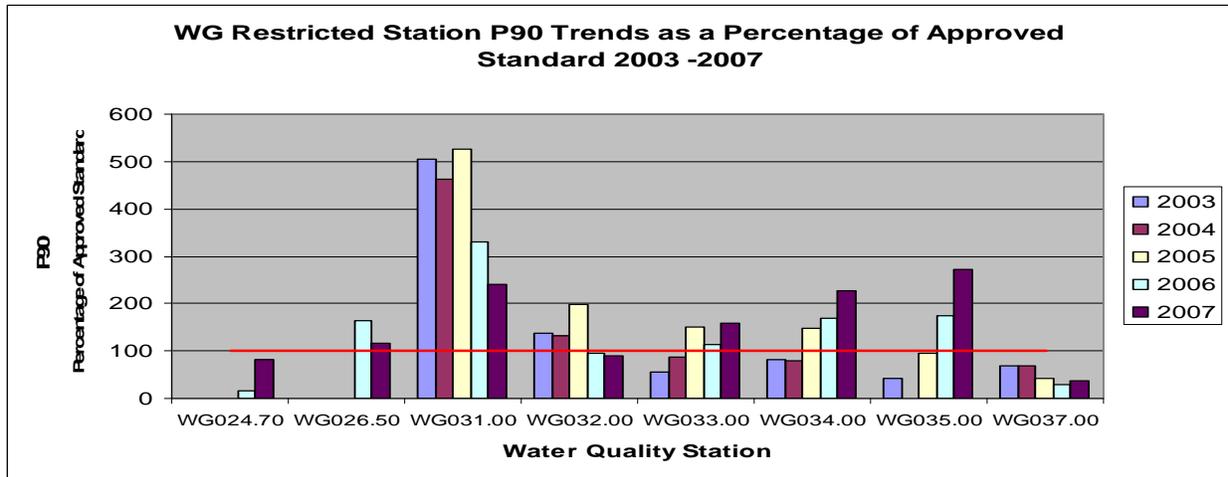
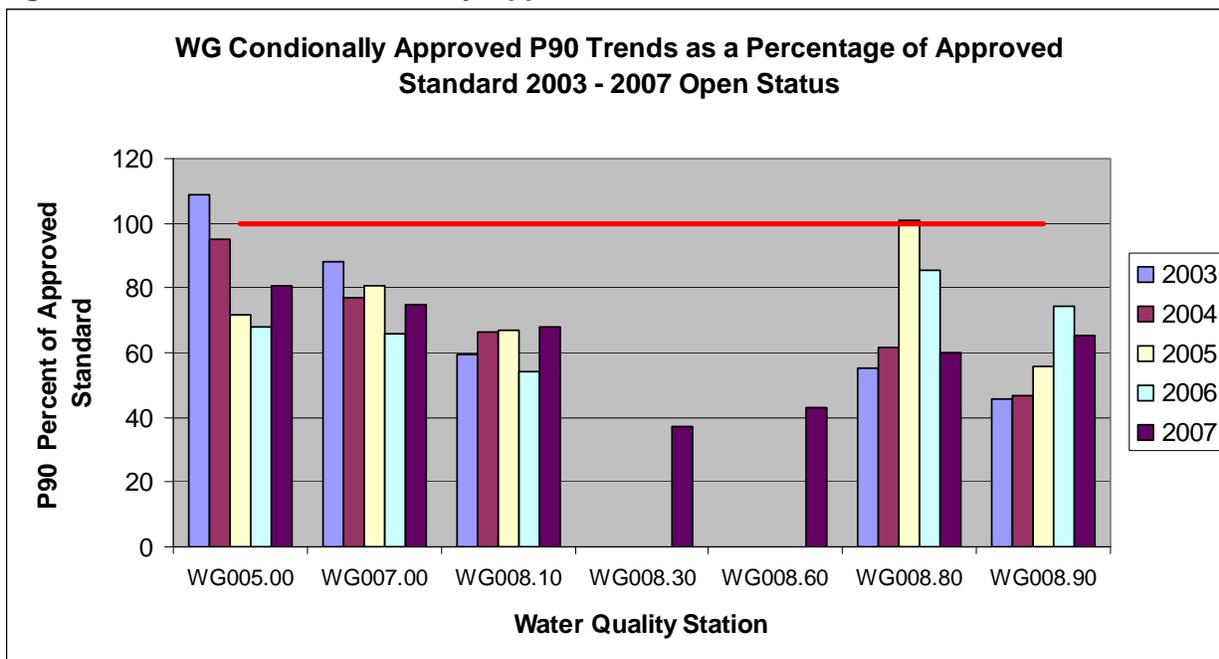


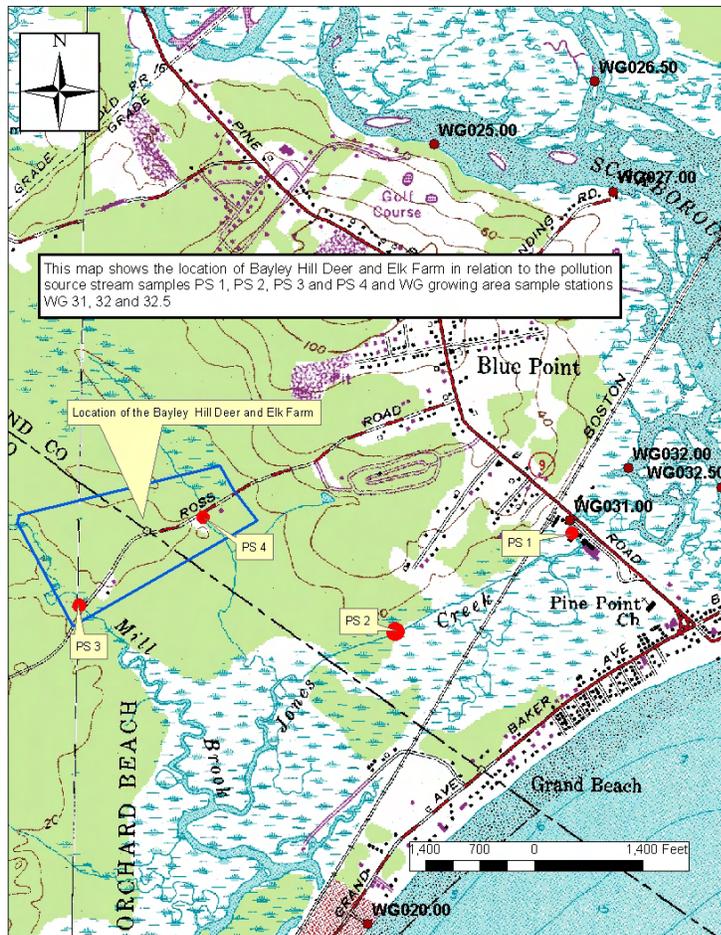


Figure 4. P90 Trends Conditionally Approved Stations



Docs Creek

Figure 5 Docs Creek and Bayley Hill Deer and Elk Farm



Station WG 32, located on Docs Creek in Scarborough, is currently classified as restricted. At the end of 2007, the station was meeting the approved standard, however with the completion of sampling for 2008 and a more recent review of P90 scores; the area no longer met the approved standard. At the end of 2008 WG 32 geomean was 8.3 and the P90 was 40; the approved standard is 37. A sanitary survey identified the presence of the Bayley Hill Deer and Elk Farm on Ross Road with drainage to tributaries to Docs Creek. The location of the farm, pollution source sampling of Docs Creek and tributaries and sample sites WG 31, 32 and 32.5 can be found in Figure 5. After the survey it was determined that the agricultural practices at the farm might be contributing to the poor water quality at station WG 32. Prior to spring of 2006, the farm had 400-500 elk enclosed in pens on the property. Between 2006 and spring of 2007, the herd was reduced to approximately 40 elk, and the feed lot

pens were seeded with rye. In August 2008, the town of Scarborough confirmed that the farm was no longer in operation. In reviewing the 30 most recent water quality scores, collected between 2004-2007 (SRS and extra samples), five out of the six elevated scores occurred prior to the herd reduction (Table 4); only one elevated score occurred during the period when the herd was undergoing the reduction. Since the herd was reduced, water quality scores have been low, with the greatest score of 20 CFU/100ml occurring in October 2008. However, the water quality at WG 31, upstream of WG 32, continues to exceed approved standards both for geomean and the P90 (geomean 17.5 and P90 101.1). Stream testing of Docs Creek in July 2007 indicated elevated levels of fecal coliforms in the creek (see section on Streams and Table 6). Two stream sample stations collected on Ross Rd near the Bayley farm continue to show significant fecal coliforms levels. Additionally, there are only a total 20 data points and limited data after rainfall (Table 5) since the elk and deer herds were removed. It is recommended that this area remain classified restricted until there are 30 data points post herd reduction to evaluate and a full shoreline survey and evaluation of the creek and streams is completed.



Table 4. Water Quality Scores before and after the reduction of Deer Population on Bayley Farm, Station WG 32.0, 2003-2007

Date	Tide	Temp	Sal	ADV	A1COL	MFCOL	WIND
7/10/2003	E	20	31		3.6	-	-
8/7/2003	HE	16	31		3.6	-	-
10/9/2003	F	9	32		<3.0	-	-
11/19/2003	HE	5	18		3.6	-	-
04/29/04	E	10	5	-	23	-	-
05/20/04	F	-	30	-	<3.0	-	-
06/17/04	HF	16	30	-	<3.0	-	-
07/14/04	HE	20	27	P	43	-	-
08/26/04	HE	2	30	-	7.3	-	-
09/02/04	LF	20	10	-	43	-	-
04/27/05	L	8	8	P	23	-	SE
06/21/05	F	17	3	-	150	-	E
07/06/05	F	17	21	P	93	-	NW
08/03/05	HF	18	30	-	3.6	-	CL
09/14/05	E	16	30	-	3.6	-	-
11/15/05	HF	6	30	-	43	-	-
02/14/06	HF	0	22	-	3.6	-	SW
During the reduction of the herd and reseeded of the fields							
08/01/06	E	20	25	-	43	-	-
09/26/06	F	14	30	-	-	4	-
10/11/06	F	12	31	-	-	4	N
11/07/06	HF	5	31	W	-	4	-
11/27/06	F	8	28	W	-	<2.0	-
12/11/06	F		28	W	-	<2.0	-
12/26/06	F	3	26	P	-	13	SW
After the deer population was reduced							
02/05/07	HF	-4	32	-	-	<2.0	-
05/03/07	F	10	18	-	-	10	NW
05/30/07	H	15	27	-	-	4	E
07/18/07	F	13	30	P	-	4	CL
09/10/07	E	5	30	W	-	2	-
11/26/07	F	10	32	-	-	6	-
05/05/08	HE	15	18	P	-	8	E
06/03/08	H	17	28	-	-	8	SE
09/16/08	HF	16	32	-	-	10	N
10/14/08	H	11	30	-	-	<2.0	S
10/28/08	HF	9	28	P	-	20	E
11/12/08	E	12	24	-	-	12	-



Table 5. Fecal Coliforms at WG 32 Sorted by Rain Prior to Sample Collection

Rain (inches) within 72 hours of sample collection	Fecal Scores by Year						
	2002	2003	2004	2005	2006	2007	2008
0-0.25	23	3.6	2.9	150	43	2	10
	15	3.6	2.9	93	4		1.9
		2.9	7.3	3.6	4		20
		3.6			1.9		12
					1.9		
0.25-0.5		2.9	43	3.6	3.6	1.9	8
		3.6		43		10	
						4	
0.5-0.75	3.6		43		4	6	8
0.75-1			23				
1-1.25	9.1						
1.25-1.5	23						
						4	
2-2.25					13		
2.25-2.5	460						
3.25-3.5				23			

Hills Beach and Biddeford Pool, Biddeford

Water quality on the south side of Biddeford Pool, monitored by station WG 8.5, has improved with the replacement of the malfunctioning septic system in December 2006. The six SRS samples collected in 2007 lowered the P90 score at this station from 63.5 to 47.5, and this station has been approved for accelerated sampling. While water quality has improved due to a remediation of a point source pollution issue, non-point source pollution from streams that drain into Biddeford Pool has not been assessed. In the future, the three streams on the south of Biddeford Pool should be sampled during wet weather and dry weather, and flow rates should be recorded in order to further assess their impact to the growing area.

Documentation of Pollution Sources

Evaluation of New Pollution Sources

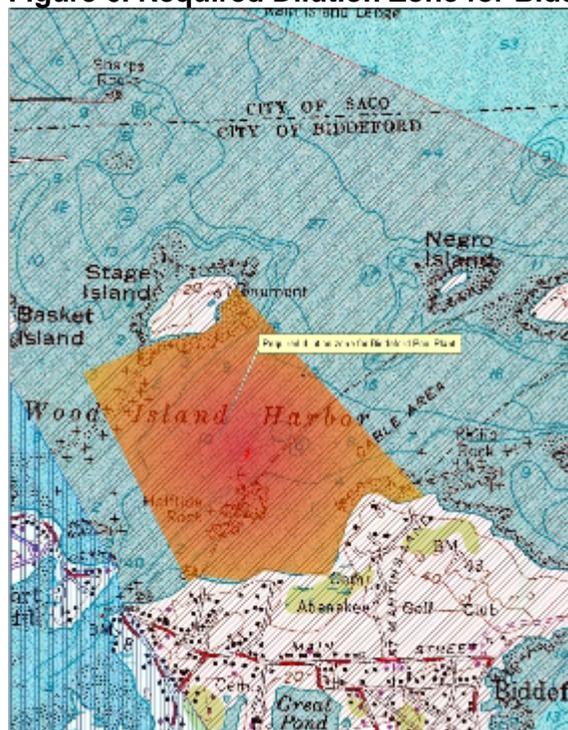
No new pollution sources have been identified during the drive through surveys in area WG. Most of the shoreline in growing area WG has been fully developed for years. Most construction projects were either renovations of existing homes on the shore or new dwellings more than 500 feet from shore.

Re-Evaluation of Existing Pollution Sources

Wastewater Treatment Plants (WWTP)

There are five municipal wastewater treatment plants in area WG; Biddeford WWTP and Saco WWTP on the Saco River, Biddeford Pool WWTP at East Point, Old Orchard Beach WWTP, and the Scarborough WWTP at Prout's Neck. The outfall locations can be found on the map in Figure 1. For this triennial report, all of the major WWTPs were evaluated using the FDA/NSSP approved dilution calculation to determine if the current prohibited areas are adequate.

Figure 6. Required Dilution Zone for Biddeford Pool WWTP



Biddeford Pool, located at the southeastern end of the growing area, has a small local waste water treatment plant with secondary treatment and a separate collection system. The outfall is located 300' offshore in Wood Island Harbor in 3 feet water at low tide. A 1991 FDA/MEDMR Saco River dye study indicated that discharge from the Saco River moves in a southeasterly direction and does not flow back into the direction of the Pool on subsequent tides. It could be expected that the discharge from the Biddeford Pool WWTP outfall would follow this same path. The average daily flow is 2,000 gallons per day (gpd) in the winter and 10,000 to 20,000 gpd in the summer; the plant design capacity is 30,000 gpd. The plant influent is incapable of bypassing flow except through a manhole located in the driveway of the plant approximately 1000 feet from shore; there is no record of this ever occurring. This plant has year round chlorination. There is a large prohibited area encompassing the Saco

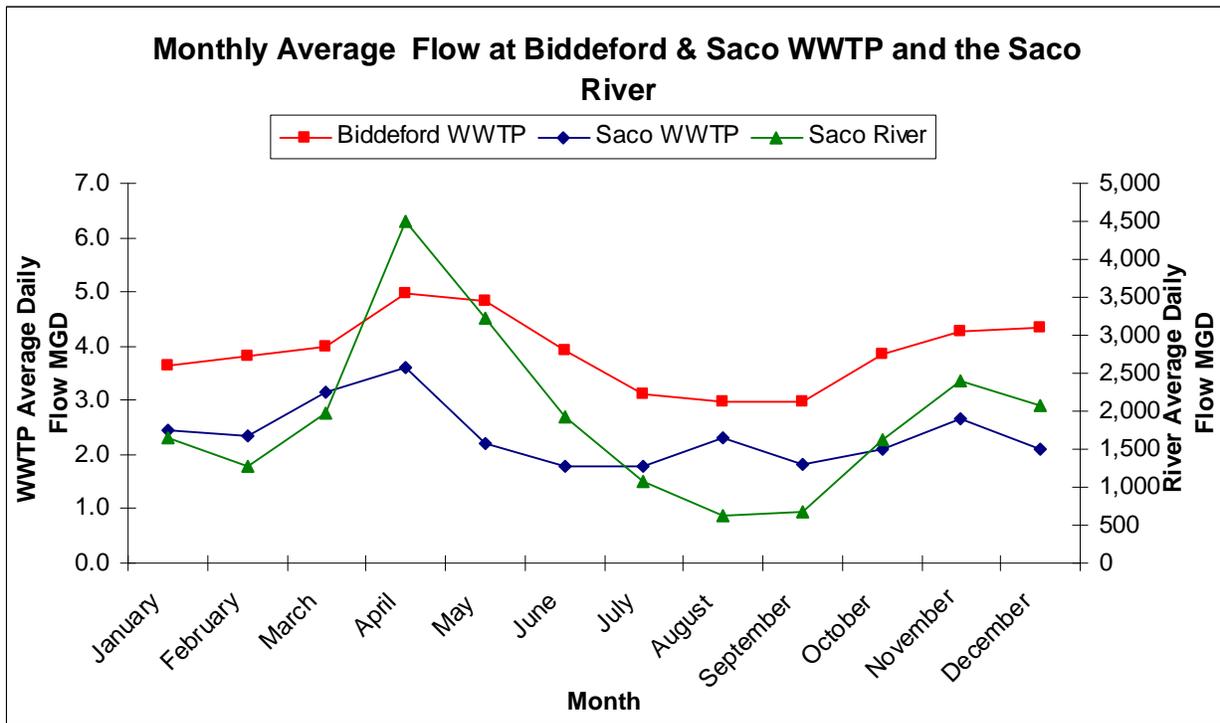
River extending from southeast from the mouth of the river to Basket Island and to Fletcher Point. The wastewater dilution calculation, assuming design flow 30,000 gallons a day with a fecal bacterial load 1.4×10^5 fecal coliforms/100 ml, discharging to 8 feet of water at mid tide indicates that the prohibited area needs to be 115 acres in size; the actual prohibited area is much larger (see Figure 6). This plant was last reviewed on August 12, 2006.

There are two major wastewater treatment plant discharges into the Saco River, the Biddeford WWTP and the Saco WWTP. Both plants discharge into the river approximately 4 miles north of the mouth of the Saco River. The Biddeford Waste Water Treatment Plant has a new design flow of 6.5 million gallons per day (mgd) average. For the three year period between 2005 and 2007, the average flow was 4.1 mgd; the average monthly maximum flow was 7.7 mgd, with 12.3 mgd as the highest flow in the three year period. The outfall is located 166 feet out into the Saco River with 33:1 acute dilution. The plant disinfects year round. Biddeford WWTP has a combined sewer system with 11 combined sewer overflow (CSO) outfalls. Over the three year period from 2005 to 2007 Biddeford has averaged a yearly discharge of 205 million gallons covering an average 85 discharge events per year. The Saco Sewage Treatment Plant has a design flow which has increased from 3.3 to 4.2 mgd, with an average daily flow of 2.2 mgd and



peak wet weather flows of 8.4 mgd. Flows in excess of 8 mgd are automatically diverted to the CSO swirl concentrator for primary treatment and disinfection. The Saco WWTP disinfects year round. There is a river flow gauge located in Cornish, Maine and the latest ten year period indicates that the average flow was 2,972 mgd. Both of these plants have combined sewers and are impacted by meteorological and hydrological events such as rain and snow melt. The river is also impacted by these events and shows the highest flows during the spring with spring snow and ice melt and rain. Figure 7 compares the monthly average flows for both WWTPs and the river, and shows similar flow patterns. Based on a complete mix calculation, using the design flow for both plants (10.7 mgd) the average river flow would provide a dilution of 278:1. A 10,000:1 dilution is needed to provide adequate public health protection. Currently, both of these plants discharge to a 2,000 acre prohibited area. The shore beyond the prohibited area is currently classified approved or conditionally approved based on season. The FDA approved dilution calculation was used to determine the amount of area needed for the combined discharge from Biddeford and Saco WWTPs at their design capacity assuming a bacterial load of 1.4×10^5 fecal coliforms. This calculation indicates that 10,591 acres (14,302,900,682 cu ft.) is needed to provide adequate dilution. The current prohibited area will have to be substantially increased to provide the needed protection. The Saco plant was last reviewed July 17, 2008 and the Biddeford plant was last reviewed on December 22, 2004. Figure 8 displays the increased area needed for the Biddeford and Saco WWTPs.

Figure 7. Saco River and Biddeford and Saco WWTP Flows



Old Orchard Waste Water Treatment Plant (WWTP) has an average daily flow of 1.5 mgd and a design capacity of 3.5 mgd. Wet weather flows are reported as between 3.5 to 4 mgd. Effluent from the Old Orchard Beach outfall is discharged 3,100 ft off shore of Goosefare Brook in 20 feet of water at low tide. Year round chlorination of the effluent is controlled automatically. The plant has the capacity to bypass and discharge primary treated effluent; however the treatment plant reports that this has not been done for many years. The shore beyond the prohibited



area is currently classified approved. The wastewater treatment dilution calculation using 3.5 mgd flow (design flow and actual wet weather flow) with a fecal load of 1.4×10^5 colonies/100 ml discharging into 25 feet of water at mid tide requires 4,300 acres. The current prohibited area around the outfall is 3,000 acres. The closure area will need to be increased to provide adequate protection for public health. Figure 8 displays the increased area needed for the Old Orchard WWTP.



Marinas

Marinas within growing area WG can be found on Figure 9.

Biddeford Pool Yacht Club (BYPC) is a small, 100 family, private club in Biddeford Pool. Fishing boats and small recreational boats are moored by the Biddeford Pool Yacht Club at Station WG 8.1. The Pool drains out at low tide leaving only a small and shallow mooring area, and the fleet consists of day boats with no heads.

Marston's Marina is 2 miles up the Saco River from Saco Bay. It is a 120 slip and 10 mooring marina which offers gas, oil, restrooms and other amenities. They are recognized by the Maine Marine Trade Association and earned their 'Clean Marina Certification' in 2007.

Rumery's Boatyard is located 4 miles up the Saco River from Saco Bay. They are a boatbuilding facility that also provides launching, hauling and storage. They have limited mooring facilities and marina amenities.

Norwood's Marina is located next to the City of Saco Dock at the mouth of the Saco River. They are not a full service marina but provide fresh water, shore power, restrooms and a pump out station to their customers.

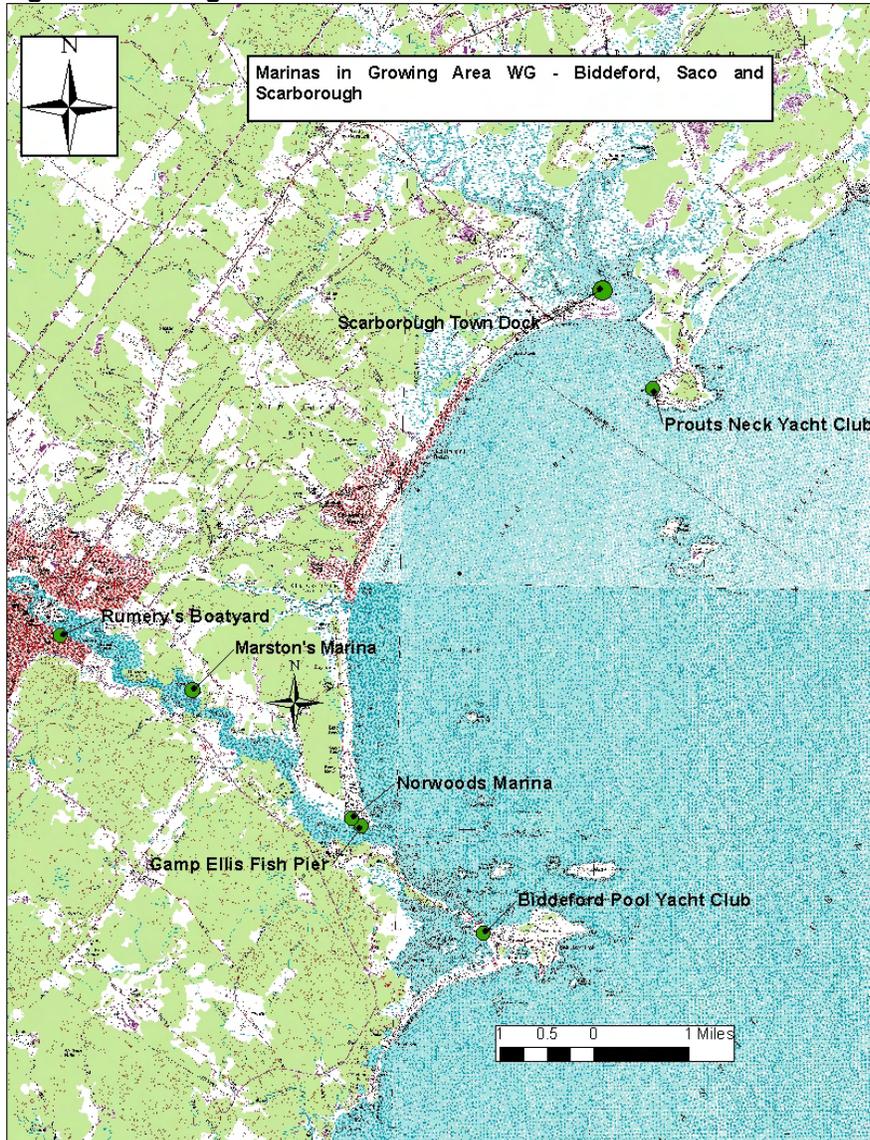
City of Saco has the Camp Ellis Fish Pier at the mouth of the Saco River which provides gas, diesel, mooring and slip space. There is a parking lot, boat ramp, pier, and floats. All facilities are open to the public. The parking lot opens on Memorial Day weekend and is a weekend only operation until the middle of June. At that time the lot goes to daily operation and is open 8 a.m. - 8 p.m., 7 days per week. The boat ramp is available for launching vessels. The dock is primarily reserved for and used by the commercial fishermen and lobstermen. There is an active fishing community at Camp Ellis and the pier is heavily used. The floats are utilized by a number of different entities. This includes the commercial fishermen who keep their punts and skiffs tied to the floats when not in use. Charter boats and the whale watch pick up and drop off customers from the floats. The floats are also available for boaters visiting the area and wanting to tie up for a few hours or overnight. In the fall of 2007, two new hydraulic hoists were installed at the pier. These hoists feature a quicker and smoother operation and are capable of hydraulic swing in and out as well as up and down functions. The city recently accepted proposals for the design and installation of a pile system at the Camp Ellis Boat Ramp. These will be used to secure and support beached boats in an upright position for maintenance and repair activities. Local fishermen and boaters have to rely on a boat yard or actually beaching their boats in the sand anytime work was required below the waterline. This will provide a low tech but effective means of accessing the hull, propeller, keel, or other components. The start date for this project has not been determined at this time, it is expected that it will occur by late summer or early fall (2008). These boats are moored inside a large prohibited area that extends out into Saco Bay.

In the Scarborough River, there is a town dock near station WG 38. According to an interview with the town Harbor Master, there are approximately 65 moorings for mostly working fishing boats and center console recreational power craft; only four of the boats on moorings have heads. Peak use time for this marina is from Memorial Day to Labor Day. A second mooring area is area WG is located at the Prout Neck Yacht Club. This establishment has about 70 to 80 mooring sites. The harbormaster reported that in this mooring area there are approximately four



boats that have heads; the rest of the boats on these moorings are open console recreation power craft.

Figure 9 Growing Area WG Marinas



Storm Water

Starting in 1995, Old Orchard Beach (OOB) began the process of installing a new storm water system to replace old piping that was thought to have some sewage infiltration. The storm water system was completed at the end of 1998 and it discharges storm water run-off into Saco Bay, near the Old Orchard Beach pier. Goosefare Brook has been identified as an impaired watershed for storm water management by the Maine Department of Environmental Protection (MEDEP). Since then, OOB has developed a Stormwater Management Plan, which identifies Goosefare Brook watershed and the Little River/Jones Creek watershed as priority areas for management. Management will consist of public education and involvement, detection and elimination of illicit discharges, stormwater management in new development and re-



development areas and pollution prevention and good housekeeping practices for municipal operations including storm drain and catch basin upkeep. Due to the presence of the OOB WWTP outfall, there is a large prohibited area surrounding this discharge.

Both Biddeford and Saco have combine sewers with combined sewer overflows (CSO). Biddeford has 11 CSOs, 10 discharging directly into the Saco River and 1 into Thatcher Brook. Saco has 5 CSOs, 4 into Saco River and 1 discharge into Bear Brook. In 2007, Biddeford discharged a total of 150,304, 402 gallons in during 70 discharge events, and Saco discharged 1,950,000 gallons during 12 discharge events. Both cities have combined sewer overflow abatement programs. In November 2006, Saco installed an advanced hydrodynamic vortex separator which provides sedimentation, screening and disinfection to CSO water before discharge to the Saco River. Biddeford has significantly reduced its CSO discharge over the past ten years; however the city still accounts for 10% of the total CSO discharge in the state. Due to the Biddeford and Saco WWTPs, as well as other discharges and water quality issues in the Saco River, there is a prohibited area surrounding the mouth of the Saco River. A reevaluation of the WWTP discharges using a FDA approved dilution calculation indicates the present prohibited area is inadequate. This report recommends increasing the size of the prohibited area to encompass a larger portion of Saco Bay.

Scarborough has a storm water collection and drainage system separate from the sanitary sewers. It has miles of pipe and at least 45 storm drain outfalls. There are several thousand catch basins and the town has a truck for cleaning the basins. The basin debris is taken to the landfill. The Town of Scarborough has developed a storm water management plan. It is recommended that the locations of storm drain outfalls are determined and tested for the sanitary survey due in 2010.

Streams

Streams draining into the Scarborough River were sampled on July 10, July 18, August 9 and September 12 of 2007 (Table 6 and Figure 10). There were six days of rain leading up to the July 10th sample collection, with 1.13 inches of rain occurring on July 9th. Three days prior to the July 18th stream sample collections, 1.34 inches of rain was recorded in a 24 hour period. Prior to the August 9th sampling, there were 2.29 inches of rain occurring on August 6th, with an additional 0.57 inches of rain on August 8th. There was 1.65 inches of rain the day before the September 12th sampling. Most of the Scarborough streams showed elevated fecal levels, however, these streams drain into the receiving waters classified as restricted and prohibited. The most recent shoreline survey did not indicate pollution sources from the homes in the area. The non-point pollution may be coming from wildlife, since the Scarborough River is located near extensive marshes and woods. Additional sampling during wet and dry conditions needs to be completed for the next sanitary survey. Flow rates should be assessed at the time of sampling to determine pollution loading.

Table 6. Scarborough River Stream Samples from 2007

Site	Location	7/10/2007 CFU/100ml	7/18/2007 CFU/100ml	8/9/2007 CFU/100ml	9/12/2007 CFU/100ml	Receiving Water & Classification
PS 1	Pelreco	660		90	122	Jones Creek - R
Station 31		290	100	82	84	Jones Creek -



Site	Location	7/10/2007 CFU/100ml	7/18/2007 CFU/100ml	8/9/2007 CFU/100ml	9/12/2007 CFU/100ml	Receiving Water & Classification
						R
PS 2	Bayleys	540	120	90	500	Jones Creek - R
PS 3	Ross Rd	340		132	1120	Jones Creek - R
PS 4	Ross Rd	520		130	> 1600	Jones Creek - R
PS 5	Dunstan	660		42	104	Cascade Brook - R
Station 24.7		280	46	24	36	Scarborough River - R
PS 6	Willowdale	26		180	> 1600	Mill Brook - R
PS 7	Eastern	1180		160	> 1600	Mill Brook - R
PS 8	Sandy Pt	> 1600	154	68	580	Mill Brook - R
PS 9	Tide Mill	1400	124	140	1000	Mill Brook - R
Station 33		35	102	6	70	Nonesuch River - R
Station 34		110	180	24	128	Nonesuch River - R
Station 35		161	140	46	180	Nonesuch River - R
PS 10	Fogg Rd	220		dry	460	Libby River - P
PS 11	Wild Rose	920		740	> 1600	Libby River - P
PS 12	Pintail	680		640	1500	Libby River - P
PS 13	Hackmatack	700		420	440	Libby River - P
PS 14	Hackmatack	1180		280	300	Libby River - P
Station 42		940	134	300	1400	Libby River - P
PS 15	Rt.1 Nonesuch	360			> 1600	Nonesuch River - R
PS 16	Rt. 1 Willowdale				> 1600	Mill Brook - R
PS 17	Sawyer Rd				> 1600	Mill Brook - R
PS 18	Paine Rd				> 1600	Mill Brook - R

Stream samples were collected in Biddeford and Old Orchard Beach on November 27, 2007 (Table 7 and Figure 11). Runoff conditions were high due to 1.1 inches of rainfall occurring 48 hours prior to sample collection (0.68 and 0.43 inches on November 26th and 27th, respectively). The Beach Avenue tidal stream is monitored routinely by the samples collected at station WG 8.5; this area is currently classified as prohibited. The three streams on the south side of the Pool (WGA 123, 125 and 126) drain into the conditionally approved area of Biddeford Pool;



stream WGA 123 yielded high scores on the sample date. To further assess impact on the growing area, this stream should be sampled routinely and flow rates should be documented. The Old Orchard Beach stream sites (PS 5 and 6) are located in the prohibited area surrounding the Old Orchard Beach WWTP outfall.

Table 7. Biddeford and Old Orchard Beach Stream Samples Collected on 11/28/07

Station Name	Location	Conditions/Flow	MF Score CFU/100ml
WGA0070.00	Tidal Stream at Beach Ave into WG 8.5	Incoming Tide	400
WGA0123.00	Woods Stream at Salt Marsh Lane	Estimate 1000 gal/min flow	580
WGA0125.00	Culvert stream near 35 Old Pool Rd	Estimate 1000 gal/min flow	40
WGA0126.00	Culvert on Old Pool Rd by UNE Parking	Estimate 500 gal/min flow	24
PS 5	Culvert Stream at New Salt Rd	Estimate 1000 gal/min flow	90
PS 6	Goosefare Brook at Inactive Sta. WG 14	Tidal water with a dozen ducks	54



Figure 10. Scarborough Stream Samples

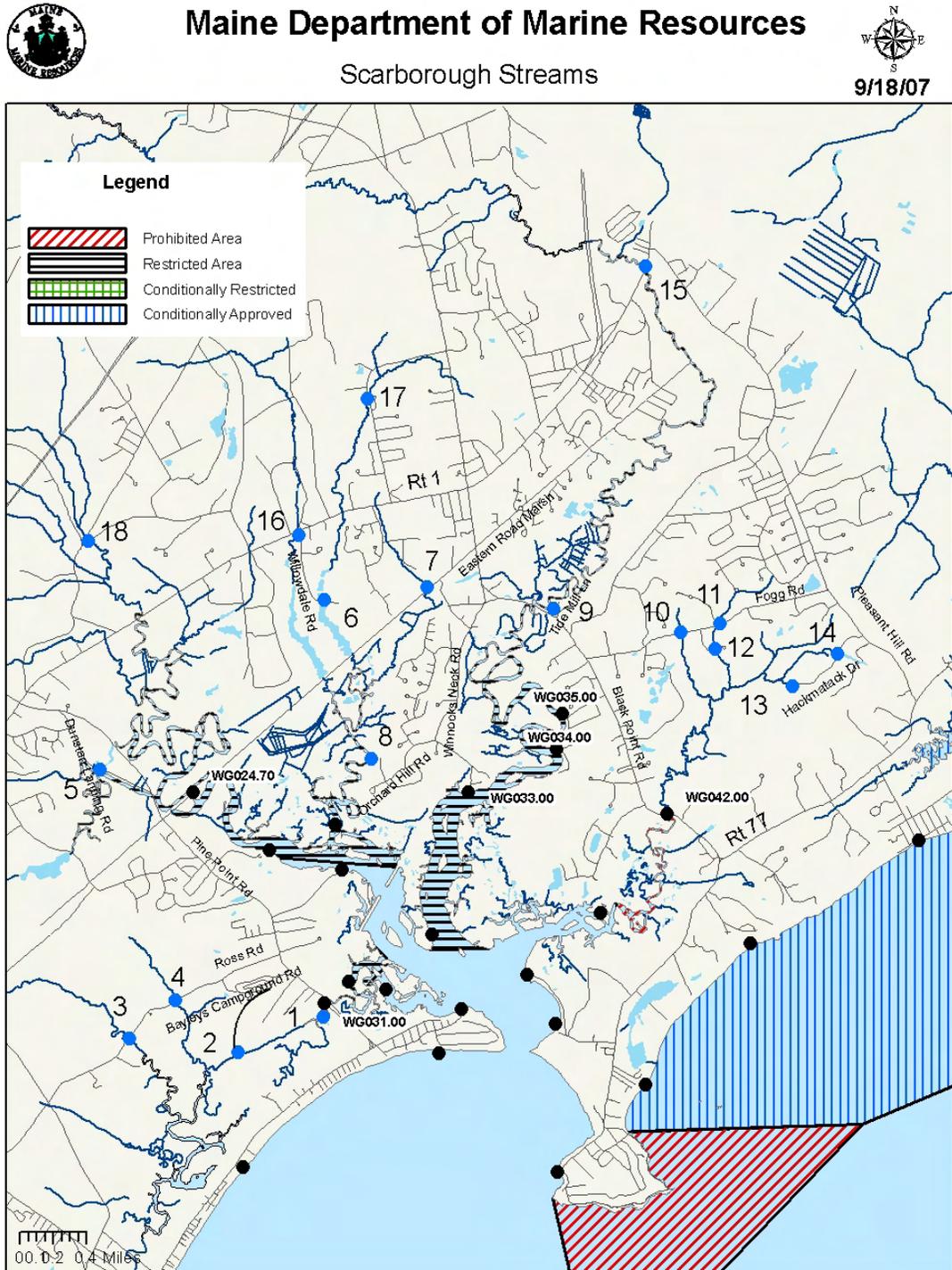




Figure 11. Biddeford and Old Orchard Beach Stream Sample Sites

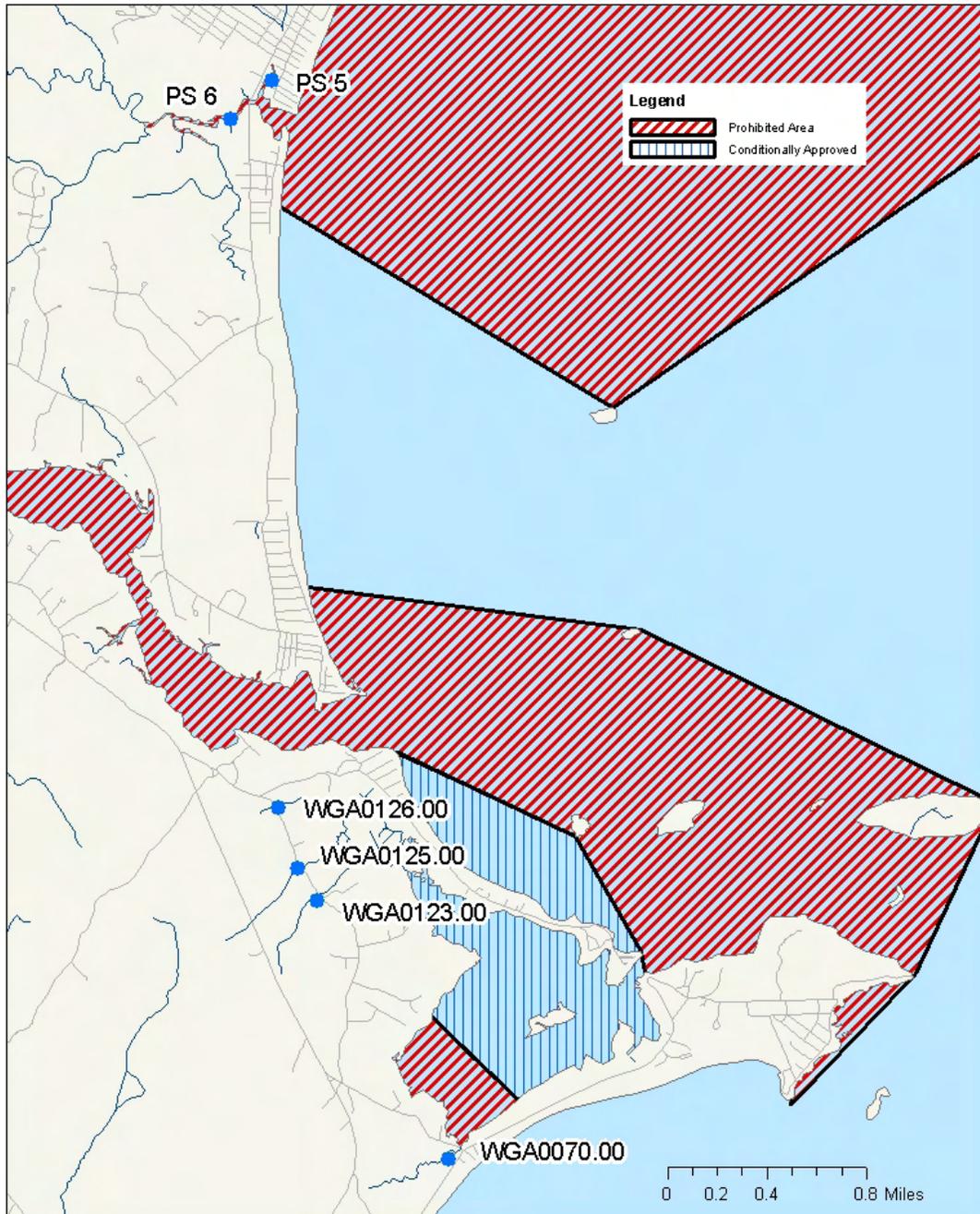


Maine Department of Marine Resources

Biddeford and Old Orchard Stream Locations



1/17/08





Overboard Discharges

There are four licensed residential overboard discharges (OBDs) located on the Saco River, one on the Scarborough River, and one at Prouts Neck. There are also five wastewater treatment plant outfalls in these areas. The discharges located in the Saco River are inside a large prohibited area. The discharge at Prouts Neck is located within the Scarborough WWTP prohibited area. The discharge in the upper Scarborough River is in a tributary leading to a restricted area; there is no shellfish resource in the area.

Table 8 Licensed Residential Overboard Discharges in Growing Area WG

Discharge	Location	Prohibited Area Required
#1319	Saco River (UNE)*	36.54 acres
#4514	Saco River	0.12 acres
#1407	Saco River	0.11 acres
#7268	Saco River	0.15 acres
#6529	Prouts Neck	0.03 acres
#4335	Scarborough River	1.02 acres

*The University of New England Sewage Treatment Plant is a sand filter system with year round chlorination.

Conservation and Recreational Areas

The Scarborough Marsh covers more than 3100 acres and is comprised of five tidal rivers and freshwater streams that drain into the Scarborough River and empty into Saco Bay. The Scarborough Marsh is the largest contiguous salt marsh in the state of Maine and accounts for 15% of the total salt marsh in the State. Ninety five percent of the area is owned and managed by Maine Department of Inland Fish and Wildlife.

There are several wildlife preserves, conservation and recreational areas located near shores of growing area WG. The Scarborough Marsh Audubon Nature Center is located just upstream of Station WG 24.7. The center provides canoe and kayak rentals, nature walks, and educational tours of the marsh. Fuller Farm Trails are located on 180 acres of conserved land, west of Route 1, along the Nonesuch River. This area provides walking and cross country skiing trails. The area also provides abundant wildlife viewing opportunities for visitors, as the area supports species such as moose, river otter, fox, mink and fisher, as well as numerous birds species. This conservation area also has one designated snowmobile trail. Broadturn Farm, also known as the Meserve Farm, is an agricultural land trust, located west of Route 95, with 100 acres of open land and 330 acres of woods. Additional coastal conservation parcels with public access include the Libby River Farm (123 acres) and Sewell Woods (35 acres).

In addition to the conservation areas, there are also three golf courses in growing area WG. The Willowdale golf course is an 18 hole, public course, located near the head of the Scarborough River, off Rt 1. The Pleasant Hill Golf Course is a smaller public course, located near the Nonesuch River. The Prouts Neck Country Club is a private, 18 hole course, located on Prouts Neck, near between Ferry Road and Black Point Road.



Agricultural Areas

Bayley Elk & Deer Farm is located at the head of Docs Creek. In 2006, the deer herd was greatly reduced in size, from over 400 to approximately 40 animals. In August 2008, a letter from the town of Scarborough confirmed that the farm was no longer in operation, and that the feed lot areas have been reseeded with rye.

Shoreline Survey Activity

Portions of growing area WG have been surveyed in recent years: Hills Beach was surveyed in 2005; Biddeford Pool was surveyed in 2006; Saco and Old Orchard beaches were surveyed in 2002 and 2003; and the Scarborough River was surveyed in 2003. Drive through surveys of growing area WG were completed during random sampling runs in 2007. No new development and no changes in pollution sources were observed.

Aquaculture/Wet Storage Activity

There are no active aquaculture lease sites or wet storage sites in shellfish growing area WG.

Classification Changes Required

An increase to the current prohibited area is required for the Old Orchard Beach WWTP prohibited area and the Biddeford and Saco WWTP prohibited areas in the Saco River and Bay to provide adequate public health protection. These required classification changes were completed on February 13, 2009.

Summary

Water quality at most stations in area WG has remained steady over the current review period, and no new pollution sources have been identified. Water quality at Station WG 32 has shown improvements. The Town of Scarborough has reported that the deer and elk farm has been closed, the animals are gone and the fields have been seeded with rye. However, Docs Creek and the streams feeding into Docs Creek continue to show elevated fecal coliform levels and there have been only a couple of sample collections at WG 32 after rainfall since the animals have been removed. It is recommended that this area remain classified restricted until 30 data points post farm closure have been collected and a thorough evaluation of Docs Creek and its tributaries is completed. Due to the elevated stream sample scores, the collection of additional stream samples is recommended in the Biddeford Pool and Scarborough area. Such sample collection should target rain events, in order to better evaluate the impact of non-point source pollution from streams on water quality.

Based on the current triennial review of WWTPs in area WG, the prohibited areas enclosing the outfalls of three of the major waste water treatment plants were found to be of inadequate size,



and two prohibited areas must be enlarged to provide adequate public health protection for the outfalls. This required change was completed in February 13, 2009.

The next sanitary survey for this area is due in 2010. The upper Scarborough River and its tributaries continue to have some water quality issues. A thorough shoreline survey, accompanied by pollution source sampling and evaluation of the area's storm water system should be completed for this upcoming report.



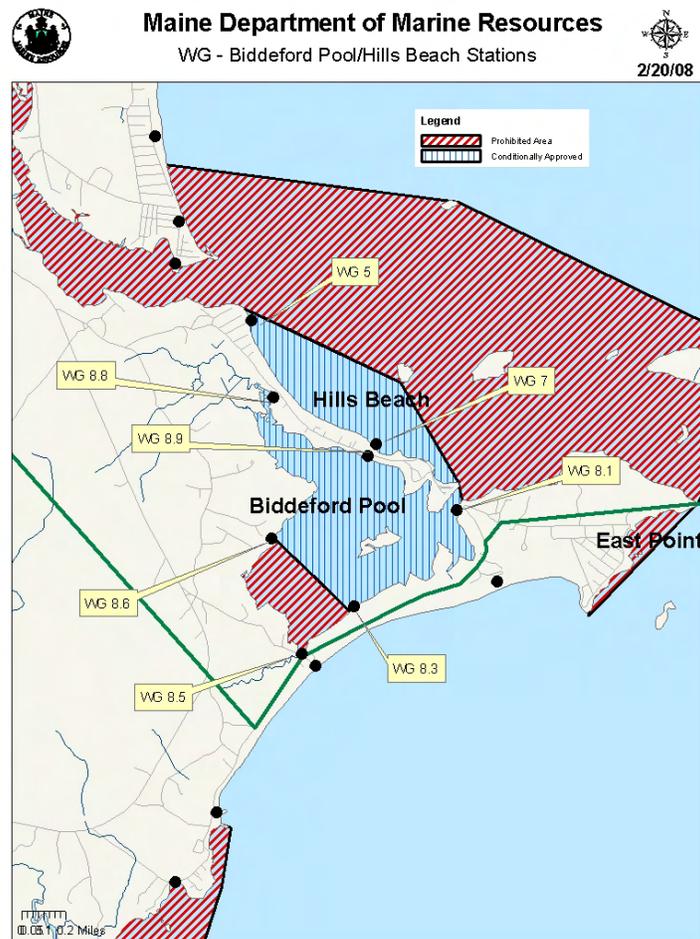
Appendix A. Annual Review of Management Plan-Biddeford Pool/Hills Beach

2007 Annual Review Biddeford Pool/Hills Beach Conditional Area Growing Area WG

Scope

Biddeford Pool/Hills Beach is a conditionally approved area due to seasonal variation in water quality, possibly due to an increase in shore usage during the summer. This area, monitored by stations WG 5, 7, 8.1, 8.3, 8.6, 8.8 and 8.9, was classified conditionally approved based on seasonal variation in water quality in 2000. DMR evaluated the Biddeford Pool data in December 1999, and made the assessment that there is greater variation in water quality during the summer months, due to an increase in seasonal population and an increase in shore usage during the summer months. The area met approved standards from October through May.

Figure 1. Growing Area WG Conditional Area Overview





Compliance with management plan

In 2007, the conditional area closed on June 1 and reopened on October 1. A review of the water quality was completed in September 2007, to assure that water quality continued to meet approved standards during the area’s open season.

Adequacy of reporting and cooperation of involved persons

This management plan does not require reporting. A water quality data review is required prior to the area’s reopening, to verify that the approved standard is being met.

Compliance with approved growing area criteria

The annual review of seasonal data shows that the conditionally approved stations in Biddeford Pool met approved standards during the open season (Table 1).

Table 1. Conditional Area Geomean and P90 Scores, Open Status

STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD
WG005.00	CA	30	8	7.6	0.52	240	34.8	43	255
WG007.00	CA	30	8	6.7	0.53	240	32.3	43	255
WG008.10	CA	30	8	6.2	0.53	460	29.3	43	255
WG008.30	CA	6	6	3.4	0.41	18	11.5		
WG008.60	CA	6	6	3.9	0.41	18	13.4		
WG008.80	CA	30	8	5.7	0.51	460	25.8	43	255
WG008.90	CA	30	8	5.8	0.54	240	28.1	43	255

Field inspection of critical pollution sources

The potential for seasonal pollution in Biddeford Pool/Hills Beach 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

In 2007, all stations were collected at least six times in the open status.

Analysis-Recommendations

It is DMR policy to evaluate the seasonal data each year, prior to the reopening, to ensure that the conditionally approved classification continues to be appropriate. The Biddeford Pool/Hills Beach data will be reviewed in September 2008, prior to the area’s reopening date.



Appendix B. 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 C. 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 90th 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, DMR will migrate from the MPN standard to the MF standard. 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 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 D. Water Quality Data Collected in 2007

Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
WG004.00	01/03/07	EXT	E	4	6	R	-	C	P	40	W
WG004.00	04/30/07	FP	F	2	0	R	P	C	P	9.1	S
WG004.00	05/30/07	EXT	HF	18	5	R	-	C	P	106	CL
WG004.00	06/19/07	LL	F	20	5	R	-	C	P	6	SE
WG004.00	08/14/07	LL	F	18	24	R	-	C	P	148	NE
WG004.00	10/24/07	LL	E	11	20	R	P	C	P	52	CL
WG005.00	01/03/07	LL	E	6	28	R	P	O	CA	2	SW
WG005.00	03/06/07	FP	HE		32	R	-	O	CA	<2.0	-
WG005.00	04/30/07	LL	H	8	2	R	P	O	CA	40	E
WG005.00	05/23/07	EXT	LE	9	24	R	-	O	CA	<2.0	NE
WG005.00	06/19/07	MHE	H	19	22	R	-	C	CA	4	SE
WG005.00	08/13/07	EXT	E	18	26	R	-	C	CA	<2.0	S
WG005.00	09/24/07	EXT	HF	12	28	R	-	C	CA	7.3	CL
WG005.00	10/23/07	LL	HE	12	31	R	-	O	CA	8	SW
WG005.00	11/19/07	EXT	E	1	16	R	-	O	CA	16	NE
WG005.00	12/09/07	LL	HE	5	31	R	-	O	CA	<2.0	CL
WG007.00	01/03/07	LL	E	6	26	R	P	O	CA	4	SW
WG007.00	03/06/07	FP	H		30	R	-	O	CA	<2.0	-
WG007.00	04/30/07	LL	H	7	6	R	P	O	CA	26	E
WG007.00	05/23/07	EXT	F	9	14	R	-	O	CA	8	NE
WG007.00	06/19/07	MHE	H	16	25	R	-	C	CA	<2.0	S
WG007.00	08/13/07	EXT	E	17	30	R	-	C	CA	5.5	S
WG007.00	09/24/07	EXT	HF	12	28	R	-	C	CA	2	CL
WG007.00	10/23/07	LL	HE	12	32	R	-	O	CA	<2.0	CL
WG007.00	11/19/07	EXT	E	1	13	R	W	O	CA	18	NE
WG007.00	12/09/07	LL	HE	4	30	R	-	O	CA	<2.0	CL
WG008.10	01/03/07	LL	E	6	30	R	P	C	P	<2.0	SW
WG008.10	03/06/07	FP	H		30	R	-	O	CA	<2.0	-
WG008.10	04/30/07	LL	HE	7	23	R	P	O	CA	6	E
WG008.10	05/23/07	EXT	LE	9	17	R	-	O	CA	20	NE
WG008.10	06/19/07	MHE	HF	14	27	R	-	C	CA	<2.0	S
WG008.10	08/13/07	EXT	E	15	30	R	-	C	CA	<2.0	S
WG008.10	09/24/07	EXT	H	12	30	R	-	C	CA	<2.0	CL
WG008.10	10/23/07	LL	E	12	31	R	-	O	CA	<2.0	CL
WG008.10	11/19/07	EXT	E	3	22	R	-	O	CA	14	NE
WG008.10	12/09/07	LL	HE	5	30	R	-	O	CA	<2.0	SW
WG008.30	03/06/07	FP	HE		30	R	-	O	CA	<2.0	NW
WG008.30	04/30/07	LL	HE	7	22	R	P	O	CA	6	E
WG008.30	05/23/07	EXT	F	10	20	R	-	O	CA	2	NE
WG008.30	06/19/07	MHE	HF	14	27	R	-	C	CA	2	CL
WG008.30	08/13/07	EXT	E	15	30	R	-	C	CA	<2.0	S



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
WG008.30	09/24/07	EXT	H	12	30	R	-	C	CA	2	CL
WG008.30	10/23/07	LL	E	12	32	R	-	O	CA	<2.0	CL
WG008.30	11/19/07	EXT	E	1	21	R	-	O	CA	18	NE
WG008.30	12/09/07	LL	HE	2	30	R	-	O	CA	2	SW
WG008.50	01/03/07	LL	E	6	28	R	P	C	P	4	SW
WG008.50	03/06/07	FP	H		30	R	-	C	P	<2.0	NW
WG008.50	04/30/07	LL	HE	7	22	R	P	C	P	<2.0	E
WG008.50	05/30/07	EXT	HF	14	26	R	-	C	P	2	CL
WG008.50	06/19/07	MHE	HF	18	26	R	W	C	P	<2.0	CL
WG008.50	08/13/07	EXT	F	18	28	R	-	C	P	27	CL
WG008.50	09/24/07	EXT	H	12	30	R	-	C	P	2	CL
WG008.50	10/23/07	LL	E	13	32	R	-	C	P	4	CL
WG008.50	11/19/07	EXT	E	1	20	R	-	C	P	26	NE
WG008.50	12/09/07	LL	HE	2	30	R	-	C	P	4	CL
WG008.60	03/06/07	FP	HE		30	R	W	O	CA	<2.0	NW
WG008.60	04/30/07	LL	H	7	20	R	P	O	CA	3.6	E
WG008.60	05/23/07	EXT	F	13	24	R	-	O	CA	2	NE
WG008.60	06/19/07	MHE	HF	19	26	R	-	C	CA	7.3	S
WG008.60	08/13/07	EXT	E	17	29	R	-	C	CA	49	S
WG008.60	09/24/07	EXT	HF	12	31	R	W	C	CA	16	CL
WG008.60	10/23/07	LL	HE	12	32	R	-	O	CA	18	SW
WG008.60	11/19/07	EXT	E	2	22	R	-	O	CA	8	NE
WG008.60	12/09/07	LL	HE	3	30	R	W	O	CA	<2.0	CL
WG008.80	01/03/07	LL	E	6	30	R	P	C	P	2	SW
WG008.80	03/06/07	FP	H		30	R	-	O	CA	<2.0	NW
WG008.80	04/30/07	LL	H	7	16	R	P	O	CA	6	E
WG008.80	05/23/07	EXT	F	14	12	R	-	O	CA	8	NE
WG008.80	06/19/07	MHE	HF	19	26	R	-	C	CA	<2.0	CL
WG008.80	08/13/07	EXT	E	19	28	R	-	C	CA	56	CL
WG008.80	09/24/07	EXT	HF	12	31	R	-	C	CA	10	CL
WG008.80	10/23/07	LL	HE	12	31	R	-	O	CA	4	SW
WG008.80	11/19/07	EXT	E	1	24	R	-	O	CA	2	CL
WG008.80	12/09/07	LL	HE	3	30	R	-	O	CA	4	CL
WG008.90	01/03/07	LL	E	6	30	R	P	C	P	2	SW
WG008.90	03/06/07	FP	H		32	R	-	O	CA	2	NW
WG008.90	04/30/07	LL	H	7	18	R	P	O	CA	12	E
WG008.90	05/23/07	EXT	F	10	25	R	-	O	CA	4	NE
WG008.90	06/19/07	MHE	H	21	26	R	-	C	CA	42	S
WG008.90	08/13/07	EXT	E	17	30	R	-	C	CA	<2.0	S
WG008.90	09/24/07	EXT	HF	12	30	R	-	C	CA	4	CL
WG008.90	10/23/07	LL	HE	13	31	R	-	O	CA	6	SW
WG008.90	11/19/07	EXT	E	3	26	R	-	O	CA	2	NE
WG008.90	12/09/07	LL	HE	2	30	R	-	O	CA	8	CL



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
WG009.00	01/03/07	EXT	E	4	32	R	-	C	P	2	W
WG009.00	03/07/07	FP	LF	-5	34	R	-	C	P	2	CL
WG009.00	04/30/07	FP	F	2	24	R	P	C	P	3.6	S
WG009.00	06/19/07	LL	F	18	22	R	-	C	P	30	SE
WG009.00	08/14/07	LL	F	17	30	R	-	C	P	<2.0	NE
WG009.00	10/24/07	LL	E	11	30	R	P	C	P	8	CL
WG010.00	01/03/07	EXT	E	4	32	R	-	O	A	<2.0	CL
WG010.00	03/07/07	FP	F	-5	34	R	-	O	A	7.3	CL
WG010.00	04/30/07	FP	F	2	25	R	P	O	A	<2.0	S
WG010.00	06/19/07	LL	F	18	23	R	-	O	A	<2.0	SE
WG010.00	08/14/07	LL	F	16	30	R	-	O	A	6	NE
WG010.00	10/24/07	LL	E	11	32	R	P	O	A	14	CL
WG012.00	01/03/07	EXT	E	4	32	R	-	O	A	<2.0	W
WG012.00	03/07/07	FP	F	-5	34	R	-	O	A	2	N
WG012.00	04/30/07	FP	F	2	22	R	P	O	A	2	S
WG012.00	06/19/07	LL	F	18	25	R	-	O	A	<2.0	SE
WG012.00	08/14/07	LL	F	18	30	R	-	O	A	<2.0	NE
WG012.00	10/24/07	LL	E	12	32	R	P	O	A	<2.0	CL
WG015.00	01/03/07	EXT	E	4	32	R	-	C	P	<2.0	W
WG015.00	03/07/07	FP	F		33	R	-	C	P	<2.0	CL
WG015.00	04/30/07	FP	F	2	22	R	P	C	P	9.1	S
WG015.00	06/19/07	LL	F	17	28	R	-	C	P	8	SE
WG015.00	08/14/07	LL	F	15	31	R	-	C	P	<2.0	N
WG015.00	10/24/07	LL	E	12	32	R	P	C	P	4	CL
WG019.50	01/03/07	EXT	E	4	32	R	-	O	A	2	SW
WG019.50	03/07/07	FP	F		33	R	-	O	A	<2.0	CL
WG019.50	04/30/07	FP	F	2	22	R	P	O	A	5.5	S
WG019.50	06/19/07	LL	F	18	29	R	-	O	A	2	SE
WG019.50	08/14/07	LL	F	16	32	R	-	O	A	<2.0	N
WG019.50	10/24/07	LL	E	12	32	R	P	O	A	24	CL
WG020.00	01/03/07	EXT	E	4	32	R	-	O	A	5.5	SW
WG020.00	03/07/07	FP	F		34	R	-	O	A	<2.0	CL
WG020.00	04/30/07	FP	HF	2	22	R	P	O	A	2	S
WG020.00	06/19/07	LL	F	17	30	R	-	O	A	<2.0	SE
WG020.00	08/14/07	LL	F	17	32	R	-	O	A	<2.0	CL
WG020.00	10/24/07	LL	E	12	32	R	P	O	A	13	CL
WG021.00	04/02/07	DAH	E	4	30	R	P	O	A	10	NE
WG021.00	05/03/07	LL	F	9	25	R	-	O	A	<2.0	NW
WG021.00	05/22/07	DAH	F	9	28	R	-	O	A	2	SE
WG021.00	07/19/07	DEC	L	15	30	R	P	O	A	<2.0	CL



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
WG021.00	09/10/07	DAH	HE	6	31	R	-	O	A	<2.0	-
WG021.00	11/19/07	DAH	F	15	32	R	-	O	A	<2.0	-
WG024.70	04/02/07	DAH	E	5	25	R	P	C	P	2	NE
WG024.70	05/03/07	LL	F	10	4	R	-	O	R	14	NW
WG024.70	05/30/07	DAH	HF	11	25	R	W	O	R	2	W
WG024.70	07/18/07	LL	F	18	15	R	P	O	R	46	CL
WG024.70	09/10/07	DAH	HE	6	30	R	-	O	R	6	-
WG024.70	09/12/07	LL	HE	16	30	R	P	O	R	36	W
WG024.70	11/26/07	DAH	F	10	30	R	-	O	R	12	-
WG025.00	02/05/07	DEC	F	-4	31	R	-	O	A	<2.0	-
WG025.00	04/02/07	DAH	E	4	30	R	P	O	A	<2.0	NE
WG025.00	05/30/07	DAH	HF	11	30	R	W	O	A	<2.0	W
WG025.00	07/18/07	LL	F	12	30	R	P	O	A	4	CL
WG025.00	09/10/07	DAH	E	6	31	R	W	O	A	10	-
WG025.00	11/26/07	DAH	F	10	32	R	-	O	A	2	-
WG026.50	02/05/07	DEC	F	-4	30	R	-	O	A	<2.0	-
WG026.50	05/03/07	LL	F	10	12	R	-	O	A	38	NW
WG026.50	05/30/07	DAH	HF	14	28	R	W	O	A	<2.0	CL
WG026.50	07/18/07	LL	HF	12	30	R	P	O	R	4	CL
WG026.50	09/10/07	DAH	E	6	29	R	-	O	R	9.1	-
WG026.50	11/26/07	DAH	F	10	28	R	W	O	R	11	-
WG027.00	02/05/07	DEC	F	-3	30	R	-	O	A	<2.0	-
WG027.00	04/02/07	DAH	E	4	30	R	P	O	A	<2.0	NE
WG027.00	05/30/07	DAH	HF	12	30	R	W	O	A	2	CL
WG027.00	07/18/07	LL	F	12	30	R	P	O	A	<2.0	CL
WG027.00	09/10/07	DAH	E	5	30	R	W	O	A	<2.0	-
WG027.00	11/26/07	DAH	HF	10	32	R	W	O	A	2	-
WG031.00	04/02/07	DAH	E	4	15	R	P	C	P	<2.0	NE
WG031.00	05/03/07	LL	F	11	0	R	-	C	P	20	NW
WG031.00	05/30/07	DAH	HE	15	20	R	-	C	P	42	W
WG031.00	07/18/07	LL	F	18	6	R	P	C	P	100	CL
WG031.00	09/10/07	DAH	HE	8	30	R	-	O	R	16	-
WG031.00	09/12/07	LL	E	16	28	R	P	O	R	84	W
WG031.00	11/26/07	DAH	HF	10	29	R	-	O	R	4	-
WG032.00	02/05/07	DEC	HF	-4	32	R	-	C	P	<2.0	-
WG032.00	05/03/07	LL	F	10	18	R	-	C	P	10	NW
WG032.00	05/30/07	DAH	H	15	27	R	-	C	P	4	E
WG032.00	07/18/07	LL	F	13	30	R	P	C	P	4	CL
WG032.00	09/10/07	DAH	E	5	30	R	W	O	R	2	-
WG032.00	11/26/07	DAH	F	10	32	R	-	O	R	6	-



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
WG032.50	02/05/07	DEC	HF	-4	32	R	-	O	A	2	-
WG032.50	05/03/07	LL	F	9	22	R	-	O	A	4	NW
WG032.50	05/30/07	DAH	H	10	30	R	W	O	A	<2.0	E
WG032.50	07/18/07	LL	F	12	30	R	P	O	A	<2.0	CL
WG032.50	09/10/07	DAH	E	5	30	R	W	O	A	<2.0	-
WG032.50	11/26/07	DAH	F	10	32	R	-	O	A	<2.0	-
WG033.00	02/05/07	DEC	F	-3	30	R	-	C	P	<2.0	-
WG033.00	04/02/07	DAH	E	4	28	R	P	C	P	7.3	NE
WG033.00	05/22/07	DAH	E	10	10	R	BW	O	R	34	S
WG033.00	07/18/07	LL	F	17	6	R	P	O	R	102	CL
WG033.00	09/10/07	DAH	E	7	30	R	BW	O	R	2	-
WG033.00	09/12/07	LL	F	15	29	R	P	O	R	70	W
WG033.00	11/26/07	DAH	HF	10	31	R	W	O	R	8	-
WG034.00	02/05/07	DEC	F	-4	30	R	-	C	P	<2.0	-
WG034.00	04/02/07	DAH	HE	4	28	R	P	C	P	<2.0	NE
WG034.00	05/22/07	DAH	LE	11	2	R	BW	O	R	72	S
WG034.00	07/18/07	LL	F	16	3	R	P	O	R	180	CL
WG034.00	09/10/07	DAH	E	7	30	R	BW	O	R	8	-
WG034.00	09/12/07	LL	HF	16	28	R	P	O	R	128	W
WG034.00	11/19/07	DAH	F	9	12	R	-	O	R	60	-
WG035.00	02/05/07	DEC	F	-4	24	R	-	C	P	<2.0	-
WG035.00	04/02/07	DAH	HE	4	20	R	P	C	P	2	NE
WG035.00	05/22/07	DAH	E	10	2	R	W	O	R	74	S
WG035.00	07/18/07	LL	F	16	0	R	P	O	R	140	CL
WG035.00	09/10/07	DAH	E	7	30	R	-	O	R	9.1	-
WG035.00	09/12/07	LL	HF	15	26	R	P	O	R	180	W
WG035.00	11/26/07	DAH	H	10	32	R	-	O	R	4	-
WG037.00	05/03/07	LL	F	8	25	R	-	O	R	4	NW
WG037.00	05/30/07	DAH	H	10	30	R	-	O	R	<2.0	E
WG037.00	07/18/07	LL	HF	12	30	R	P	O	R	<2.0	CL
WG037.00	09/10/07	DAH	E	6	30	R	-	O	R	2	-
WG037.00	11/26/07	DAH	F	10	32	R	-	O	R	<2.0	-
WG037.00	12/19/07	DEC	E		28	R	-	O	R	2	CL
WG038.00	02/05/07	DEC	HF	-3	32	R	-	O	A	<2.0	-
WG038.00	04/02/07	DAH	E	4	30	R	P	O	A	<2.0	NE
WG038.00	05/22/07	DAH	F	10	18	R	-	O	A	42	S
WG038.00	07/18/07	LL	F	12	30	R	P	O	A	2	CL
WG038.00	09/10/07	DAH	E	5	30	R	BW	O	A	<2.0	-
WG038.00	11/26/07	DAH	F	10	32	R	-	O	A	<2.0	-
WG039.00	02/05/07	DEC	HF	-3	32	R	-	O	A	<2.0	-
WG039.00	04/02/07	DAH	H	4	31	R	P	O	A	<2.0	NE



Station	Date	Collector	Tide	Temp	Sal	Strat	ADV	Stat	CL	MFCOL	WIND
WG039.00	05/30/07	DAH	HF	10	30	R	W	O	A	<2.0	CL
WG039.00	07/18/07	LL	F	15	26	R	P	O	A	4	CL
WG039.00	09/10/07	DAH	E	5	30	R	W	O	A	3.6	-
WG039.00	11/19/07	DAH	F	12	31	R	-	O	A	6	-
WG041.00	02/05/07	DEC	HF	-3	32	R	-	O	A	<2.0	-
WG041.00	04/02/07	DAH	H	4	16	R	P	O	A	4	NE
WG041.00	05/03/07	LL	F	10	16	R	-	O	A	6	NW
WG041.00	05/30/07	DAH	H	12	30	R	W	O	A	<2.0	CL
WG041.00	07/18/07	LL	HF	12	30	R	P	O	A	2	CL
WG041.00	09/10/07	DAH	E	7	30	R	-	O	A	2	-
WG041.00	11/26/07	DAH	F	10	29	R	-	O	A	20	-
WG042.00	05/22/07	DAH	LE	9	5	R	W	C	P	24	S
WG042.00	07/18/07	LL	F	18	5	R	P	C	P	134	CL
WG042.00	09/10/07	DAH	H	10	28	R	-	C	P	46	-
WG042.00	09/12/07	LL	HF	15	18	R	P	C	P	1400	W
WG042.00	11/19/07	DAH	F	10	1	R	-	C	P	86	-
WG044.00	02/05/07	DEC	HF	-3	32	R	-	O	A	<2.0	-
WG044.00	04/02/07	DAH	H	4	31	R	P	O	A	<2.0	NE
WG044.00	05/30/07	DAH	HE	12	30	R	-	O	A	<2.0	CL
WG044.00	07/18/07	LL	F	12	30	R	P	O	A	2	CL
WG044.00	09/10/07	DAH	E	5	30	R	W	O	A	<2.0	-
WG044.00	11/19/07	DAH	F	12	31	R	-	O	A	2	-
WG046.00	02/05/07	DEC	HF	-3	32	R	-	O	A	<2.0	-
WG046.00	04/02/07	DAH	H	4	32	R	P	O	A	<2.0	NE
WG046.00	05/22/07	DAH	LE	9	28	R	W	O	A	22	S
WG046.00	07/18/07	LL	F	12	30	R	P	O	A	<2.0	CL
WG046.00	09/10/07	DAH	E	5	30	R	WB	O	A	<2.0	-
WG046.00	11/19/07	DAH	LE	10	32	R	-	O	A	<2.0	W



Appendix E. Recommendation for Classification Change Saco Bay – Area No. 10

TITLE & TEXT OF RULE: DMR Regulation Chapter 95.10(S), Closed Area No. 10, Saco River and Saco Bay (Biddeford, Saco, Old Orchard Beach)

- A. Effective immediately, because of pollution, it shall be unlawful to dig, take or possess any clams, quahogs, oysters or mussels taken from the shores, flats and waters of the following areas:
1. Saco Bay: inside and shoreward of a line beginning at the end of Walnut Street- Parcher Avenue at East Grand Avenue (Old Orchard Beach); then running southeast to the southwest tip of Stratton Island (Saco); then running ~~southwest~~ east to bouy RW "WI"; then running southwest to the east north tip of Wood Island (Biddeford) Eagle Island (Saco); then running northwest to the north tip of Ram Island (Saco); then running northwest to Fairhaven Avenue (Saco). Curtis Rd, on the south side of the mouth of Goosefare Brook (Saco).
 2. The Saco River, Saco Bay, and The Pool (Biddeford Pool): inside and shoreward of a line beginning at Fairhaven Avenue (Saco); then running east to the north tip of Ram Island (Saco); then running southeast to the east tip of Wood Island (Biddeford); then running southwest to the east tip of East Point, Fletcher Neck (Biddeford), and continuing southwest to the south tip of South Point, Fletcher Neck (Biddeford); AND north a line beginning at the southeast corner of the mouth of the Saco River; then running southeast to the south tip of Basket Island; then continuing southeast to Fort Hill and on across the mouth of Biddeford Pool to the west end of the Lester B. Orcutt Blvd.
 3. Biddeford Pool west of a line beginning at the small dock in front of house #3 Landing Way and extending southeast across Biddeford Pool to a telephone pole #J15,30,325, located in front of house #38 Mile Stretch Road.
- B. Effective immediately, because of pollution, the shores, flats and waters of Hills Beach (Biddeford), inside and shoreward of a line beginning at the southeast corner of the mouth of the Saco River; then running southeast to the south tip of Basket Island; then continuing southeast to Fort Point, is classified as "Conditionally Approved," and shall be closed to the harvest of clams, quahogs, oysters and mussels from June 1 through September 30.
- C. Effective immediately, because of pollution, the shores, flats and waters of Biddeford Pool (Biddeford), south of line across the mouth of Biddeford Pool beginning at the northeast tip of Fort Point and extending southeast to the west end of the Lester B. Orcutt Blvd; AND north of a line beginning at the small dock in front of house #3 Landing Way and extending southeast across Biddeford Pool to a telephone pole #J15,30,325, located in front of house #38 Mile Stretch Road, is classified as "Conditionally Approved," and shall be closed to the harvest of clams, quahogs, oysters and mussels from June 1 through September 30.

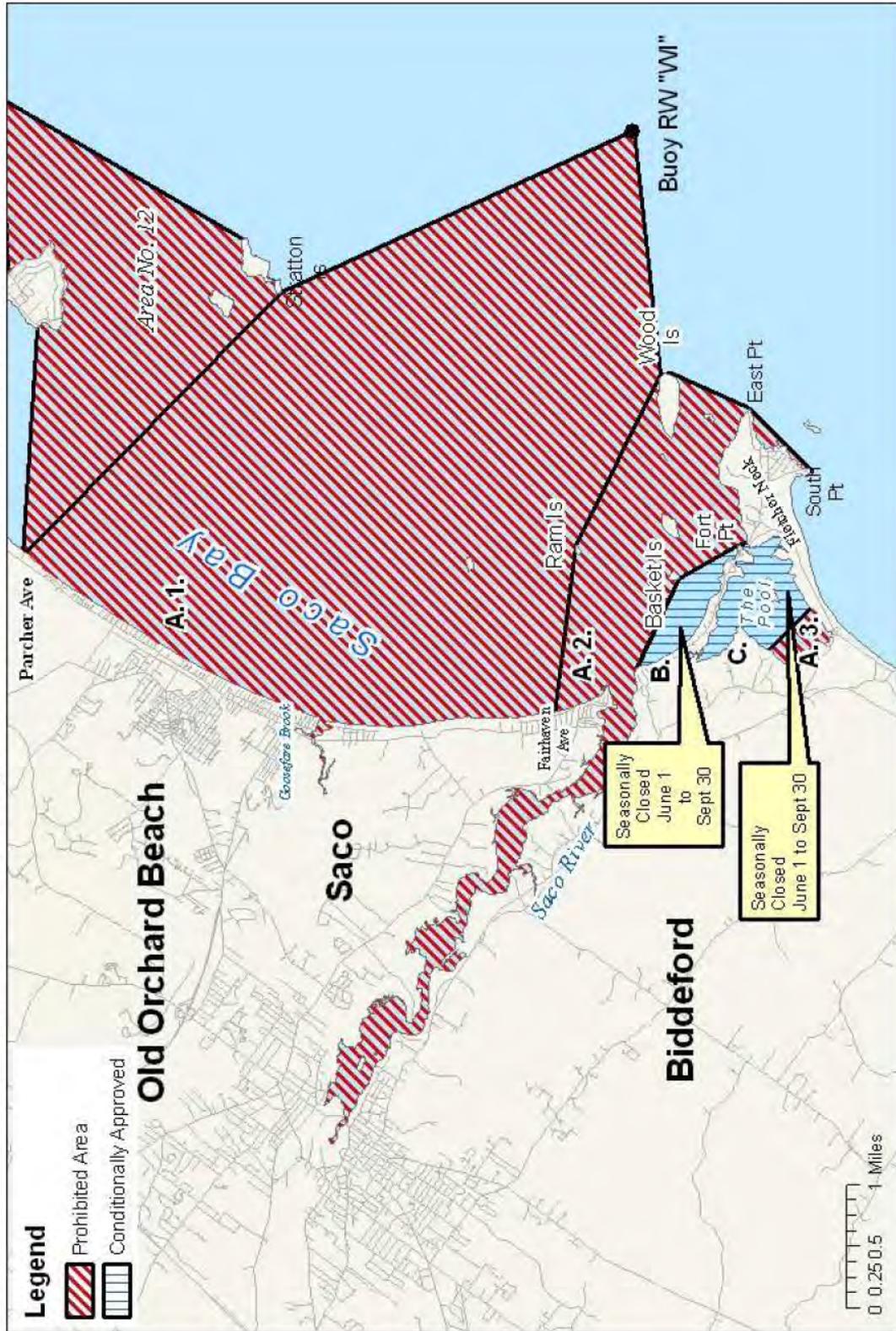


Maine Department of Marine Resources

Pollution Area No. 10

Saco River and Saco Bay (Biddeford, Saco, Old Orchard Beach)

02.13.09





Appendix E. Recommendation for Classification Change Saco Bay – Area No. 12

TITLE & TEXT OF RULE: DMR Chapter 95.03(H), Area No. 12, Spurwink River, Prouts Neck, Cape Elizabeth (Old Orchard Beach, Scarborough, Cape Elizabeth)

- A. Effective immediately, because of pollution, it shall be unlawful to dig, take or possess any clams, quahogs, oysters or mussels taken from the shores, flats and waters of the following areas:
1. Spurwink River: north of a line beginning at a red painted post, located approximately 1000 feet northeast of the end of Wiley Way (Scarborough); then running southeast to a red painted post, located on the opposite shore (Cape Elizabeth). This area is classified as “Restricted” and requires a special MDMR permit.
 2. Prouts Neck: inside of a line beginning at the west tip of the jetty on the western shore of Prouts Neck (Scarborough); then running ~~northwest~~ southwest to the end of ~~Walnut Street~~ Parcher Avenue off East Grand Avenue (Old Orchard Beach); then running southeast to the southern tip of Stratton Island; then running along the shore of Stratton Island’s eastern shore to the northeasternmost tip of Stratton Island; then running northeast from the northeast tip of Stratton Island to the green navigation C” 1” buoy at Old Proprietor (Scarborough); then running west to the land at the end of Beach Road (Scarborough).
- B. Effective immediately, because of pollution, the shores, flats and waters of Scarborough and Cape Elizabeth: south of a line beginning at a red painted post, located approximately 1000 feet northeast of the end of Wiley Way (Scarborough); then running southeast to a red painted post, located on the opposite shore (Cape Elizabeth); AND inside and shoreward of a line beginning at the land at the end of Beach Road (Scarborough); then running east to the green navigation C” 1” buoy at Old Proprietor (Scarborough); then running northeast to the southwest tip of McKenney Point (Cape Elizabeth); have been classified as “Conditionally Approved,” and shall be closed to the harvest of clams, quahogs, oysters or mussels from June 1 through November 30.



Maine Department of Marine Resources Pollution Area No. 12

Spurwink River, Prouts Neck, Cape Elizabeth (Old Orchard Beach, Scarborough, Cape Elizabeth)

02.13.09

