



**GROWING AREA WC – Cape Neddick
Town of York**

ANNUAL REVIEW for 2006

Final Report Date: 6/29/07

LAURA LIVINGSTON

APPROVAL

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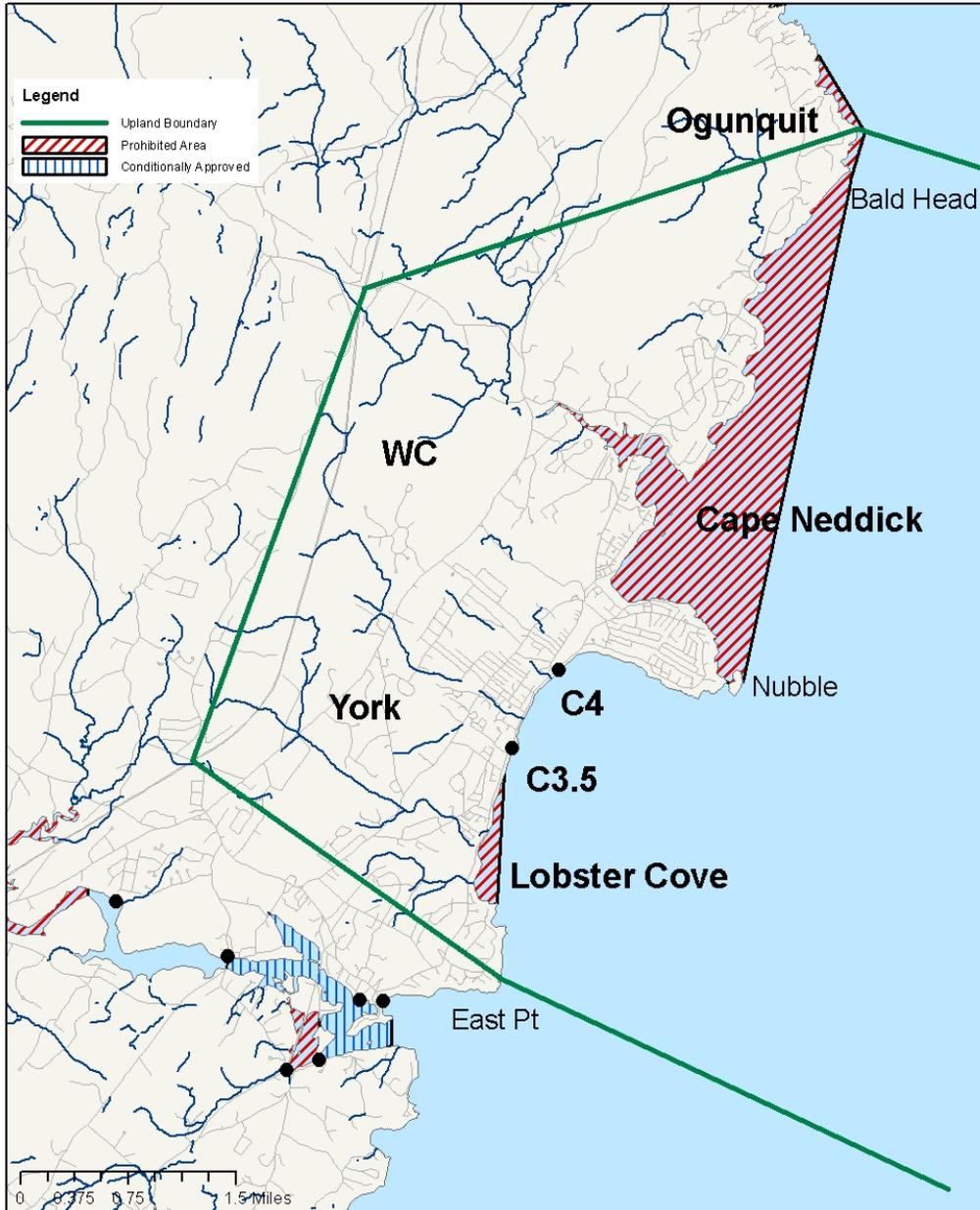
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Maine Department of Marine Resources

Growing Area WC





Executive Summary

Growing area WC is between East Point, York and Bald Head, Ogunquit. There were no classification changes in 2006. No overboard discharges were removed and no water quality stations were created or deactivated. There were no changes in pollution sources, and no classification changes are required at this time.

Boundary Description

Growing area WC lies inside a line from the end of Seafarer Way, East Point, York, extending southeast offshore, and also, extending west to the intersection of Spur Road and I-95, then north to the intersection of Mountain Road and I-95, then east to Bald Head, Ogunquit, then due east offshore.

Current Classification(s)

Shellfish growing area WC currently has areas classified as:

Approved
 Long Beach (2 Stations)
Prohibited
 Lobster Cove
 Short Sands
 Cape Neddick River

Legal Notices

Visit the DMR website to view Legal Notice:

DMR Regulation 95.10 Q, Closed Area No. 2-B, Lobster Cove, York
DMR Regulation 95.10 B, Closed Area No. 3, Cape Neddick Nubble to Bald Head Cliff, York and Ogunquit

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

Current Management Plan(s)

There are no conditional areas in growing area WC.



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, we 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.

Table 1 displays the geomeans and P90s for all the active stations in growing area WC. The data represents the evaluation of the 30 most recent data points collected between 2001 and 2006 throughout the year. A key to the water quality table headers can be found in Attachment A at the end of this document. Water quality meets approved standards at all approved stations in growing area WC.



Table 1 Geomean and P90-Year Round

MAINE DEPARTMENT OF MARINE RESOURCES										As of: December 26, 2006	
Fecal Coliform Geometric Mean and Percent Variability For the Years 2001 Through 2006 - (01/01 - 12/31) Strategy = Random Only Excludes Flood Data Samples Limited to Latest 30 Salinity >= 0 ‰											
STATION	CLASS	CNT	MFCNT	GM	SDV	MAX	P90	APPD_STD	RESTR_STD		
WC003.50	A	30	2	4.5	0.49	460	18.6	48	288		
WC004.00	A	30	2	4.3	0.36	93	12.3	48	288		

Stations that were classified approved at the beginning of the year were sampled six times in 2006, as documented below in Table 2:

Table 2 Sample Collection Results for 2006

MAINE DEPARTMENT OF MARINE RESOURCES															As of: December 26, 2006	
Tabulated Station Data for Area(s): WC For the Years 2006 Through 2006 - (01/01 - 12/31) Strategy = Random Only Excludes Flood Data = Y Excludes Inactive Stations																
Station	Date	Collector	Tide	Temp	Weather	Sal	Strat	ADV	Stat	CL	FECOL	A1COL	MFCOL	WIND		
WC003.50	01/10/06	JB	E	0	C	30	R	-	O	A		<3.0	-	W		
	02/13/06	FP	HE	4	-	30	R	-	O	A		<3.0	-	NW		
	04/19/06	FP	LF	10	O	30	R	-	O	A		3.6	-	NE		
	07/05/06	SXR	LE	11	P	32	R	-	O	A		<3.0	-	SW		
	09/19/06	JXK	HE	17	P	31	R	-	O	A		-	<2.0	SW		
	12/12/06	JB	F	5	C	30	R	-	O	A		-	<2.0	E		
WC004.00	01/10/06	JB	E	0	C	31	R	-	O	A		<3.0	-	W		
	02/13/06	FP	HE	5	-	31	R	-	O	A		3.6	-	CL		
	04/19/06	FP	LF	10	O	31	R	-	O	A		<3.0	-	N		
	07/05/06	SXR	L	11	P	32	R	-	O	A		3.6	-	SW		
	09/19/06	JXK	HE	17	P	31	R	-	O	A		-	<2.0	SW		
	12/12/06	JB	F	5	C	30	R	-	O	A		-	<2.0	E		

Shoreline Survey Activity

The Long Sands shoreline, in growing area WC, was surveyed in 2001. Drive through surveys of growing area WC were done during random sampling runs. No septic changes in the shoreline were observed, no new housing developments, businesses or drainage alterations. All dwellings along this shore are connected to the York sewage collection system, which is a sealed system with no overflow pipes.

Aquaculture/Wet Storage Activity

There currently are no active aquaculture lease sites in shellfish growing area WC.



Classification Changes Required

No classification changes are required at this time.

Discussion & Summary

Growing Area WC has had no changes in pollution sources or water quality during the review period, and no changes in classifications are required at this time.



Attachment A. Key to water quality table headers.

Station = water quality monitoring station

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

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

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

Geo_Mean = means the antilog (base 10) of the arithmetic mean of the sample result logarithm (base 10).

SDV = standard deviation

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

P90 = 90th percentile

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

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