



**GROWING AREA ED
Isle au Haut
ANNUAL REVIEW for 2010**

Report Date: 03-28-2012

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APPROVAL

Division Director:

A handwritten signature in blue ink, appearing to read "Kohl Kanwit", written over a light blue rectangular background.

Kohl Kanwit

3/28/12

Print name

signature

Date: _____



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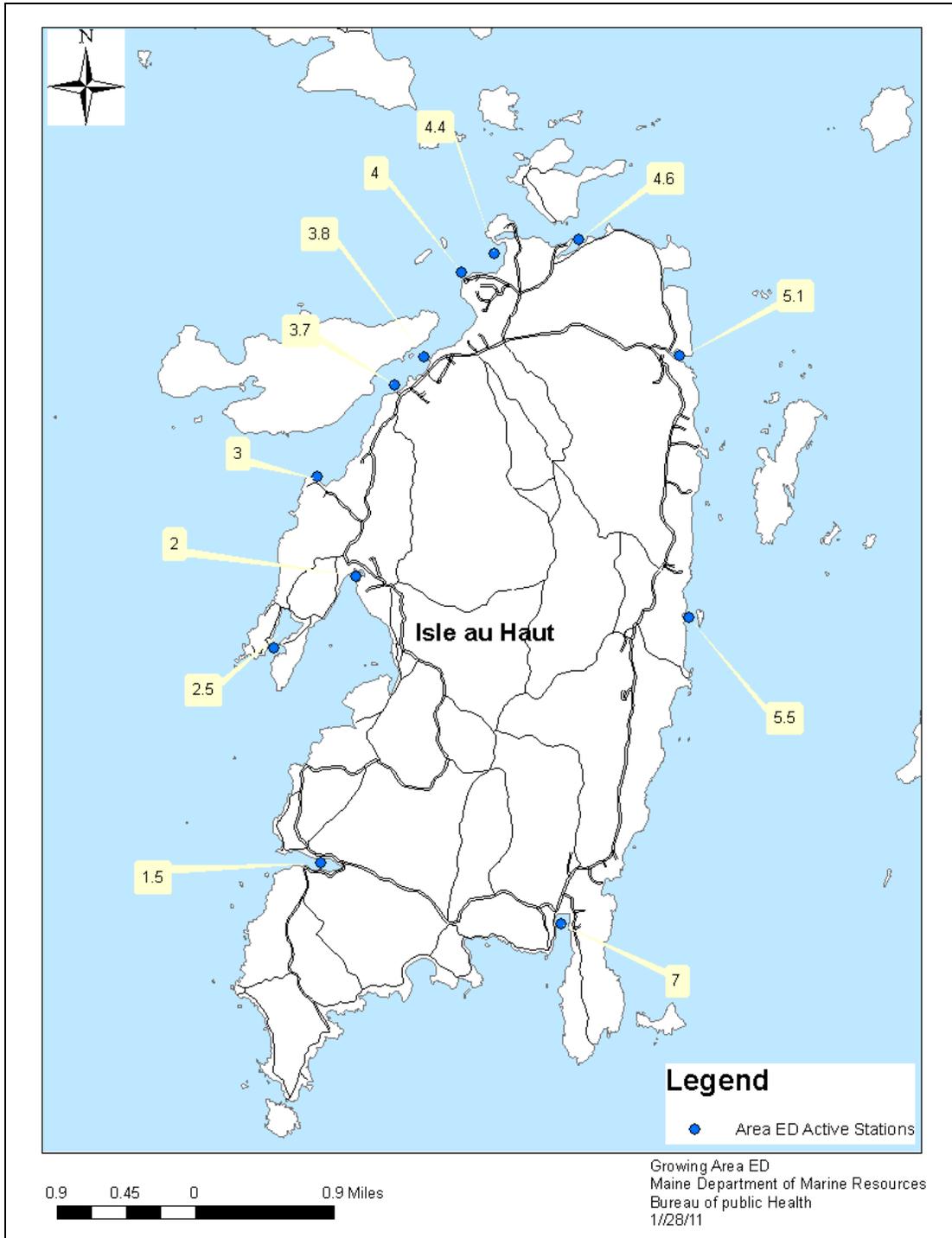
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Figure 1. Growing Area ED, with Active Water Stations





Executive Summary

This is an annual report for growing area ED written in compliance with the requirements of the 2009 Model Ordinance and the National Shellfish Sanitation Program.

No changes in classification are needed as a result of the current year end review. There were no new pollution sources identified during the review year. No new stations were added or deactivated and water quality continues to meet its classification standards.

The next triennial report is due in 2015; the next sanitary survey report is due in 2012.

Growing Area Description

Isle au Haut is a large (6 miles x 3 miles; 5500 acres) offshore island, located south of the Hancock County fishing village of Stonington, Maine. Winter population is less than 80 people, while summer resident numbers average approximately 300 individuals. Land use is limited to small farms, seasonal structures and near-shore fishing. Isle au Haut is reached by private ferry/barge service and most of the roads are town owned. Acadia National Park occupies the southern half of the island (2860 acres) and the use is limited to a small number of visitors per day with the largest use in the summer months. There are no licensed overboard discharges (OBD's), sewage treatment plants, or other pollution sources located in this growing area and at this time the entire growing area is classified approved.

Current Classification(s)

At the end of the 2010 review year, shellfish growing area ED had areas classified as:

Approved: 12 stations: ED 1.5, 2, 2.5, 3, 3.7, 3.8, 4, 4.4, 4.6, 5.1, 5.5 and 7

Please visit the DMR website to view legal notices:

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

Activity during Review Period

No new pollution sources were identified during the random boat sampling runs of this area in 2010. No changes in classification have occurred during this review period.

Water Quality Review and Discussion

Table 1 lists all stations in growing area ED, with their respective geomean and P90 calculations for 2010. Please refer to Appendix A for a key to interpreting the headers on the columns of



Table 1. The approved 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 versus 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. All approved stations met their NSSP classification standard in 2010.

Table 1. Growing Area ED Water Quality Report for 2010

Station	Class	Count	MFCnt	GM	SDV	MAX	P90	Appd_Std
ED001.50	A	30	26	2	0.06	2.9	2.4	32
ED002.00	A	30	26	2.1	0.11	5.4	3	32
ED002.50	A	30	26	2	0.07	3.6	2.5	32
ED003.00	A	30	26	2	0.06	2.9	2.4	32
ED003.70	A	30	26	2	0.06	2.9	2.4	32
ED003.80	A	30	26	2	0.08	4	2.6	32
ED004.00	A	30	26	2	0.06	2.9	2.4	32
ED004.40	A	30	26	2	0.06	2.9	2.4	32
ED004.60	A	30	26	2	0.07	3.6	2.5	32
ED005.10	A	30	26	2.1	0.14	10	3.2	32
ED005.50	A	30	26	2	0.06	2.9	2.4	32
ED007.00	A	30	26	2.1	0.13	8	3.2	32

All stations that were active at the beginning of 2010 were sampled at least 6 times following the systematic random sampling (SRS) schedule (Table 2).

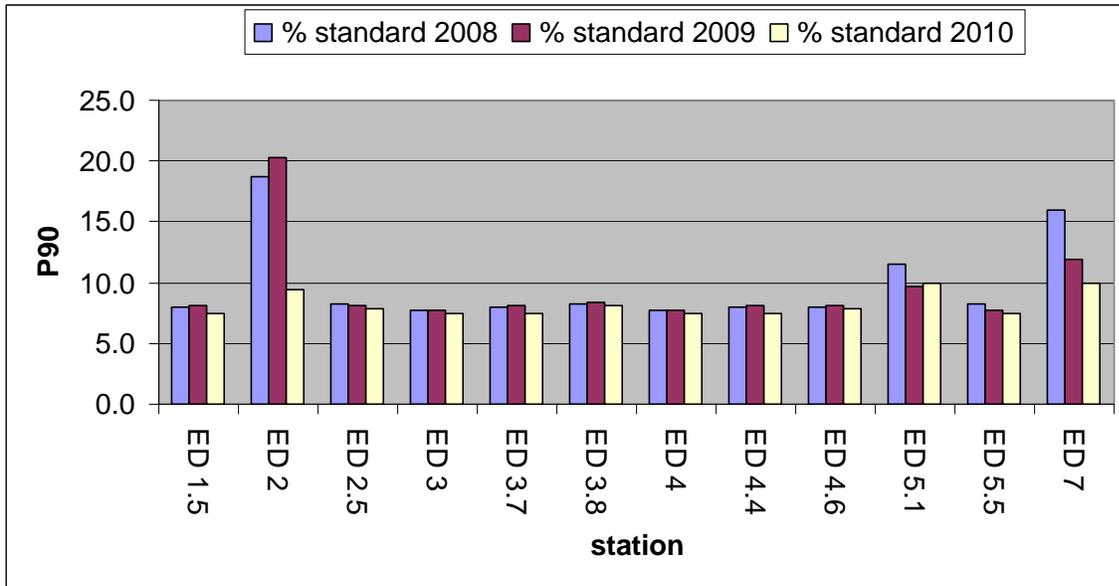
Table 2. Sample Effort for 2010

Station	Class	Random	Total
		Open	
ED001.50	A	6	6
ED002.00	A	6	6
ED002.50	A	6	6
ED003.00	A	6	6
ED003.70	A	6	6
ED003.80	A	6	6
ED004.00	A	6	6
ED004.40	A	6	6
ED004.60	A	6	6
ED005.10	A	6	6
ED005.50	A	6	6
ED007.00	A	6	6

Over the past three review years, water quality trends in this growing area have remained uniform and well below the standard for approved harvest (Figure 2).



Figure 2. Area ED P90 trends, 2008-2010



Shoreline Survey Activity

This growing area is observed during all boats runs for any changes or possible impacts to the growing area. Being a small island community with a limited year round population, changes are infrequent. Acadia National Park owns the southern half of the island and maintains hiking trails, remote campsites and three composting toilets near Duck Harbor. The area immediately near the landing is inspected every year during random boat runs to check the status and functionality of the 3 composting toilets located in this area. They were inspected on the boat run that occurred on August 10, 2010 by DMR and no problems were found.



Appendix A. Key to Water Quality Table Headers

Station = water quality monitoring station

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

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

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

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

SDV = standard deviation

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

P90 = 90th percentile

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