

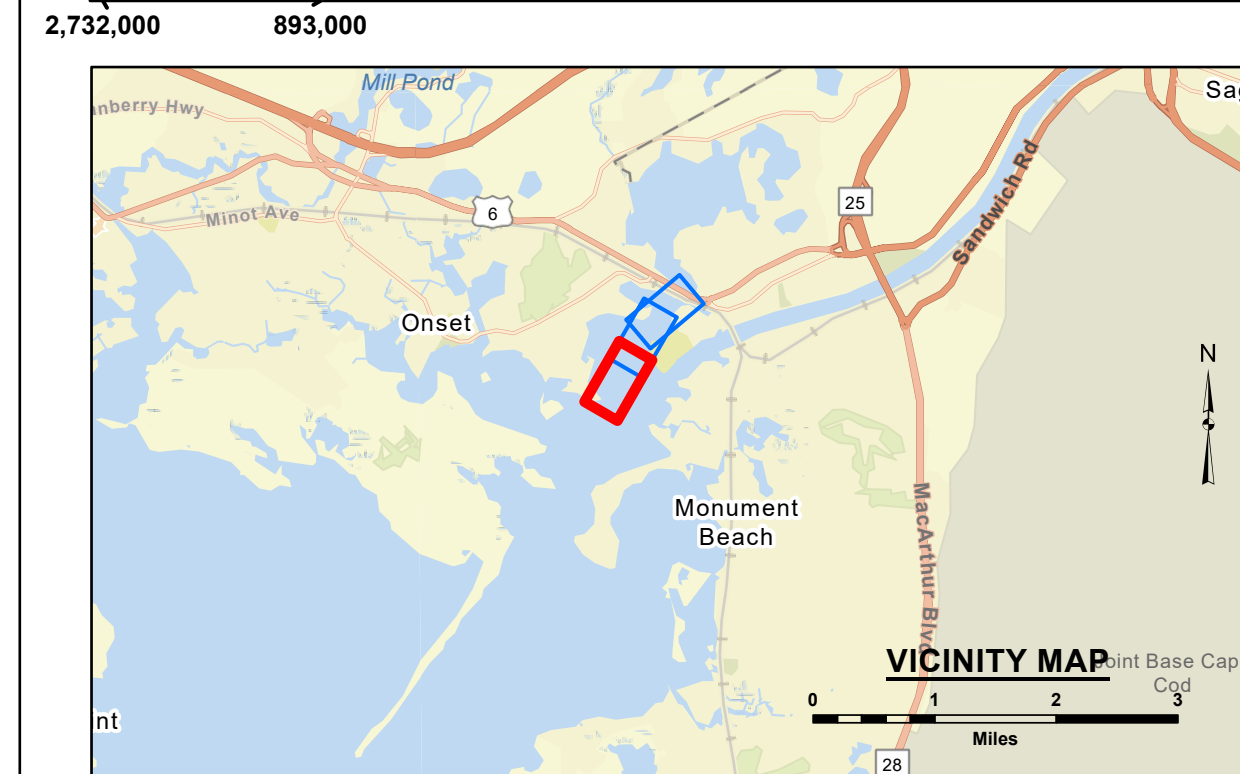


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U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SUBMITTED BY: Barrett Morse	SURVEYED BY: NCD
		APPROVED BY: NAE Survey	CHECKED BY: ZSM
SIZE: ANSI D	MAP DOCUMENT: MA_50_301_24062624_05_064		ISSUE DATE: 9/29/2026

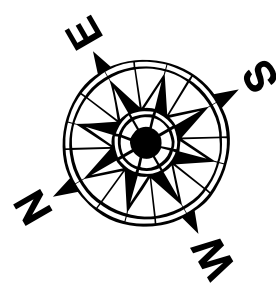
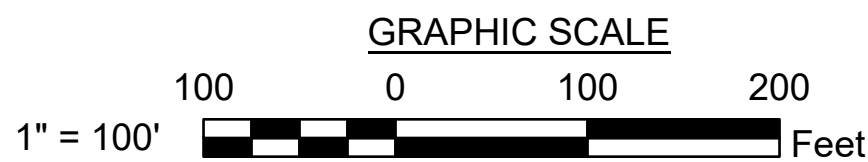
File Name: MA_66_BUT_20260923_CS_064

**SHEET
IDENTIFICATION**
Buttermilk Bay
Channel
Sheet 1 of 3



- | <u>LEGEND</u> | |
|--------------------------------|--------------------------|
| --- Federal Navigation Channel | ✕ Fixed Navigation Aids |
| - - - Channel Center Line | ! Red Navigation Buoy* |
| Cable or Pipe Area | ! Green Navigation Buoy* |
| — Contour Line | ■ Shoaling Area |
| ⊗ Obstruction Point | ● Shoalest Sounding** |

** Shoalest Sounding per Quarter per Reach
* Present at time of survey



Notes:
Horizontal Datum: Mass Mairland, MA-2001 N
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: SV KEEGAN
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 200-300 kHz
Survey Method: RTK GPS Tide
GPS_System: Applanix POS MV
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 30'
Field Books: R&H 4987
Survey No.: MA_58_BUT_20260923_CS_064
Reference NOAA Chart No.: USSMA1HK

The information depicted on these charts represents the results of surveys made on the dates indicated, and can only be considered as indicating the conditions existing at that time.

General Notes

The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during SEPTEMBER 2026. The positions of aids to navigation were located during survey operations, are provided for information only and should not be used for navigation. Orthoimagery is from a variety of sources and dates and is intended to portray general characteristics of the shoreline and other features. The map is not intended to be used as a navigational aid. Data collected and some parts may no longer be an accurate representation of the conditions. The information depicted on this map should NOT be used to determine volumes as volumes are determined from more sounding information than shown.

Project Remarks

None

Water Level Information

Tides were recorded using RTK GPS. NAVD88 to MLLW corrections were logged utilizing NOAA's V-Datum regional model Maine/New Hampshire/Massachusetts Version 2.3. The NAVD88 to MLLW correction values for the project range from 2.29 to 2.35 feet. MLLW is below NAVD88; therefore, the correction should be added to NAVD88 to convert to MLLW (e.g. -10 NAV88 = -8 MLLW when using a 2-foot correction).

