





**LEGEND**

--- Federal Navigation Channel

..... Cable or Pipeline area

--- Channel Center Line

— Contour Line

— Marine Infrastructure\*

✕ Fixed Navigation Aids

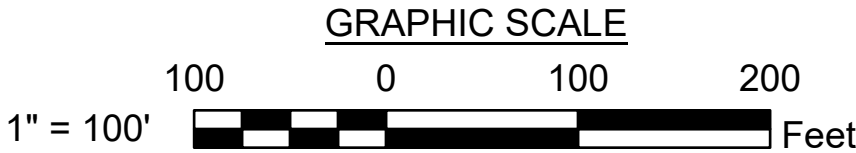
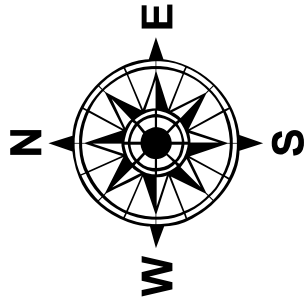
! Red Navigation Buoy

! Green Navigation Buoy

■ Shoaling Area

● Shoalest Sounding\*\*

\*\* Shoalest Sounding per Quarter per Reach  
\* Present at time of Survey



**Notes:**  
Horizontal Datum: Mass Mainland, MA-2001 NAD 83  
Distance Units: U.S. Survey Feet  
Vertical Datum: MLLW  
Depth Units: U.S. Survey Feet  
Vessel Name: KEEGAN  
Sonar System: Reson T50 (Multibeam Sonar)  
Sounding Frequency: 400 kHz  
Survey Method: RTK GPS Tides  
GPS System: Trimble SPS 855 (RTK)  
RTK Base Station: "Tidal 03" (1972)  
Software Used: Hypack  
Sounding Sort Distance: 20'  
Field Books: R&H 4983  
Survey No.: MA\_32\_GRE\_20240423\_BD\_051  
Reference NOAA Chart No.: USSMA1MK, US5MA1MJ

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 APRIL 2024. The positions of aids to navigation were located during survey operations, are provided for information only and should not be used for navigation. Orthomagery is from a variety of sources and dates and is intended to portray general characteristics of the shoreline and other features. Temporal changes may have occurred since this dataset was 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**  
Federal Navigation Project not surveyed in its entirety.

**Water Level Information**  
Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project were obtained using NOAA's V-Datum Program. The V-Datum corrections range 5.31 feet to 5.34 feet, and are referenced from NAVD88 to above MLLW. Therefore, the correction should be added to NAVD88 to convert to MLLW. Mean Range of Tide is 9.08 feet. No tide gauges were used on this project.

US Army Corps of Engineers  
District: CENAE

**DISCLAIMER**  
Access Constraints: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were provided. The recipient may not transfer these data to others without also transferring the Disclaimer.

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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: WHW	
SIZE: ANS/D	MAP DOCUMENT: MA_32_GRE_20240423_BD_051		ISSUE DATE: 4/30/2024

GREEN HARBOR, MASSACHUSETTS  
BEFORE DREDGE SURVEY  
8 AND 6-FOOT CHANNELS  
6-FOOT ANCHORAGES

File Name: MA\_32\_GRE\_20240423\_BD\_051

SHEET  
IDENTIFICATION  
Green Harbor

Sheet 2 of 2