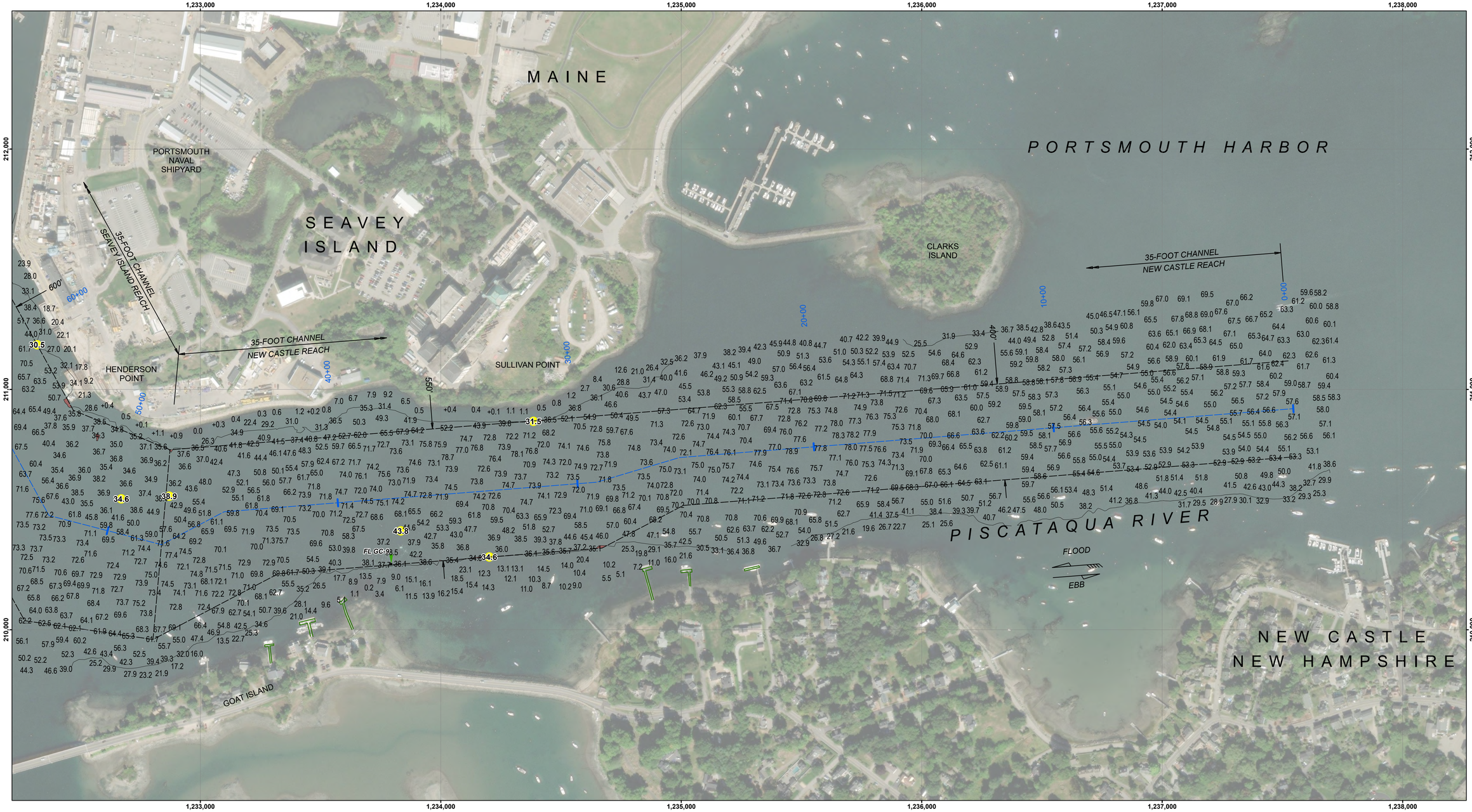
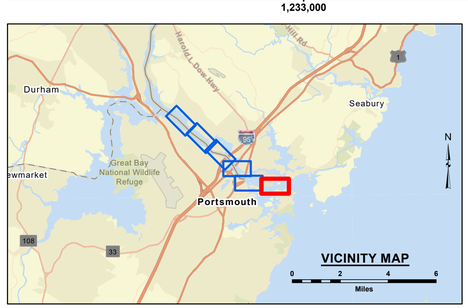




LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Borrow or Placement Area
- Hard Material Area
- Fixed Navigation Aids
- Obstruction Point
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

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

GRAPHIC SCALE

1" = 200' (200 0 200 400 Feet)

N W E S

Notes:

Horizontal Datum: New Hampshire, NH-2800 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS_System: Applanix POS MV (RTK)
RTK Base Station: 4 Tree(2024), Dead Duck (2024)
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4985
Survey No.: NH_01_PIS_20250226_CS_002
Reference NOAA Chart No.: ENC US5NH1CD & US5PSMCD & US5PSMCC

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Project Remarks

Marine infrastructure surveyed with Lidar.

Water Level Information

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US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: MJV
CHECKED BY: WHW
ISSUE DATE: 3/25/2025
SIZE: ANSI D
MAP DOCUMENT: NH_01_PIS_20250226_CS_002

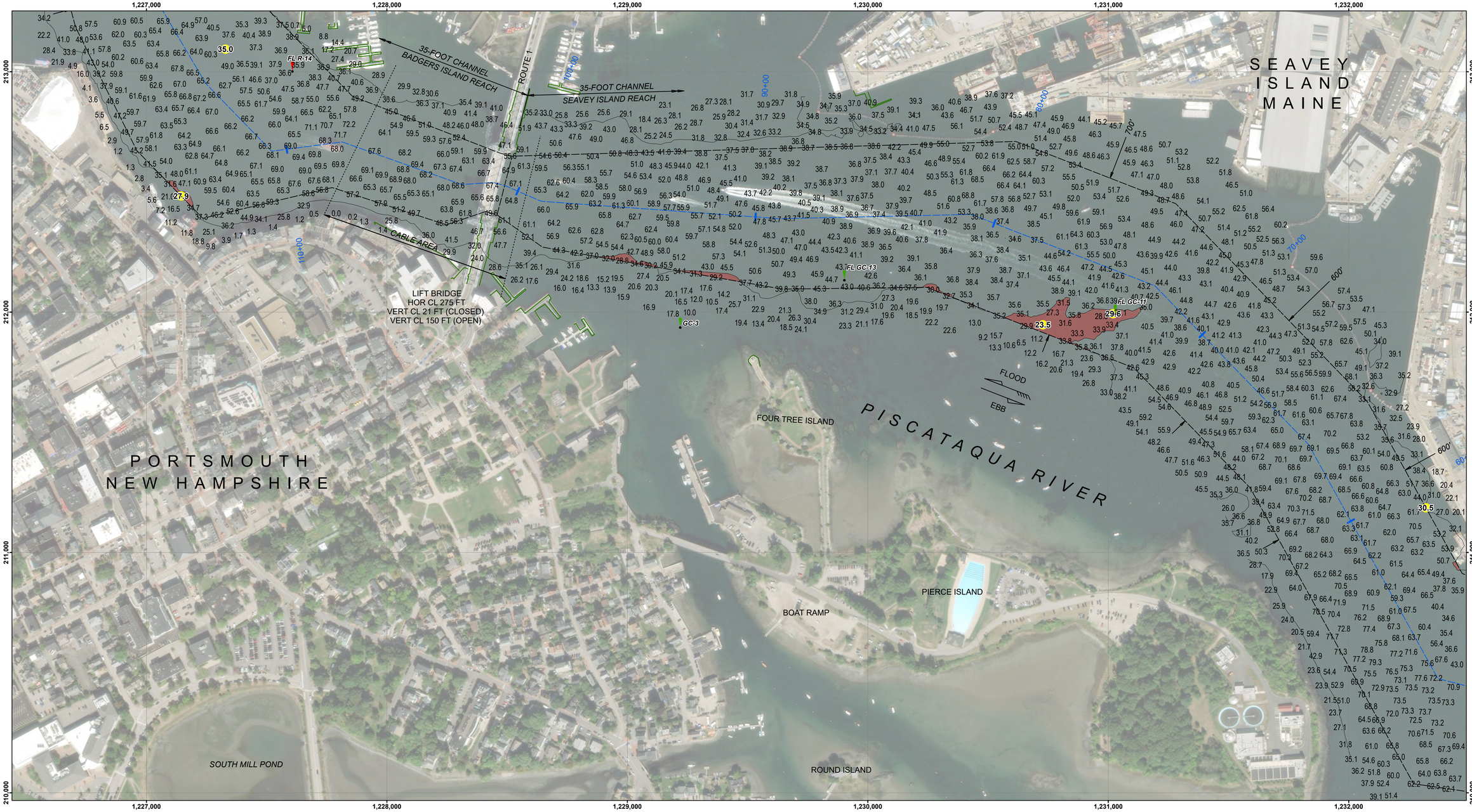
PORTSMOUTH HARBOR AND PISCATAQUA RIVER NEW HAMPSHIRE AND MAINE CONDITION SURVEY

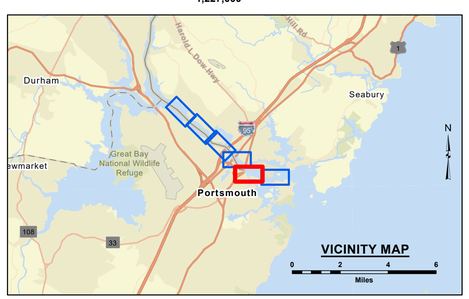
35-FOOT CHANNEL AND TURNING BASINS

File Name: NH_01_PIS_20250226_CS_002

SHEET IDENTIFICATION
Portsmouth Harbor and Piscataqua
Sheet 1 of 6

Revison Number: 5.24.09.03-5.24.09.03





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Borrow or Placement Area
- Hard Material Area
- Fixed Navigation Aids
- Obstruction Point
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

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

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

N W E S

Notes:

Horizontal Datum: New Hampshire, NH-2800 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS_System: Applanix POS MV (RTK)
RTK Base Station: 4 Tree(2024), Dead Duck (2024)
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4985
Survey No.: NH_01_PIS_20250226_CS_002
Reference NOAA Chart No.: ENC US5NH1CD & US5PSMCD & US5PSMCC

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Project Remarks

Marine infrastructure surveyed with Lidar.

Water Level Information

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US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: MJV
CHECKED BY: WHW
ISSUE DATE: 3/25/2025
SIZE: ANSI D
MAP DOCUMENT: NH_01_PIS_20250226_CS_002

PORTSMOUTH HARBOR AND PISCATAQUA RIVER NEW HAMPSHIRE AND MAINE CONDITION SURVEY

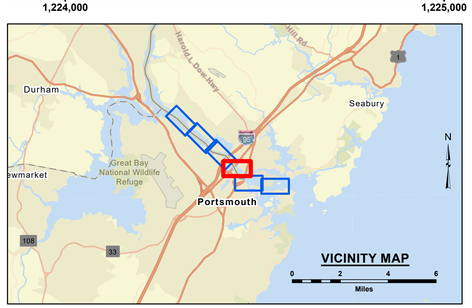
35-FOOT CHANNEL AND TURNING BASINS

File Name: NH_01_PIS_20250226_CS_002

SHEET IDENTIFICATION
Portsmouth Harbor and Piscataqua
Sheet 2 of 6

Revison Number: 5.24.09.03-5.24.09.03





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Borrow or Placement Area
- Hard Material Area
- Fixed Navigation Aids
- Obstruction Point
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

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

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

N W E S

Notes:

Horizontal Datum: New Hampshire, NH-2800 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS_System: Applanix POS MV (RTK)
RTK Base Station: 4 Tree(2024), Dead Duck (2024)
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4985
Survey No.: NH_01_PIS_20250226_CS_002
Reference NOAA Chart No.: ENC US5NH1CD & US5PSMCD & US5PSMCC

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US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SURVEYED BY: MJV
CHECKED BY: WHW
ISSUE DATE: 3/25/2025
SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SIZE: ANSI D
MAP DOCUMENT: NH_01_PIS_20250226_CS_002

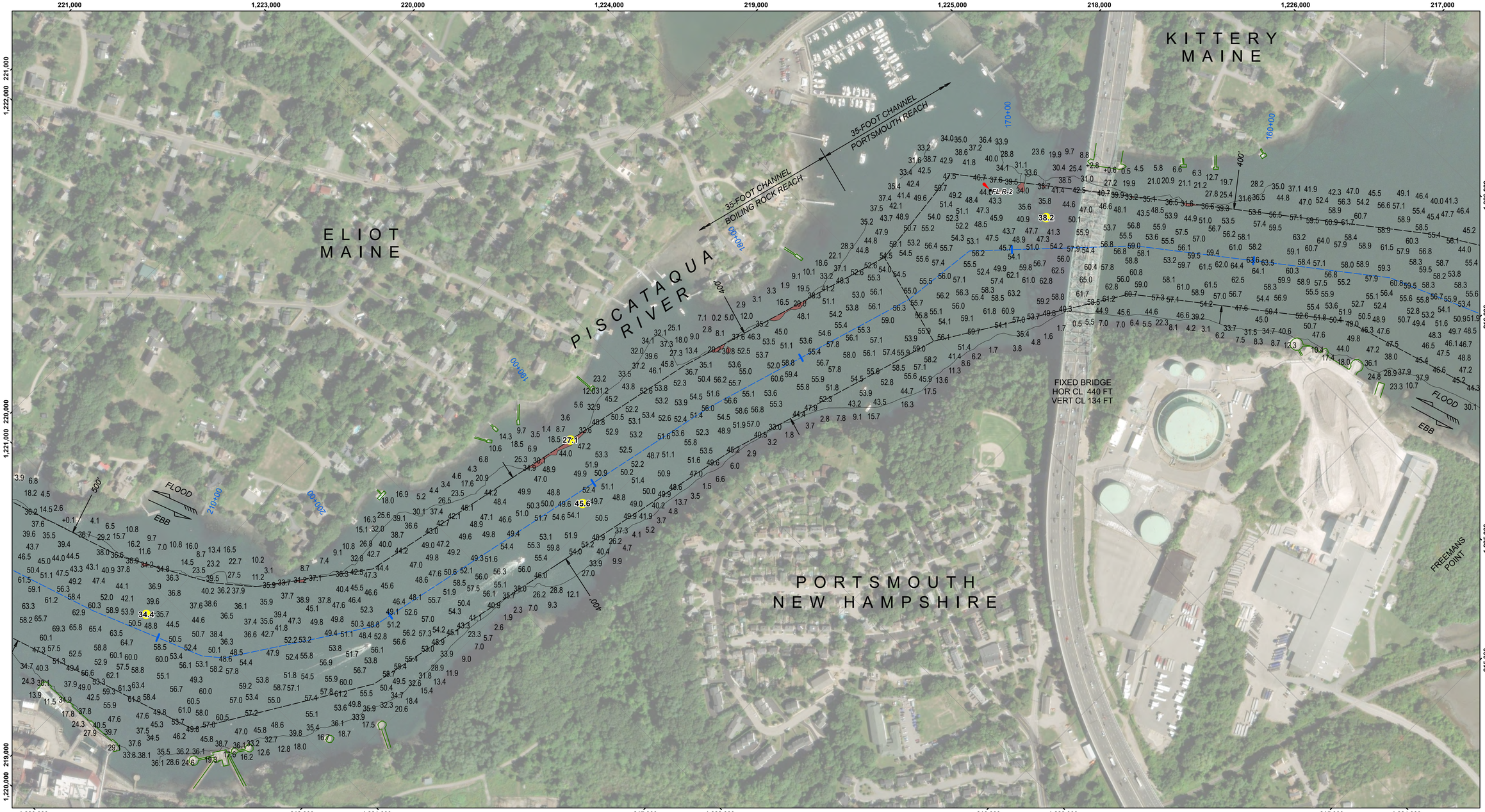
PORTSMOUTH HARBOR AND PISCATAQUA RIVER NEW HAMPSHIRE AND MAINE CONDITION SURVEY

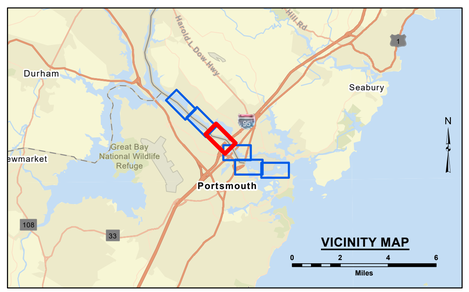
35-FOOT CHANNEL AND TURNING BASINS

File Name: NH_01_PIS_20250226_CS_002

SHEET IDENTIFICATION
Portsmouth Harbor and Piscataqua
Sheet 3 of 6

Revison Number: 5.24.09.03-5.24.09.03





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Borrow or Placement Area
- Hard Material Area
- Fixed Navigation Aids
- Obstruction Point
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

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

GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

N E S W

Notes:

Horizontal Datum: New Hampshire, NH-2800 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
Survey Method: RTK GPS Tides
GPS_System: Applanix POS MV (RTK)
RTK Base Station: 4 Tree(2024), Dead Duck (2024)
Software Used: Hypack
Sounding Sort Distance: 50'
Field Books: R&H 4985
Survey No.: NH_01_PIS_20250226_CS_002
Reference NOAA Chart No.: ENC US5NH1CD & US5PSMCD & US5PSMCC

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Project Remarks

Marine infrastructure surveyed with Lidar.

Water Level Information

Tides were recorded using RTK GPS. NAVD88 to MLLW corrections were logged utilizing a Hypack KTD file. The corrections in the project area range from 3.93 feet to 5.00 feet from Newcastle Reach to the Turning Basin. 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).

US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: MJV
CHECKED BY: WHW
ISSUE DATE: 3/25/2025
SIZE: ANSI D
MAP DOCUMENT: NH_01_PIS_20250226_CS_002

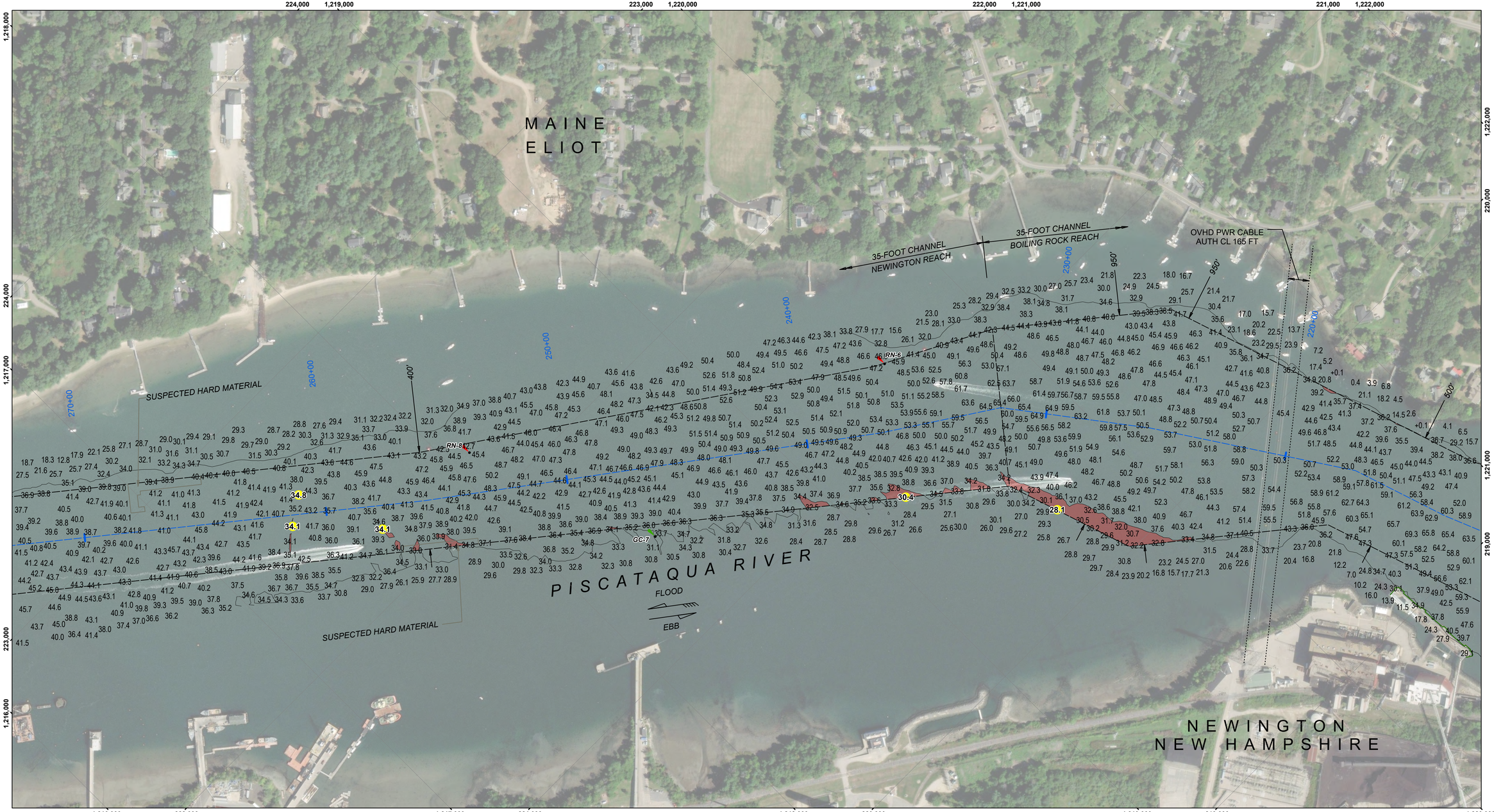
PORTSMOUTH HARBOR AND PISCATAQUA RIVER NEW HAMPSHIRE AND MAINE CONDITION SURVEY

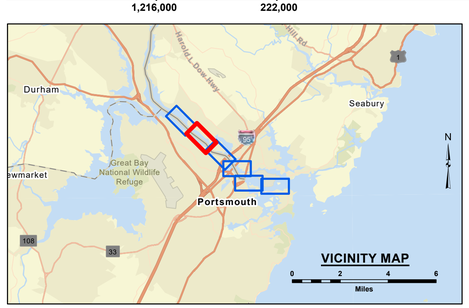
35-FOOT CHANNEL AND TURNING BASINS

File Name: NH_01_PIS_20250226_CS_002

SHEET IDENTIFICATION
Portsmouth Harbor and Piscataqua
Sheet 4 of 6

Revison Number: 5.24.09.03-5.24.09.03





LEGEND

- Federal Navigation Channel
- Channel Center Line
- Cable or Pipeline Area
- Contour Line
- Marine Infrastructure*
- Borrow or Placement Area
- Hard Material Area
- Fixed Navigation Aids
- Obstruction Point
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding**

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

GRAPHIC SCALE
200 0 200 400
1" = 200' Feet

N E S W

Notes:
Horizontal Datum: New Hampshire, NH-2800 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Celestial
Sonar System: R2 Sonic 2024 (Multibeam Sonar)
Sounding Frequency: 300 kHz
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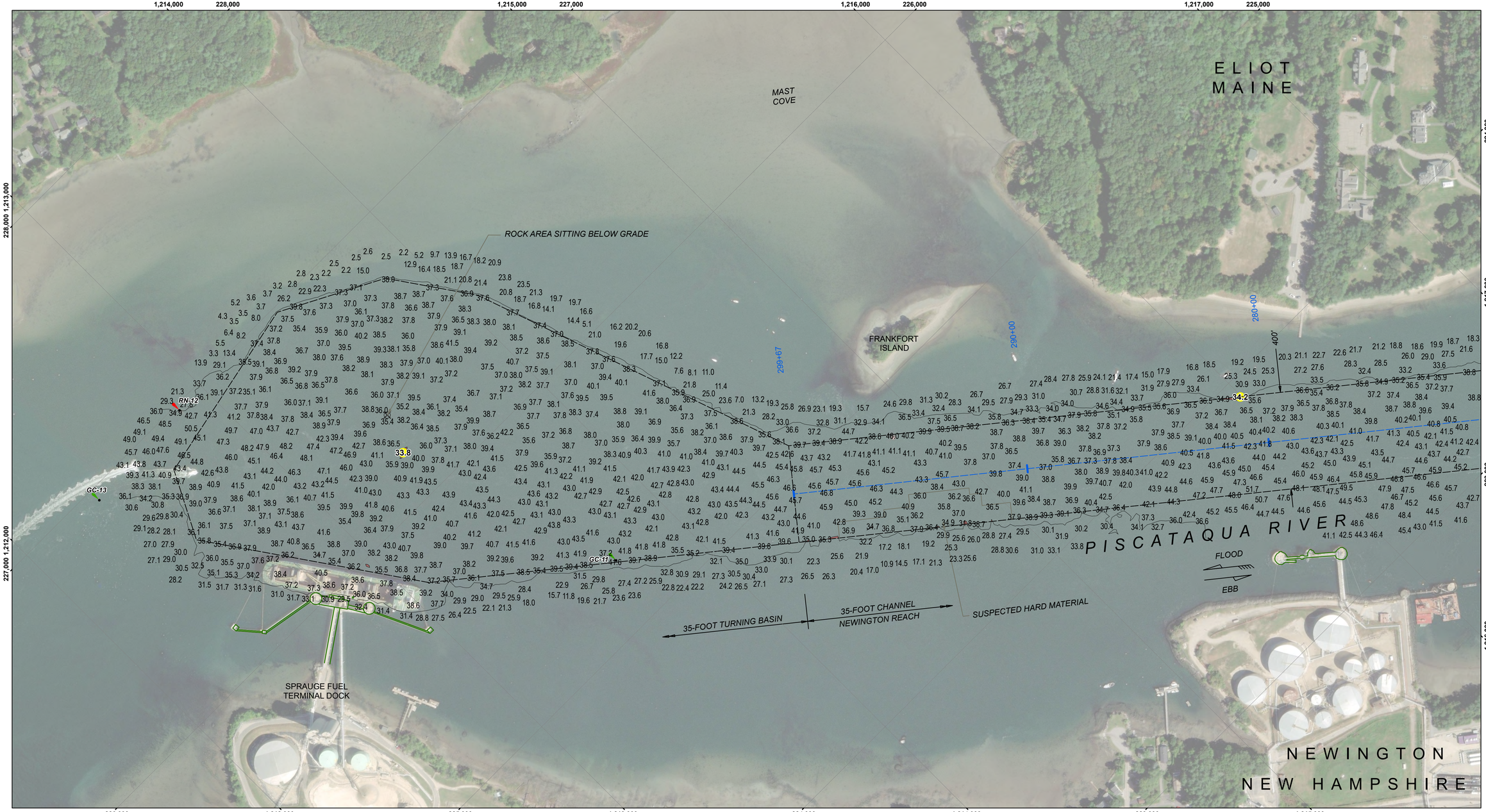
Project Remarks
Marine infrastructure surveyed with Lidar.

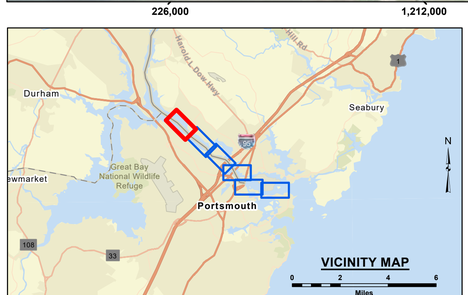
Water Level Information
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US Army Corps of Engineers
District: CENAE

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LEGEND

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GRAPHIC SCALE

200 0 200 400

1" = 200' Feet

N E S W

Notes:

Horizontal Datum: New Hampshire, NH-2800 NAD 83
Distance Units: U.S. Survey Feet
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Survey No.: NH_01_PIS_20250226_CS_002
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US Army Corps of Engineers
District: CENAE

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

SUBMITTED BY: Joshua Bromberg
APPROVED BY: NAE Survey
SURVEYED BY: MJV
CHECKED BY: WHW
ISSUE DATE: 3/25/2025
SIZE: ANSI D
MAP DOCUMENT: NH_01_PIS_20250226_CS_002

PORTSMOUTH HARBOR AND PISCATAQUA RIVER NEW HAMPSHIRE AND MAINE CONDITION SURVEY

35-FOOT CHANNEL AND TURNING BASINS

File Name: NH_01_PIS_20250226_CS_002

SHEET IDENTIFICATION
Portsmouth Harbor and Piscataqua
Sheet 6 of 6

Revison Number: 5.24.09.03-5.24.09.03