

**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: POOPHAM BEACH  
 Sonar System: ODOM MK 3 (Singlebeam Sonar)  
 Sounding Frequency: 200 kHz  
 Survey Method: RTK GPS Tides  
 GPS System: Trimble GPS 855 (RTK)  
 RTK Base Station: MTS Smartnet Max  
 Software Used: Hypack  
 Sounding Sort Distance: 10'  
 Field Books: R&H 4965  
 Survey No.: COC\_CS\_2019\_041  
 Reference NOAA Chart No.: 13285

**General Notes**  
 The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during May 2019. The sounding information depicted on this map represents the results of surveys made on the dates indicated, and can only be considered as indicating the conditions existing at that time. 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. 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

**Project Remarks**  
 None

**Water Level Information**  
 Tides were recorded using RTK GPS. The MLLW to NAVD88 correction used for this project is 3.97'. This correction is derived from NOAA Bench Marks at Dover, Cocheco River (Station ID 8420411, 04/26/1999). NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

**SHEET IDENTIFICATION**  
 Cocheco River  
 Sheet 1 of 10

Revised Number: 4.0-20190322

<b>U.S. ARMY CORPS OF ENGINEERS</b>	
NEW ENGLAND DISTRICT	
SURVEYED BY: RWP	ISSUED BY: RWP
CHECKED BY: WMM	ISSUE DATE: 7/1/2019
APPROVED BY: NAE Survey	MAP DOCUMENT: NH_03_COC_2019051_CS_2019_041
SIZE: ANSI D	FILE NAME: File Name: NH_03_COC_2019051_CS_2019_041

**COCHECO RIVER,  
DOVER, NEW HAMPSHIRE  
CONDITION SURVEY  
7-FOOT CHANNEL  
(MAINTAINED TO 5.5 FEET)**

File Name: NH\_03\_COC\_2019051\_CS\_2019\_041

Revision Number: 4.0-20190322

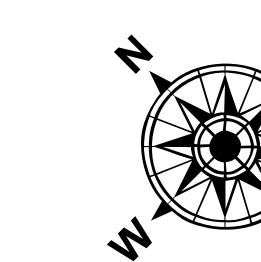
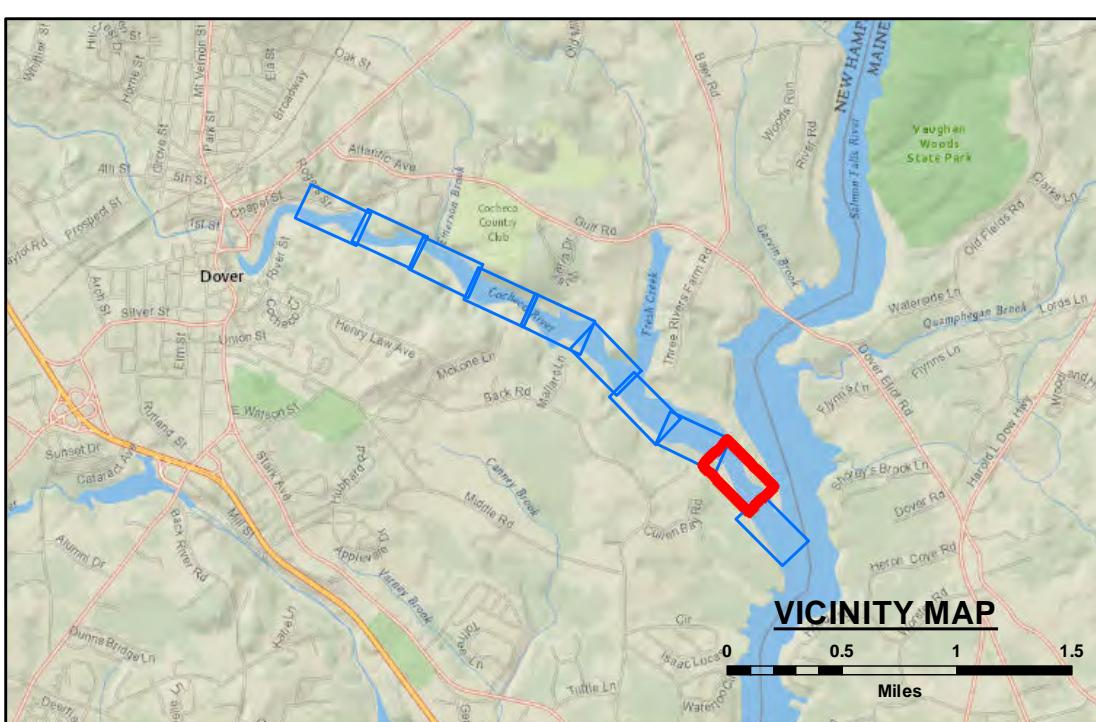
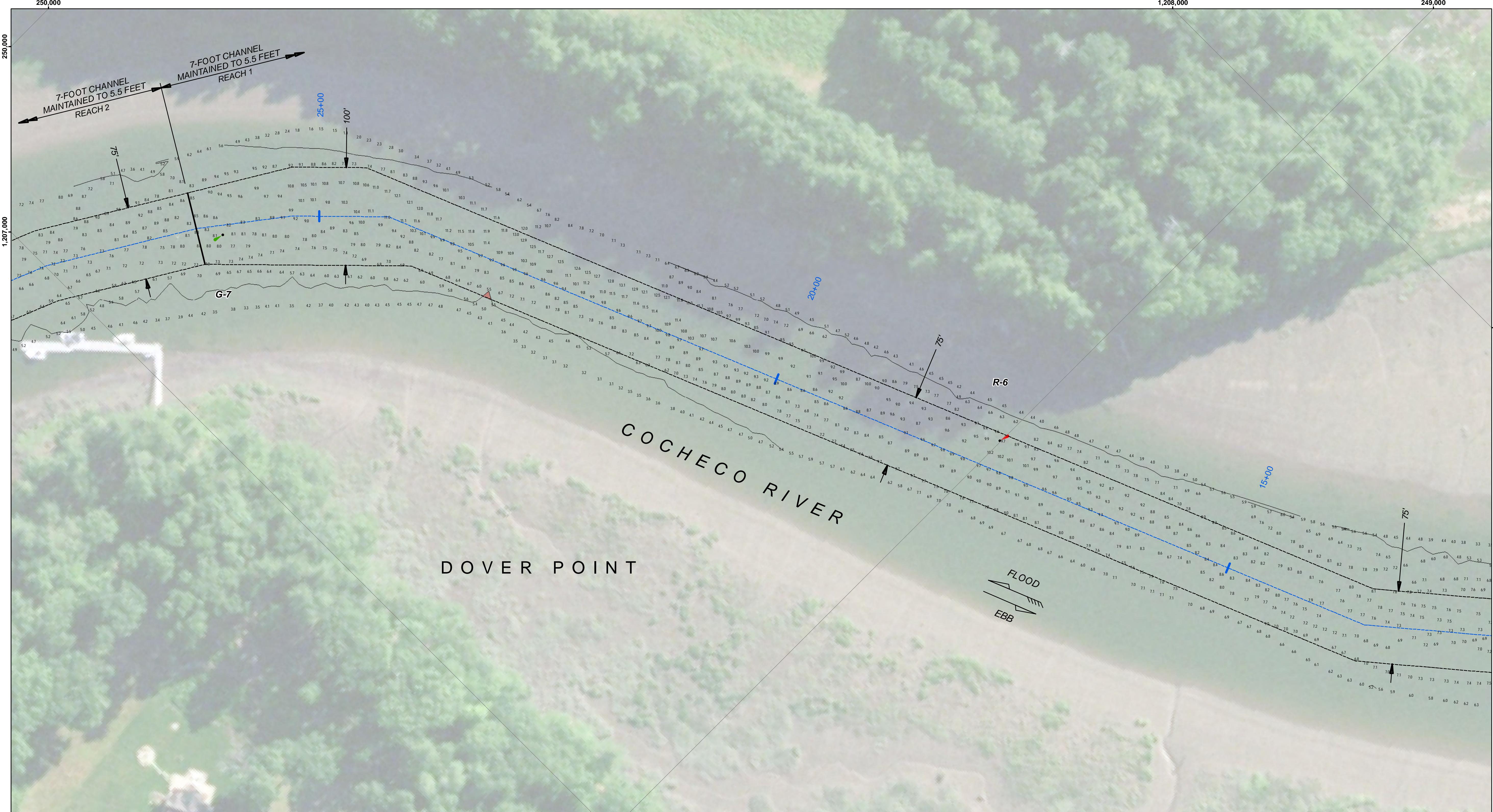
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**Notes:**  
 Horizontal Datum: New Hampshire, NH-2800 NAD 83  
 Distance Units: U.S. Survey Feet  
 Vertical Datum: MLLW  
 Depth Units: U.S. Survey Feet  
 Vessel Name: POOPHAM BEACH  
 Sonar System: ODOM MK 3 (Singlebeam Sonar)  
 Sounding Frequency: 200 kHz  
 Survey Method: RTK GPS Tides  
 GPS System: Trimble GPS 855 (RTK)  
 RTK Base Station: MTS Smartnet Max  
 Software Used: Hypack  
 Sounding Sort Distance: 10'  
 Field Books: R&H 4965  
 Survey No.: COC\_CS\_2019\_041  
 Reference NOAA Chart No.: 13285

**General Notes**  
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**Project Remarks**  
 None

**Water Level Information**  
 Tides were recorded using RTK GPS. The MLLW to NAVD88 correction used for this project is 3.97'. This correction is derived from NOAA Bench Marks at Dover, Cocheco River (Station ID 8420411, 04/26/1999). NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

**SHEET IDENTIFICATION**  
 Cocheco River  
 Sheet 2 of 10

Revised Number: 4.0-20190322

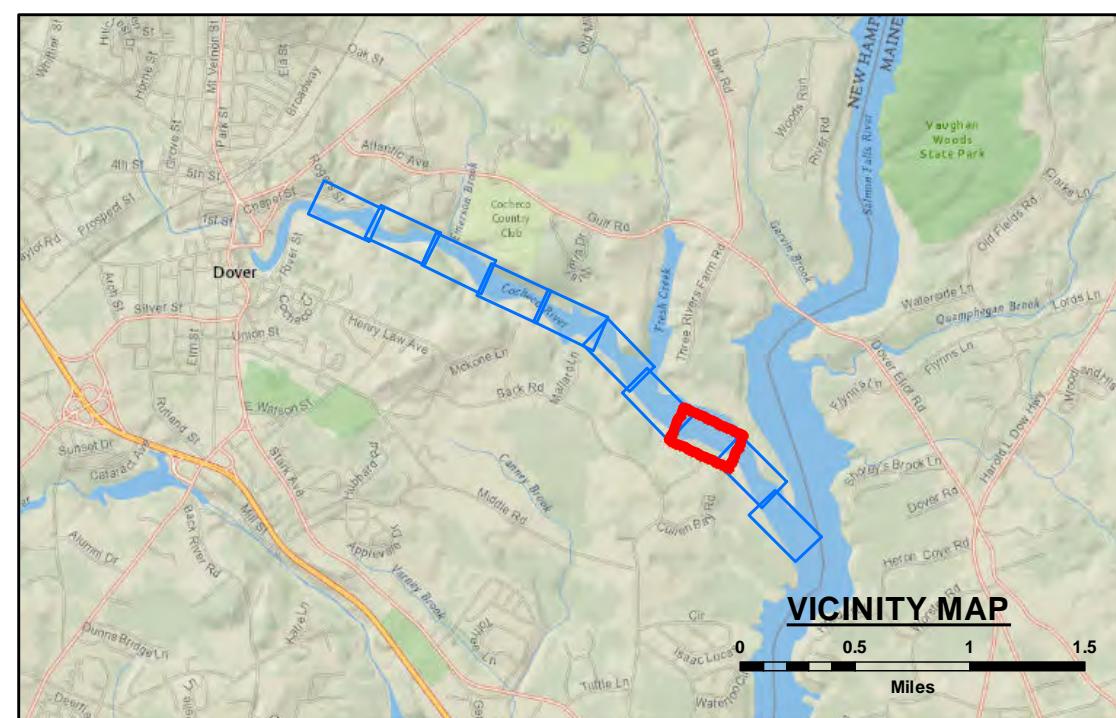
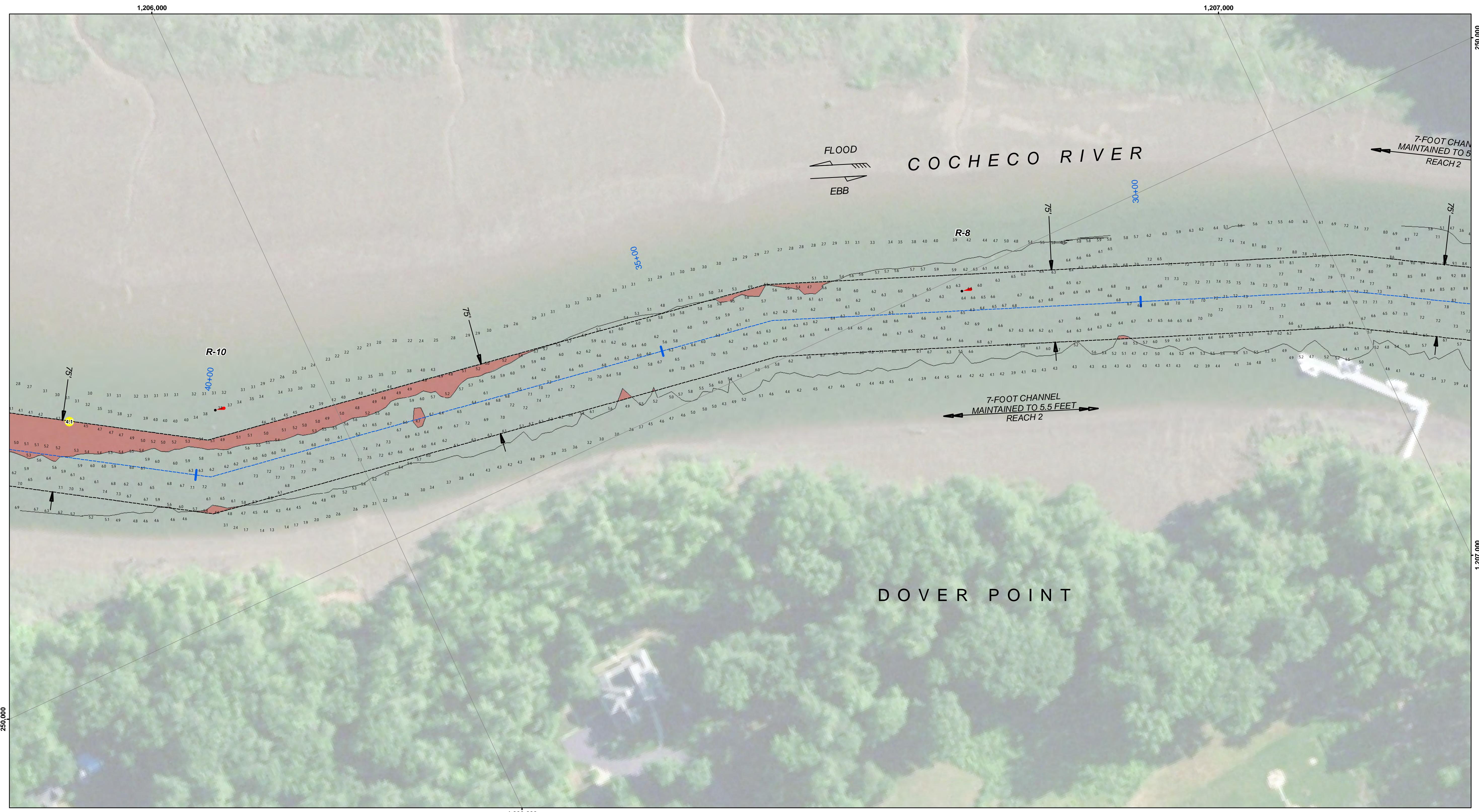
U.S. ARMY CORPS OF ENGINEERS	
NEW ENGLAND DISTRICT	
SURVEYED BY:	RWP
CHECKED BY:	WMM
APPROVED BY:	NME Survey
ISSUE DATE:	7/11/2019
MAP DOCUMENT:	NH_03_COC_20190501_CS_2019_041
SIZE:	ANSI D

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**US Army Corps of Engineers**  
 District: CENAE

**COCHECO RIVER,**  
**DOVER, NEW HAMPSHIRE**  
**CONDITION SURVEY**  
**7-FOOT CHANNEL**  
**(MAINTAINED TO 5.5-FEET)**

File Name: NH\_03\_COC\_20190501\_CS\_2019\_041



**LEGEND**

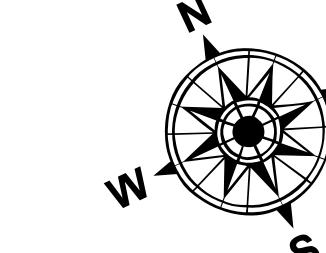
- Federal Navigation Channel
- - - Channel Center Line
- ..... Cable/Pipeline Area
- Pipes (Gas/Sewer)
- Contour Line
- ★ Fixed Navigation Aids
- ⊗ Obstruction Point
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Yellow Shoal Sounding\*\*

\*\* Shoal Sounding per Quarter per Reach

**GRAPHIC SCALE**

50 0 50 100 Miles

1" = 50' Feet



**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: POPHAM BEACH  
 Sonar System: ODOM MK 3 (Singlebeam Sonar)  
 Sounding Frequency: 200 kHz  
 Survey Method: RTK GPS Tides  
 GPS System: Trimble GPS 855 (RTK)  
 RTK Base Station: MTS Smartnet Max  
 Software Used: Hypack  
 Sounding Sort Distance: 10'  
 Field Books: R&H 4965  
 Survey No.: COC\_CS\_2019\_041  
 Reference NOAA Chart No.: 13285

**General Notes**

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**Project Remarks**

None

**Water Level Information**

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**COCHECO RIVER,  
DOVER, NEW HAMPSHIRE  
CONDITION SURVEY  
7-FOOT CHANNEL  
(MAINTAINED TO 5.5-FEET)**

File Name: NH\_03\_COC\_20190501\_CS\_2019\_041

**SHEET IDENTIFICATION**  
Cocheco River  
**Sheet 3 of 10**

Revision Number: 4.0-20190322

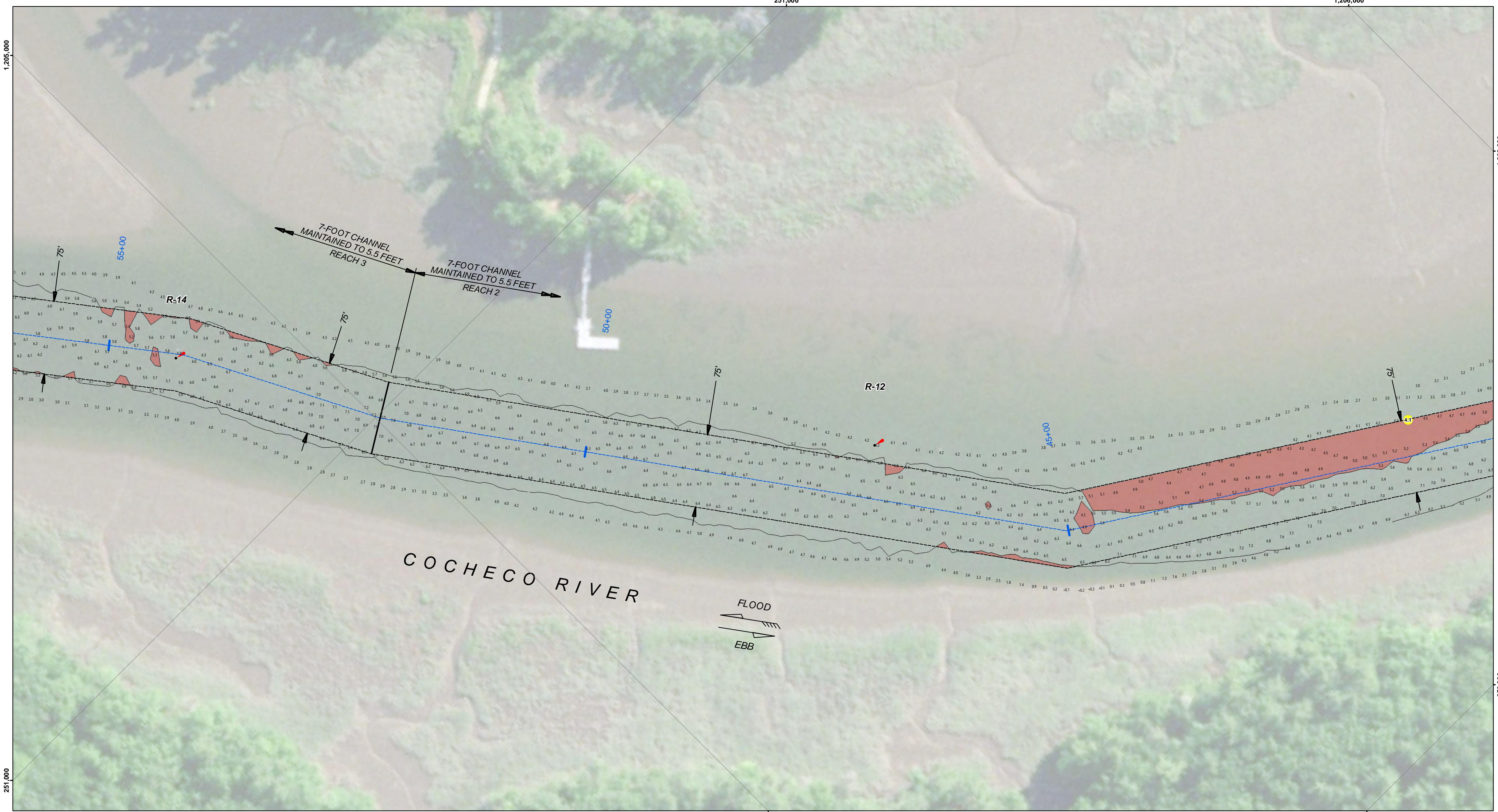
**US Army Corps  
of Engineers  
District: CENAE**

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**U.S. ARMY CORPS OF ENGINEERS  
NEW ENGLAND DISTRICT**

SURVEYED BY: RWP	ISSUE DATE: 7/11/2019
SUBMITTED BY: William Walker	CHECKED BY: WHW
APPROVED BY: NAE Survey	MAP DOCUMENT: NH_03_COC_20190501_CS_2019_041



US Army Corps of Engineers  
District: CENAE

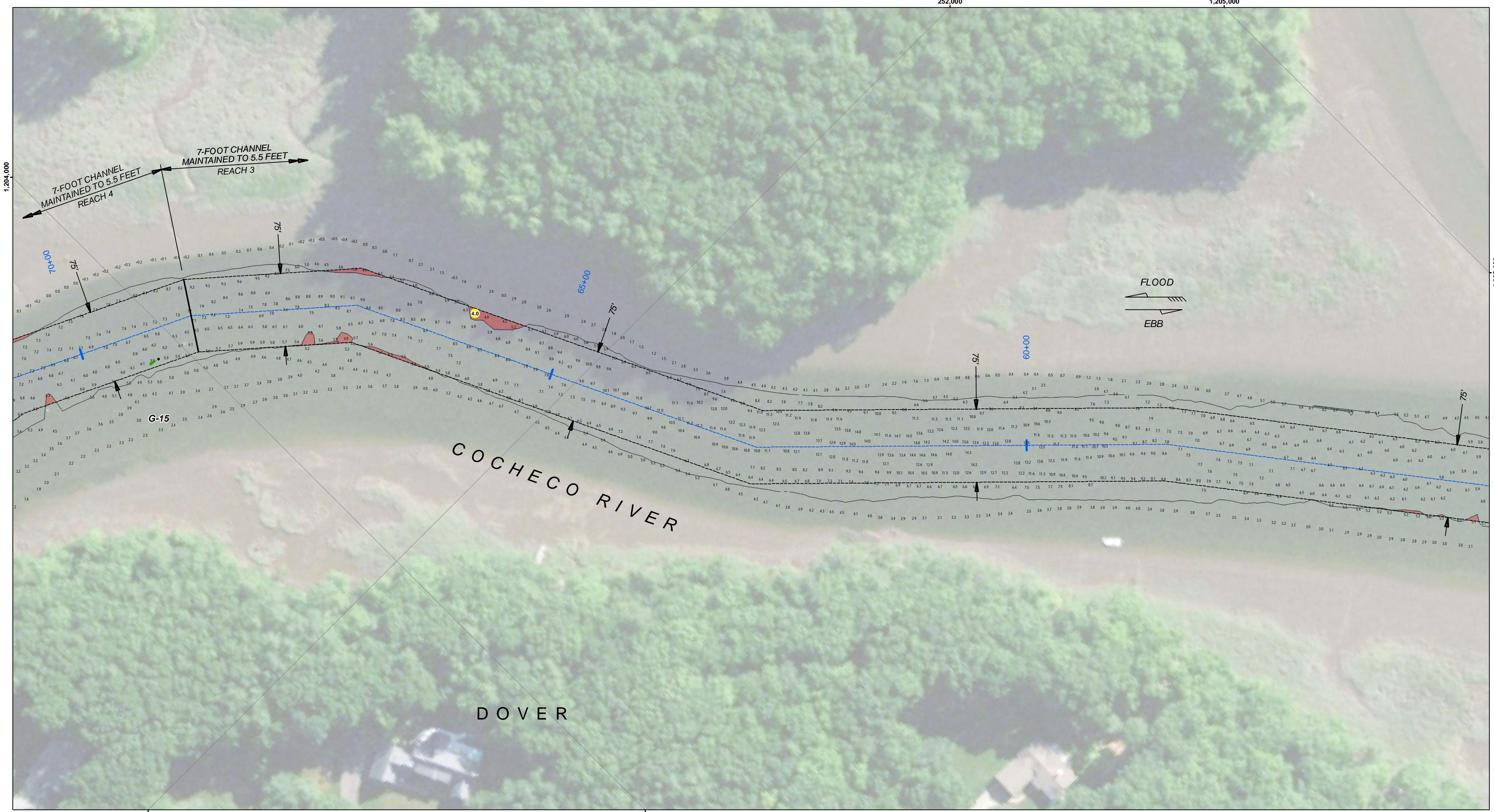
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**U.S. ARMY CORPS OF ENGINEERS**  
NEW ENGLAND DISTRICT  
SURVEYED BY:  
RWP  
CHECKED BY:  
WMM  
APPROVED BY: NAE Survey  
MAP DOCUMENT: NH\_03\_COC\_2019051\_CS\_2019\_041  
SIZE: ANSI D  
ISSUE DATE: 7/11/2019

**COCHECO RIVER,  
DOVER, NEW HAMPSHIRE**  
**CONDITION SURVEY**  
**7-FOOT CHANNEL  
(MAINTAINED TO 5.5 FEET)**  
File Name: NH\_03\_COC\_2019051\_CS\_2019\_041

**SHEET IDENTIFICATION**  
Cocheco River  
Sheet 4 of 10  
Revion Number: 4.0-20190322



DISTRIBUTION STATEMENT: The data represents the results of data collection processing for a specific US Army Corps of Engineers active and indicates the general existing conditions. It is not necessarily current or accurate and is not suitable for use in any application that requires detailed information. The United States shall be under no liability whatsoever to any person or entity for any use made of the data furnished. The data furnished by the United States is not necessarily current or accurate and is not suitable for use in any application that requires detailed information. The data furnished by the United States is not necessarily current or accurate and is not suitable for use in any application that requires detailed information.

U.S. ARMY CORPS OF ENGINEERS	
NEW ENGLAND DISTRICT	
SUBMITTED BY:	RWP
CHECKED BY:	WMM
APPROVED BY:	NME Survey
MAP DOCUMENT:	NH_03_COC_2019051_CS_2019_041
SIZE:	A3
FILE NAME:	NH_03_COC_2019051_CS_2019_041

**COCHECO RIVER,  
DOVER, NEW HAMPSHIRE  
CONDITION SURVEY  
7-FOOT CHANNEL  
(MAINTAINED TO 5.5-FEET)**

File Name: NH\_03\_COC\_2019051\_CS\_2019\_041

**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: POPOHAM BEACH  
Sonar System: ODOM MK 3 (Singlebeam Sonar)  
Sounding Frequency: 200 kHz  
Survey Method: RTK GPS Tides  
GPS System: Trimble GPS 855 (RTK)  
RTK Base Station: MTS Smartnet Max  
Software Used: Hypack  
Sounding Sort Distance: 10'

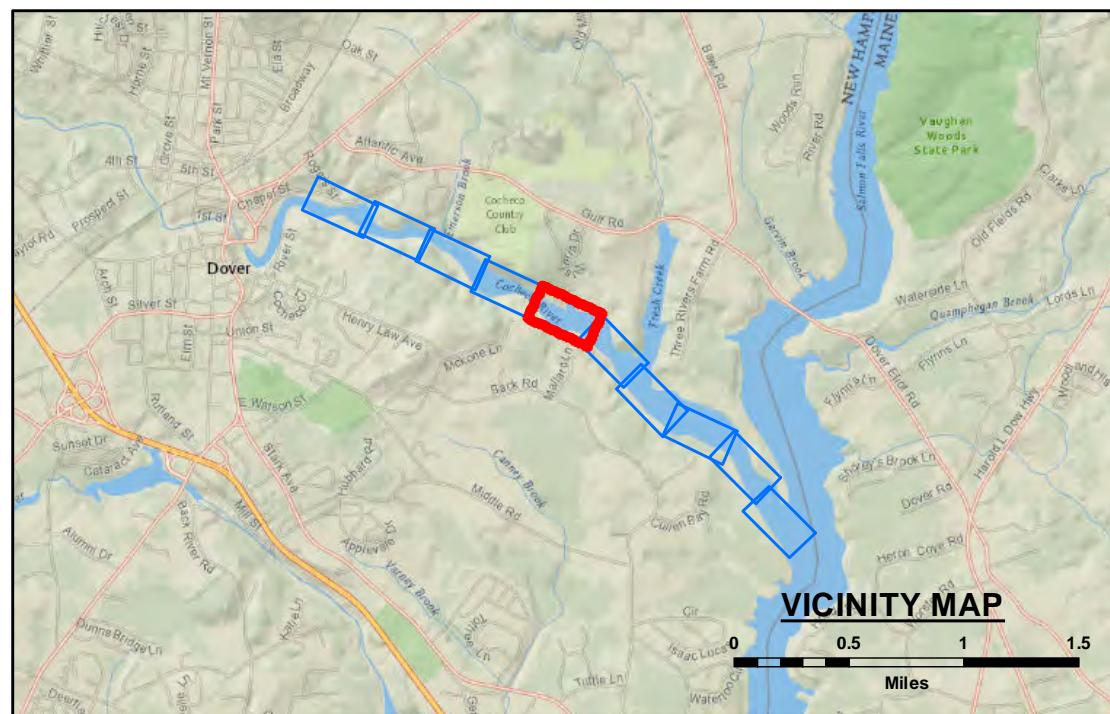
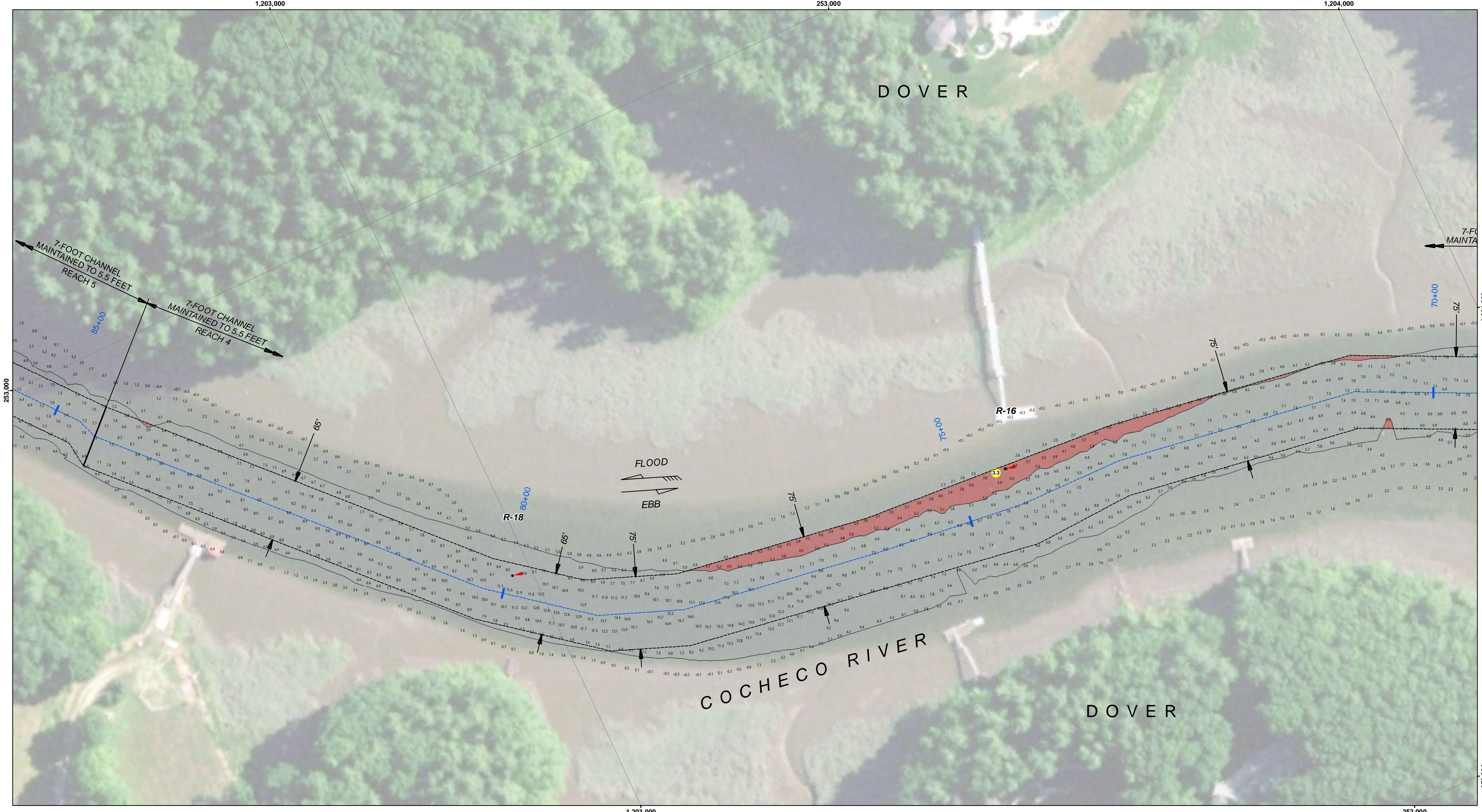
Field Books: R&H 4965  
Survey No.: COC\_CS\_2019\_041  
Reference NOAA Chart No.: 13285

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.

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**Water Level Information**  
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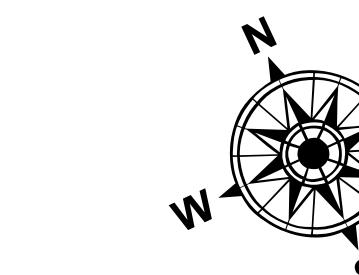
**SHEET IDENTIFICATION**  
Cocheco River  
**Sheet 5 of 10**



**LEGEND**

- Federal Navigation Channel
- - - Channel Center Line
- ..... Cable/Pipeline Area
- Pipes (Gas/Sewer)
- Contour Line
- Fixed Navigation Aids
- Obstruction Point
- Red Navigation Buoy
- Green Navigation Buoy
- Shoaling Area
- Shoalest Sounding\*\*

\*\* Shoalest Sounding per Quarter by Reach



**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: POOPHAM BEACH  
Sonar System: ODOM MK 3 (Singlebeam Sonar)  
Sounding Frequency: 200 kHz  
Survey Method: RTK GPS Tides  
GPS System: Trimble GPS 855 (RTK)  
RTK Base Station: MTS Smartnet Max  
Software Used: Hypack  
Sounding Sort Distance: 10'  
Field Books: R&H 4965  
Survey No.: COC\_CS\_2019\_041  
Reference NOAA Chart No.: 13285

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**Project Remarks**  
None

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**US Army Corps of Engineers District: CENAE**

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**U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT**

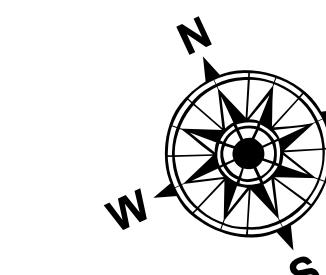
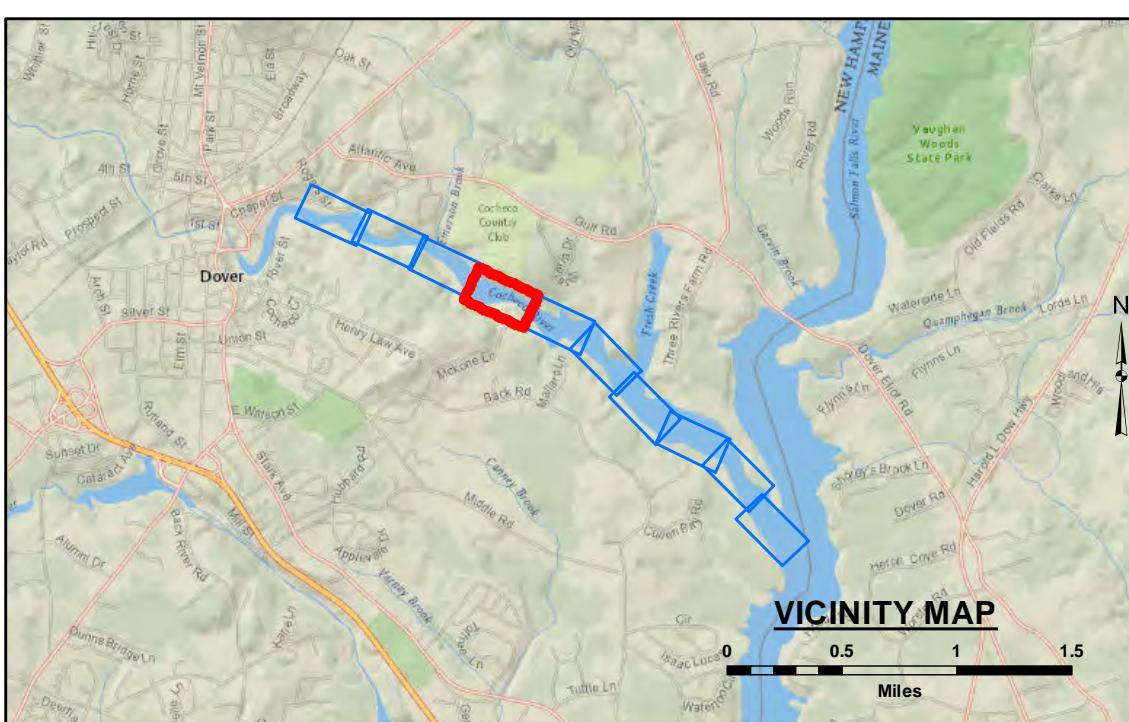
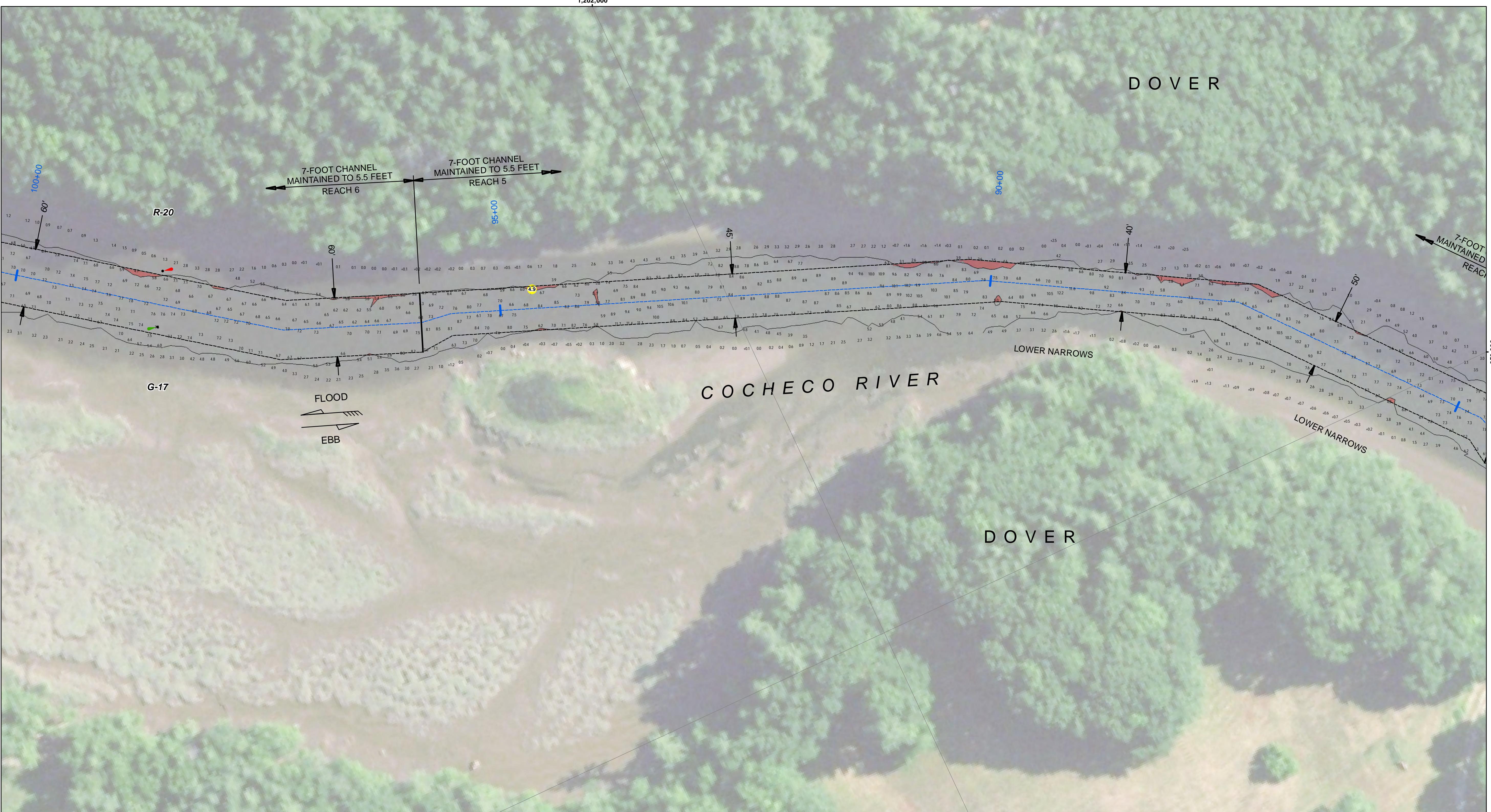
SURVEYED BY: RWP	SURVEYED BY: RWP
CHECKED BY: WMM	CHECKED BY: WMM
APPROVED BY: NME Survey	APPROVED BY: NME Survey
MAP DOCUMENT: NH_03_COC_2019051_CS_2019_041	MAP DOCUMENT: NH_03_COC_2019051_CS_2019_041
SIZE: ANSI D	SIZE: ANSI D
ISSUE DATE: 7/11/2019	ISSUE DATE: 7/11/2019

**COCHECO RIVER, DOVER, NEW HAMPSHIRE CONDITION SURVEY 7-FOOT CHANNEL (MAINTAINED TO 5.5-FEET)**

**SHEET IDENTIFICATION**  
Cocheco River  
**Sheet 6 of 10**

Revision Number: 4.0-20190322

File Name: NH\_03\_COC\_2019051\_CS\_2019\_041



**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: POOPHAM BEACH  
 Sonar System: ODOM MK 3 (Singlebeam Sonar)  
 Sounding Frequency: 200 kHz  
 Survey Method: RTK GPS Tides  
 GPS System: Trimble GPS 855 (RTK)  
 RTK Base Station: MTS Smartnet Max  
 Software Used: Hypack  
 Sounding Sort Distance: 10'  
 Field Books: R&H 4965  
 Survey No.: COC\_CS\_2019\_041  
 Reference NOAA Chart No.: 13285

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**Project Remarks**  
 None

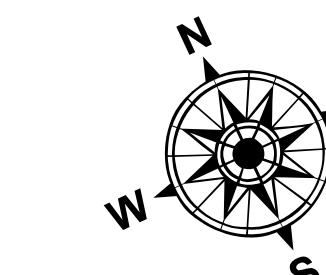
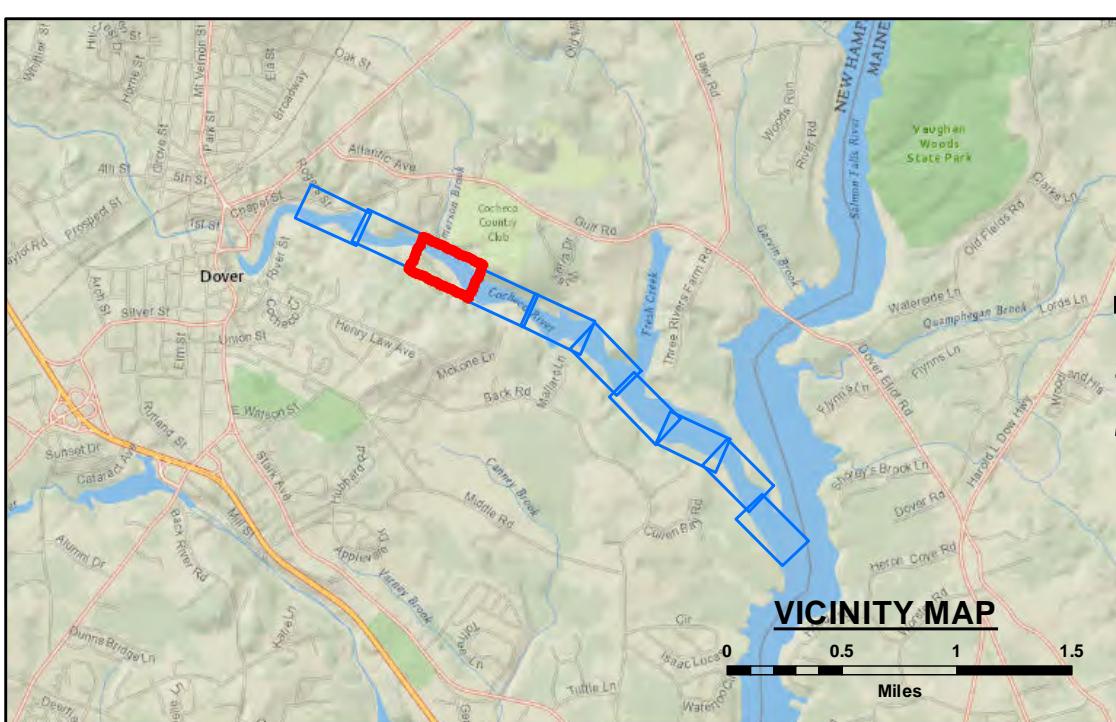
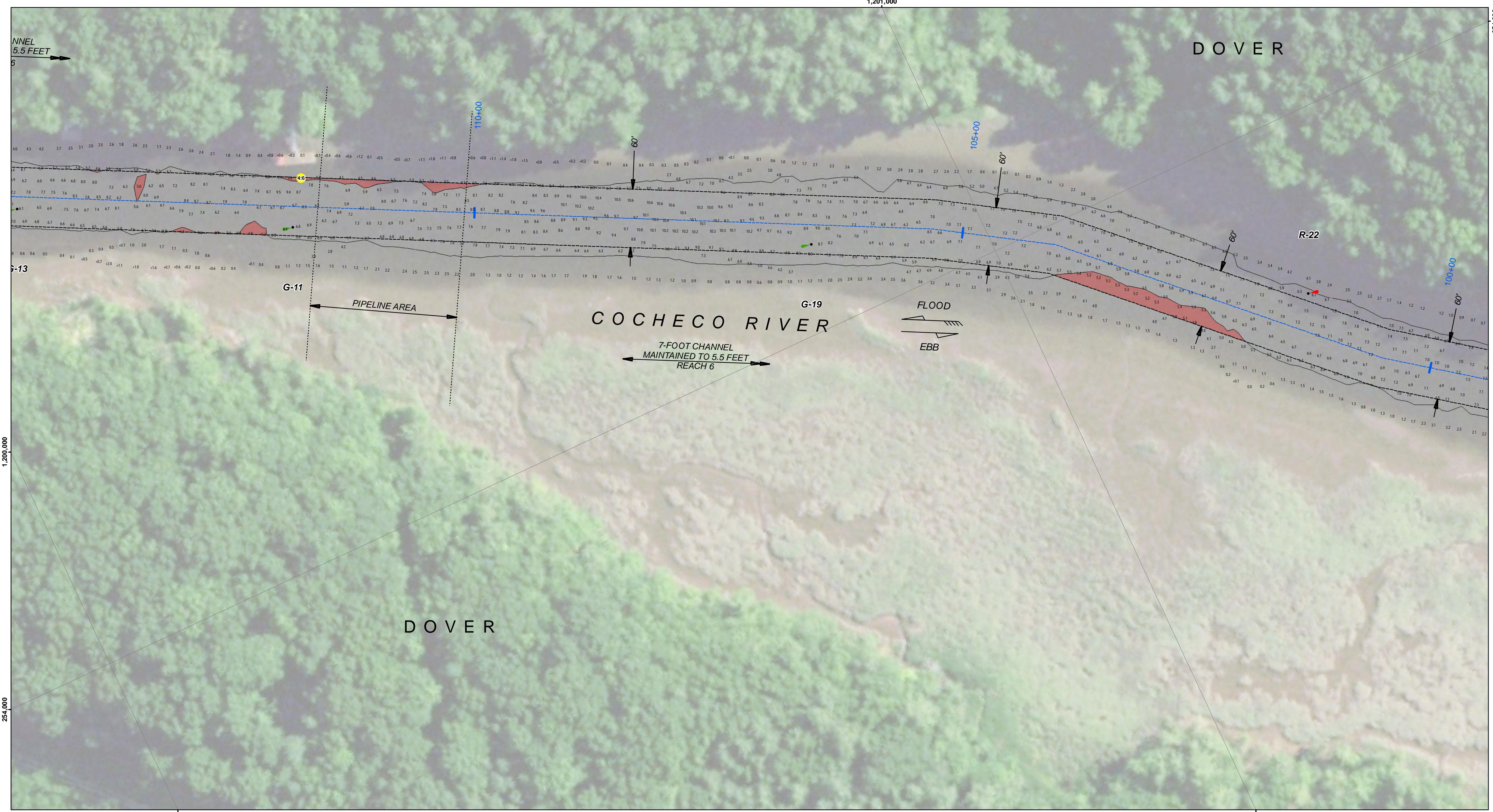
**Water Level Information**  
 Tides were recorded using RTK GPS. The MLLW to NAV/D88 correction used for this project is 3.97'. This correction is derived from NOAA Bench Marks at Dover, Cocheco River (Station ID 8420411, 04/26/1999). NAV/D88 is above MLLW; therefore the correction should be added to NAV/D88 to convert to MLLW. No tide gauges were used on this project.

**COCHECO RIVER,  
DOVER, NEW HAMPSHIRE  
CONDITION SURVEY  
7-FOOT CHANNEL  
(MAINTAINED TO 5.5-FEET)**

**U.S. ARMY CORPS OF ENGINEERS  
NEW ENGLAND DISTRICT**

SUBMITTED BY:	RWP
CHECKED BY:	WMM
APPROVED BY:	NAE Survey
MAP DOCUMENT:	NH_03_COC_2019051_CS_2019_041
SIZE:	ANSI D
FILE NAME:	NH_03_COC_2019051_CS_2019_041

**SHEET IDENTIFICATION**  
**Cocheco River**  
**Sheet 7 of 10**



**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: POOPHAM BEACH  
Sonar System: ODOM MK 3 (Singlebeam Sonar)  
Sounding Frequency: 200 kHz  
Survey Method: RTK GPS Tides  
GPS System: Trimble GPS 855 (RTK)  
RTK Base Station: MTS Smartnet Max  
Software Used: Hypack  
Sounding Sort Distance: 10'  
Field Books: R&H 4965  
Survey No.: COC\_CS\_2019\_041  
Reference NOAA Chart No.: 13285

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**Project Remarks**  
None

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**COCHECO RIVER,  
DOVER, NEW HAMPSHIRE  
CONDITION SURVEY  
7-FOOT CHANNEL  
(MAINTAINED TO 5.5-FEET)**

File Name: NH\_03\_COC\_20190501\_CS\_2019\_041

**SHEET  
IDENTIFICATION**  
Cocheco River

Sheet 8 of 10

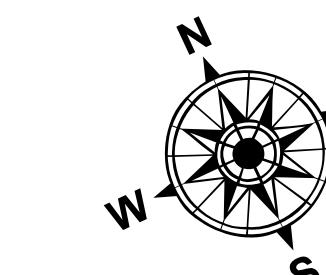
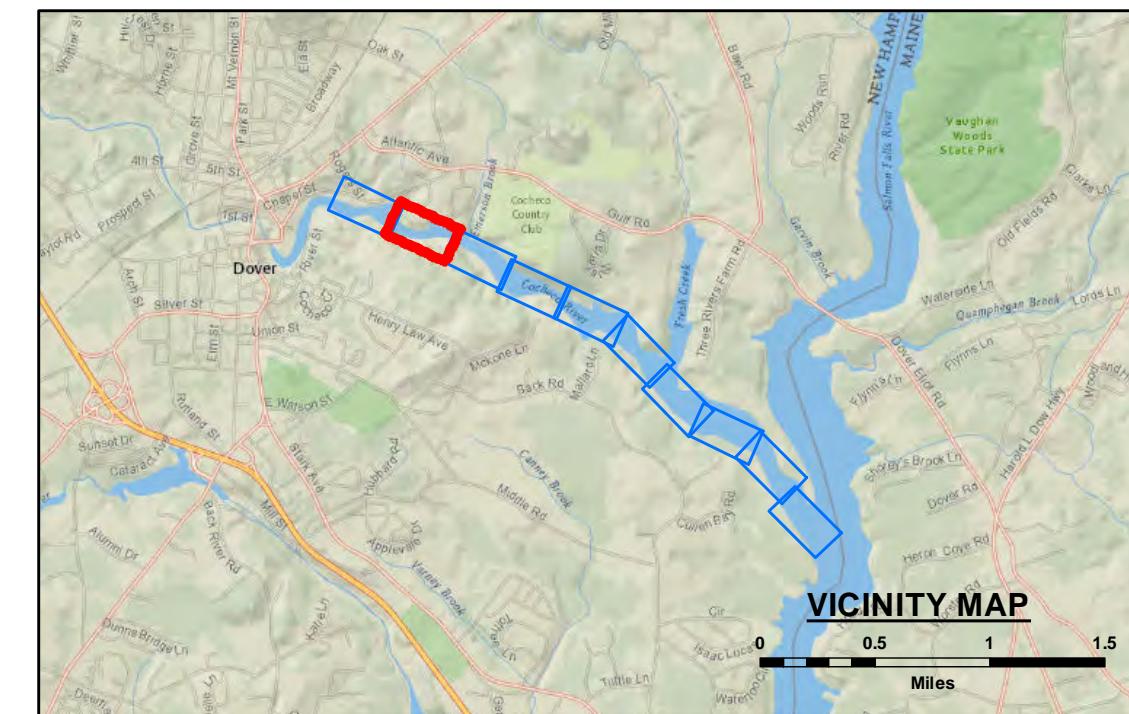
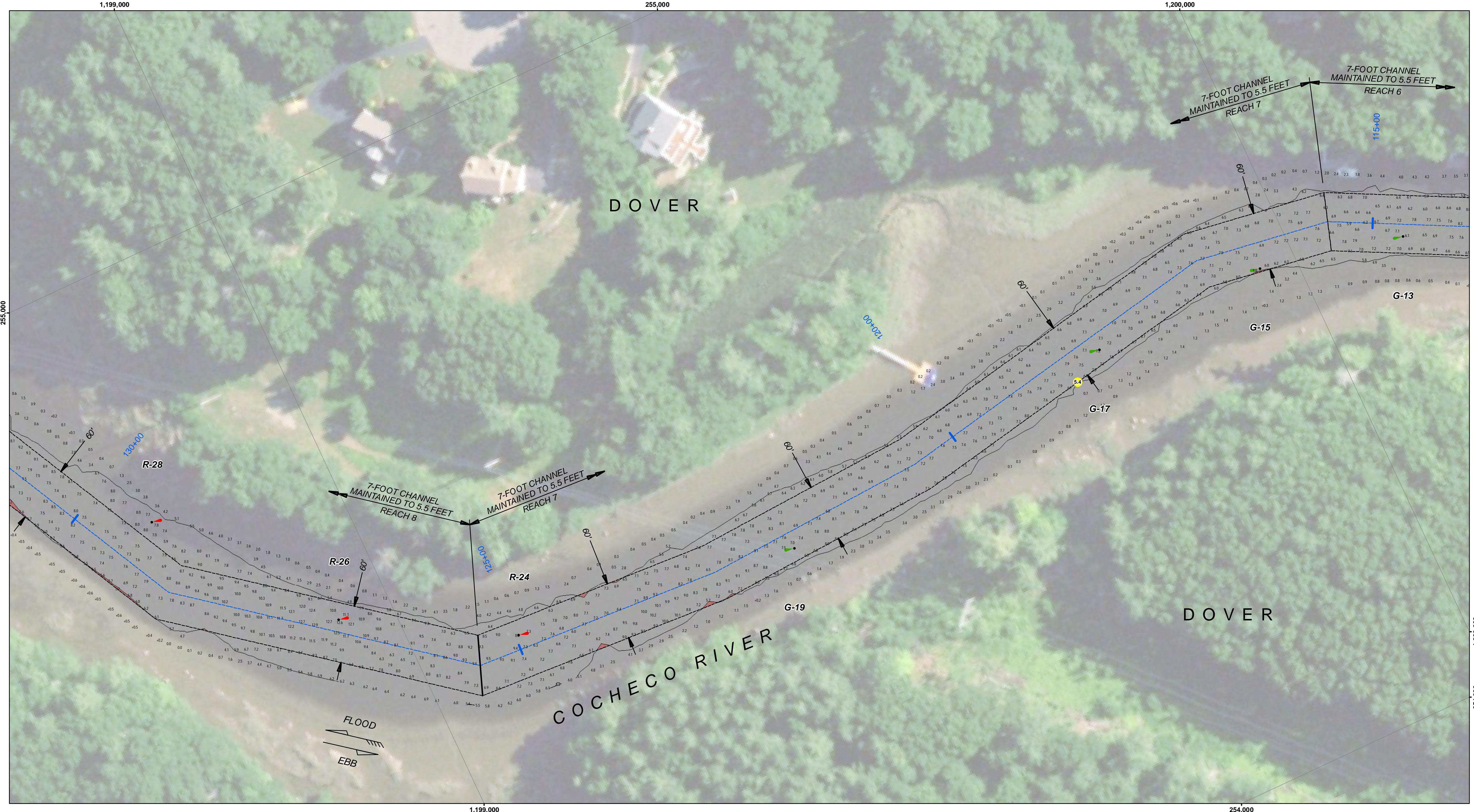
Revised Number: 4.0-20190322

**DISCLAIMER**  
DO NOT USE FOR NAVIGATION: The United States Government furnishes these data as another user accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, or usefulness of the data furnished. The United States shall be under no liability whatsoever to any person or entity using the information and/or the data furnished. The United States reserves the right to withdraw all or part of the data furnished at any time without notice or obligation. The recipient may not transfer these data to others without also transferring this Disclaimer.

**US Army Corps  
of Engineers  
District: CENAE  
CENAE**

**U.S. ARMY CORPS OF ENGINEERS  
NEW ENGLAND DISTRICT**

SUBMITTED BY: RWP	SURVEYED BY: RWP
CHECKED BY: WMM	
APPROVED BY: NAE Survey	
ISSUE DATE: 7/11/2019	MAP DOCUMENT: NH_03_COC_20190501_CS_2019_041



**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: POOPHAM BEACH  
 Sonar System: ODOM MK 3 (Singlebeam Sonar)  
 Sounding Frequency: 200 kHz  
 Survey Method: RTK GPS Tides  
 GPS System: Trimble GPS 855 (RTK)  
 RTK Base Station: MTS Smartnet Max  
 Software Used: Hypack  
 Sounding Sort Distance: 10'  
 File Books: R&H 4965  
 Survey No.: COC\_CS\_2019\_041  
 Reference NOAA Chart No.: 13285

**General Notes**  
 The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during May 2019. The sounding information depicted on this map represents the results of surveys made on the dates indicated, and can only be considered as indicating the conditions existing at that time. 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. 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

**Project Remarks**  
 None

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.

**Water Level Information**  
 Tides were recorded using RTK GPS. The MLLW to NAVD88 correction used for this project is 3.97'. This correction is derived from NOAA Bench Marks at Dover, Cocheco River (Station ID 8420411, 04261999). NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

**SHEET IDENTIFICATION**  
 Cocheco River  
 Sheet 9 of 10

File Name: NH\_03\_COC\_20190501\_CS\_2019\_041

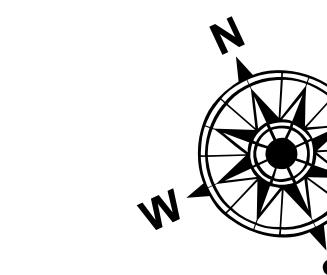
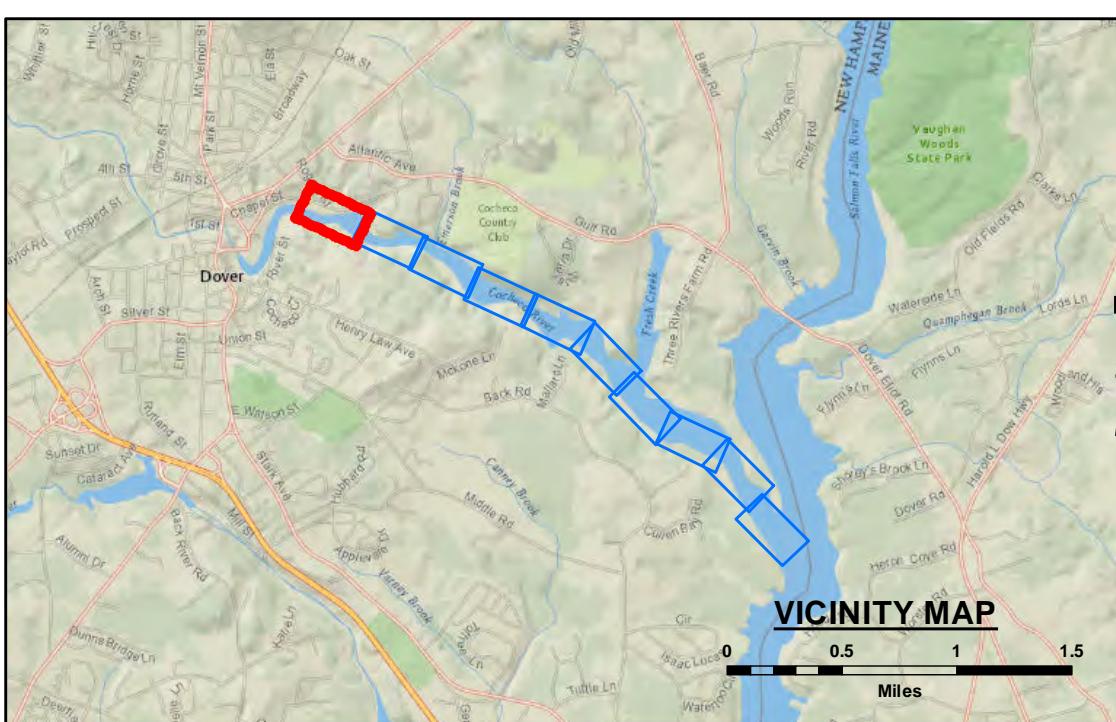
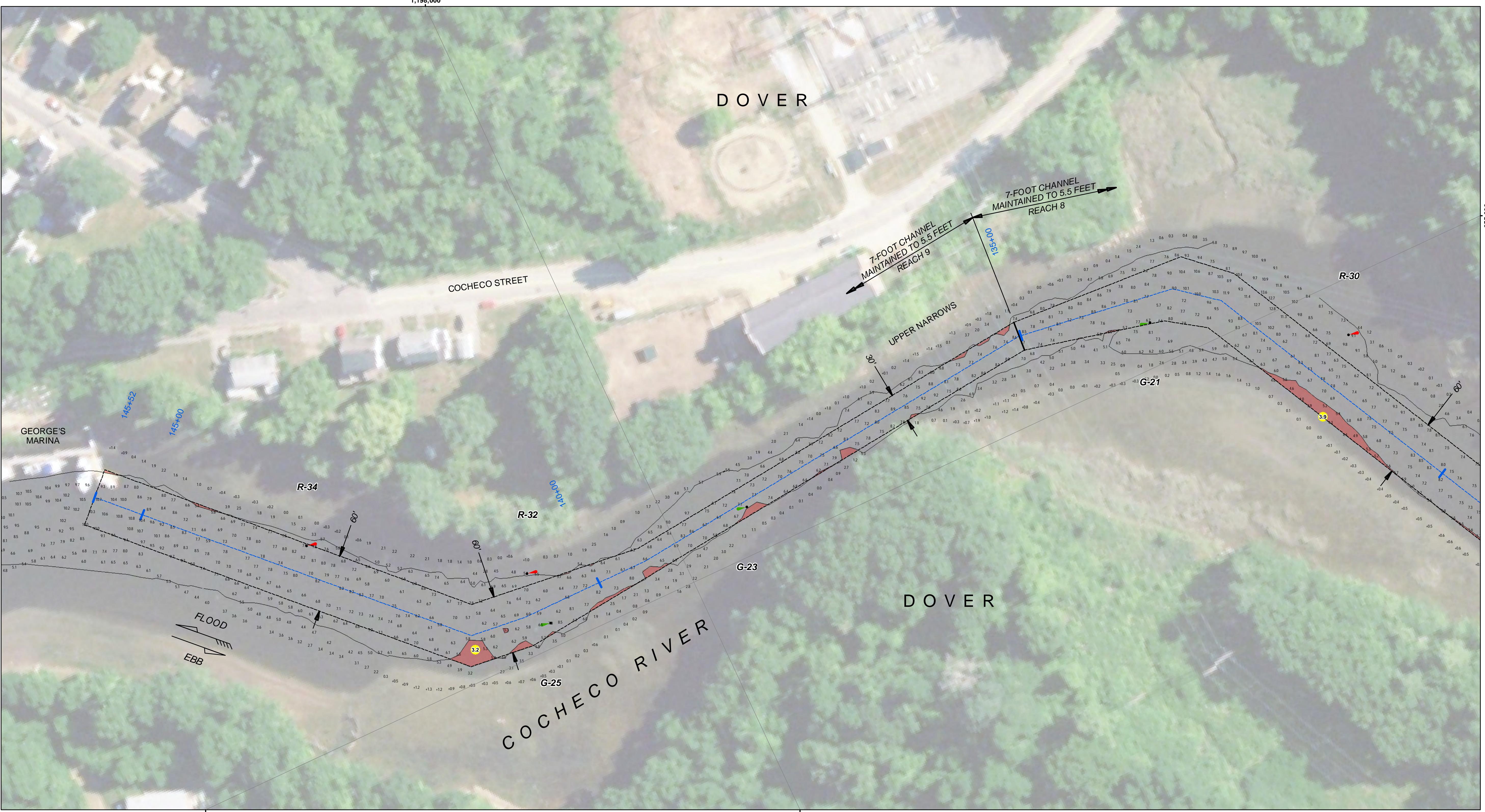
Revion Number: 4.0-20190322

U.S. ARMY CORPS OF ENGINEERS	
NEW ENGLAND DISTRICT	SURVEYED BY: RWP
SUBMITTED BY: William Walker	CHECKED BY: WHW
APPROVED BY: NAE Survey	ISSUE DATE: 7/11/2019
MAP DOCUMENT: NH_03_COC_20190501_CS_2019_041	SIZE: ANSI D

**DISCLAIMER:** The data represents the results of data collection procedures for a specific US Army Corps of Engineers active and indicates the general existing conditions. The data is not necessarily current, accurate, or complete and is not suitable for navigation. The user is responsible for the results of any use of the application of this data for other than its intended purpose.



US Army Corps of Engineers  
District: CENAE



**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: POOPHAM BEACH  
Sonar System: ODOM MK 3 (Singlebeam Sonar)  
Sounding Frequency: 200 kHz  
Survey Method: RTK GPS Tides  
GPS System: Trimble GPS 855 (RTK)  
RTK Base Station: MTS Smartnet Max  
Software Used: Hypack  
Sounding Sort Distance: 10'  
Field Books: R&H 4965  
Survey No.: COC\_CS\_2019\_041  
Reference NOAA Chart No.: 13285

**General Notes**  
The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during May 2019. The sounding information depicted on this map represents the results of surveys made on the dates indicated, and can only be considered as indicating the conditions existing at that time. 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. 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

**Water Level Information**  
Tides were recorded using RTK GPS. The MLLW to NAV/D88 correction used for this project is 3.97'. This correction is derived from NOAA Bench Marks at Dover, Cocheco River (Station ID 8420411, 04/26/1999). NAV/D88 is above MLLW; therefore the correction should be added to NAV/D88 to convert to MLLW. No tide gauges were used on this project.

**Project Remarks**

None

**SHEET IDENTIFICATION**  
Cocheco River

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Revised Number: 4.0-20190322

**US Army Corps of Engineers District: CENAE**

**Distribution Label:** The data represents the results of data collected/procured for a specific US Army Corps of Engineers active and indicates the general existing conditions. It is not necessarily current or accurate and is not suitable for navigation. The user is responsible for the results of any of the application of this data for other than its intended purpose.

**U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT**

SURVEYED BY:	RWP
CHECKED BY:	WMM
APPROVED BY:	NME Survey
MAP DOCUMENT:	NH_03_COC_20190501_CS_2019_041
SIZE:	ANSI D
ISSUE DATE:	7/11/2019

**COCHECO RIVER, DOVER, NEW HAMPSHIRE CONDITION SURVEY 7-FOOT CHANNEL (MAINTAINED TO 5.5-FEET)**

**SHEET IDENTIFICATION**  
Cocheco River

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Revised Number: 4.0-20190322