

PROJECT SPECIFIC NOTES:

- THE INFORMATION PROVIDED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- THE DATA OBTAINED FROM THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
- COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, NEW JERSEY MERCATOR - ZONE 2900, SURVEY FEET.
- THE DATA OBTAINED FROM THIS MAP ARE TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].
- MEAN LOWER LOW WATER IS 2.9 - 3.2 FEET BELOW NAVD83 AS DETERMINED USING THE DATUM 1983, 4.0-1.7.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 45° INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 3 x 3 DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- AERIAL IMAGERY PROVIDED BY THE DISCOVER GIS DATA BAY (2020) AND IS FOR ORIENTATIONAL PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION 17.
- THIS MAP IS NOT COMPLIANT IN ACCORDANCE WITH EM 1110-2-8160 AND EM 1110-2-6056.

[illegible]

SCALE: ONE INCH = 200 FEET	
	7-26 MAY 2021 _____
FIELD BOOKS: _____ 1037 _____ _____	REQ. NO./FILE NO.: 15057 D/A1/N2

FIELD CRITIC/ANALYST

APPROVED: M. FORTE

CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR

LEAD CARPENTERS

APPROVED: J. MRAZ

SOUTH CHIEF OF SURVEY

DATE: 1 JUNE 2021

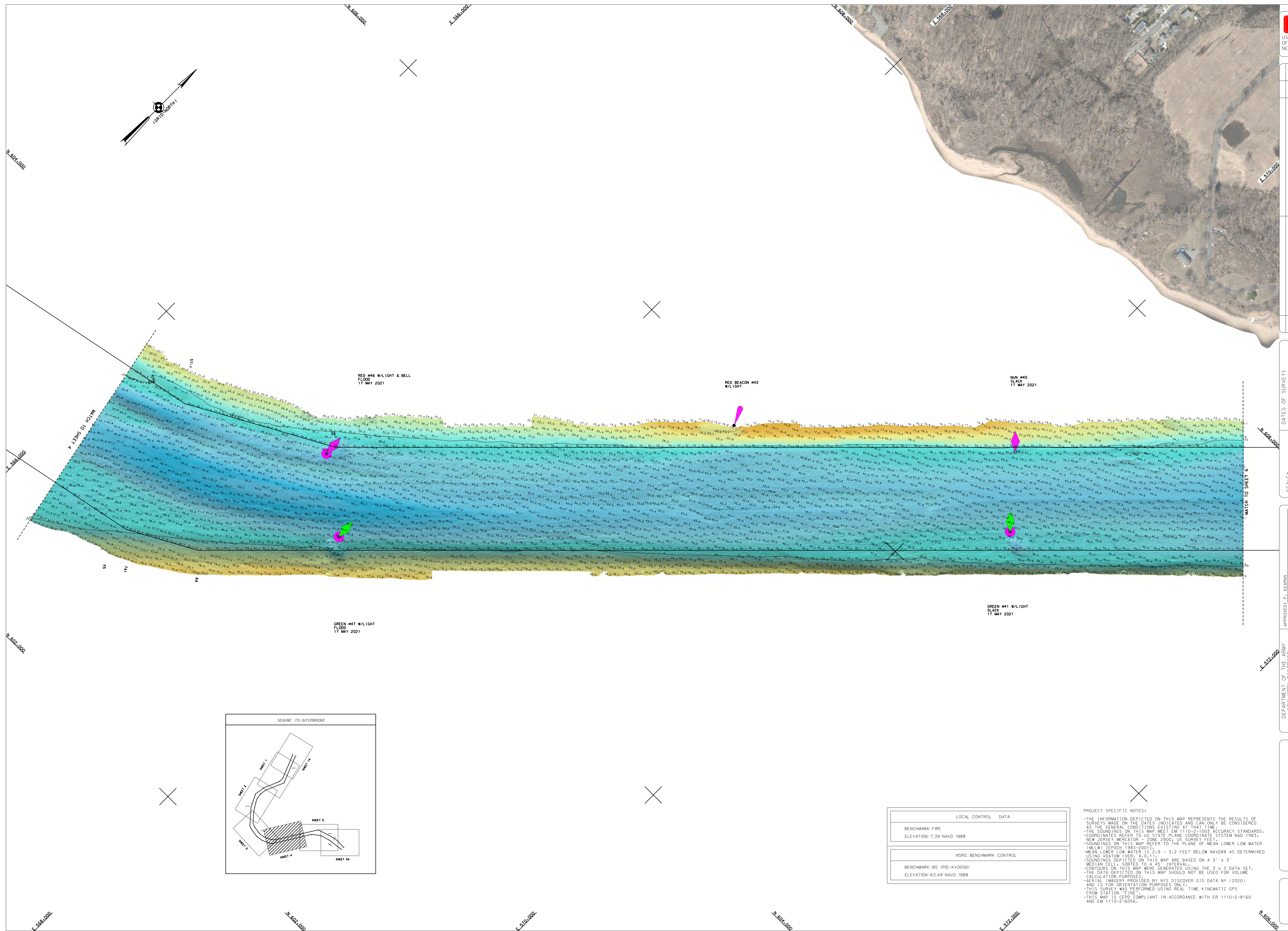
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

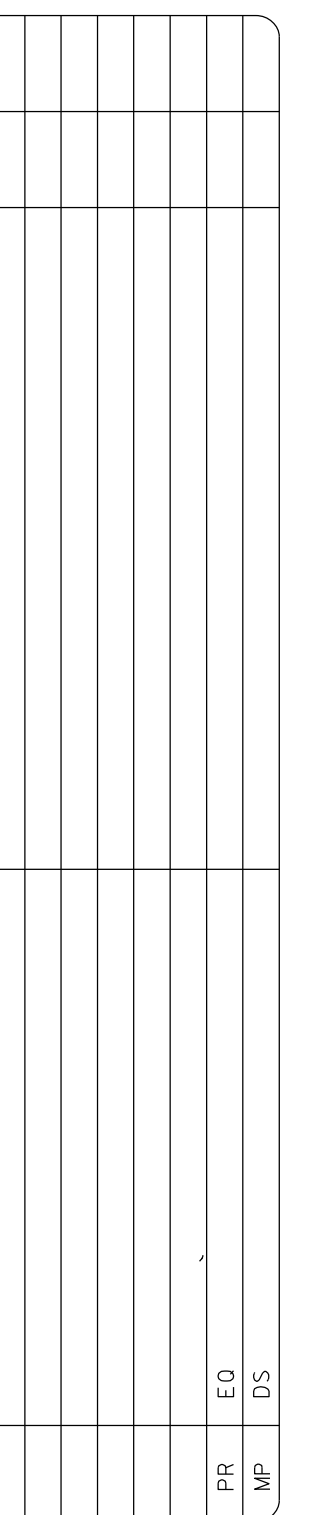
OPERATIONS DIVISION
SURVEY SECTION
CENWA-OP-S

N.Y. & N.J. CHANNELS
OUTERBRIDGE TO SEGUINE POINT

VH-105

SHEET 5 OF 7

[illegible]



SCALE: _____ ONE INCH = 200 FEET	7-26 MAY 2021 _____ _____ _____
FIELD BOOKS: _____ 1037	
REQ. NO./FILE NO.: 5057 D/N1/N2	

OPERATIONS DIVISION SURVEY SECTION CENNA-OP-S	FIELD OFFICERS APPROVED: M. FORT DATE: 12 JUNE 2020
	APPROVED: P. BHADUR DATE: 12 JUNE 2020
	APPROVED: J. MRAZ DATE: 8 JUNE 2020

N. Y. & N. J. CHANNELS
OUTERBRIDGE TO SEQUINE POINT
WARD POINT (WEST REACH)
CONDITION SURVEY

VH-104

SHEET 4 OF 7

PROJECT SPECIFIC NOTES:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A VISUAL ANALYSIS BASED ON DATA INDICATED AND CAN ONLY BE USED AS ONE OF THE GENERAL CONSIDERATIONS EXISTING AT THAT TIME.

COORDINATES SHOWN ON THIS MAP ARE BASED ON THE NAD83 COORDINATE SYSTEM. COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NA083, WHICH IS BASED ON THE NORTH AMERICAN DATUM OF 1983.

SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) FOR THE YEAR 1984.

MEAN LOWER LOW WATER IS 2.9 - 3.2 FEET BELOW NAVD83 AS DETERMINED BY THE U.S. NAVY CHART NO. 11670.

SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' GRID.

CONTOURS ON THIS MAP WERE GENERATED USING THE 3' x 3' DATA SET.

CONTOUR DETECTION WAS PERFORMED USING THE FOLLOWING CALCULATION PURPOSES:

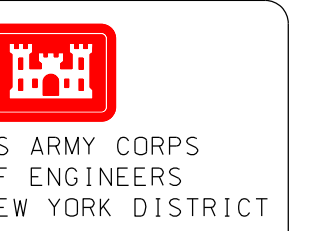
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FROM STATISTICAL ANALYSIS OF THE DATA SET.

THIS MAP IS NOT COMPLIANT IN ACCORDANCE WITH ER 1110-2-BIGED AND ENR 1110-2-6056.

LOCAL CONTROL DATA
BENCHMARK: FIRE
ELEVATION: 7.39' NAVD 1988

NSRS BENCHMARK
BENCHMARK: B5 (PID: KV0006)
ELEVATION: 63.49' NAVD 1988

[illegible]

SCALE : ONE INCH = 200 FEET	DATES OF SURVEY : <u>7-26 MAY 2021</u> _____ _____
F FIELD BOOKS : <u>-1037</u> _____	REQ. NO./FILE NO.: <u>5057 D/N1/N2</u>

APPROVED: W. FORTE
CIVIL ENGINEERING CONSULTANT

APPROVED: P. BHADOUR
LEAD CIVIL ENGINEER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 1 JUNE 2021

NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

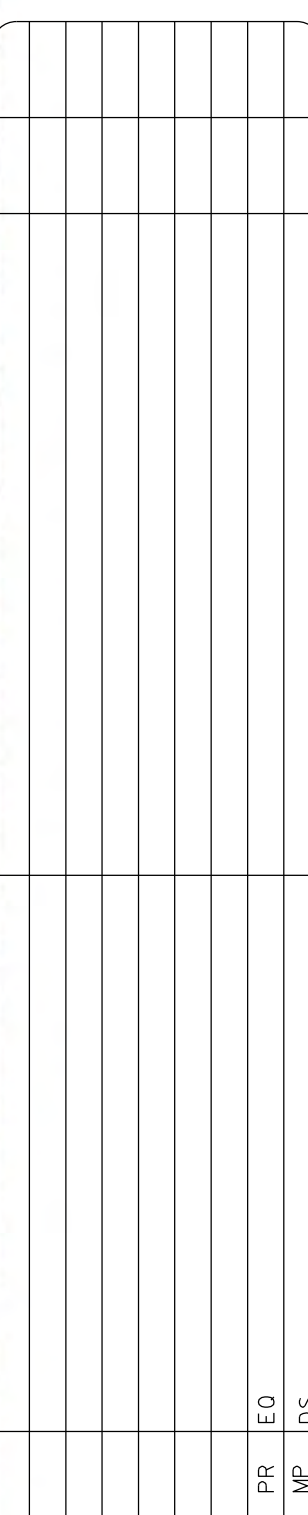
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

N.Y. & N.J. CHANNELS
OUTERBRIDGE TO SEGUNE POINT
CONDITION SURVEY

VH-103

SHEET 3 OF 7

D. NO./FILE NO.:5057 D/N1/N2



DATES OF SURVEY:
 1-4 JUNE 2020

REQ. NO./FILE NO.: 5057 D/N1/N2

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1037

APPROVED: P. KEARNS
FILED: 10/20/2020

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADJUR
LEAD CADD/DRAWING

APPROVED: J. WRAZ
SENIOR CHIEF OF SURVEY

DATE: 1 JUNE 2021

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

N.Y. & N.J. CHANNELS
OUTERBRIDGE TO SEGINE POINT
CONDITION SURVEY

VH-102

SHEET 2 OF 7

REQ. NO./FILE NO.:5057 D/N1/N2



PROJECT SPECIFIC NOTES:

-THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.

-THE SOUNDINGS ON THIS MAP MEET EN 1110-2-1003 ACCURACY STANDARDS.

-THE SOUNDINGS WERE OBTAINED FROM THE HYDROGRAPHIC SYSTEM NA 1983 NEW JERSEY MERCATOR - ZONE 2000, US SURVEY FEET.

-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER

-MEAN LOWER LOW WATER IS 2.9 - 3.2 FEET BELOW NAVD83 AS DETERMINED USING DATUM (VDM, 4+0.1).

-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 45° INTERVAL.

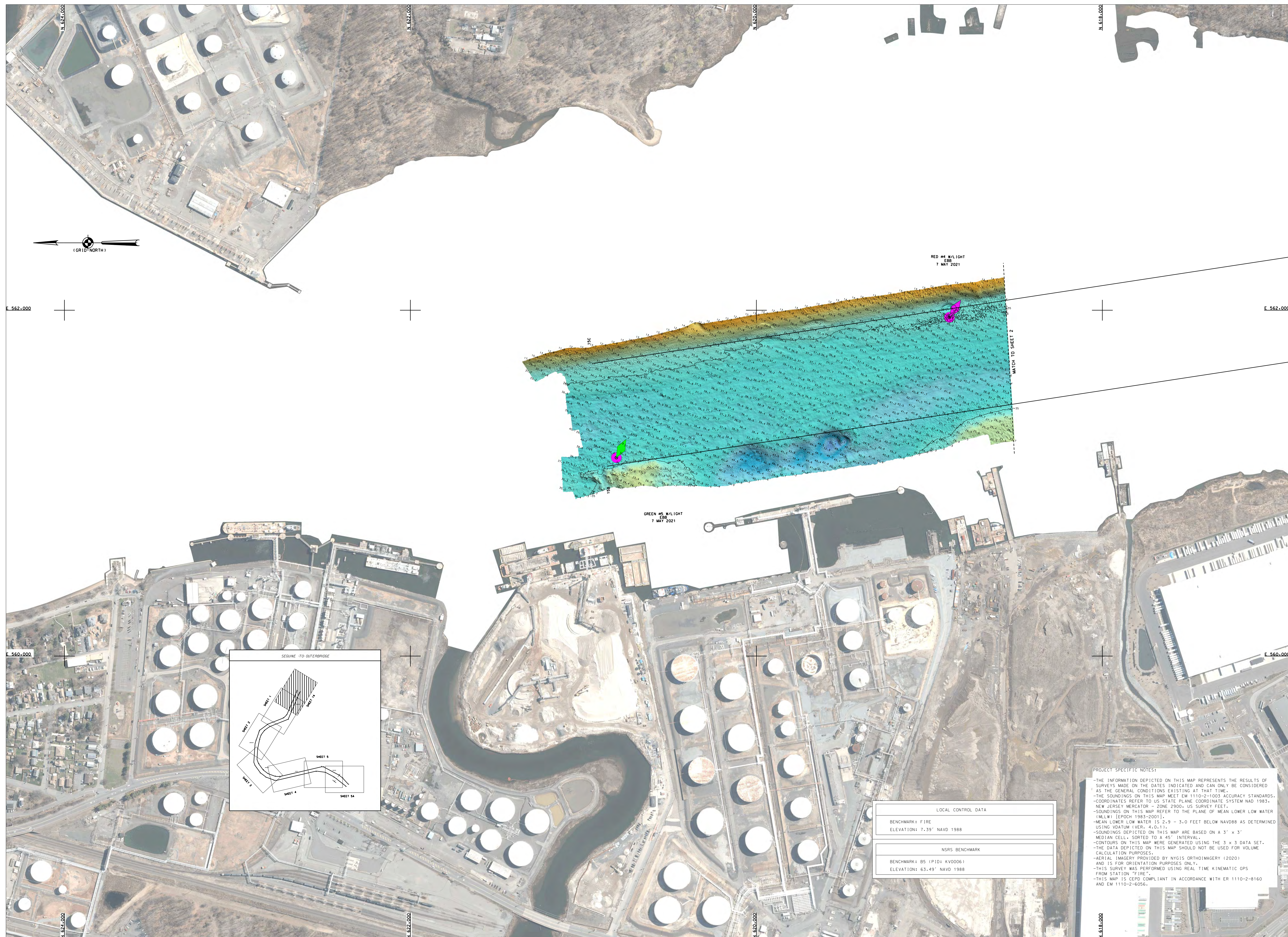
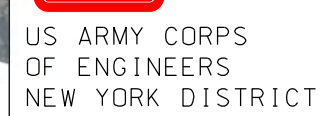
-CONTOURS ON THIS MAP WERE GENERATED USING THE 3 x 3 DATA SET.

-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.

-AERIAL IMAGERY PROVIDED BY NYS DEPARTMENT GIS DATA NY (2020) AND IS FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "FIRE".

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH EN 1110-2-8160

[illegible]

SCALE: ONE INCH = 200 FEET	DATES OF SURVEY: 7-26 MAY 2021
FIELD BOOKS: 1037 	REG. NO./FILE NO.: 15057

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

APPROVED: P. KEARNS
TACTIC ENGINEER

APPROVED: M. FORTI
CIVIL ENGINEERING FUNCTION

APPROVED: P. SHAHJIR
TIC ENGINEER

APPROVED: J. WATZ
SURVEY SECTION

OPERATIONS DIVISION
CEMAN-OP-5

DATE: 1 JUNE 2021

SENT: CHIEF OF BARRA

N. Y. & N. J. CHANNELS
OUTERBRIDGE TO SEGUINE POINT
CONDITION SURVEY

VH-101

SHEET 1 OF 7