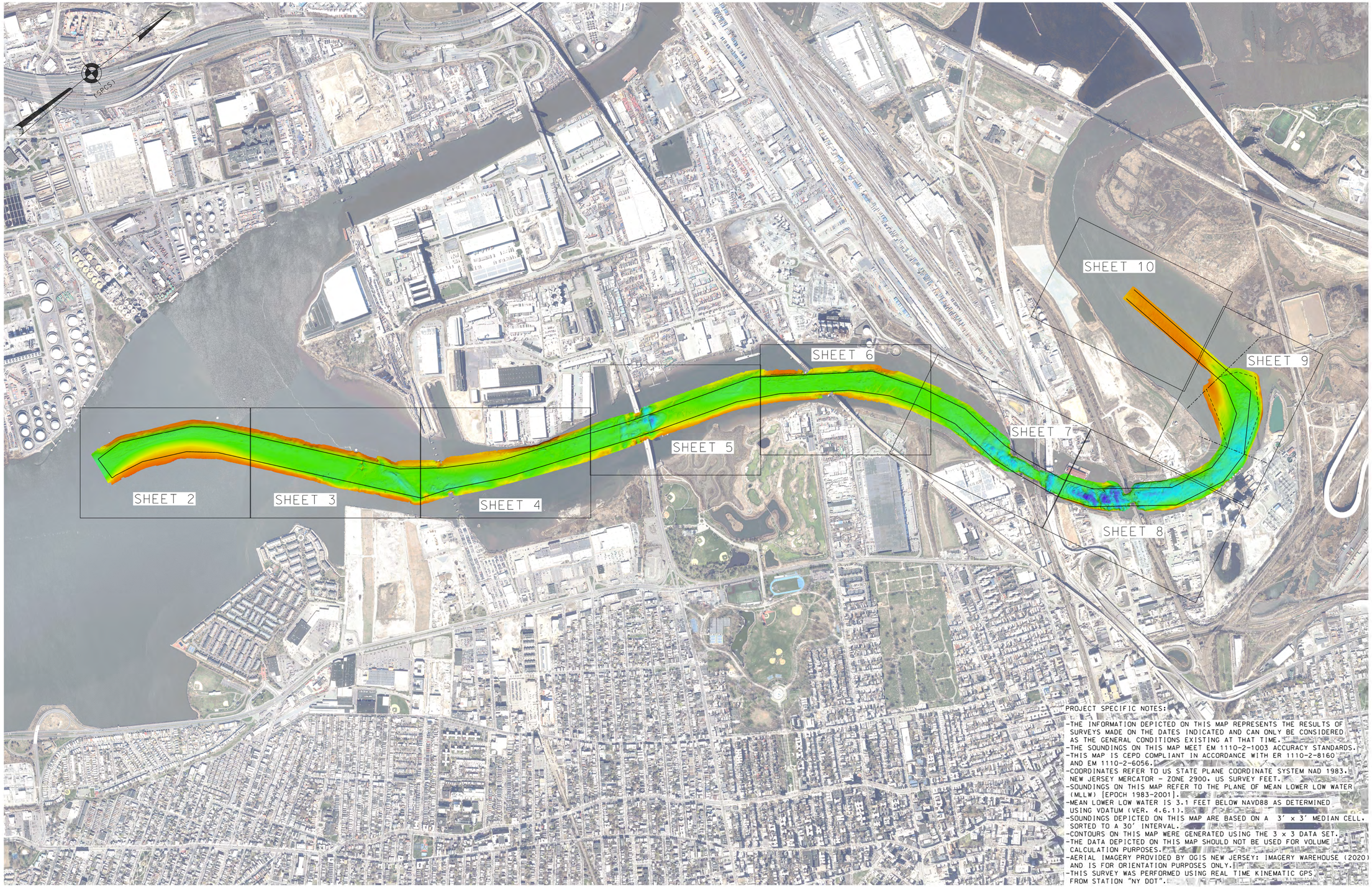


PROJECT SPECIFIC NOTES:
-THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
-THE SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.
-COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983. NEW JERSEY MERCATOR - ZONE 2900. US SURVEY FEET.
-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].
-MEAN LOWER LOW WATER IS 3.1 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.6.1).
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 30' 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 OGIS NEW JERSEY: IMAGERY WAREHOUSE (2020) AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY DOT".

0 800' 1600'

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: W 16 1934 (PID:KV0269)	BENCHMARK: HK 2 A USE (PID:KV0270)
ELEVATION: 17.00' (NAVD 1988)	ELEVATION: 39.15' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	CWF
WP	CWF. CM

DATES OF SURVEY:
09, 11 JANUARY 2024
06 FEBRUARY 2024

SCALE: ONE INCH = 800 FEET

FIELD BOOKS:
DNA10

REG. NO./FILE NO.: 5396/43

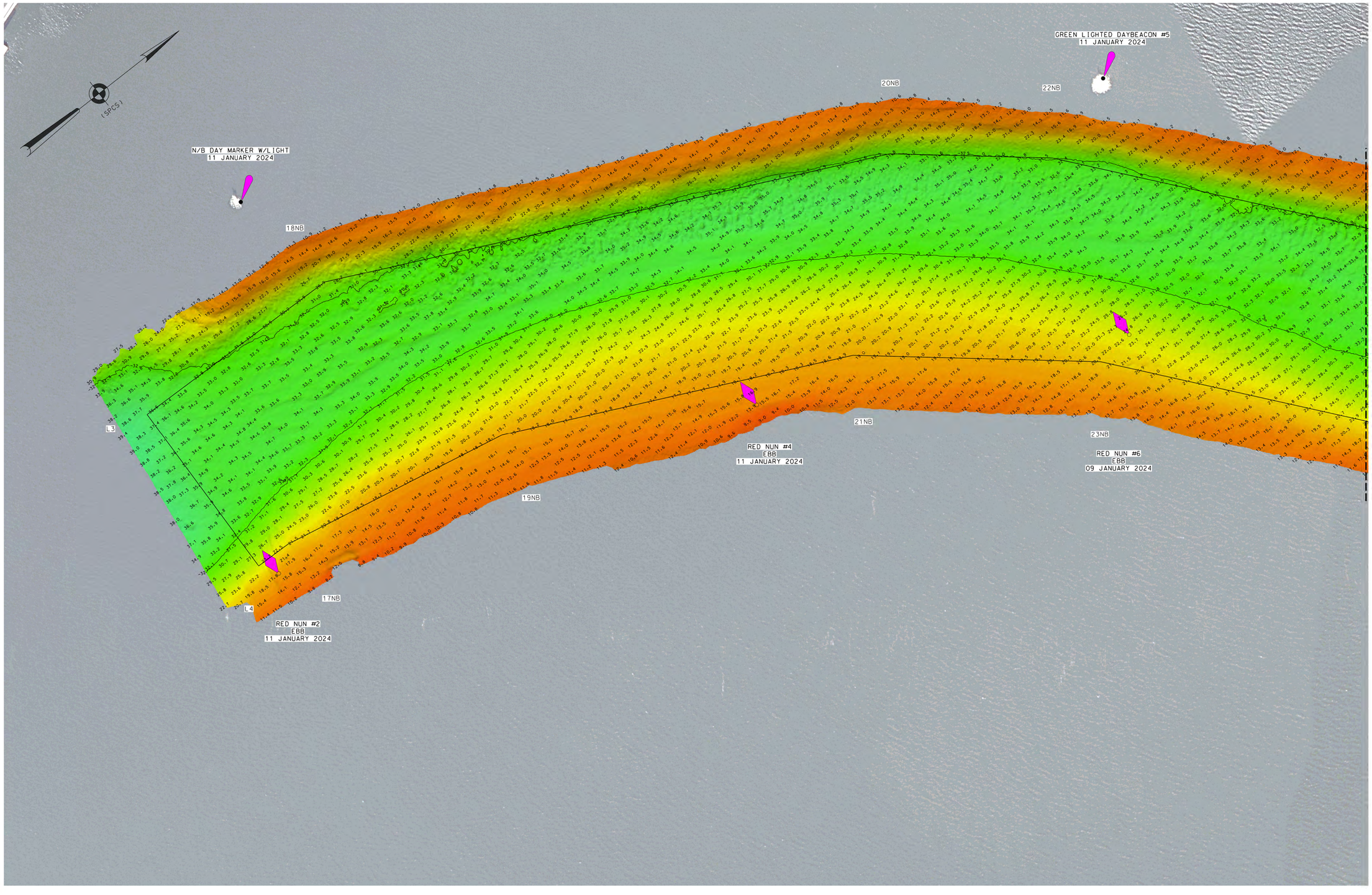
APPROVED: N. VITOLLO, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE, DEPUTY CHIEF SURVEYS AND MAPPING BRANCH
DATE: 21 FEBRUARY 2024

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.
HACKENSACK RIVER
CONDITION SURVEY

VH-101
1 OF 10



*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	CWF	
MP	CWF, CM	

DATES OF SURVEY:
09, 11 JANUARY 2024
06 FEBRUARY 2024

REQ. NO./FILE NO.:5396/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

APPROVED: N. VITOLLO
FIELD CARTOGRAPHER
APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION
APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 21 FEBRUARY 2024

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.
HACKENSACK RIVER

CONDITION SURVEY

VH-102

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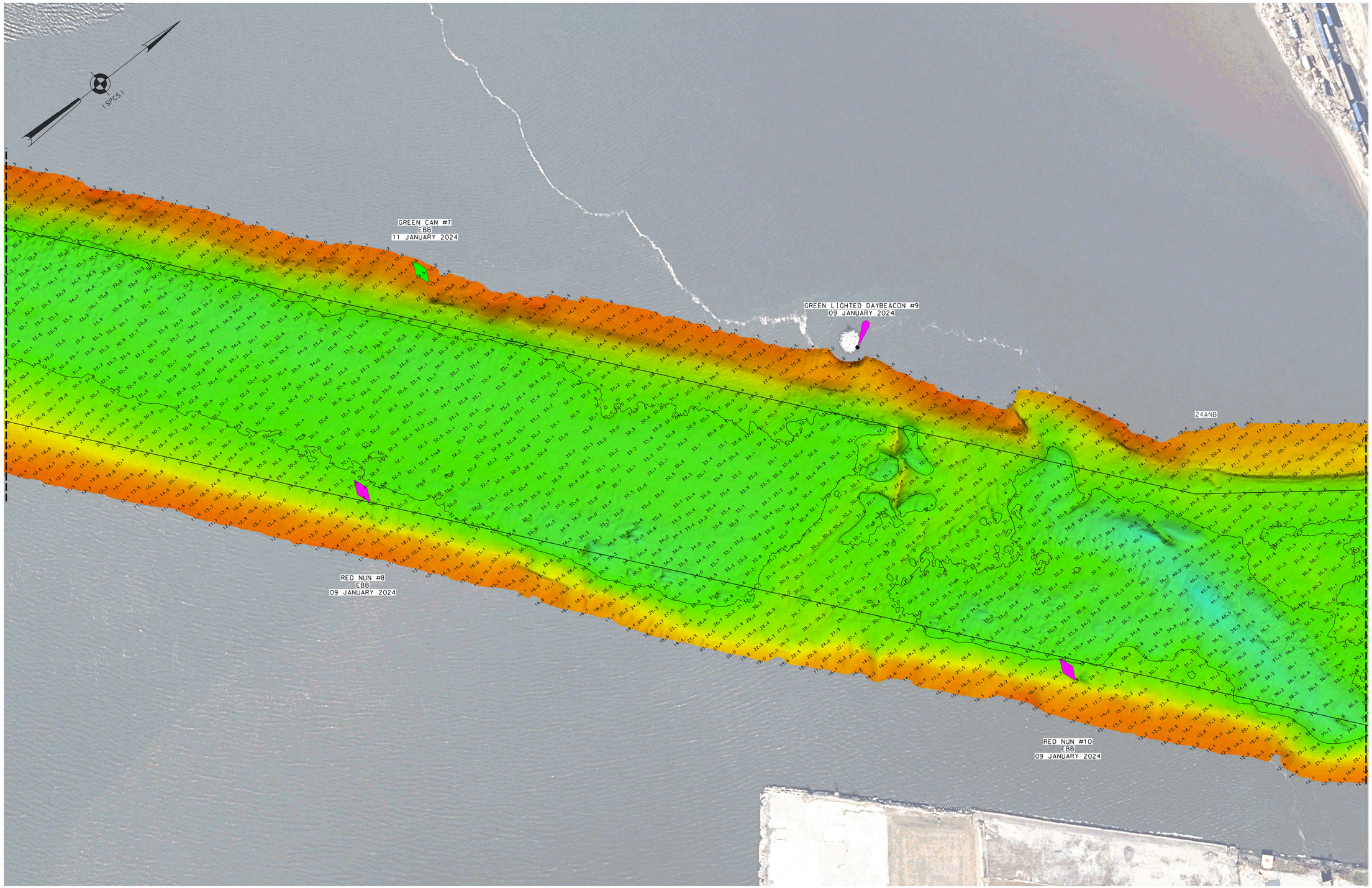

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	CWF
MP	CWF, CM

DATES OF SURVEY:
09, 11 JANUARY 2024
06 FEBRUARY 2024

REQ. NO./FILE NO.:5396/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

APPROVED: N. VITOLLO
FIELD CARTOGRAPHER
APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION
APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 21 FEBRUARY 2024

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.
HACKENSACK RIVER
CONDITION SURVEY

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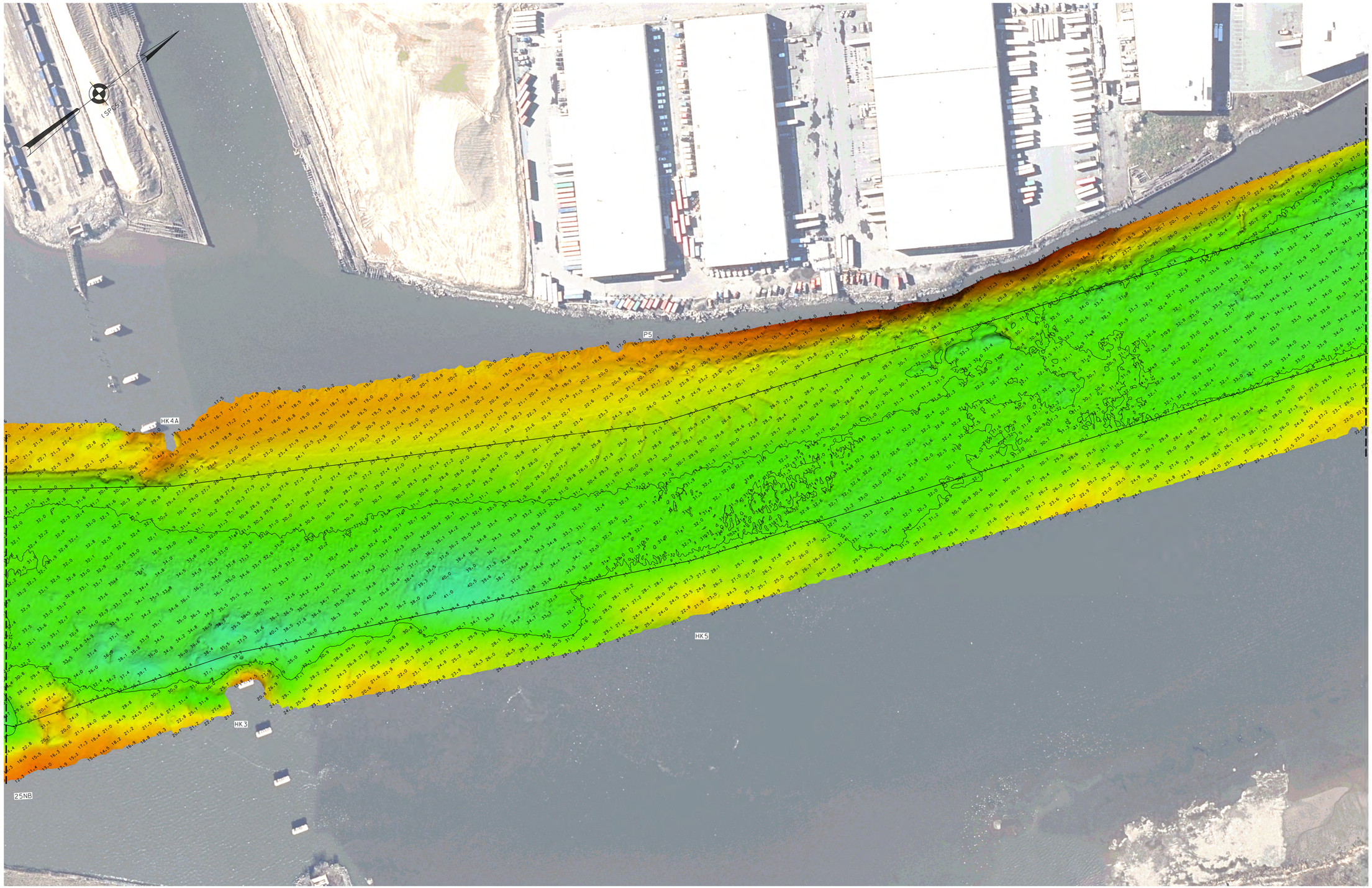

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	CWF
MP	CWF, CM

DATES OF SURVEY:
09, 11 JANUARY 2024
06 FEBRUARY 2024

REQ. NO./FILE NO.: 5396/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

APPROVED: N. VITOLLO
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 21 FEBRUARY 2024

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.
HACKENSACK RIVER

CONDITION SURVEY

VH-104

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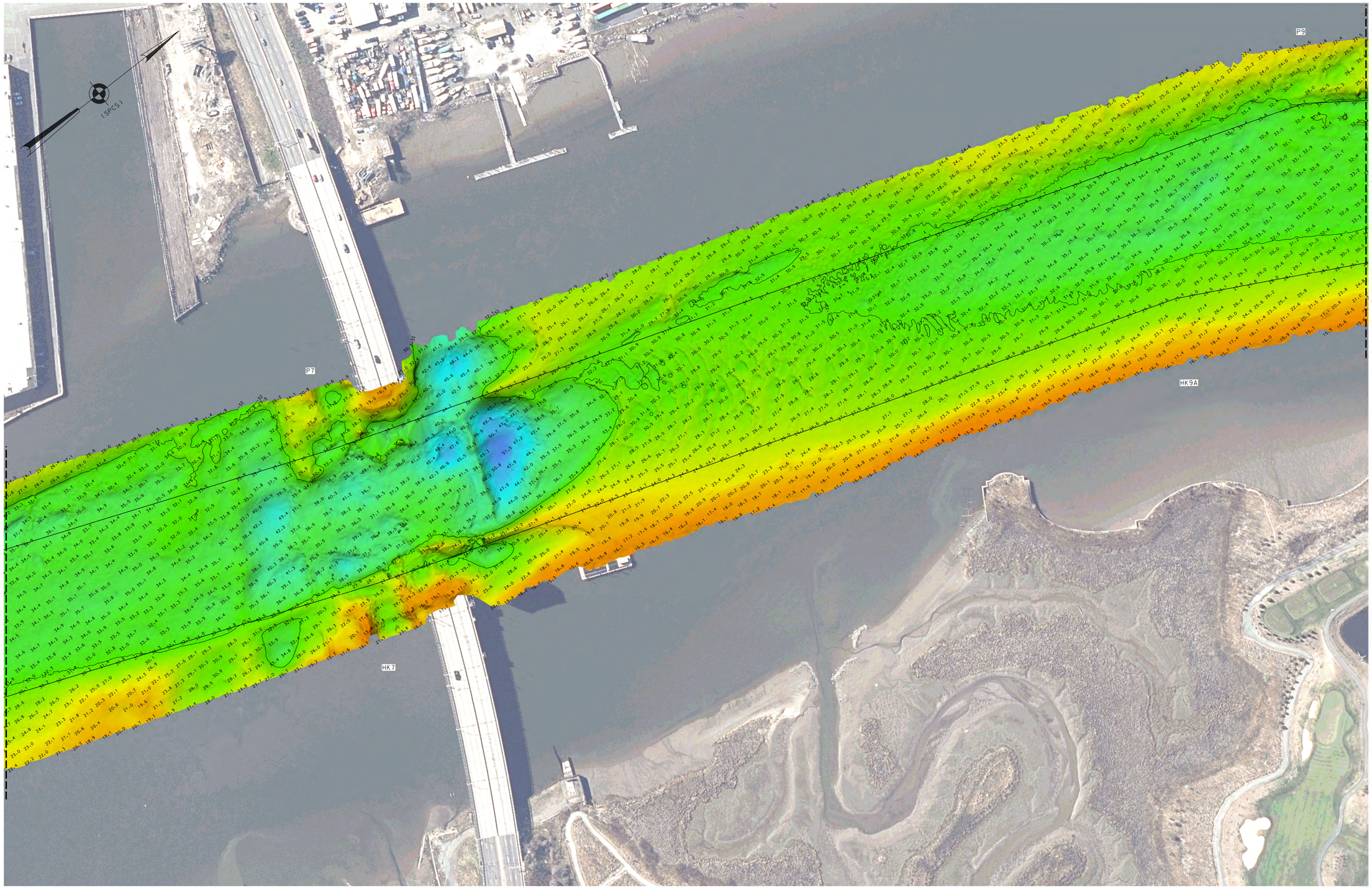

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

		PR	CWF
		WP	CWF. CM

DATES OF SURVEY:
09. 11 JANUARY 2024
06 FEBRUARY 2024

REQ. NO./FILE NO.: 53936/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

APPROVED: N. VITOLLO
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADURI
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIKE
DEPUTY FOR SURVEYS AND MAPPING BRANCH

DATE: 21 FEBRUARY 2024

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.
HACKENSACK RIVER
CONDITION SURVEY

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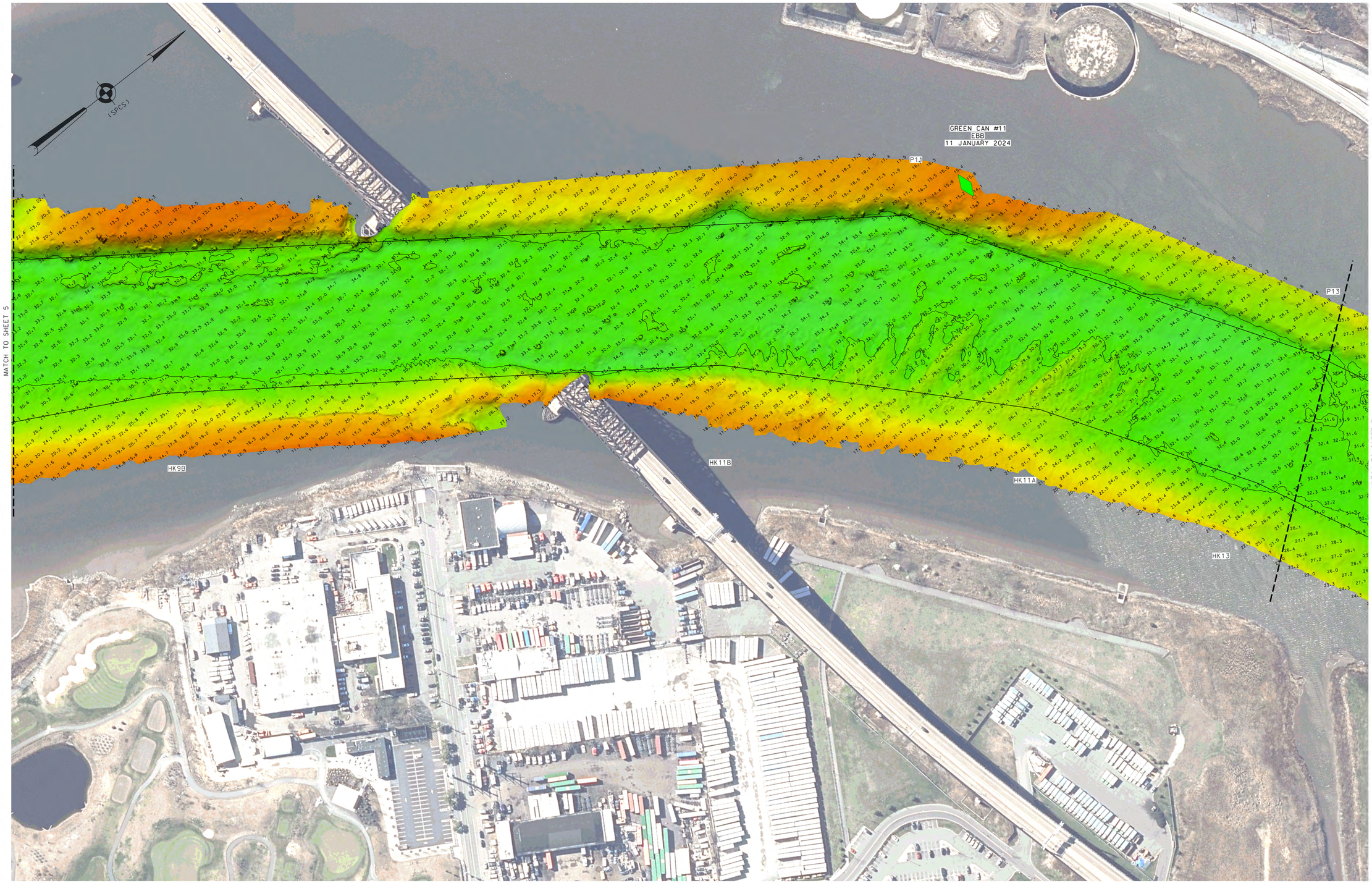

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

		PR.	CWF
		WP.	CWF. CM

DATES OF SURVEY:
09, 11 JANUARY 2024
06 FEBRUARY 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

REG. NO./FILE NO.: 15396/N3

APPROVED:	N. VITOLLO	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE	DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:		21 FEBRUARY 2024

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.
HACKENSACK RIVER
CONDITION SURVEY

VH-106

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*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	CWF
	WP	CWF - CM

DATES OF SURVEY:
09 - 11 JANUARY 2024
06 FEBRUARY 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

REG. NO./FILE NO.: 53596/N3

APPROVED: N. VITOLLO — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE AKAMNONU — DEPUTY CHIEF, GRAPHICS AND MAPPING BRANCH
DATE: 21 FEBRUARY 2024

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.
HACKENSACK RIVER

CONDITION SURVEY

VH-107

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MATCH TO SHEET 9

MATCH TO SHEET 7

P25A

P23A

HK25A

HK23A

SPOIL

0 100' 200'

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	CWF
	WP	CWF - CM

DATES OF SURVEY:
09, 11 JANUARY 2024
06 FEBRUARY 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

REG. NO./FILE NO.: 5396/N3

APPROVED: N. VITOLLO
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADURI
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: M. KRAZ
DEPUTY CHIEF, GEOSPATIAL GRAPHICS AND MAPPING BRANCH

DATE: 21 FEBRUARY 2024

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.
HACKENSACK RIVER

CONDITION SURVEY

VH-108

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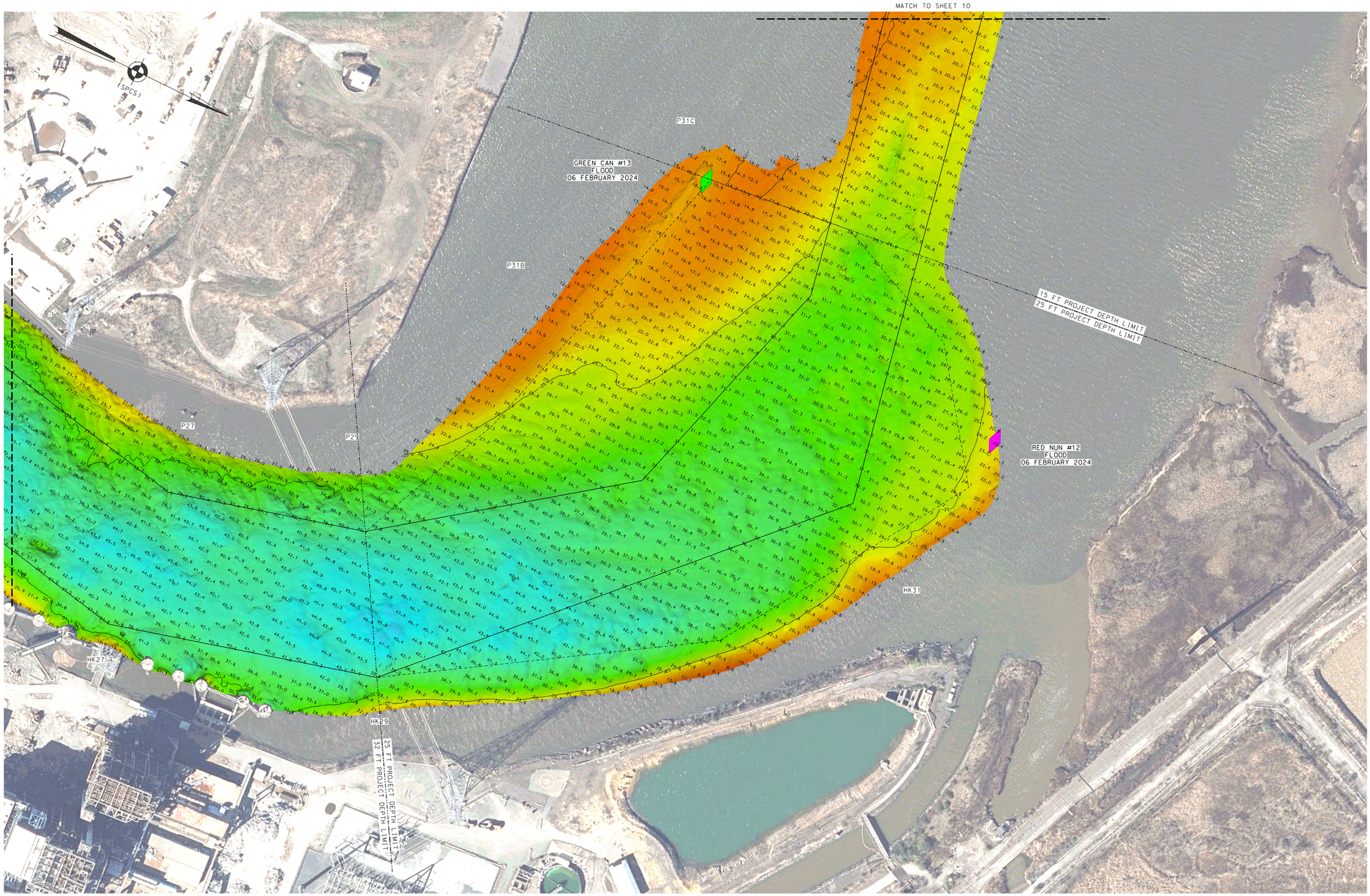

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	CWF
MP	CWF, CM

DATES OF SURVEY:
09, 11 JANUARY 2024
06 FEBRUARY 2024

REQ. NO./FILE NO.:5396/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
DNA10

APPROVED: N. VITOLLO — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF OF SURVEY SUPPORT SECTION
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 21 FEBRUARY 2024

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.
HACKENSACK RIVER

CONDITION SURVEY

VH-109

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*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	CWF
WP	CWF. CM

DATES OF SURVEY:
09, 11 JANUARY 2024
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SCALE:
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FIELD BOOKS:
DNA10

APPROVED:	N. VITOLLO, FIELD CARTOGRAPHER
APPROVED:	M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE, DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:	21 FEBRUARY 2024

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, N.J.
HACKENSACK RIVER
CONDITION SURVEY

VH-110
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