CORPS OF ENGINEERS

U. S. ARMY

E 613.000

E 614.000

N 662.000

E 615.000

E 616.000

GRID NORTH

RED/GREEN AB W/LIGHT
FLOOD
16 MARCH 2015

3DA

1A

MATCH TO SHEET 2

N 662.000

N 661.000

E 612.000

N 660.000

E 613.000

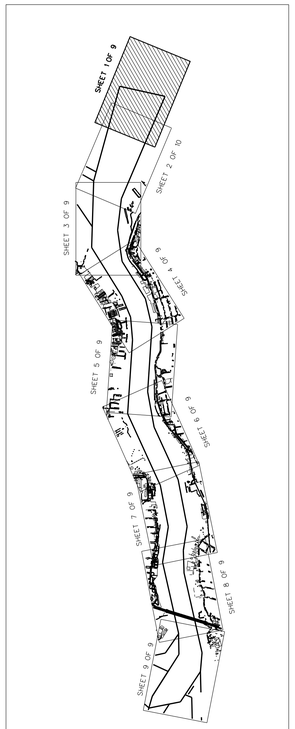
E 614.000

E 615.000

E 616.000

N 661.000

N 660.000



SHEET INDEX

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION HARD AS SPECIFIED IN EM 1110-2-1003.
-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 C.O.E. MEAN LOW WATER.
-THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
-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 MEDIAN DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS USING NYDOT RTN. RTK SIMON. AJD10031.
-THIS MAP IS NOT CEPD COMPLIANT.

NSRS BENCHMARK	
BENCHMARK:	TIDAL NO 6 STA 4 (KV0611)
ELEVATION:	7.65' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	AJD 10029
ELEVATION:	8.32' (NAVD 1988)

4295 Project Metadata

CLICK ON ICON
EDGE TO OPEN

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PDC	PR	
RD	MF	
DPM	MF	

DATES OF SURVEY:
19 MARCH 2015

FILE NO.:11375
REQUEST NO.: 42950/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: P. KEARNS / M. APFELD
CHIEF, SURVEY BRANCH

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
CHIEF, HYDROGRAPHIC SURVEY UNIT

APPROVED: J. MIRAZ
CHIEF, SURVEY SECTION

DATE: 15 APRIL 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONSTABLE HOOK REACH
CONDITION SURVEY

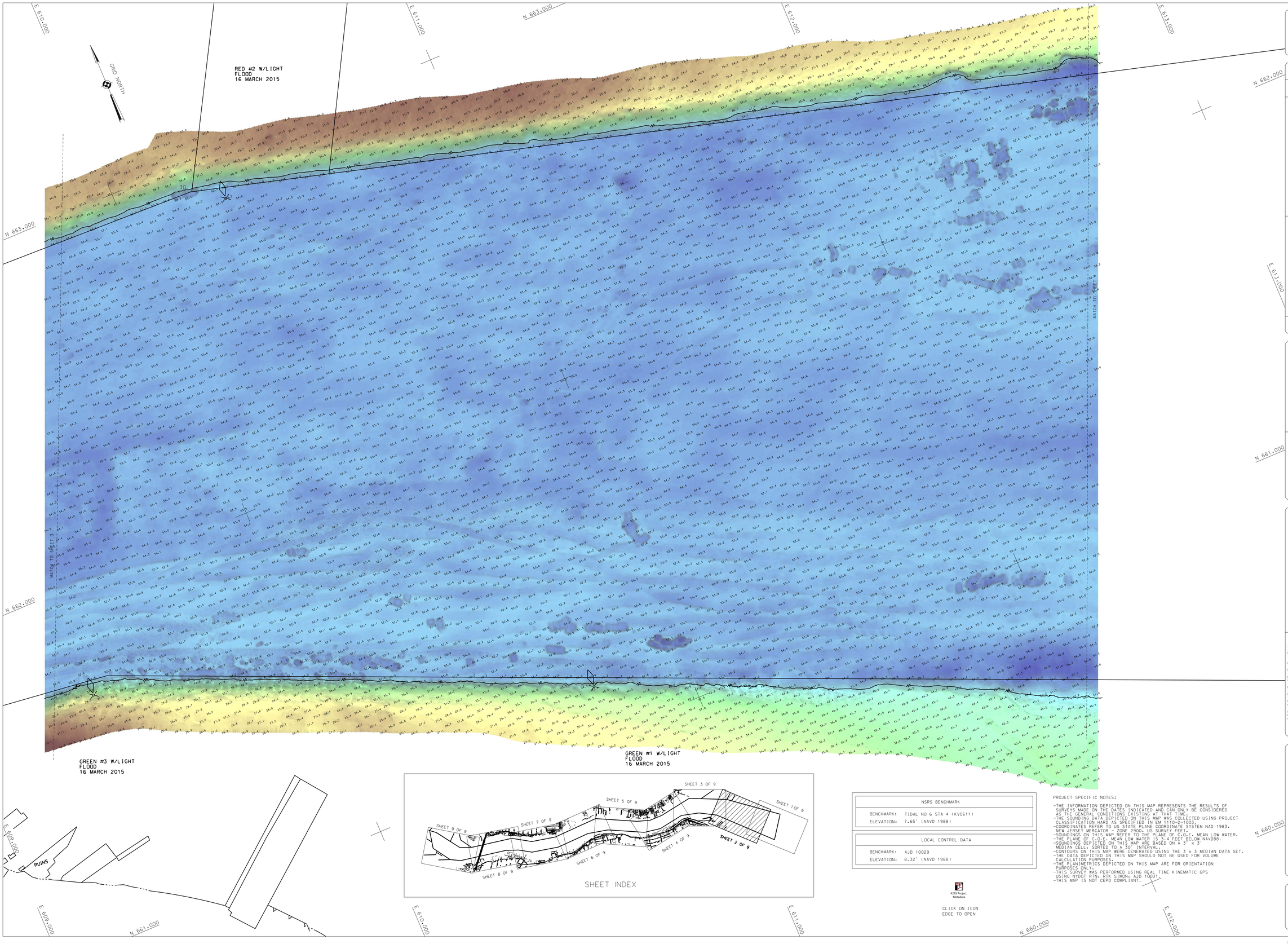
VH-101

SHEET 1 OF 6
(FORMERLY SHEET 2 OF 10)

1375
42950/N1/N3

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK	
BENCHMARK:	TIDAL NO 6 STA 4 (KV0611)
ELEVATION:	7.65' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	AJD 10029
ELEVATION:	8.32' (NAVD 1988)

4295 Project Metadata

CLICK ON ICON
EDGE TO OPEN

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION HARD AS SPECIFIED IN EM 1110-2-1003.
- 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 C.O.E. MEAN LOW WATER.
- THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
- 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 MEDIAN DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS USING NYDOT RTN, RTK SIMON, AJD 10031.
- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PDC	PR	
RD	MP	
BPH	MP	

DATES OF SURVEY:
19 MARCH 2015

FILE NO.:1375
REQUEST NO.: 42950/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: P. KEARNS / M. APPELO
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 15 APRIL 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL

CONSTABLE HOOK REACH

CONDITION SURVEY

VH-102

SHEET 2 OF 6
(FORMERLY SHEET 3 OF 10)

1375
42950/N1/N3

CORPS OF ENGINEERS

U. S. ARMY

E 607,000

E 608,000

E 609,000

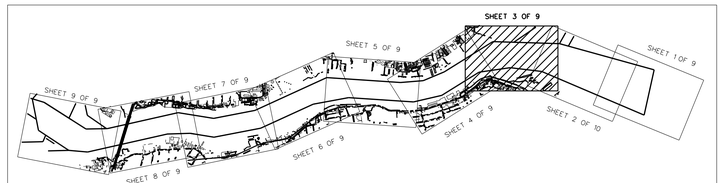
GRID NORTH

N 663,000

N 662,000

N 661,000

SHEET INDEX



RED LIGHTED #6
EBB
16 MARCH 2015

GREEN #5 W/LIGHT
EBB
16 MARCH 2015

GREEN #7 W/LIGHT
EBB
16 MARCH 2015

MATCH TO SHEET 4

MATCH TO SHEET 2

PILINGS

RUINS

RUINS

NSRS BENCHMARK	
BENCHMARK:	TIDAL NO 6 STA 4 (KV0611)
ELEVATION:	7.65' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	AJD 10029
ELEVATION:	8.32' (NAVD 1988)

4290 Project Metadata

CLICK ON ICON EDGE TO OPEN

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION HARD AS SPECIFIED IN EM 1110-2-1003.
-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 C.O.D.E. MEAN LOW WATER.
-THE PLANE OF C.O.D.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
-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 MEDIAN DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS USING NYDOT RTN, RTK_SIMON, AJD_10031.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PDC	PR	
RD	MP	MP
BPM		

DATES OF SURVEY:
19 MARCH 2015

FILE NO.:1375
REQUEST NO.: 42950/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: P. KEARNS / M. ARNOLD
CHIEF, SURVEY BRANCH

APPROVED: M. FORTE
CHIEF, ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 15 APRIL 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONSTABLE HOOK REACH
CONDITION SURVEY

VH-103

SHEET 3 OF 6
(FORMERLY SHEET 4 OF 10)

1375
42950/N1/N3

CORPS OF ENGINEERS

U. S. ARMY

E 603.000

E 604.000

E 605.000

E 606.000

E 607.000

N 663.000

N 662.000

N 661.000

N 660.000

GRID NORTH

RED #8 W/LIGHT
FLOOD
16 MARCH 2015

RUINS

RUINS

RUINS

PILINGS

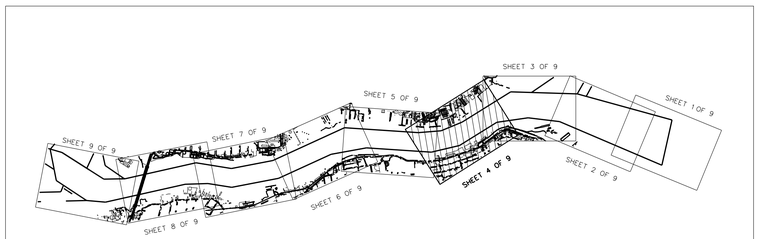
PILINGS

BARGE

MATCH TO SHEET 5

MATCH TO SHEET 3

SHEET INDEX



NSRS BENCHMARK	
BENCHMARK:	TIDAL NO 6 STA 4 (KV0611)
ELEVATION:	7.65' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	AJD 10029
ELEVATION:	8.32' (NAVD 1988)

4295 Project Metadata

CLICK ON ICON
EDGE TO OPEN

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION HARD AS SPECIFIED IN EM 1110-2-1003.
-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 C.O.E. MEAN LOW WATER.
-THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
-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 MEDIAN DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS USING NYDOT RTN, RTK SIMON, AJD 10031.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PDC PR
RD MP
BPH MP

DATES OF SURVEY:
19 MARCH 2015

FILE NO.:11375
REQUEST NO.: 42950/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: P. KEARNS / M. APPELO
CHIEF, SURVEYING & MAPPING BRANCH

APPROVED: M. FORTE
CHIEF, ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
CHIEF, FIELD GROUP OF SURVEYS

DATE: 15 APRIL 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONSTABLE HOOK REACH
CONDITION SURVEY

VH-104

SHEET 4 OF 6
(FORMERLY SHEET 5 OF 10)

1375
42950/N1/N3

CORPS OF ENGINEERS

U. S. ARMY

E 691.000

E 692.000

E 693.000

N 662.000

N 661.000

N 660.000

RUINS

RUINS

MATCH TO SHEET 6

GRID NORTH

POSTS

DOCK RUINS

DOCK RUINS

MATCH SHEET 4

VESSEL

GREEN CAN #9 W/LIGHT
FLOOD
16 MARCH 2015

CULV

SHEET INDEX

SHEET 1 OF 9
SHEET 2 OF 10
SHEET 3 OF 9
SHEET 4 OF 9
SHEET 5 OF 9
SHEET 6 OF 9
SHEET 7 OF 9
SHEET 8 OF 9
SHEET 9 OF 9

NSRS BENCHMARK	
BENCHMARK:	TIDAL NO 6 STA 4 (KV0611)
ELEVATION:	7.65' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	AJD 10029
ELEVATION:	8.32' (NAVD 1988)

4295 Project Metadata

CLICK ON ICON
EDGE TO OPEN

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 EXISITING AT THAT TIME.
-THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION HARD AS SPECIFIED IN EM 1110-2-1003.
-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 C.O.E. MEAN LOW WATER.
-THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
-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 MEDIAN DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS USING NYDOT RTN, RTK_SIMON, AJD 10031.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PDC	RD	BPH
JR	MP	MP

DATES OF SURVEY:
19 MARCH 2015

FILE NO.:1375
REQUEST NO.1 42950/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: P. KEARNS/ M. APFELD
FIELD OPERATIONS

APPROVED: M. FORTE
CIVIL MATHEMATIC TECHNICIAN

APPROVED: D. CLARKE
LCDR CORPSMEMBER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 15 APRIL 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONSTABLE HOOK REACH
CONDITION SURVEY

VH-105

SHEET 5 OF 6
(FORMERLY SHEET 6 OF 10)

1375
42950/N1/N3

E 597.000

N 661.000

E 598.000

E 599.000

N 662.000

E 600.000

GRID NORTH

DOCK RUINS

DOCK RUINS

RUINS

CULV

N 662.000

N 660.000

MATCH TO SHEET 5

MATCH TO SHEET 7

N 661.000

E 601.000

N 659.000

SHEET 3 OF 9

SHEET 5 OF 9

SHEET 1 OF 9

SHEET 7 OF 9

SHEET 9 OF 9

SHEET 4 OF 9

SHEET 2 OF 10

SHEET 6 OF 9

SHEET 8 OF 9

SHEET INDEX

E 598.000

E 599.000

N 659.000

E 600.000

E 601.000

N 660.000

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION HARD AS SPECIFIED IN EM 1110-2-1003.
-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 C.O.E. MEAN LOW WATER.
-THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
-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 MEDIAN DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS USING NYDOT RTN, RTK_SIMON, AJD 10013.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK	
BENCHMARK:	TIDAL NO 6 STA 4 (KV0611)
ELEVATION:	7.65' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	AJD 10029
ELEVATION:	8.32' (NAVD 1988)

4295 Project Metadata

CLICK ON ICON EDGE TO OPEN

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PDC	PR	
RD	MP	
BPM	MP	

DATES OF SURVEY:
19 MARCH 2015

FILE NO.11375
REQUEST NO.1 4295/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: P. KEARNS/ M. ARFELD
FIELD SURVEYING

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
CHIEF CARTOGRAPHER

APPROVED: J. MIAZ
DEPUTY CHIEF OF SURVEYS

DATE: 15 APRIL 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

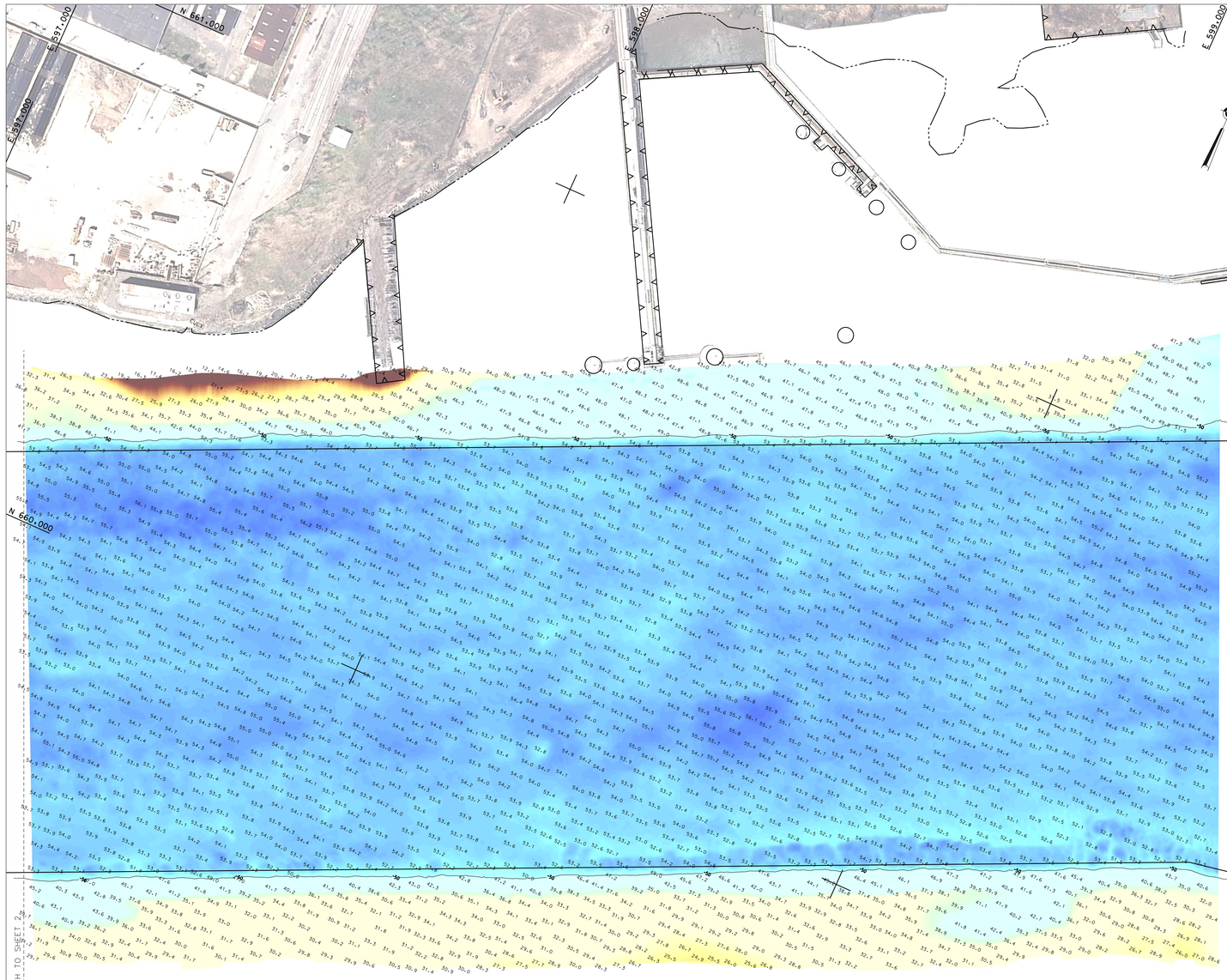
NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
CONSTABLE HOOK REACH
CONDITION SURVEY

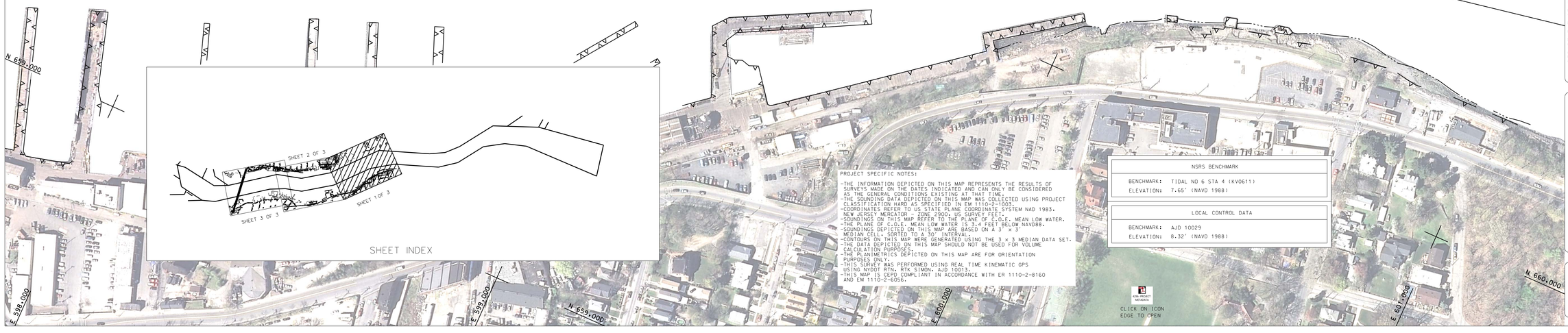
VH-106

SHEET 6 OF 6
(FORMERLY SHEET 7 OF 10)

CORPS OF ENGINEERS

U. S. AMY





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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION HARD AS SPECIFIED IN EM 1110-2-1003.
-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 C.O.G.E. MEAN LOW WATER.
-THE PLANE OF C.O.G.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
-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 MEDIAN DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS USING NYDOT RTN, RTK SIMON, AJD 10013.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK	
BENCHMARK:	TIDAL NO 6 STA 4 (KVO611)
ELEVATION:	7.65' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	AJD 10029
ELEVATION:	8.32' (NAVD 1988)

CLICK ON ICON EDGE TO OPEN

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

TD PK
PDC PK
JC MP
BPH MP

DATES OF SURVEY:
19 MARCH 2015

FILE NO. 11376
REQUEST NO.: 4296/NY/NJ

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

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

APPROVED: P. KEARNS/ M. ARNOLD
CHIEF, PLANNING DIVISION / CHIEF, ENGINEERING DIVISION

APPROVED: M. FORTE
CHIEF, ENGINEERING DIVISION

APPROVED: D. CLARKE
CHIEF, OPERATIONS DIVISION

APPROVED: J. MRAZ
CHIEF, SURVEY SECTION

DATE: 16 APRIL 2015

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
BERGEN POINT- EAST REACH
CONDITION SURVEY

VH-101
SHEET 1 OF 3
(FORMERLY SHEET 6 OF 9)

1376
4296D/N1/N3

CORPS OF ENGINEERS

U. S. ARMY

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

E 584.000 | E 585.000 | E 596.000 | E 597.000

N 661.000

N 660.000

N 659.000

N 658.000

E 594.000

E 595.000 | E 596.000 | E 597.000

RED #12 W/LIGHT
EBB
13 JANUARY 2015

RED #10 W/LIGHT
FLOOD
13 JANUARY 2015

GREEN #11 W/LIGHT
EBB
13 JANUARY 2015

MATCH TO SHEET 1

MATCH TO SHEET 3

BOAT

POSTS

POSTS

POSTS

SHEET INDEX

SHEET 1 OF 3

SHEET 2 OF 3

SHEET 3 OF 3

NSRS BENCHMARK	
BENCHMARK:	TIDAL NO 6 STA 4 (KV0611)
ELEVATION:	7.65' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	AJD 10029
ELEVATION:	8.32' (NAVD 1988)

CLICK ON ICON
EDGE TO OPEN

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION HARD AS SPECIFIED IN EM 1110-2-1003.
-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 C.O.E. MEAN LOW WATER.
-THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
-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 MEDIAN DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS USING NYDOT RTN, RTK SIMON. AJD 10031.
-THIS MAP IS CEPO COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

	TD	PK
	PDC	PK
	JC	MD
	BPH	MD

DATES OF SURVEY:
19 MARCH 2015

FILE NO. 11376
REGEST NO.1 42960/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: P. KEARNS / M. ARNOLD
CHIEF, SURVEY BRANCH

APPROVED: M. TORTE
CHIEF, ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
CHIEF, CARTOGRAPHER

APPROVED: J. MRAZ
SURVEY CHIEF OF PARTIES

DATE: 16 APRIL 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL
BERGEN POINT- EAST REACH
CONDITION SURVEY

VH-102

SHEET 2 OF 3
(FORMERLY
SHEET 7 OF 9)

1376
42960/N1/N3

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

TD	PR
PDC	PR
MS	MP
BPH	MP

DATES OF SURVEY:
19 MARCH 2015

FILE NO.:1376
REQUEST NO.: 42960/N1/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: P. KEARNS/ M. APPELD
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 16 APRIL 2015

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
KILL VAN KULL CHANNEL
BERGEN POINT-EAST REACH
CONDITION SURVEY

VH-103

SHEET 3 OF 3
(FORMERLY
SHEET 8 OF 9)

NSRS BENCHMARK	
BENCHMARK:	TIDAL NO 6 STA 4 (KVQ611)
ELEVATION:	7.65' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	AJD 10029
ELEVATION:	8.32' (NAVD 1988)

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION HARD AS SPECIFIED IN EM 1110-2-1003.
- 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 C.O.E. MEAN LOW WATER.
- THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD88.
- 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 MEDIAN DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS USING NYDOT RTN, RTK SIMON, AJD 10031.
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

1376
42960/N1/N2