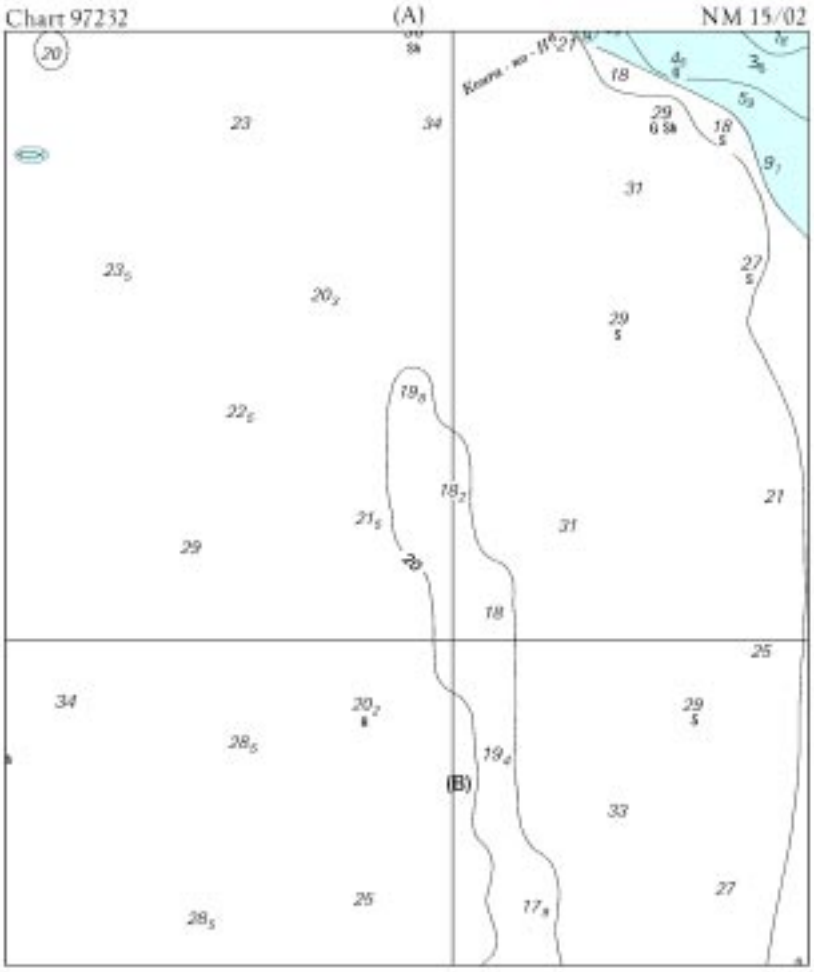
Chart 97232
(A)
NM 15/02
(B)

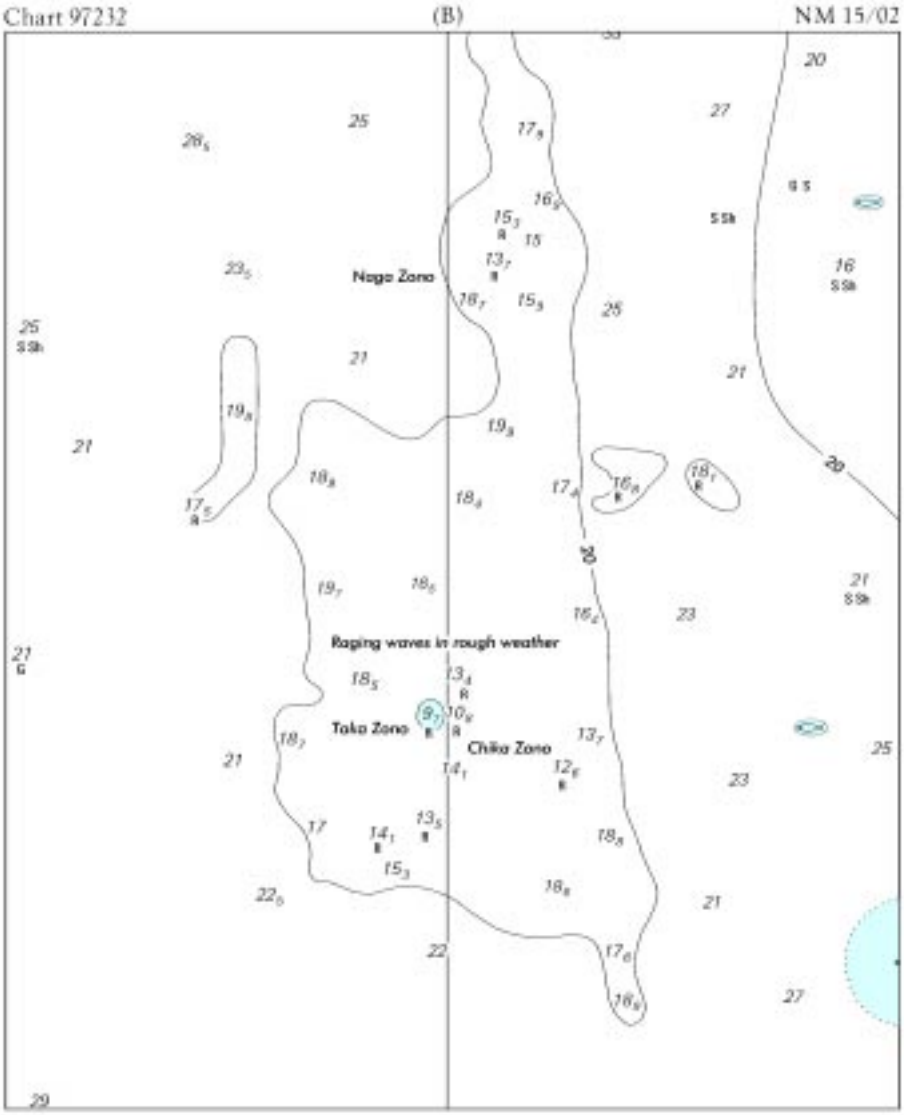
Chart 97232
(B)
NM 15/02
Niaga Zone
Raging waves in rough weather
Toka Zone
Chika Zone

Chart 11512 NM 15/02

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	43.0	42.0	43.0	43.0	12-01	600	3.3	44
BLOODY POINT RANGE	43.0	42.0	42.5	42.5	12-01	600	3.0	44
JONES ISLAND RANGE	44.0	43.0	43.0	44.0	12-01	600	1.2	44
TYBEE KNOLL CUT RANGE	42.0	43.0	43.5	44.0	12-01	500	2.5	42
NEW CHANNEL RANGE (A)	39.0	42.0	43.5	42.5	01-02	500	1.6	42
L. I. CROSSING RANGE	45.0	43.5	44.0	41.5	01-02	500	2.6	42
LOWER FLATS RANGE	46.0	45.0	46.0	45.0	01-02	500	1.3	42
UPPER FLATS RANGE	49.0	45.5	46.0	42.0	01-02	500	1.2	42
THE BIGHT CHANNEL	46.0	45.0	47.0	46.0	01-02	500	1.5	42
FT. JACKSON RANGE	49.0	46.0	47.0	41.0	01-02	500	0.7	42
OGLETHORPE RANGE	44.0	46.0	43.0	43.0	01-02	500	1.2	42
WRECKS CHANNEL (B)	46.0	46.0	46.0	45.0	01-02	500	1.5	42
CITY FRONT CHANNEL	43.0	43.0	43.5	40.0	01-02	500	1.5	42
MARSH ISLAND CHANNEL (C)	43.0	44.0	44.0	42.0	01-02	500	1.7	42
KINGS ISLAND CHANNEL (D)	40.0	40.0	43.5	44.0	01-02	500	2.1	42
WHITEHALL CHANNEL (E)	39.0	38.0	39.0	37.5	01-02	400	0.6	42-36
PORT WENTWORTH CHANNEL (F)	30.0	33.0	32.0	32.0	12-94; 01-02	200	1.2	30

A. OYSTER BED I.TURNING BASIN-CONTROLLING DEPTH 44.0 FT, 40.0 FT 100 FT FROM BACKSIDE.
B. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 40.0 FT, 30.0 FT 100 FT FROM BACKSIDE.
C. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 35.0 FT, 27.0 FT 100 FT FROM BACKSIDE.
D. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 43.0 FT, 38.0 FT 100 FT FROM BACKSIDE.
E. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 45.0 FT 100 FT FROM BACKSIDE.
F. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 31.5 FT, 28.5 FT 100 FT FROM BACKSIDE.

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.

NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.

NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11514 (Side A) NM 15/02

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OGLETHORPE RANGE	44.0	46.0	43.0	43.0	01-02	500	1.2	42
WRECKS CHANNEL (A)	46.0	46.0	46.0	45.0	01-02	500	1.5	42
CITY FRONT CHANNEL	43.0	43.0	43.5	40.0	01-02	500	1.5	42
MARSH ISLAND CHANNEL (B)	43.0	44.0	44.0	42.0	01-02	500	1.7	42
KINGS ISLAND CHANNEL (C)	40.0	40.0	43.5	44.0	01-02	500	2.1	42
WHITEHALL CHANNEL (D)	39.0	38.0	39.0	37.5	01-02	400	0.6	42-36
PORT WENTWORTH CHANNEL (E)	30.0	33.0	32.0	32.0	12-94; 01-02	200	1.2	30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 40.0 FT, 30.0 FT 100 FT FROM BACKSIDE.
B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 35.0 FT, 27.0 FT 100 FT FROM BACKSIDE.
C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 43.0 FT, 38.0 FT 100 FT FROM BACKSIDE.
D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 45.0 FT 100 FT FROM BACKSIDE.
E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 31.5 FT, 28.5 FT 100 FT FROM BACKSIDE.

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.

NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.

NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12327 NM 15/02

NEW YORK HARBOR - LOWER BAY - CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2001
AND SURVEYS TO JUN - JUL 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
AMBROSE CHANNEL	40.3	44.7	44.9	28.4	9-95	2000	9.2	45
SANDY HOOK CHAN. (EAST) A	38.3	39.3	37.8	31.4	6,7-01	800	3.5	35
SANDY HOOK CHANNEL	20.3	39.8	36.0	33.1	6,7-01	800	2.4	35
CHAPEL HILL:								
SOUTH CHANNEL	29.0	30.1	30.2	26.7	3,4-01	1000	2.7	30
NORTH CHANNEL	28.4	29.0	29.1	28.3	3,4-01	1000	1.8	30
TERMINAL CHANNEL	44.2	45.7	46.0	44.0	2-97	400	0.8	35
KEYPORT HARBOR CHANNEL	4.5	6.6	6.6	5.8	4,5-99	200	0.9	8
RARITAN BAY EAST REACH	35.3	37.6	36.8	32.7	7-99	600	4.0	35
RARITAN BAY WEST REACH	33.8	38.7	38.9	29.7	7-99	600	2.4	35
SEGUINE POINT BEND	33.1	34.8	37.8	23.7	7-99;4-01	600-800	1.2	35
RED BANK REACH	33.4	40.8	40.8	36.5	4-01	600	1.2	35
WARD POINT BEND (EAST)	33.0	38.5	37.0	29.4	4-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.5	33.8	32.4	32.1	4-01	600-800	0.8	35
RARITAN RIVER CUT OFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	23.6	22.7	22.5	21.9	3-93	400	0.9	30
GREAT BEDS REACH	24.6	25.7	25.3	25.2	6-01	300	0.6	25
SOUTH AMBOY REACH	24.4	23.1	22.8	23.6	6-01	300	1.2	25

A. THE NAVAL FACILITIES ENGINEERING COMMAND MAINTAINS A 45 FOOT PROJECT FOR A WIDTH OF 600 FEET IN SANDY HOOK (EAST) TO THE TURNING BASIN.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12327 NM 15/02

ARTHUR KILL, KILL VAN KULL, NEWARK BAY,
PASSAIC AND HACKENSACK RIVERS CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS-
REPORT OF OCT 2001 AND SURVEYS TO SEP-OCT 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			
NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
ARTHUR KILL (OUTERBRIDGE REACH TO N. OF SHOOTERS I. REACH)	A27.3	800-500	5-99;2,3,4,5-01
KILL VAN KULL (CONSTABLE HOOK REACH TO BERGEN PT. WEST REACH)	34.0	2000-800	12-96;2-97;9,10-01
S. OF SHOOTERS I. REACH	B5.0	400	8-90
NEWARK BAY (NEWARK BAY S. REACH TO DROYERS PT. REACH)	C17.0	1750-300	3-99
PASSAIC RIVER (KEARNY PT. REACH TO ARLINGTON REACH)	D0.8	300-200	12-99;2-00
HACKENSACK RIVER (DROYERS PT. REACH TO TURNING BASIN)	14.4	300-800	4-01

A. A DEPTH OF 34.5 FEET WAS AVAILABLE IN THE MIDDLE HALF.
B. OBSTUCTIONS INTERSPERSED IN THE TWO RIGHT QUARTERS. THERE IS A MINIMUM DEPTH OF 5.9 FEET OVER WRECKAGE.
C. A DEPTH OF 22.4 FEET WAS AVAILABLE IN THE MIDDLE HALF. EXCEPT FOR SHOALING TO 9 FT AT 40° 42' 11.4" N 74° 06' 56.1" W.
D. A DEPTH OF 5.4 FEET WAS AVAILABLE IN THE MIDDLE HALF.

NOTE 1. SEE LARGE SCALE CHARTS FOR MORE DETAIL OF REACHES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 12331 NM 15/02

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2001 AND SURVEYS TO JUN 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
RARITAN BAY-WEST REACH	33.8	38.7	38.9	29.7	7-99	600	2.4	35
SEGUINE POINT BEND	33.1	34.8	37.8	23.7	7-99;4-01	600-800	1.2	35
RED BANK REACH	33.4	40.8	40.8	36.5	4-01	600	1.2	35
WARD POINT BEND (EAST)	33.0	38.5	37.0	29.4	4-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.5	33.8	32.4	32.1	4-01	600-800	0.8	35
OUTERBRIDGE REACH	34.2	35.4	35.0	32.2	4-96;4-01	600-800	0.8	35
PORT SOCONY REACH	34.9	35.3	35.7	34.9	5-99	600-800	0.8	35
PORT READING REACH	28.1	35.5	35.3	22.9	5-99	500	1.8	35
FRESH KILLS REACH	30.0	35.2	36.5	34.4	2,3-01	500	1.8	35
RARITAN RIVER CUTOFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	23.6	22.7	22.5	21.9	3-91	400	0.9	30
GREAT BEDS REACH	24.6	25.7	25.3	25.2	6-01	300	0.6	25
SOUTH AMBOY REACH	24.4	23.1	22.8	23.6	6-01	300	1.2	25

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12332 NM 15/02

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2001 AND SURVEYS TO JUN 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
WARD POINT BEND (EAST)	33.0	38.5	37.0	29.4	4-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.5	33.8	32.4	32.1	4-01	600-800	1.3	35
OUTERBRIDGE REACH	34.2	35.4	35.0	32.2	4-96;4-01	600	1.6	35
RARITAN RIVER CUTOFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	23.6	22.7	22.5	21.9	3-91	400	0.9	30
GREAT BEDS REACH	24.6	25.7	25.3	25.2	6-01	300	0.6	25
SOUTH AMBOY REACH	24.4	23.1	22.8	23.6	6-01	300	1.2	25
SANDY POINT REACH	22.2	22.0	18.6	23.8	6-01	300	0.9	25
KEASBEY REACH	16.3	19.8	23.2	20.7	6-01	300	0.9	25
RED ROOT REACH	13.5	16.7	17.6	14.6	6-01	300	1.5	25
CRAB ISLAND REACH	15.0	14.5	14.5	12.5	9-88	200	1.2	15
NORTHWEST REACH	A6.0	A7.5	A7.5	12.2	7-62	200	1.2	15
TITANIUM REACH	4.1	4.0	1.9	1.6	6-01	300	0.6	25
SOUTH CHANNEL	C2.0	D4.2	B4.2	B2.1	7-62;3,4-90	150	0.7	15-10

A. SHOALS LOCATED OPPOSITE RARITAN RIVER LIGHT 30 TO 400 YARDS SOUTH; A DEPTH OF 13 FEET FOR A WIDTH OF 200 FEET WAS AVAILABLE TO THE WEST OF THE PROJECT CHANNEL.
B. POSSIBLE 6 FT OBSTRUCTION LOCATED IN 40°29'34.4"N, 74°19'03.0"W.
C. POSSIBLE 6 FT OBSTRUCTION LOCATED IN 40°29'35.4"N, 74°19'04.5"W.
D. POSSIBLE 4 FT OBSTRUCTION LOCATED IN 40°29'37.4"N, 74°19'04.0"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12333 NM 15/02

ARTHUR KILL, KILL VAN KULL, NEWARK BAY AND UPPER BAY CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP-OCT 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
FRESH KILLS REACH	30.0	35.2	36.5	34.4	2,3-01	500	1.8	35
TREMLEY POINT REACH	33.3	37.7	36.9	32.0	2,3-01	600	0.9	35
PRALLS ISLAND REACH	30.8	34.8	36.1	31.0	2,3-01	500	1.2	35
GULFPORT REACH	27.3	37.0	37.0	31.0	2,3-01	500-600	1.1	35
ELIZABETHPORT REACH	32.4	35.9	35.3	31.1	1,2-01	500-600	1.1	35
N OF SHOOTERS ISLAND REACH	33.0	34.5	35.6	33.9	5-99	600	1.0	35
S OF SHOOTERS ISLAND REACH	18.6	24.1	14.0	A 5.0	8-90	400	1.0	30
BERGEN PT. WEST REACH	38.1	40.0	40.0	37.1	12-96;2-97;5-99	800	1.1	35
BERGEN PT. EAST REACH	37.4	40.0	40.0	39.5	12-96;2-97	800	1.0	35
CONSTABLE HOOK REACH	34.0	40.0	40.0	34.8	12-96;2-97;9,10-01	2000-800	2.2	35
NEWARK BAY SOUTH REACH	40.3	40.1	40.2	39.1	3-99	1750-1000	1.4	40
NEWARK BAY MIDDLE REACH	36.9	40.6	37.6	34.6	3-99	1750-500	1.4	40
ELIZABETH CHANNEL	39.3	39.8	39.9	39.1	3-99	1350-500	1.4	40
PORT NEWARK CHANNEL:								
PORT NEWARK(BRANCH CHANNEL)	36.9	37.9	36.8	35.8	3-99	1050-400	0.4	40
PIERHEAD CHANNEL	36.5	37.4	35.9	36.0	3-99	300	0.7	40

A. OBSTRUCTIONS INTERSPERSED IN THE TWO RIGHT QUARTERS. THERE IS A MINIMUM DEPTH OF 5.9 FT OVER WRECKAGE.

* CONTROLLING DEPTHS IN CHANNELS OF RARITAN BAY- EAST REACH TO AND INCLUDING FRESH KILLS REACH ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM LOWER NEW YORK BAY. CONTROLLING DEPTHS FROM CONSTABLE HOOK TO AND INCLUDING TREMLEY POINT REACH ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM UPPER NEW YORK BAY.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12337 NM 15/02

NEWARK BAY,PASSAIC AND HACKENSACK RIVERS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2001 AND SURVEYS TO APR 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
NEWARK BAY MIDDLE REACH	36.9	40.6	37.6	34.6	3-99	1750-500	1.4	40
NEWARK BAY NORTH REACH	28.1	35.1	22.8	A18.0	3-99	900-500	1.1	35
TURNING BASIN	24.3	25.4	22.4	A17.0	3-99	900	0.26	35
PASSAIC RIVER:								
KEARNY PT REACH	16.4	17.6	17.1	13.2	12-99; 2-00	300	1.1	30
POINT NO POINT REACH	B1.2	5.6	14.8	10.0	12-99; 2-00	300	1.1	30
HARRISON REACH	C2.2	6.0	5.4	1.9	12-99; 2-00	300	1.9	20
NEWARK REACH	0.9	9.4	11.4	D1.0	12-99; 2-00	300	1.3	B20
KEARNY REACH	3.6	8.4	7.2	E0.8	12-99; 2-00	300	0.9	B20
ARLINGTON REACH	2.6	11.0	8.0	F2.6	12-99; 2-00	200	0.9	16
BELLEVILLE REACH	0.1	0.4	8.0	9.9	6-92 I	150	1.4	10
NUTLEY REACH	2.6	9.2	7.4	3.5	11-89 I	150	1.7	10
RUTHERFORD REACH	1.7	5.1	3.8	3.7	11-89 I	150	2.2	10
WALLINGTON REACH	G2.2	1.5	1.9	H1.1	11-89 I	150	0.9	10
HACKENSACK RIVER:								
DROYERS POINT REACH	24.8	27.3	25.1	18.4	4-01	300-400	1.5	30
MARION REACH	22.6	27.9	27.0	18.7	4-01	300	1.8	30
TURNING BASIN	14.4	22.7	28.2	21.8	4-01	300-800	0.2	25
PORT NEWARK CHANNEL:								
BRANCH CHANNEL	36.9	37.9	36.8	35.8	3-99	1050-400	0.4	40
INSHORE CHANNEL	38.4	38.9	38.3	36.3	3-99	400	1.1	35
PIERHEAD CHANNEL	36.5	37.4	35.9	36.0	3-99	300	0.7	40

A. EXCEPT FOR A SHOAL TO 9 FT AT 40° 42' 11.4" N 74° 06' 56.1" W ALONG THE RIGHT OUTSIDE QUARTER OF THE REACH.

B. EXCEPT FOR A SHOAL TO BARE FROM 40° 44' 20" N 74° 07' 05" W TO 40° 44' 22" N 74° 07' 07" W

C. EXCEPT FOR SHOALS, BARE AT M.L.L.W., FROM 40° 44' 17" N 74° 08' 32" W TO 40° 44' 14" N 74° 08' 34" W AND 40° 44' 26" N 74° 08' 18" W TO 40° 44' 23" N 74° 08' 25" W

D. EXCEPT FOR SHOALS, BARE AT M.L.L.W., FROM 40° 44' 07" N 74° 09' 36" W TO 40° 44' 09" N 74° 09' 39" W AND 40° 44' 03" N 74° 09' 24" W TO 40° 44' 09" N 74° 09' 31" W

E. EXCEPT FOR A SHOAL TO BARE FROM 40° 45' 38" N 74° 09' 43" W TO 40° 45' 31" N 74° 09' 47"W

F. EXCEPT FOR A SHOAL TO BARE FROM 40° 45' 59" N 74° 09' 25" W TO 40° 45' 56" N 74° 09' 27"W

G. A SHOAL BARE AT M.L.L.W. EXTENDS ACROSS THE LEFT OUTSIDE QUARTER ABOUT 370 YARDS DOWNSTREAM OF THE EIGHTH STREET BRIDGE.

H. A SHOAL BARE AT M.L.L.W. EXTENDS ACROSS THE RIGHT OUTSIDE QUARTER ABOUT 300 YARDS NORTH OF THE MAIN ST. BRIDGE AND SHOALING TO 0.3 FEET 175 FEET WEST OF THE SECOND ST. BRIDGE.

I. THE CORPS OF ENGINEERS HAS CONFIRMED THAT THIS REACH IS NOT ACTIVELY MAINTAINED.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18526 NM 15/02

COLUMBIA RIVER CHANNEL DEPTHS
MORGAN CHANNEL TO TOMAHAWK BAR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MORGAN CHANNEL	44	46	42	42	1-02	600	1.5	40
VANCOUVER LOWER CHANNEL	48	49	53	48	12-01	500	1.0	40
VANCOUVER RANGE	41	40	43	39	12-01	500	1.3	40
VANCOUVER UPPER CHANNEL	43	42	41	42	12-01	500	0.9	40
VANCOUVER LOWER TURNING BASIN	35	37	41	41	12-01	800	1.0	40
VANCOUVER UPPER TURNING BASIN	31	28	31	28	12-01	800	0.9	35
TOMAHAWK BAR	18	18	20	19	10-01	300	3.7	27

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 74240 NM 15/02

TWO WAY ROUTE

The Two Way Route shown on this chart is a ships' routing measure. Its use is not mandatory; however, it does indicate the best and safest route for all vessels having regard to charted depths and dangers.

Chart 74251 NM 15/02

TWO WAY ROUTE

The Two Way Route shown on this chart is a ships' routing measure. Its use is not mandatory; however, it does indicate the best and safest route for all vessels having regard to charted depths and dangers.

Chart 74253 NM 15/02

TWO WAY ROUTE

The Two Way Route shown on this chart is a ships' routing measure. Its use is not mandatory; however, it does indicate the best and safest route for all vessels having regard to charted depths and dangers.