Chart 18445 (Page B, Inset 4) NM 30/15

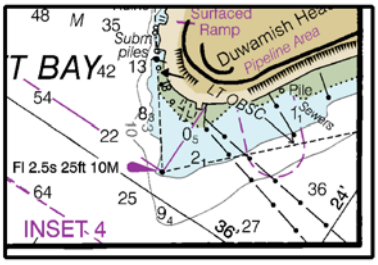

Chart 18449 NM 30/15

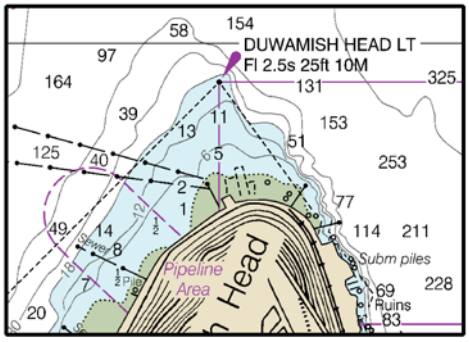

Chart 18450 NM 30/15

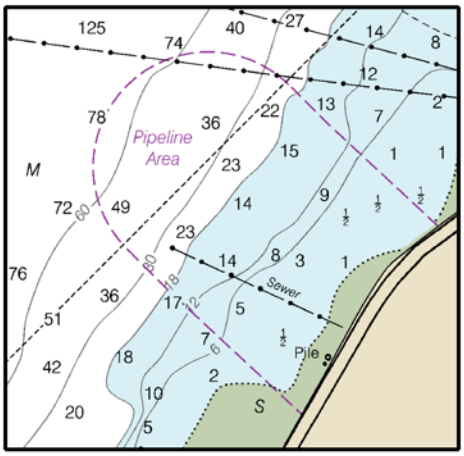

Chart 18474 NM 30/15

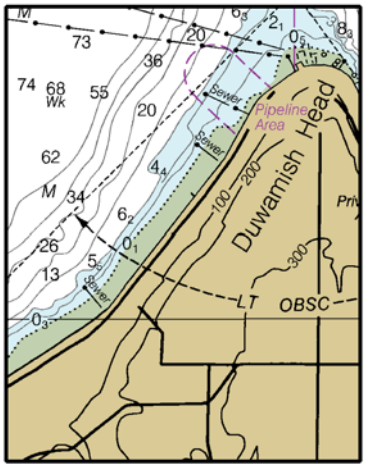

Chart 44084 (Panel B) NM N30/15

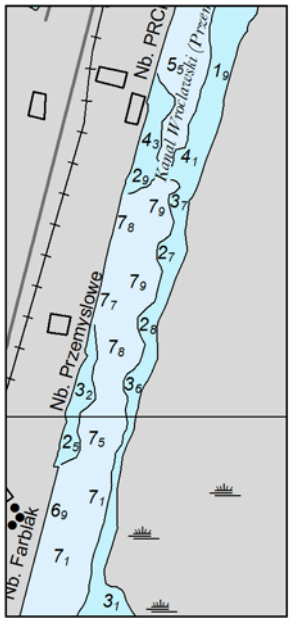

Chart 11491 (Side B) **NM 30/15**

TIDAL INFORMATION

PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Blount Island Bridge	(30°25'N/81°33'W)	3.8	3.6	0.1
Dames Point	(30°23'N/81°34'W)	3.7	3.5	0.1
Fulton	(30°23'N/81°30'W)	4.0	3.8	0.1
Phoenix Park	(30°23'N/81°38'W)	2.8	2.6	0.1
Jacksonville, Long Branch	(30°22'N/81°37'W)	2.7	2.6	0.1
Ortega River entrance	(30°17'N/81°42'W)	1.3	1.2	0.1
Piney Point	(30°14'N/81°40'W)	1.0	0.9	0.1
Mayport (Bar Pilots Dock)	(30°24'N/81°26'W)	5.0	4.7	0.1
Mayport Naval Station	(30°24'N/81°25'W)	5.2	4.9	0.1
Jacksonville, Main Street Bridge	(30°19'N/81°40'W)	2.0	1.9	0.1

Dashes (- - -) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.

(Sep 2014)

Chart 11537 (Left Panel) **NM 30/15**

WILMINGTON HARBOR CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2015

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			PROJECT DIMENSIONS		
NAME OF CHANNEL	MINIMUM DEPTH IN CHANNEL	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH MLLW (FEET)
HWY 74-76 BRIDGE TO BATTLESHIP					
REACH 5	25.3	2-15	400	0.3	32
REACH 4	25.4	2-15	400	0.1	32
REACH 3	26.3	2-15	400	0.1	32
REACH 2	25.2	2-15	400	0.1	32
REACH 1	20.6	2-15	400	0.4	32
BATTLESHIP TO HWY 133 BRIDGE INCLUDING TURNING BASIN					
REACH 3	18.7	2-15	VARIES	0.2	32
REACH 2	15.1	2-15	VARIES	0.5	32
REACH 1	28.4	2-15	VARIES	0.1	32
HWY 133 BRIDGE TO HILTON BRIDGE					
REACH 4	29.9	2-15	VARIES	0.1	32
REACH 3	27.7	2-15	300	0.1	32
REACH 2	29.9	2-15	300	0.2	32
REACH 1	30.6	2-15	VARIES	0.1	32
25 FT PROJECT					
REACH 4 (A)	32.2	12-14	VARIES	0.2	25
REACH 3	19.1	12-14	VARIES	0.3	25
REACH 2 (A)	14.3	12-14	VARIES	0.5	25
TURNING BASIN	7.5	12-14	VARIES	0.2	25
REACH 1	6.9	12-14	200	0.1	25

A. SPORADIC SHOAL OBSTRUCTIONS EXIST WITHIN THE CHANNEL BUT ARE NOT CHARTED. CONSULT CORPS OF ENGINEERS FOR LOCATION OF OBSTRUCTIONS.

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

Chart 12311 NM 30/15

CHRISTINA RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2015

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH MLLW (FEET)
DELAWARE RIVER TO THE UPPER END OF THE TURNING BASIN	36.0	36.0	37.0	1-15	500-340	0.70	38
THENCE TO LOBDELL CANAL	33.0	33.0	34.0	1-15	400	0.33	35
TURNING BASIN		A36.0		1-15	320	0.34	38
LOBDELL CANAL TO BRANDYWINE CR.		11.0		11-13	250	0.68	21
BRANDYWINE CR. TO MARKET ST.		B8.0		11-13	200	1.24	21
MARKET ST. TO 39°43'38"N, 75°33'40"W		C3.0		11-13	200	0.78	21
THENCE TO END OF CHANNEL		11.0		11-13	200	0.12	10

A. REPORTED DEPTH IS FOR FULL WIDTH OF BASIN.
B. 0.7' DEPTH OBSERVED 27' INSIDE THE LEFT TOELINE OF THE CHANNEL. SURVEY WAS PERFORMED AT HIGH TIDE.
C. 1.3' OBSERVED 22' WITHIN THE LEFT TOELINE OF THE CHANNEL. SURVEY WAS PERFORMED AT HIGH TIDE.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12312 NM 30/15

CHRISTINA RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2015

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH MLLW (FEET)
DELAWARE RIVER TO THE UPPER END OF THE TURNING BASIN	36.0	36.0	37.0	1-15	500-340	0.70	38
THENCE TO LOBDELL CANAL	33.0	33.0	34.0	1-15	400	0.33	35
TURNING BASIN		A36.0		1-15	320	0.34	38
LOBDELL CANAL TO BRANDYWINE CR.		11.0		11-13	250	0.68	21
BRANDYWINE CR. TO MARKET ST.		B8.0		11-13	200	1.24	21
MARKET ST. TO 39°43'38"N, 75°33'40"W		C3.0		11-13	200	0.78	21
THENCE TO END OF CHANNEL		11.0		11-13	200	0.12	10

A. REPORTED DEPTH IS FOR FULL WIDTH OF BASIN.
B. 0.7' DEPTH OBSERVED 27' INSIDE THE LEFT TOELINE OF THE CHANNEL. SURVEY WAS PERFORMED AT HIGH TIDE.
C. 1.3' DEPTH OBSERVED 22' WITHIN THE LEFT TOELINE OF THE CHANNEL. SURVEY WAS PERFORMED AT HIGH TIDE.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18649 NM 30/15

RICHMOND HARBOR AND SOUTHAMPTON SHOAL CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2015

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)
SOUTHAMPTON SHOAL CHANNEL	43	45	45	43	6-14	600	1.1	45
RICHMOND HARBOR								
ENTRANCE CHANNEL	34	35	35	35	9-14;1-15	600-550	1.0	38
POINT POTRERO REACH	32	35	35	33	9-14	500-600	1.4	38
POINT POTRERO TURN	36	37	36	35	9-14;2-15	600-1250	0.6	38
HARBOR CHANNEL	36	37	37	35	9-14;2-15	850-200	0.5	38
SANTA FE CHANNEL	27	29	29	27	11-12	200	0.5	38-30
TURNING BASIN	26	28	27	18	11-12	200-500	0.16	30

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

Chart 18653 NM 30/15

RICHMOND HARBOR AND SOUTHAMPTON SHOAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2015

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)
SOUTHAMPTON SHOAL CHANNEL	43	45	45	43	6-14	600	1.1	45
RICHMOND HARBOR								
ENTRANCE CHANNEL	34	35	35	35	9-14;1-15	600-550	1.0	38
POINT POTRERO REACH	32	35	35	33	9-14	500-600	1.4	38
POINT POTRERO TURN	36	37	36	35	9-14;2-15	600-1250	0.6	38
HARBOR CHANNEL	36	37	37	35	9-14;2-15	850-200	0.5	38
SANTA FE CHANNEL	27	29	29	27	11-12	200	0.5	38-30
TURNING BASIN	26	28	27	18	11-12	200-500	0.16	30

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