



Chart 11537 (Left Panel)

NM 13/14

WILMINGTON HARBOR CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2014 AND SURVEYS TO DEC 2013					
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	25.4	9-13	400	0.3	32
REACH 4	25.8	9-13	400	0.1	32
REACH 3	35.2	9-13	400	0.1	32
REACH 2	27.2	9-13	400	0.1	32
REACH 1	19.8	9-13	400	0.4	32
BATTLESHIP TO HWY 133 BRIDGE INCLUDING TURNING BASIN					
REACH 3	18.2	9-13	VARIES	0.2	32
REACH 2	16.6	9-13	VARIES	0.5	32
REACH 1	31.1	9-13	VARIES	0.1	32
HWY 133 BRIDGE TO HILTON BRIDGE					
REACH 4	29.8	9-13	VARIES	0.1	32
REACH 3	27.9	9-13	300	0.1	32
REACH 2	29.3	9-13	300	0.2	32
REACH 1	30.2	9-13	VARIES	0.1	32
25 FT PROJECT					
REACH 4 (A)	28.1	12-13	VARIES	0.2	25
REACH 3	19.3	12-13	VARIES	0.3	25
REACH 2 (A)	12.9	12-13	VARIES	0.5	25
TURNING BASIN	7.6	12-13	VARIES	0.2	25
REACH 1	6.8	12-13	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 11537 (Right Panel)

NM 13/14

CAPE FEAR RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2014 AND SURVEYS TO DEC 2013								
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 (STAT. MILES)	DEPTH MLLW (FEET)
BALDHEAD SHOAL								
REACH 3	38.1	41.3	40.7	39.4	10-13	500-900	5.7	44
REACH 2	41.4	43.7	39.0	16.6	12-13	900	0.8	44
REACH 1	36.9	42.1	42.0	28.2	12-13	700	0.9	44
SMITH ISLAND	5.6	38.0	44.8	44.4	12-13	650	0.9	44
BALDHEAD-CASWELL	35.4	43.2	45.5	46.7	12-13	500	0.4	44
SOUTHPORT	43.3	44.5	41.1	36.8	12-13	500	1.0	44
BATTERY ISLAND	40.3	45.5	44.9	31.5	11-13	500	0.5	44
LOWER SWASH	36.0	42.7	42.4	40.5	11-13	400	1.8	42
SNOWS MARSH	35.5	41.0	40.6	37.9	11-13	400	2.9	42
HORSESHOE SHOAL	35.4	39.4	39.9	38.2	11-13	400	1.2	42
REAVES POINT	35.9	40.3	40.6	39.3	11-13	400	1.2	42
LOWER MIDNIGHT	34.8	41.4	42.7	34.0	10-13	600	1.6	42
UPPER MIDNIGHT	34.1	40.9	40.8	27.4	10-13	600	2.6	42
LOWER LILLIPUT	38.6	41.4	42.5	37.9	10-13	600	2.1	42
UPPER LILLIPUT	29.4	39.0	39.5	36.8	12-13	400	1.9	42
KEG ISLAND	34.4	42.5	42.2	34.2	10-13	400	1.5	42
LOWER BIG ISLAND	33.5	42.2	42.5	32.8	9,10-13	400	0.8	42
UPPER BIG ISLAND	38.8	42.3	40.4	30.5	9-13	510-700	0.5	42
LOWER BRUNSWICK	28.9	43.1	41.3	34.3	9-13	400	1.6	42
UPPER BRUNSWICK	30.3	43.4	37.1	26.8	9-13	400	0.8	42
FOURTH EAST JETTY	38.8	43.9	43.4	39.1	9-13	500	1.7	42
BETWEEN CHANNEL	36.7	43.2	44.2	39.6	12-13	550	0.5	42
LOWER ANCHORAGE BASIN	27.5	36.0	35.3	30.6	12-13	550-1200	0.75	42
UPPER ANCHORAGE BASIN	36.6	38.3	38.2	40.0	11-13	450-940	0.75	38
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

Chart 11545

NM 13/14

MOREHEAD CITY HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2013 AND SURVEYS TO NOV 2013								
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 (STAT. MILES)	DEPTH MLLW (FEET)
RANGE A SECTION 3	42.8	45.8	45.8	41.7	11-13	450	6.0	47
RANGE A SECTION 2	11.9	19.3	39.5	31.0	11-13	450	0.9	47
RANGE A SECTION 1	17.1	16.8	25.7	13.7	11-13	450-650	0.8	47
CUTOFF	37.8	36.0	8.6	5.8	11-13	600-800	0.7	45
RANGE B	33.4	37.8	40.3	35.1	11-13	400	1.3	45
RANGE C	28.6	44.3	40.7	37.3	10-13	1888	0.6	45
EAST LEG	43.0	41.3	41.0	38.7	9-13	455-880	0.3	45
WEST LEG	19.4	30.5	37.1	36.5	10-13	775	0.5	35
NORTHWEST LEG	15.4	29.9	33.7	34.7	10-13	120-1200	0.5	35

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

Chart 12208

NM 13/14

THIMBLE SHOAL AND CHESAPEAKE BAY ENTRANCE CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2012								
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)
THIMBLE SHOAL CHANNEL (A)	47.8	50.2	49.9	47.8	8,9-12	1000	13.0	55
NORTH AUXILIARY CHANNEL (B)						450		32
SOUTH AUXILIARY CHANNEL (B)						450		32
CAPE HENRY CHANNEL	45.6	50.0	47.9	43.5	10-11	1000	4.0	50

A. CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET. CHANNEL MAINTAINED TO 50 FEET.
 B. PROJECT MAINTENANCE DISCONTINUED
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12221

NM 13/14

THIMBLE SHOAL AND CHESAPEAKE BAY ENTRANCE CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2013								
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)
THIMBLE SHOAL CHANNEL (A)	47.8	50.2	49.9	47.8	8,9-12	1000	13.0	55
NORTH AUXILIARY CHANNEL (B)						450		32
SOUTH AUXILIARY CHANNEL (B)						450		32
CAPE HENRY CHANNEL	45.6	50.0	47.9	43.5	10-11	1000	4.0	50
YORK SPIT CHANNEL	39.9	49.7	50.1	44.7	2-13	1000C	18.4	50
YORK RIVER ENTRANCE CHANNEL	36.2	37.9	37.5	36.8	11-11;2-12	750	17.0	37

A. CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET. CHANNEL MAINTAINED TO 50 FEET.
 B. PROJECT MAINTENANCE DISCONTINUED
 C. CHANNEL WIDTH MAINTAINED TO 800 FEET
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12222

NM 13/14

NORFOLK HARBOR AND APPROACHES								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2013								
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)
THIMBLE SHOAL CHANNEL (A)	47.8	50.2	49.9	47.8	8,9-12	1000	13.0	55
NORTH AUXILIARY CHANNEL (B)						450		32
SOUTH AUXILIARY CHANNEL (B)						450		32
NORFOLK HARBOR								
ENTRANCE REACH	50.0	52.4	52.6	51.8	7-10	1000-1440	1.4	50
NORFOLK HARBOR REACH	49.0	49.8	49.6	49.3	2-13	1550-800	3.6	50
CRANEY ISLAND REACH	48.5	50.3	49.9	46.0	2-13	800	2.3	50
LAMBERT BEND	43.0	43.0	43.0	41.6	1-10	750	0.3	45
LAMBERT BEND TO PINNER POINT	42.6	43.0	43.0	40.4	1-10	750	1.0	45
PINNER POINT TO TOWN PT REACH	37.2	40.0	40.0	39.2	1-10	750	1.0	45
NEWPORT NEWS CHANNEL	47.2	C49.3	49.7	49.4	8-11	800	4.2	55
CAPE HENRY CHANNEL	45.6	50.0	47.9	43.5	10-11	1000	4.0	50
YORK SPIT CHANNEL	39.9	49.7	50.1	44.7	2-13	1000D	18.4	50
YORK RIVER ENTRANCE CHANNEL	36.2	37.9	37.5	36.8	11-11;2-12	750	17.0	37
A. CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET. CHANNEL MAINTAINED TO 50 FEET.								
B. PROJECT MAINTENANCE DISCONTINUED								
C. 51 FOOT OBSTRUCTION LOCATED AT 36°57'12.4"N, 76°24'45.1"W.								
D. CHANNEL WIDTH MAINTAINED TO 800 FEET								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 12254

NM 13/14

THIMBLE SHOAL AND CHESAPEAKE BAY ENTRANCE CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2012								
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)
THIMBLE SHOAL CHANNEL (A)	47.8	50.2	49.9	47.8	8,9-12	1000	13.0	55
NORTH AUXILIARY CHANNEL (B)						450		32
SOUTH AUXILIARY CHANNEL (B)						450		32
CAPE HENRY CHANNEL	45.6	50.0	47.9	43.5	10-11	1000	4.0	50
A. CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET. CHANNEL MAINTAINED TO 50 FEET.								
B. PROJECT MAINTENANCE DISCONTINUED								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 12311

NM 13/14

DELAWARE RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2013 AND SURVEYS TO SEP 2013								
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)
LISTON RANGE (ABOVE SHIP JOHN LIGHT)	41.0	42.0	41.0	41.0	9-13	1000-800	12.42	40
BAKER RANGE	46.0	44.0	42.5	39.6	6-12;5-13	800	1.65	40
REEDY ISLAND RANGE	38.7	40.3	41.7	40.0	5-12;5-13	800	4.28	40
NEW CASTLE RANGE	A38.9	42.4	44.3	39.6	1-13	800	4.34	40
BULKHEAD BAR RANGE	38.3	46.6	45.6	39.9	5-12	1600	0.56	40
DEEPWATER POINT RANGE	36.0	38.0	38.0	37.0	8-13	800	3.76	40
CHERRY ISLAND RANGE	39.0	40.0	40.0	39.0	7-13	800	4.33	40
BELLEVUE RANGE	40.0	42.0	43.0	42.0	9-13	800	3.05	40
A. 38 FOOT OBSTRUCTION LOCATED AT 39°33'15.5"N, 75°32'39.0"W.								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 13/14

Chart 18649

NM 13/14

RICHMOND HARBOR AND SOUTHAMPTON SHOAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2013								
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	46	43	7-13	600	1.1	45
RICHMOND HARBOR								
ENTRANCE CHANNEL	36	36	36	36	3-12;2-13	600-550	1.0	38
POINT POTRERO REACH	37	37	37	37	2-13	500-600	1.4	38
POINT POTRERO TURN	36	37	36	35	2-13	600-1250	0.6	38
HARBOR CHANNEL	36	37	37	37	3-12;2-13	850-200	0.5	38
SANTA FE CHANNEL	27	28	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 18651

NM 13/14

REDWOOD CITY HARBOR CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 2013							
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)
CHANNEL ENTRANCE (37°33'10"N., 122°11'43"W.)							
TO LIGHT 8	27.0	27.0	26.0	11-13	700-300	1.07	30
LIGHT 8 TO LIGHT 14	23.0	24.0	22.0	11-13	300-350	.90	30
LIGHT 14 TO LIGHT 15	23.0	25.0	24.0	11-13	300	.28	30

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

Chart 18652, Page D, Inset 4

NM 13/14

OAKLAND INNER HARBOR			
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2013 AND NOS SURVEY TO JAN 2013			
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			
NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
INNER HARBOR:			
GROVE ST. PIER TO BROOKLYN BASIN	A21.0	600	1,3-13
BROOKLYN BASIN SOUTH CHANNEL	14.0	600-500	1-13
PARK ST. BRIDGE REACH	A5.0	500-275	1-13

A. NUMEROUS WRECKS AND OBSTRUCTIONS EXIST WITHIN THE LIMITS OF THE CHANNEL.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 18652, Page E

NM 13/14

SUISUN BAY AND SAN JOAQUIN RIVER							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2013							
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)
SUISUN PT. REACH	46	48	49	7-13	300	0.8	35
BULLS HEAD CHANNEL	37	37	35	7,8-13	300-350	1.2	35
EAST BULLS HEAD CHANNEL	36	36	35	8-13	350	1.1	35
PT. EDITH CROSSING RANGE	36	36	30	8-13	350	1.1	35
PRESTON PT. REACH	34	35	28	8-13	350	0.9	35
ROE ISLAND CHANNEL	34	34	34	8-13	350	1.1	35
PORT CHICAGO REACH	36	37	37	8-13	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37	36	35	8-13	350	1.29	35
EAST REACH	34	37	36	8-13	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31	33	32 A	8-13	400	1.3	35
EAST REACH	34	34	31	8-13	400	1.7	35
SAN JOAQUIN RIVER							
ANTIOCH REACH	30.8	30.4	28.8	8-07	400	3.3	35

A. AN OBSTRUCTION WITH A DEPTH OF 36 FEET IS LOCATED AT 38°02'41.2" N 121°53'21.32" W
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18653

NM 13/14

RICHMOND HARBOR AND SOUTHAMPTON SHOAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2013								
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	46	43	7-13	600	1.1	45
RICHMOND HARBOR								
ENTRANCE CHANNEL	36	36	36	36	3-12;2-13	600-550	1.0	38
POINT POTRERO REACH	37	37	37	37	2-13	500-600	1.4	38
POINT POTRERO TURN	36	37	36	35	2-13	600-1250	0.6	38
HARBOR CHANNEL	36	37	37	37	3-12;2-13	850-200	0.5	38
SANTA FE CHANNEL	27	28	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 18656

NM 13/14

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2013							
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)
SUISUN PT. REACH	46	48	49	7-13	300	0.8	35
BULLS HEAD CHANNEL	37	37	35	7,8-13	300-350	1.2	35
EAST BULLS HEAD CHANNEL	36	36	35	8-13	350	1.1	35
PT. EDITH CROSSING RANGE	36	36	30	8-13	350	1.1	35
PRESTON PT. REACH	34	35	28	8-13	350	0.9	35
ROE ISLAND CHANNEL	34	34	34	8-13	350	1.1	35
PORT CHICAGO REACH	36	37	37	8-13	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37	36	35	8-13	350	1.29	35
EAST REACH	34	37	36	8-13	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31	33	32 A	8-13	400	1.3	35
EAST REACH	34	34	31	8-13	400	1.7	35

A. AN OBSTRUCTION WITH A DEPTH OF 36 FEET IS LOCATED AT 38°02'41.2" N 121°53'21.32" W
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 13/14

Chart 18657

NM 13/14

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2013							
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)
SUISUN PT. REACH	46	48	49	7-13	300	0.8	35
BULLS HEAD CHANNEL	37	37	35	7,8-13	300-350	1.2	35
EAST BULLS HEAD CHANNEL	36	36	35	8-13	350	1.1	35
PT. EDITH CROSSING RANGE	36	36	30	8-13	350	1.1	35

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

Chart 18658

NM 13/14

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2013							
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)
BULLS HEAD CHANNEL	37	37	35	7,8-13	300-350	1.2	35
EAST BULLS HEAD CHANNEL	36	36	35	8-13	350	1.1	35
PT. EDITH CROSSING RANGE	36	36	30	8-13	350	1.1	35
PRESTON PT. REACH	34	35	28	8-13	350	0.9	35
ROE ISLAND CHANNEL	34	34	34	8-13	350	1.1	35
PORT CHICAGO REACH	36	37	37	8-13	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37	36	35	8-13	350	1.29	35
EAST REACH	34	37	36	8-13	350	1.09	35

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

Chart 18659

NM 13/14

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2013							
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)
NEW YORK SLOUGH							
WEST REACH	31	33	32 A	8-13	400	1.3	35
EAST REACH	34	34	31	8-13	400	1.7	35

A. AN OBSTRUCTION WITH A DEPTH OF 36 FEET IS LOCATED AT 38° 02' 41.2"N 121° 53' 21.32"W.

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

Chart 18666

NM 13/14

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2013							
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)
MIDDLE GROUND CHANNEL							
WEST REACH	37	36	35	8-13	350	1.29	35
EAST REACH	34	37	36	8-13	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31	33	32A	8-13	400	1.3	35
EAST REACH	34	34	31	8-13	400	1.7	35

A. AN OBSTRUCTION WITH A DEPTH OF 36 FEET IS LOCATED AT 38° 02'41.2"N 121°53' 21.32"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION