Chart 18725 (Inset Ventura) NM 8/09

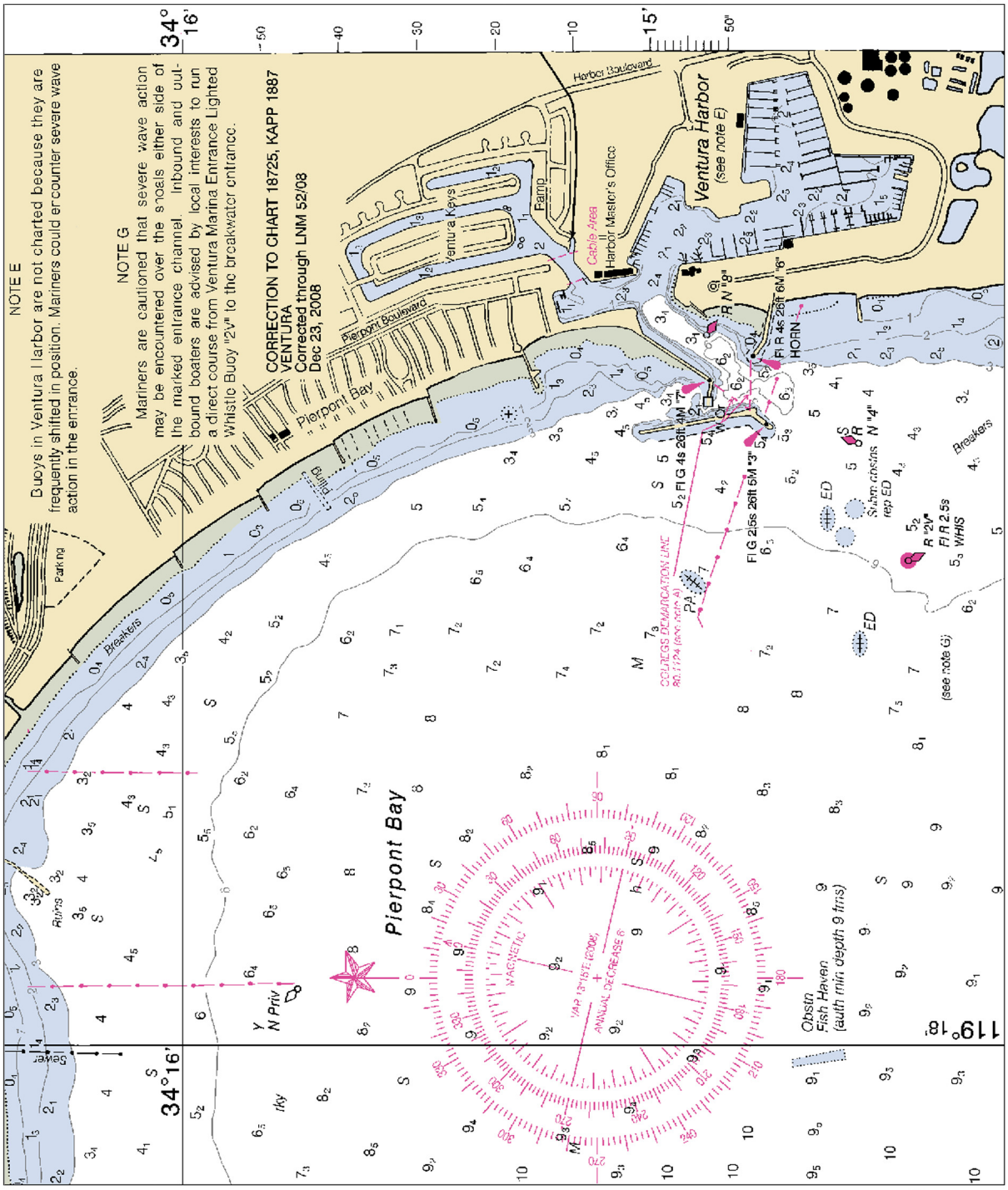

Chart 11545 NM 8/09

MOREHEAD CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2008

	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)
BEAUFORT INLET CHANNEL FROM 2000 FT NORTH OF 34° 38' 52.7" N 76° 40' 34.9" W	33.9A	44.6	44.5	40.3B	7-08	450-800	2.26	47
CUTOFF CHANNEL	50.5	49.4	46.7	44.4	3,4-07	600	0.38	42
MOREHEAD CITY CHANNEL	35.7	43.5	45.9	44.3	7-08	400	1.10	40
TURNING BASIN								
EAST LEG	42.9	42.0	41.3	40.1	8-08	400-870	0.78	40
WEST LEG	28.8	34.4	36.0	39.8C	8-08	800-3000	0.59	35

A. SHOALING TO 24.0 FEET BETWEEN 34° 40' 33.8" N 76° 40' 13.2" W AND 34° 40' 43.3" N 76° 40' 12.2" W
B. SHOALING TO 19.2 FEET BETWEEN 34° 41' 18.7" N 76° 39' 58.5" W AND 34° 41' 11.4" N 76° 39' 57.9" W
C. EXCEPT FOR AN OBSTRUCTION AT 34° 42' 53.1" N 76° 41' 40.1" W
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11547 NM 8/09

MOREHEAD CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2008

	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)
BEAUFORT INLET CHANNEL FROM 2000 FT NORTH OF 34° 38' 52.7" N 76° 40' 34.9" W	33.9A	44.6	44.5	40.3B	7-08	450-800	2.26	47
CUTOFF CHANNEL	50.5	49.4	46.7	44.4	3,4-07	600	0.38	42
MOREHEAD CITY CHANNEL	35.7	43.5	45.9	44.3	7-08	400	1.10	40
TURNING BASIN								
EAST LEG	42.9	42.0	41.3	40.1	8-08	400-870	0.78	40
WEST LEG	28.8	34.4	36.0	39.8C	8-08	800-3000	0.59	35

A. SHOALING TO 24.0 FEET BETWEEN 34° 40' 33.8" N 76° 40' 13.2" W AND 34° 40' 43.3" N 76° 40' 12.2" W
B. SHOALING TO 19.2 FEET BETWEEN 34° 41' 18.7" N 76° 39' 58.5" W AND 34° 41' 11.4" N 76° 39' 57.9" W
C. EXCEPT FOR AN OBSTRUCTION AT 34° 42' 53.1" N 76° 41' 40.1" W
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12245 NM 8/09

NORFOLK HARBOR AND NEWPORT NEWS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2008

	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)
NORFOLK HARBOR ENTRANCE REACH	50.1	52.5	53.8	53.1	4-07	1000	1.4	50
NORFOLK HARBOR REACH	50.2	51.1	50.2	49.5	6,7-08	1250-800	3.8	55
CRANEY ISLAND REACH	50.0	50.3	50.5	49.6	6,7-08	800	2.1	55
NEWPORT NEWS CHANNEL	50.6	A51.0	50.5	50.3	10-07	800	4.2	55

A. 51 FOOT OBSTRUCTION LOCATED AT 36°57'12.4"N, 76°24'45.1"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12312 NM 8/09

CHRISTINA RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2008

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	38.3	38.6	37.0	12-07;9-08	500-340	0.70	38
THENCE TO THE LOBDELL CANAL	35.0	34.9	35.7	9-08	400	0.33	35
TURNING BASIN (OPPOSITE TERMINAL WHARF)	38.6	37.6	37.5	9-08	320	0.34	38

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

Chart 18652 (Page E) NM 8/09

SUISUN BAY AND SAN JOAQUIN RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2008

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	45	47	48	4-08	300	0.8	35
BULLS HEAD CHANNEL	32	33	34	4-08	300-350	1.2	35
EAST BULLS HEAD CHANNEL	34	34	34	4-08	350	1.1	35
PT. EDITH CROSSING RANGE	37	35	30	4-08	350	1.1	35
PRESTON PT. REACH	35	35	32	4-08	350	0.9	35
ROE ISLAND CHANNEL	34	34	34	4-08	350	1.1	35
PORT CHICAGO REACH	37	37	37	4-08	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37	37	35	4-08	350	1.29	35
EAST REACH	34	37	37	4-08	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	32	33	33 A	4-08	400	1.3	35
EAST REACH	34	33	34	4-08	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 18656 NM 8/09

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2008

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	45	47	48	4-08	300	0.8	35
BULLS HEAD CHANNEL	32	33	34	4-08	300-350	1.2	35
EAST BULLS HEAD CHANNEL	34	34	34	4-08	350	1.1	35
PT. EDITH CROSSING RANGE	37	35	30	4-08	350	1.1	35
PRESTON PT. REACH	35	35	32	4-08	350	0.9	35
ROE ISLAND CHANNEL	34	34	34	4-08	350	1.1	35
PORT CHICAGO REACH	37	37	37	4-08	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37	37	35	4-08	350	1.29	35
EAST REACH	34	37	37	4-08	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	32	33	33 A	4-08	400	1.3	35
EAST REACH	34	33	34	4-08	400	1.7	35

A. AN OBSTRUCTION WITH A DEPTH OF 36 FEET IS LOCATED AT 38°02'41.2" N 121°53'21.3" W

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

Chart 18657 NM 8/09

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2008

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	45	47	48	4-08	300	0.8	35
BULLS HEAD CHANNEL	32	33	34	4-08	300-350	1.2	35
EAST BULLS HEAD CHANNEL	34	34	34	4-08	350	1.1	35
PT. EDITH CROSSING RANGE	37	35	30	4-08	350	1.1	35

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

Chart 18658 NM 8/09

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2008

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)
EAST BULLS HEAD CHANNEL	34	34	34	4-08	350	1.1	35
PT. EDITH CROSSING RANGE	37	35	30	4-08	350	1.1	35
PRESTON PT. REACH	35	35	32	4-08	350	0.9	35
ROE ISLAND CHANNEL	34	34	34	4-08	350	1.1	35
PORT CHICAGO REACH	37	37	37	4-08	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37	37	35	4-08	350	1.29	35
EAST REACH	34	37	37	4-08	350	1.09	35

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

Chart 18659 NM 8/09

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2008

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	32	33	33 A	4-08	400	1.3	35
EAST REACH	34	33	34	4-08	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 8/09

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2008

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	37	35	4-08	350	1.29	35
EAST REACH	34	37	37	4-08	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	32	33	33A	4-08	400	1.3	35
EAST REACH	34	33	34	4-08	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 25670 NM 8/09

BAHIA DE SAN JUAN CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2007 AND REPORT OF NOV 2006

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)
BAR CHANNEL	43.8	42.9	43.9	40.9	10-07	800-950	0.92	40
ANEGADO CHANNEL	42.4	42.6	42.9	41.0	10-07	800	1.22	40
SAN ANTONIO APPROACH CHANNEL	37.6	37.5	38.2	34.6	10-07	600	0.52	35
SAN ANTONIO CHANNEL	28.4	33.2	35.8	33.1	10-07	500-900	0.61	30
GRAVING DOCK CHANNEL	32.5	37.6	39.1	37.7	10-07	350	0.87	36
ARMY TERMINAL CHANNEL	32.5	41.7	44.1	42.3	10-07	350	0.87	40
PUERTO NUEVO CHANNEL (TO A POINT IN 18°26'21.9"N., 66°05'21.4"W.)	39.3	40.1	40.5	39.1	10-07	350	0.98	39

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