

SECTION I

NM 37/14

Chart 18622

NM 37/14

HUMBOLDT BAY AND HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2014								
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	37	36	38	42	2-14	2100-750	1.0	48
ENTRANCE CHANNEL	39	42	42	40	2-14	750	0.8	48
NORTH BAY CHANNEL	34	36	33	26	2-14	400-500	3.0	38
EUREKA CHANNEL								
OUTER REACH	31	30	29	16	2-14	400	0.4	38
INNER REACH	4	7A	13B	9	2-14	400	1.1	26
SAMOA CHANNEL	36	38	37	33	2-14	400	1.3	38
TURNING BASIN	33	35	34	23	2-14	400-1000	0.3	38
FIELDS LANDING CHANNEL	23	28	27	19	2-14	300	1.9	26
TURNING BASIN	16	22	25	24	2-14	300-800	0.1	26

A. SHOALING TO 4 FEET FOR LAST 2,000 FEET OF THE REACH.
 B. SHOALING TO 9 FEET FOR LAST 2,000 FEET OF THE REACH.
 NOTE-CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18649

NM 37/14

OAKLAND OUTER AND INNER HARBORS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2014 AND NOS SURVEY TO JAN 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)
BAR CHANNEL	49.0	49.0	50.0	50.0	3-14	1000-930	0.57	50
OUTER HARBOR ENTRANCE CHANNEL	49.0	49.0	50.0	49.0	3-14	900-600	0.91	50
OUTER HARBOR	49.0	50.0	49.0	49.0	3-14	1575-600	1.40	50
INNER HARBOR								
ENTRANCE CHANNEL	47.0	49.0	50.0	49.0	3-14	2100-480	1.10	50
INNER HARBOR REACH	47.0	49.0	50.0	49.0	3-14	1325-480	2.27	50
GROVE ST PIER TO								
BROOKLYN BASIN	A21.0	31.0	31.0	B25.0	1-13, 3-14	600	1.30	35
BROOKLYN BASIN SOUTH CHANNEL	C14.0	22.0	23.0	D15.0	1-13	600-500	0.90	35
PARK ST BRIDGE REACH	E9.0	F20.0	20.0	G5.0	1-13	500-275	0.42	35

A. A 21 FT WRECK IS AT 37°47'14.93"N 122°15'50.26"W; A 28 FT OBSTRUCTION IS AT 37°47'14.14"N 122°15'51.56"W.
 B. A 30 FT WRECK IS AT 37°47'26.83"N 122°16'29.13"W.
 C. A DEPTH OF 17.0 FEET IS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
 D. A DEPTH OF 18.0 FEET IS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
 E. A 19 FT WRECK IS AT 37°46'29.04"N 122°14'27.21"W.
 F. A 22 FT WRECK IS AT 37°46'28.57"N 122°14'25.04"W.
 G. A WRECK OF UNKNOWN DEPTH IS AT 37°46'24.16"N 122°14'25.02"W; AN OBSTRUCTION OF UNKNOWN DEPTH IS AT 37°46'23.09"N 122°14'23.67"W.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

Chart 18649

NM 37/14

RICHMOND HARBOR AND SOUTHAMPTON SHOAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2014								
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	3-14	600	1.1	45
RICHMOND HARBOR								
ENTRANCE CHANNEL	34	35	36	36	5-14	600-550	1.0	38
POINT POTRERO REACH	35	36	36	34	5-14	500-600	1.4	38
POINT POTRERO TURN	35	37	38	35	5-14	600-1250	0.6	38
HARBOR CHANNEL	35	37	37	35	5-14	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 18650

NM 37/14

OAKLAND OUTER AND INNER HARBORS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2014 AND NOS SURVEY TO JAN 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)
BAR CHANNEL	49.0	49.0	50.0	50.0	3-14	1000-930	0.57	50
OUTER HARBOR ENTRANCE CHANNEL	49.0	49.0	50.0	49.0	3-14	900-600	0.91	50
OUTER HARBOR	49.0	50.0	49.0	49.0	3-14	1575-900	1.40	50
INNER HARBOR								
ENTRANCE CHANNEL	47.0	49.0	50.0	49.0	3-14	2100-480	1.10	50
INNER HARBOR REACH	47.0	49.0	50.0	49.0	3-14	1325-480	2.27	50
GROVE ST PIER TO BROOKLYN BASIN	A21.0	31.0	31.0	B25.0	1-13, 3-14	600	1.30	35
BROOKLYN BASIN SOUTH CHANNEL	C14.0	22.0	23.0	D15.0	1-13	600-500	0.90	35
PARK ST BRIDGE REACH	E9.0	F20.0	20.0	G5.0	1-13	500-275	0.42	35

A. A 21 FT WRECK IS AT 37°47'14.93"N 122°15'50.26"W; A 28 FT OBSTRUCTION IS AT 37°47'14.14"N 122°15'51.56"W.
 B. A 30 FT WRECK IS AT 37°47'26.83"N 122°16'29.13"W.
 C. A DEPTH OF 17.0 FEET IS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
 D. A DEPTH OF 18.0 FEET IS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
 E. A 19 FT WRECK IS AT 37°46'29.04"N 122°14'27.21"W.
 F. A 22 FT WRECK IS AT 37°46'26.57"N 122°14'25.04"W.
 G. A WRECK OF UNKNOWN DEPTH IS AT 37°46'24.16"N 122°14'25.02"W; AN OBSTRUCTION OF UNKNOWN DEPTH IS AT 37°46'23.09"N 122°14'23.67"W.

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

Chart 18651

NM 37/14

REDWOOD CITY HARBOR CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2014							
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	26.0	26.0	26.0	05-14	700-300	1.07	30
LIGHT 8 TO LIGHT 14	23.0	23.0	21.0	05-14	300-350	.90	30
LIGHT 14 TO LIGHT 15	23.0	24.0	23.0	05-14	300	.28	30

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

Chart 18652 (Page E)

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SUISUN BAY AND SAN JOAQUIN RIVER							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2014							
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	49	49	3-14	300	0.8	35
BULLS HEAD CHANNEL	37	33	34	3-14	300-350	1.2	35
EAST BULLS HEAD CHANNEL	34	33	33	3-14	350	1.1	35
PT. EDITH CROSSING RANGE	36	36	30	3-14	350	1.1	35
PRESTON PT. REACH	35	35	26	3-14	350	0.9	35
ROE ISLAND CHANNEL	34	35	34	3-14	350	1.1	35
PORT CHICAGO REACH	37	37	36	3-14	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	36	37	36	3-14	350	1.29	35
EAST REACH	35	37	36	3-14	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	33	34	34A	3-14	400	1.3	35
EAST REACH	34	34	31	3-14	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 37/14

RICHMOND HARBOR AND SOUTHAMPTON SHOAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2014								
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	3-14	600	1.1	45
RICHMOND HARBOR								
ENTRANCE CHANNEL	34	35	36	36	5-14	600-550	1.0	38
POINT POTRERO REACH	35	36	36	34	5-14	500-600	1.4	38
POINT POTRERO TURN	35	37	36	35	5-14	600-1250	0.6	38
HARBOR CHANNEL	35	37	37	35	5-14	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 18654

NM 37/14

PINOLE SHOAL CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2014							
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 TO LT. 11	34.0	34.0	32.0	1-14	600	5.1	35
THENCE TO 38°03'31"N, 122°17'08"W	32.0	34.0	34.0	1-14	600	2.2	35

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

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NM 37/14

Chart 18656

NM 37/14

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2014							
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	49	49	3-14	300	0.8	35
BULLS HEAD CHANNEL	37	33	34	3-14	300-350	1.2	35
EAST BULLS HEAD CHANNEL	34	33	33	3-14	350	1.1	35
PT. EDITH CROSSING RANGE	36	36	30	3-14	350	1.1	35
PRESTON PT. REACH	35	35	26	3-14	350	0.9	35
ROE ISLAND CHANNEL	34	35	34	3-14	350	1.1	35
PORT CHICAGO REACH	37	37	36	3-14	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	36	37	36	3-14	350	1.29	35
EAST REACH	35	37	36	3-14	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	33	34	34A	3-14	400	1.3	35
EAST REACH	34	34	31	3-14	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 18657

NM 37/14

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2014							
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	49	49	3-14	300	0.8	35
BULLS HEAD CHANNEL	37	33	34	3-14	300-350	1.2	35
EAST BULLS HEAD CHANNEL	34	33	33	3-14	350	1.1	35
PT. EDITH CROSSING RANGE	36	36	30	3-14	350	1.1	35

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

Chart 18658

NM 37/14

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2014							
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	33	34	3-14	300-350	1.2	35
EAST BULLS HEAD CHANNEL	34	33	33	3-14	350	1.1	35
PT. EDITH CROSSING RANGE	36	36	30	3-14	350	1.1	35
PRESTON PT. REACH	35	35	26	3-14	350	0.9	35
ROE ISLAND CHANNEL	34	35	34	3-14	350	1.1	35
PORT CHICAGO REACH	37	37	36	3-14	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	36	37	36	3-14	350	1.29	35
EAST REACH	35	37	36	3-14	350	1.09	35

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

SECTION I

NM 37/14

Chart 18659

NM 37/14

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2014							
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	33	34	34A	3-14	400	1.3	35
EAST REACH	34	34	31	3-14	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 37/14

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2014							
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	36	37	36	3-14	350	1.29	35
EAST REACH	35	37	36	3-14	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	33	34	34A	3-14	400	1.3	35
EAST REACH	34	34	31	3-14	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 18773

NM 37/14

SAN DIEGO HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - 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 (FEET)	DEPTH MLLW (FEET)
SAN DIEGO HARBOR								
ENTRANCE CHANNEL	47.0	47.2	46.9	A44.4	6-11	800	12,700	47
NORTH BAY CHANNEL	45.1	47.6	47.0	B42.1	8-09, 12-13	600-800	24,900	47

A. SHOALING TO 36.8 FEET IN THE OUTER 100 FEET OF QUARTER.
B. SHOALING TO 36.3 FEET IN THE OUTER 50 FEET OF QUARTER FROM 32°41'42.6"N, 117°13'50.5"W TO 32°42'57.7"N, 117°12'33.8"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 16300**NM 37/14**

NOTE B

The Kuskokwim Bay and Kuskokwim River are known to undergo constant change from year to year. Depths on this chart reflect conditions surveyed in 2010. Extreme caution and continuous soundings are necessary to navigate these waters. The deep draft channel in the Kuskokwim River from Kuskokwim Bay Buoy 12 (59°53'41.6"N, 162°15'19.7"W) northward to Bethel is marked by about 36 red or green foam buoys from June 1st through October 1st each year.

Chart 16304**NM 37/14**

NOTE B

The Kuskokwim Bay and Kuskokwim River are known to undergo constant change from year to year. Depths on this chart reflect conditions surveyed in 2010. Extreme caution and continuous soundings are necessary to navigate these waters. The deep draft channel in the Kuskokwim River from Kuskokwim Bay Buoy 12 (59°53'41.6"N, 162°15'19.7"W) northward to Bethel is marked by about 36 red or green foam buoys from June 1st through October 1st each year.