Chart 24452 (Plan B) NM 26/02

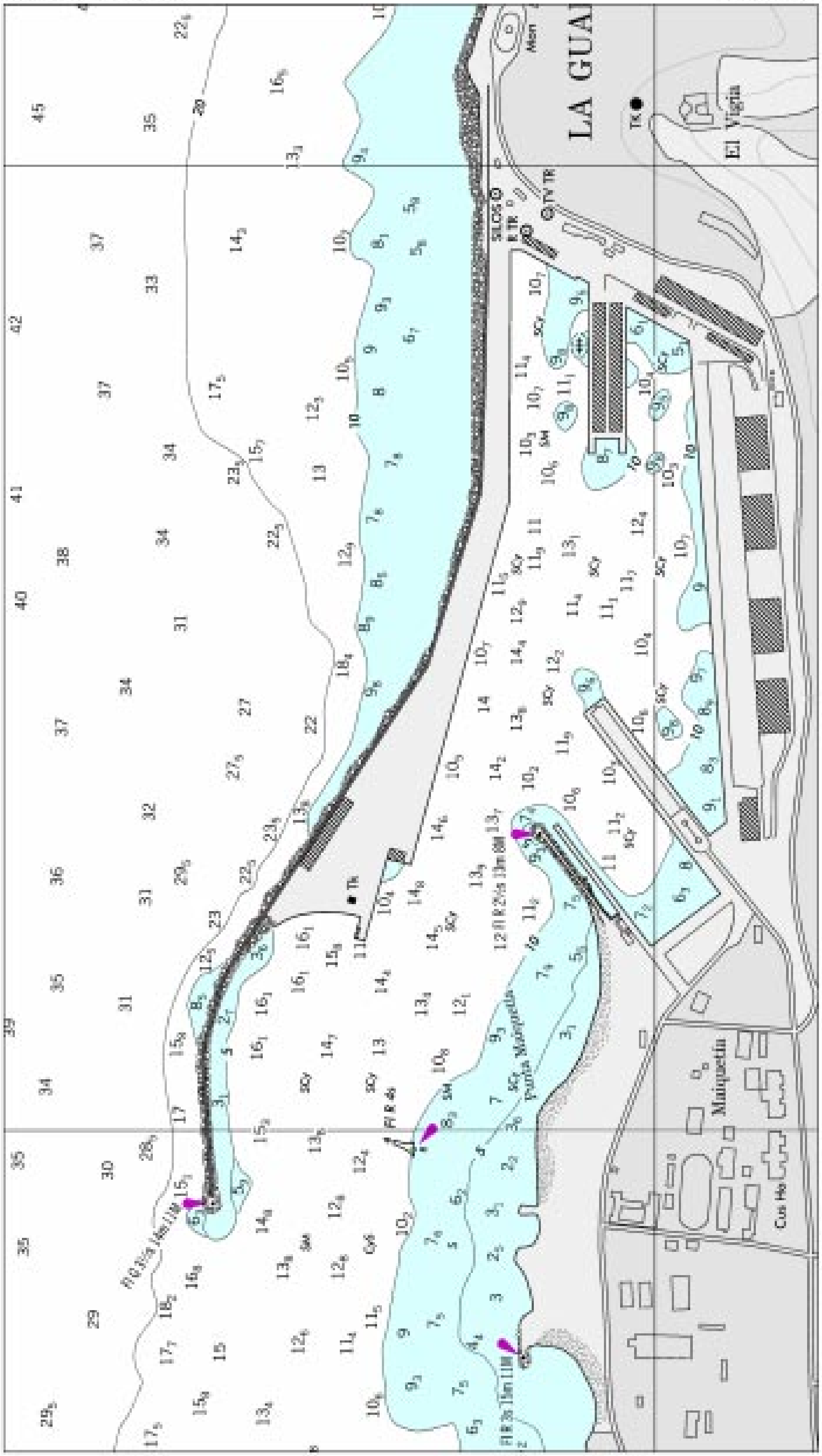

Chart 11363 NM 26/02

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

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

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	31.0	38.0	26.0	600	4-02
THENCE TO END OF JETTY OPPOSITE LIGHT 62	34.0	37.0	31.0	500	4-02
THENCE TO INTERSECTION WITH G. I. W. W.	24.0	31.0	21.0	500	3,4-02
THENCE TO INNER HARBOR NAVIGATION CANAL	25.0	28.0	28.0	500	4-02

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11466 NM 26/02

LAKE WORTH INLET CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002 AND SURVEYS TO APR 2002

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)
ENTRANCE CHANNEL	35.6	36.2	36.3	4-02	400	.66	35
LAKE WORTH INNER CHANNEL	33.4	35.7	33.4	4-02	300-500	.49	33

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

Chart 14832 NM 26/02

BUFFALO HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002 AND SURVEYS TO DEC 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						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 LWD (FEET)
BUFFALO HARBOR:								
SOUTH ENTRANCE INNER CHANNEL	26.3	26.0	24.7	21.5	12-01	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	A19.7	23.9	25.9	25.8	12-01	1130-1425	.76	28
OUTER HARBOR TURNING BASIN	18.0	19.8	20.7	20.6	12-01	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	19.2	23.9	24.1	23.7	12-01	500-1600	2.12	27
OUTER HARBOR NORTHERN CHANNEL	18.2	19.7	21.1	20.9	12-01	1175-1350	.91	23
BUFFALO RIVER ENTRANCE CHANNEL	B16.0	C19.8	D18.5	E18.3	6-01	220-1625	.98	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	17.9	20.1	17.4	F17.2	12-01	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	G15.3	19.6	20.0	12.1	12-01	200-350	3.05	21
THENCE TO BUOY 12	15.8	18.9	18.1	14.7	12-01	200-400	1.70	21

A. SHOALING TO 15.4 FEET AT 42°49'57.0"N-78°51'55.3"W.

B. SHOALING TO 10.8 FEET IN OUTSIDE 50 FEET OF QUARTER FROM 42°52'40.7"N-78°52'52.7"W TO 42°52'30.3"N-78°52'42.9"W

C. SHOALING TO 8.7 FEET WITHIN 100 FEET OF END OF REACH.

D. SHOALING TO 16.8 FEET WITHIN 200 FEET OF END OF REACH.

E. SHOALING TO 13.3 FEET OUTSIDE 50 FEET OF QUARTER.

F. SHOALING TO 6.6 FEET IN OUTSIDE 50 FEET OF QUARTER AND 12.7 FEET WITHIN 200 FEET OF END OF REACH.

G. SHOALING TO 12.7 FEET AT 42°55'50.9"N-78°54'07.6"W.

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

Chart 14833 NM 26/02

BUFFALO HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002 AND SURVEYS TO DEC 2001

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH ENTRANCE INNER CHANNEL	26.3	26.0	24.7	21.5	12-01	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	A19.7	23.9	B25.9	25.8	12-01	1130-1425	.76	28
OUTER HARBOR TURNING BASIN	18.0	19.8	20.7	20.6	12-01	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	19.2	23.9	24.1	23.7	12-01	500-1600	2.12	27
OUTER HARBOR NORTHERN CHANNEL	18.2	19.7	21.1	20.9	12-01	1175-1350	.91	23
BUFFALO RIVER:								
ENTRANCE CHANNEL	C16.0	D19.8	E18.5	F18.3	6-01	220-1625	.98	23
BUFFALO RIVER	G12.8	H17.2	I18.0	J12.8	6-01	100-700	5.27	23
BUFFALO SHIP CANAL	17.5	20.3	19.0	K18.3	6-01	125	1.02	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	17.9	20.1	17.4	L17.2	12-01	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	M15.3	19.6	20.0	12.1	12-01	200-350	3.05	21

A. SHOALING TO 15.4 FEET AT 42°49'57.0"N-78°51'55.3"W.
B. SHOALING TO 23.5 FEET AT 42°49'55.3"N-78°51'41.1"W.
C. SHOALING TO 10.8 FEET IN OUTSIDE 50 FEET OF QUARTER FROM 42°52'40.7"N-78°52'52.7"W TO 42°52'30.3"N-78°52'42.9"W.
D. SHOALING TO 8.7 FEET WITHIN 100 FEET OF END OF REACH.
E. SHOALING TO 16.8 FEET WITHIN 200 FEET OF END OF REACH.
F. SHOALING TO 13.3 FEET OUTSIDE 50 FEET OF QUARTER.
G. SHOALING TO 7.9 FEET LAST 200 FEET OF REACH.
H. SHOALING TO 14.6 FEET WITHIN 150 FEET OF POINT AT 42°51'48.9"N-78°51'38.0"W.
SHOALING TO 11.0 FEET LAST 300 FEET OF REACH.
I. SHOALING TO 13.2 FEET WITHIN 300 FEET OF POINT AT 42°51'26.9"N-78°51'10.1"W AND WITHIN 100 FEET OF BRIDGE ABUTMENTS.
SHOALING TO 15.5 FEET LAST 5000 FEET OF REACH AND 8.2 FEET LAST 200 FEET.
J. SHOALING TO 8.3 FEET WITHIN 200 FEET OF BRIDGE ABUTMENTS.
SHOALING TO 3.2 FEET WITHIN 300 FEET OF POINT AT 42°51'38.0"N-78°50'42.7"W AND WITHIN 100 FEET OF END OF REACH.
K. SHOALING TO 8.2 FEET WITHIN 125 FEET OF END OF REACH.
L. SHOALING TO 6.6 FEET IN OUTSIDE 50 FEET OF QUARTER AND 12.7 FEET WITHIN 200 FEET OF END OF REACH.
M. SHOALING TO 12.7 FEET AT 42°55'50.9"N-78°54'07.6"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18622 NM 26/02

HUMBOLDT BAY AND HARBOR CHANNEL DEPTHS

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

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	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	38.3	39.1	41.9	36.9A	1-02	2100-750	1.0	48
ENTRANCE CHANNEL	32.9B	35.0	40.3	45.5	1-02	750	0.8	48
NORTH BAY CHANNEL	35.9C	36.8	33.4	28.7D	3,5-01,1-02	400-500	3.0	38
EUREKA CHANNEL								
OUTER REACH	31.4	31.8	30.9	26.9	1-02	400	0.4	38
INNER REACH	20.5E	21.8F	21.6G	20.2H	1-02	400	1.1	26
SAMOA CHANNEL	38.1	38.0	38.0	36.9	3-01,1-02	400	1.3	38
TURNING BASIN	35.6	37.7	35.7	33.0	1-02	400-1000	0.3	38
FIELDS LANDING CHANNEL	24.7	27.4	26.5	22.1	1-02	300	1.9	26
TURNING BASIN	13.1	17.4	28.4	25.7	1-02	300-800	0.1	26

A. SHOALING TO 30.2 FEET IN THE OUTSIDE 100 FEET OF QUARTER.
B. SHOALING TO 25.4 FEET IN THE OUTSIDE 100 FEET OF QUARTER.
C. SHOALING TO 28.2 FEET AT 40°45'37.2"/124°13'13.3".
D. SHOALING TO 22.9 FEET FROM 40°45'31.2"/124°13'10.2" TO 40°45'33.1"/124°13'09.0" AND TO 21.2 FEET FROM 40°46'18.3"/124°12'18.2" TO 40°46'22.7"/124°12'10.9".
E. SHOALING TO 5.4 FEET FROM 40°48'24.2"/124°10'13.0" TO THE FIRST PIER. FROM WEST TO EAST, 11.6 FEET BETWEEN THE 1ST AND 2ND PIER, 10.5 FEET BETWEEN THE 2ND AND 3RD PIER, 9.5 FEET BETWEEN THE 3RD AND 4TH PIER, 9.1 FEET BETWEEN THE 4TH AND 5TH PIER, 8.9 FEET BETWEEN THE 5TH AND 6TH PIER, AND 7.3 FEET BETWEEN THE 6TH AND LAST PIER. SHOALING TO 6.3 FEET FROM THE LAST PIER TO THE END OF THE CHANNEL.
F. SHOALING TO 6.5 FEET FROM 40°48'23.4"/124°10'13.8" TO 40°48'27.4"/124°09'32.6", THENCE 6.3 FEET TO END OF CHANNEL IN THE OUTSIDE HALF OF QUARTER. SHOALING TO 10.8 FEET FROM 40°48'23.0"/124°10'13.7" TO 40°48'25.7"/124°09'38.2", THENCE 7.9 FEET TO THE END OF THE CHANNEL IN THE INSIDE HALF OF QUARTER.
G. SHOALING TO 11.8 FEET IN THE INSIDE HALF OF QUARTER AND SHOALING TO 13.7 FEET IN THE OUTSIDE HALF OF QUARTER, FROM 40°48'22.6"/124°10'10.3" TO THE END OF THE CHANNEL.
H. SHOALING TO 13.3 FEET IN THE INSIDE HALF OF QUARTER, FROM 40°48'21.6"/124°10'12.4" TO THE END OF THE CHANNEL. SHOALING TO 8.4 FEET IN THE OUTSIDE HALF OF QUARTER, FROM 40°48'24.4"/124°10'32.1" TO THE END OF CHANNEL, EXCEPT FOR SHOALING TO 5.7 FROM 40°48'22.3"/124°10'02.2" TO 40°48'23.0"/124°09'50.7" AND SHOALING TO 5.5 FEET FROM 40°48'25.3"/124°09'30.7" TO END OF CHANNEL.
NOTE-CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18652 (Page E) NM 26/02

SUISUN BAY AND SAN JOAQUIN RIVER

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

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SUISUN PT. REACH	44.1	45.7	46.9	3-02	300	0.8	35
BULLS HEAD CHANNEL	34.7	34.8	33.9	3-02	300-350	1.2	35
EAST BULLS HEAD CHANNEL	34.8	34.6	33.6	3-02	350	1.1	35
PT. EDITH CROSSING RANGE	36.4	34.0	27.0	3-02	350	1.1	35
PRESTON PT. REACH	36.0	33.7	25.3	3-02	350	0.9	35
ROE ISLAND CHANNEL	31.9	32.3	32.6	3-02	350	1.1	35
PORT CHICAGO REACH	37.0	36.9	36.9	3-02	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37.2	36.1	34.7	3-02	350	1.29	35
EAST REACH	36.0	36.9	35.8	3-02	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31.7	34.6	35.5	3-02	400	1.3	35
EAST REACH	32.2	32.9	32.6	3-02	400	1.7	35
SAN JOAQUIN RIVER							
ANTIOCH REACH	32.3	33.3	32.3	4-01	400	3.3	35

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

Chart 18656 NM 26/02

SUISUN BAY

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

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SUISUN PT. REACH	44.1	45.7	46.9	3-02	300	0.8	35
BULLS HEAD CHANNEL	34.7	34.8	33.9	3-02	300-350	1.2	35
EAST BULLS HEAD CHANNEL	34.8	34.6	33.6	3-02	350	1.1	35
PT. EDITH CROSSING RANGE	36.4	34.0	27.0	3-02	350	1.1	35
PRESTON PT. REACH	36.0	33.7	25.3	3-02	350	0.9	35
ROE ISLAND CHANNEL	31.9	32.3	32.6	3-02	350	1.1	35
PORT CHICAGO REACH	37.0	36.9	36.9	3-02	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37.2	36.1	34.7	3-02	350	1.29	35
EAST REACH	36.0	36.9	35.8	3-02	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31.7	34.6	35.5	3-02	400	1.3	35
EAST REACH	32.2	32.9	32.6	3-02	400	1.7	35

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

Chart 18657 NM 26/02

SUISUN BAY

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

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SUISUN PT. REACH	44.1	45.7	46.9	3-02	300	0.8	35
BULLS HEAD CHANNEL	34.7	34.8	33.9	3-02	300-350	1.2	35
EAST BULLS HEAD CHANNEL	34.8	34.6	33.6	3-02	350	1.1	35
PT. EDITH CROSSING RANGE	36.4	34.0	27.0	3-02	350	1.1	35

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

Chart 18658 NM 26/02

SUISUN BAY

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

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	34.8	34.6	33.6	3-02	350	1.1	35
PT. EDITH CROSSING RANGE	36.4	34.0	27.0	3-02	350	1.1	35
PRESTON PT. REACH	36.0	33.7	25.3	3-02	350	0.9	35
ROE ISLAND CHANNEL	31.9	32.3	32.6	3-02	350	1.1	35
PORT CHICAGO REACH	37.0	36.9	36.9	3-02	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37.2	36.1	34.7	3-02	350	1.29	35
EAST REACH	36.0	36.9	35.8	3-02	350	1.09	35

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

Chart 18659 NM 26/02

SUISUN BAY

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

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	31.7	34.6	35.5	3-02	400	1.3	35
EAST REACH	32.2	32.9	32.6	3-02	400	1.7	35

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

Chart 18666 NM 26/02

SUISUN BAY

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

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	37.2	36.1	34.7	3-02	350	1.29	35
EAST REACH	36.0	36.9	35.8	3-02	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31.7	34.6	35.5	3-02	400	1.3	35
EAST REACH	32.2	32.9	32.6	3-02	400	1.7	35

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