

Chart 94165

(B)

NM 20/02

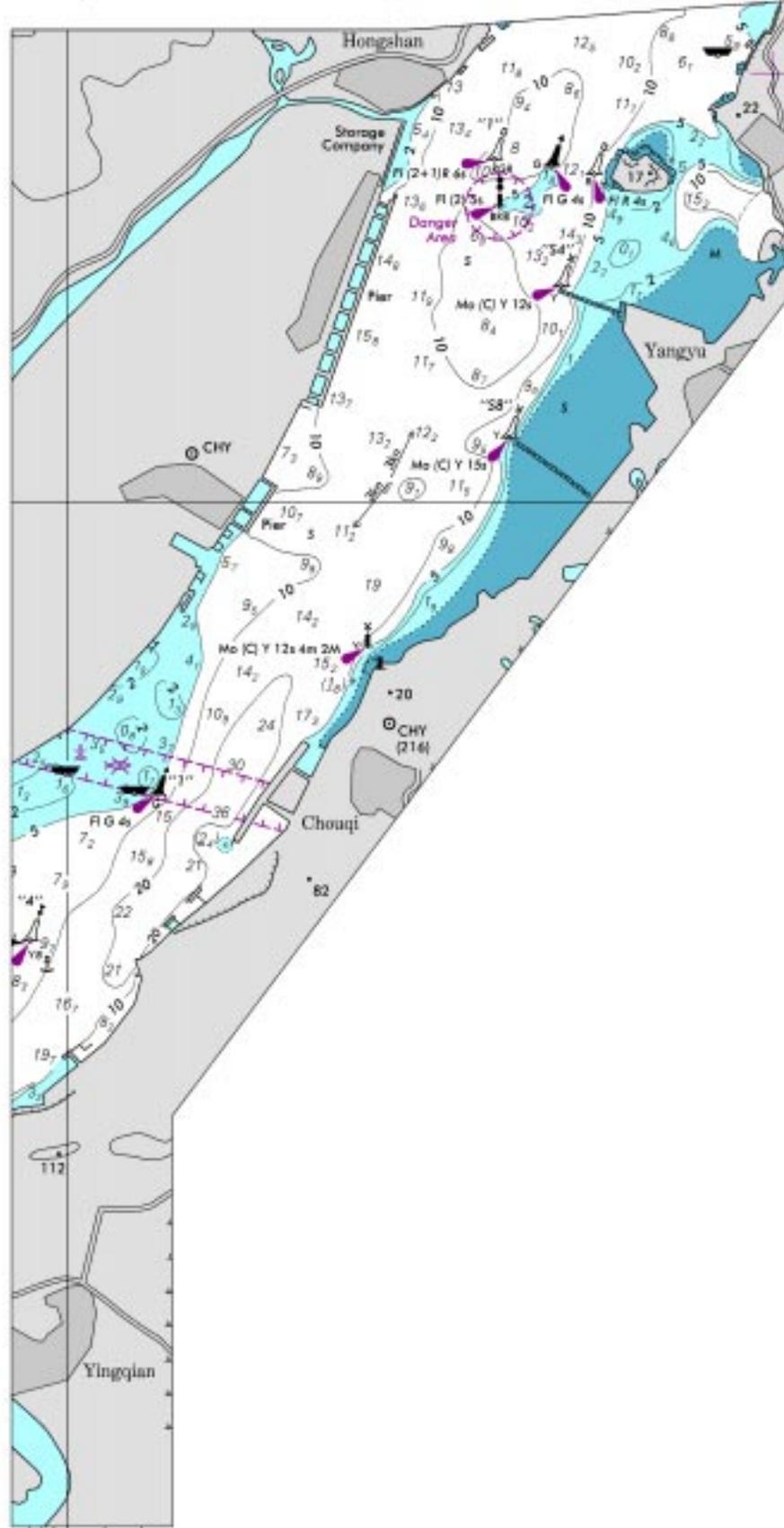


Chart 11537

NM 20/02

CAPE FEAR RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2002								
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 (FEET)
BALDHEAD SHOAL	35.2	38.3	36.9	32.6	8-15-01	500	5.0	40
SMITH ISLAND	31.7	34.8	41.3	42.6	11-01	500	1.0	40
BALDHEAD CASWELL CHANNEL	44.9	45.2	44.2	44.4	2-02	500	0.4	40
SOUTHPORT CHANNEL	43.5	45.1	44.9	44.1	1-02	500	1.0	40
BATTERY ISLAND CHANNEL	45.1	44.2	44.7	44.1	2-02	500	0.5	40
LOWER SWASH	41.5	42.5	42.5	41.4	1-02	400	1.6	38
SHOWS MARSH	42.1	41.8	40.4	40.5	9,11-01;1-02	400	3.1	38
HORSESHOE SHOAL	40.4	41.7	42.1	40.6	2-02	400	1.2	38
REAVES POINT	35.9	36.9	36.9	35.1	10-01	400	1.2	38
LOWER MIDAIGHT	35.3	38.4	39.0	37.5	10-01	400	1.6	38
UPPER MIDAIGHT	37.2	38.4	38.4	35.9	2-02	400	2.7	38
LOWER LILLIPUT	32.0	37.7	38.0	36.3	12-01	400	1.9	38
UPPER LILLIPUT	37.5	36.5	38.3	36.7	6,7-01	400	1.9	38
KEG ISLAND	37.4	38.9	37.8	34.9	1-02	400	1.4	38
BIG ISLAND LOWER	39.7	42.6	43.6	41.6	2-02	400	0.8	38
BIG ISLAND UPPER	40.3	43.4	43.4	42.4	3,11,12-01;1,2-02	400	0.5	38
LOWER BRUNSWICK	37.5	38.2	38.1	37.6	11-01;1-02	400	1.6	38
UPPER BRUNSWICK	37.5	38.9	39.5	38.3	1-02	400	1.0	38
FOURTH EAST JETTY	35.8	38.1	38.2	36.2	12-01	400	1.2	38
BETWEEN CHANNEL	33.5	38.9	39.6	36.1	12-01	850	0.8	38
ANCHORAGE BASIN & APP CHANNEL	35.7	34.2	32.5	27.2	18-01	450-1000	1.3	38
HWY 74-76 TO BATTLESHIP	30.7	32.9	30.2	29.0	12-99	400	0.6	32
BATTLESHIP TO HWY 117 INCLUDING TURNING BASIN	7.2	30.9	31.6	23.4	4-01	190-490	-	32
HWY 117 TO HILTON BR	27.0	28.8	31.8	30.5	4-01	200-490	0.5	32
THENCE TO END OF PROJECT AT 34°18'30"N 77°57'01"W	23.1	23.6A	23.9B	21.9C	5-99	200	1.2	25
TURNING BASIN	24.5	21.9	22.2	16.1	5-99	500	0.1	25

A. EXCEPT FOR SHOALING TO 21.4 FEET FOR THE LAST 150 FEET OF THE PROJECT.
 B. EXCEPT FOR SHOALING TO 16.4 FEET FOR THE LAST 150 FEET OF THE PROJECT.
 C. EXCEPT FOR SHOALING TO 10.2 FEET FOR THE LAST 150 FEET OF THE PROJECT.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14832

NM 20/02

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	27.9	27.3	25.6	22.6	6,10-00	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	15.5	22.6	23.5	24.4	6,10-00	1130-1425	.76	28
OUTER HARBOR TURNING BASIN	18.8	20.1	21.0	21.4	6,10-00	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	20.4	24.3	24.9	A24.0	6,10,12-00	500-1600	2.12	27
OUTER HARBOR NORTHERN CHANNEL	B18.6	21.2	21.8	21.0	6,12-00	1175-1350	.91	23
BUFFALO RIVER ENTRANCE CHANNEL	C16.0	D19.8	E18.5	F18.3	6-01	220-1625	.98	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	17.9	20.1	17.4	G17.2	12-01	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	H15.3	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 15.5 FEET AT 42°52'04.9"N-78°53'01.4"W
 B. SHOALING TO 10.7 FEET IN OUTSIDE 70 FEET OF QUARTER
 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 6.6 FEET IN OUTSIDE 50 FEET OF QUARTER AND 12.7 FEET WITHIN 200 FEET OF END OF REACH.
 H. 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

SECTION I

NM 20/02

Chart 14833

NM 20/02

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	27.9	27.3	25.6	22.6	6,10-00	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	15.5	22.6	23.5	24.4	6,10-00	1130-1425	.76	28
OUTER HARBOR TURNING BASIN	18.8	20.1	21.0	21.4	6,10-00	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	20.4	24.3	24.9	A24.0	6,10,12-00	500-1600	2.12	27
OUTER HARBOR NORTHERN CHANNEL	B18.6	21.2	21.8	21.0	6,12-00	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 15.5 FEET AT 42°52'04.9"N-78°53'01.4"W
 B. SHOALING TO 10.7 FEET IN OUTSIDE 70 FEET OF QUARTER
 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