Chart 14832 NM 13/16

BUFFALO HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2015 AND SURVEYS TO NOV 2015

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 (FEET)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH APPROACH	27.2	28.1	27.0	12.1	7-15	1000	2000	30
SOUTH ENTRANCE	23.8	25.4	23.2	18.9	7-15	1200-400	1950	29
INNER HARBOR SOUTH SECTION	12.1	18.1	22.2	9.6	7-15	1100-1600	3900	28
INNER HARBOR MOORING AREA	16.4	17.9	19.3	21.1	7-15	0-900	4200	23
INNER HARBOR MIDDLE SECTION	16.8	21.7	22.4	18.0	7-15	500-1600	11150	27
NORTH ENTRANCE	15.3	24.6	25.2	19.5	7-15	800	3000	25
INNER HARBOR NORTH SECTION	13.3	19.4	20.1	17.8	7-15	1370-1200	4800	23
BUFFALO RIVER ENTRANCE CHANNEL	13.4	18.6	18.6	14.0	8-15	1600-450	4100	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	14.7	20.7	19.5	5.3	6,11-15	1000-450	4860	21
ENTRANCE TO BLACK ROCK LOCKS	5.9	17.5	19.4	6.0	6,11-15	500-200	18530	21
THENCE TO BUOY 12	10.7	18.1	20.6	8.9	6,11-15	200-400	10330	21
NIAGARA RIVER CHANNEL:								
THENCE TO TONAWANDA HARBOR	16.6	16.8	18.2	6.0	6,11-15	360-800	29000	21
TO END OF CHANNEL	10.8	12.6	12.6	10.3	10,11-15	300	33500	12

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

Chart 14833 NM 13/16

BUFFALO HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2015 AND SURVEYS TO NOV 2015

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 (FEET)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH APPROACH	27.2	28.1	27.0	12.1	7-15	1000	2000	30
SOUTH ENTRANCE	23.8	25.4	23.2	18.9	7-15	1200-400	1950	29
INNER HARBOR SOUTH SECTION	12.1	18.1	22.2	9.6	7-15	1100-1600	3900	28
INNER HARBOR MOORING AREA	16.4	17.9	19.3	21.1	7-15	0-900	4200	23
INNER HARBOR MIDDLE SECTION	16.8	21.7	22.4	18.0	7-15	500-1600	11150	27
NORTH ENTRANCE	15.3	24.6	25.2	19.5	7-15	800	3000	25
INNER HARBOR NORTH SECTION	13.3	19.4	20.1	17.8	7-15	1370-1200	4800	23
BUFFALO RIVER:								
ENTRANCE CHANNEL	13.4	18.6	18.6	14.0	8-15	1600-450	4100	23
BUFFALO SHIP CANAL	18.4	19.6	19.6	16.4	8-15	125	5500	23
FROM ENTRANCE TO HAMBURG ST	3.1	15.8	15.8	12.1	8-15	150-350	8700	23
FROM HAMBURG ST TO SOUTH PARK STREET BRIDGE	5.2	5.7	5.7	4.5	8-15	150-700	14000	23
FROM SOUTH PARK BRIDGE TO END OF PROJECT	7.3	9.6	9.6	9.0	8-15	150-200	3000	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	14.7	20.7	19.5	5.3	6,11-15	1000-450	4860	21
ENTRANCE TO BLACK ROCK LOCKS	5.9	17.5	19.4	6.0	6,11-15	500-200	18530	21

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

Chart 14835 NM 13/16

ERIE HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 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 (FEET)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL A	22.7	23.0	22.8	12.1	7-14	500-220	10400(a)	29
ENTRANCE CHANNEL B	26.8	27.0	27.4	24.7	7-14	250-300	1500	28
NORTHEAST AND SOUTHEAST INNER HARBOR	14.9	23.4	24.7	21.4	7-14	2200	2200(b)	27-28
MIDDLE INNER HARBOR	17.5	18.2	20.0	18.4	7-14	2400	1500	21
WEST INNER HARBOR	14.9	15.9	16.1	16.3	7-14	900-550	2000	18

a. LENGTH VARIES DEPENDING ON THE LOCATION OF THE 29 FOOT CONTOUR IN LAKE ERIE.
b. IRREGULARLY SHAPED, SEE PROJECT CONDITION DRAWINGS.

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

Chart 14848 NM 13/16

DETROIT RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS AND PUBLIC WORKS CANADA - SURVEYS TO APR 2015

CONTROLLING DEPTHS FROM LAKE ERIE 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 (MILES)	DEPTH LWD (FEET)
FIGHTING ISLAND CHANNEL	19.0	29.1	27.0	23.5	10-09	800	4.7	28.5
BALLARDS REEF CHANNEL	20.4	26.9	27.8	27.3A	11-09	600	3.5	27.5 - 28.5
LIVINGSTONE CHANNEL FROM LT "D77" TO 42°05'35"N 83°07'45"W	20.0B	27.3	26.9	20.4C	4-15	450	3.1	27.7
LIVINGSTONE CHANNEL FROM 42°05'35"N 83°07'45"W TO 42°04'07"N 83°07'56"W	16.9	27.5	27.3	16.1	4-15	450	1.7	27.7
LIVINGSTONE CHANNEL FROM 42°04'07"N 83°07'56"W TO 42°03'08"N 83°08'05"W	23.5	27.6	28.3	22.8	4-15	450-800	1.1	27.7
LIVINGSTONE CHANNEL FROM 42°03'08"N 83°08'05"W TO LT "D30"	26.9	28.5	27.6	19.5	4-15	800	1.7	29.0
AMHERSTBURG CHANNEL FROM LT "D71" TO LT BUOY "D56"	26.9D	23.1	26.3	17.5	4,5-07	600	2.4	RT HALF 21.0 LT HALF 27.5
AMHERSTBURG CHANNEL FROM LT BUOY "D56" TO LT "D30"	28.1E	21.4	19.7	19.9	4,5-07	600-700	4.5	RT HALF 21.0 LT HALF 28.5
LIVINGSTONE CHANNEL FROM LT "D30" TO 42°00'20"N 83°08'25"W	22.4	29.5	27.7	20.4	4-15	1200	1.5	29.0
EAST OUTER CHANNEL	23.1	28.5	28.5	24.1	5-91;7-08	1200	7.5	28.5
WEST OUTER CHANNEL	F	F	F	F	1987	800	4	22.0

A. SHOALING TO 16.6 FEET IN THE OUTSIDE 50 FEET OF QUARTER
B. SHOALING TO 15.7 FEET IN THE OUTSIDE 30 FEET OF THE U.S. PORTION OF QUARTER
C. SHOALING TO 5.6 FEET IN THE OUTSIDE 30 FEET OF THE U.S. PORTION OF QUARTER
D. SHOALING TO 11.9 FEET IN THE OUTSIDE 40 FEET OF QUARTER
E. SHOALING TO 23.3 FEET IN THE OUTSIDE 40 FEET OF QUARTER
F. NOT SURVEYED RECENTLY

NOTE: CONSULT THE U.S. ARMY CORPS OF ENGINEERS FOR SUBSEQUENT CHANGES IN U.S. WATERS AND THE CANADIAN HYDROGRAPHIC SERVICE FOR CHANGES IN CANADIAN WATERS

Chart 14867 (Inset Saginaw River) **NM 13/16**

SAGINAW RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2015

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH LWD (FEET)
ENTRANCE CHANNEL	16.4	20.6	16.8	6,7-13;8-14;11-14	350	13.70	27
THENCE TO BUOY 28	25.0	25.8	22.0	11-14	200	0.47	26
THENCE TO ESSEXVILLE TURNING BASIN	24.5	23.2	18.8	5-15	200	2.27	25
ESSEXVILLE TURNING BASIN	14.9	23.2	14.8	5-15	630	0.37	25-20
THENCE TO RR BRIDGE AT MILE 4.94	20.4	22.4	22.8	4,5-15	200	2.05	25
THENCE TO AIRPORT TURNING BASIN	20.8	22.0	19.2	4-15	200	3.90	22
THENCE TO BUOY 64	17.5	20.6	17.3	4-15	200	3.20	22
THENCE TO N 43°28'52.4' W 83°54'48.0"	18.7	20.3	21.0	4-15	200	2.75	22
THENCE TO 6TH ST TURNING BASIN	16.6	19.5	17.0	4-15	200	3.10	22
6TH ST TURNING BASIN	15.3	15.1	12.2	4-15	650	0.20	22
THENCE TO C&O RR BRIDGE	13.8	15.4	12.1	4-12;5-14;4-15	200	0.17	22
THENCE TO CARROL ST.	15.4	15.6	13.0	10-77	200	0.30	16

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

Chart 73581 **NM 13/16**

MARINE FARMS

Marine farms, which may be floating or fixed structures and their associated moorings should be avoided. The farms are generally marked by buoys or beacons, which may be lit. Their charted positions are approximate.