

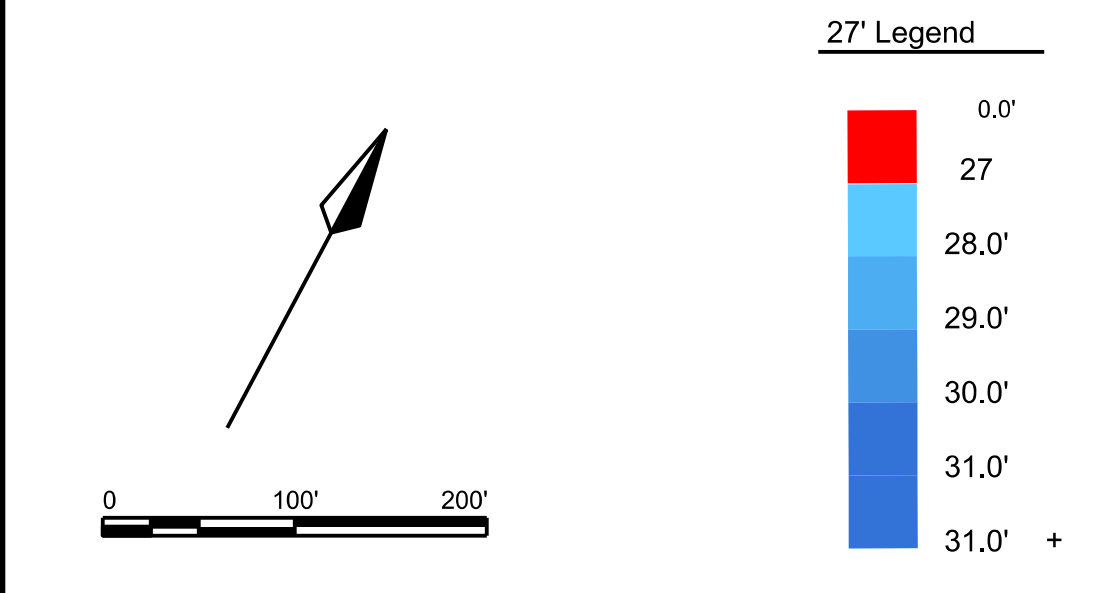
ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. 1985 FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC.

GRID SYSTEM BASED ON LAMBERT PROJECTION, MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (2113) 1983 NORTH AMERICAN DATUM, U.S. FOOT.

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

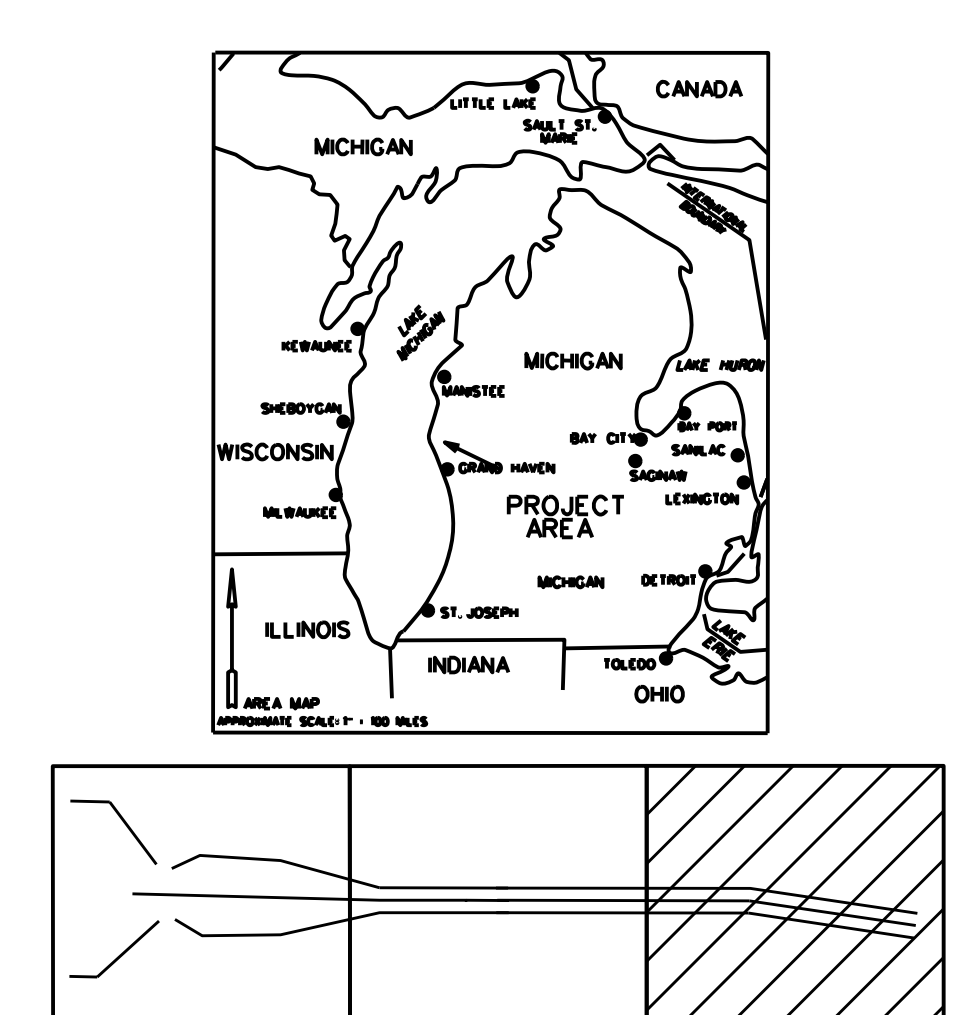
VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL IN THE COAST GUARD BASIN.

SURVEYED ON: 21 JUNE 2019
POSITIONING METHOD: APPLANIX POS M/V W/DGPS CORRECTIONS
MOTION COMPENSATION: APPLANIX OCEAN MASTER POS M/V
EQUIPMENT: ODOM CV300 SINGLE BEAM ECHOSOUNDER
SOFTWARE: HYPACK
VESSEL: LAUNCH 3058



CENTERLINE TURNING POINTS		
C/L PT.	NORTH	EAST
C/L 1	636936.91	12599604.42
C/L 2	637390.46	12600885.92

CHANNEL LIMIT TURNING POINTS		
CH. T.P.	NORTH	EAST
A	637484.72	12600852.56
B	637028.68	12599564.06
M	636845.08	12599644.63
N	637296.20	12600919.27



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				muskegon 2019.dgn	

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307 SOUTH HARBOR DR
GRAND HAVEN, MI 49417

MUSKEGON HARBOR
MICHIGAN

CONDITION OF CHANNEL
JUNE 2019

SHEET ID
VH103