

LEGEND

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 AT THE TIME.

LOW WATER DATUM

ELEVATIONS AND PROJECT DEPTHS ARE REFERRED TO INTERNATIONAL WREAP-CHSRES DATUM, (1985) AT ELEVATION 576.6 FT. ABOVE MEAN WATER LEVEL AT RIMOUSKI, QUEBEC.

GRID COORDINATES

GRIDS SHOWN ARE BASED ON NATIONAL GEODESIC SURVEY PROJECTION-NAD83- STATE OF MICHIGAN, SOUTH ZONE, (2113), LAURENT PROJECTION, 1983 NORTH AMERICAN DATUM.

DIRECTIONS

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS ARE AS SHOWN ON DRAWING.

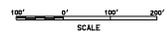
THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY FREDERICK J. W. DOUGLAS, PARTY CHIEF, ABOARD THE SURVEY VESSEL, P.A.L.

AUTOMATED EQUIPMENT USED

POSITIONING: STARLINK GPS
 DATA PROCESSOR: MICRO PC
 SOFTWARE: CRYSTAL BALL/GRAPHICS
 PLOTTER: EPLAD, CADJET 2
 SONIC SOUNDING: EDSONGAM 900-02

NOTES

1. GAUGES USED WERE OBTAINED FROM NOAA ELECTRONIC GAUGE AT 001 USGS VIA THE INTERNET.
2. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 839, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - PRECISION 576 INCH, 200 SPS
3. TRANSDUCER FREQUENCY USED TO MEASURE DEPTH DATA WAS 214 KHZ AND THE BEAM ANGLE WAS 16.5 DEGREES.



U.S. ARMY ENGINEER DISTRICT, DETROIT			
CORPS OF ENGINEERS			
DETROIT, MICHIGAN			
DESIGNED BY:	DETROIT AREA OFFICE	5 AUG 2002	
DRAWN BY:	ST. CLAIR RIVER CHANNEL		
	CS 2081+00 TO CS 2115+50		
CHECKED BY:	CONDITION SOUNDINGS		
REVIEWED BY:	MULTI-BEAM SWEEP SURVEY RESULTS		
SUBMITTED BY:	APPROVAL RECOMMEND	P.E.L.	DATE
CHIEF, FIELD OPS SEC	CHIEF, OTS BRANCH		
APPROVED:	SCALE AS SHOWN		DRAWING NUMBER
CHIEF, CONSTRUCTION - OPERATIONS DIVISION	Def: 53 of 54		SCR53