



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 GREAT LAKES DATUM, (1985) AT ELEVATION 568.6 FT. ABOVE MEAN WATER LEVEL AT FATHER POINT, QUEBEC.

GRID COORDINATES
 GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE, (2113), LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM.

DIRECTIONS
 ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS
 PROJECT DEPTHS ARE AS INDICATED ABOVE.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY FRED LESCH, PARTY CHIEF, ABOARD THE USACDE SURVEY LAUNCH 3043.

AUTOMATED EQUIPMENT USED

POSITIONING: STARLINK DOPPS	
DATA PROCESSOR: DELL PC	
SOFTWARE: COASTAL OCEANOGRAPHICS	
PLOTTER: ENCAD, CADJET 2	
SONIC SOUNDER: INNEBRIDGE 448	

28.5 FT. CONTOUR

1" = 100'

NOTES:

- GAGES USED WERE REFERENCED FROM GAGE BOARD SET ON PILING ON PUMP-OUT STATION LOCATED IN SOUTH INNER CHANNEL OF PTE. McVILLIE.
- POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 BPS
- TRANSDUCER FREQUENCY USED TO MEASURE DEPTH DATA WAS 208 KHZ AND THE BEAM ANGLE WAS 3.0 DEGREES.

NO.	DATE	REVISION	BY

**U.S. ARMY ENGINEER DISTRICT, DETROIT
 CORPS OF ENGINEERS
 DETROIT, MICHIGAN**

**DETROIT RIVER, MICHIGAN
 EAST OUTER CHANNEL
 CONDITION SOUNDINGS 23 JUN 1999
 C.S. 144+00 TO C.S. 179+00
 DETROIT AREA OFFICE**

DESIGNED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____
 REVIEWED BY: _____

IDENTITY BY: _____
 CHIEF, PROJ.-OPNS-SECT CHIEF, DTB BRANCH

APPROVED: _____
 CHIEF, COMST - OPNS DIVISION

APPROVAL RECOMMENDED BY: _____
 CHIEF, DTB BRANCH

SCALE AS SHOWN

FILE NAME: F050906C.DGN