SURVEY NOTES:

1) HORIZONTAL DATUM:
NAD83 ILLINOIS WEST 1202, US SURVEY FOOT

2) VERTICAL DATUM:
NAVD88, FOOT

3) DEPTHS SHOWN ARE BELOW MINIMUM POOL.

4) SURVEY INFORMATION:
SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)
ECHO SOUNDER: TELEDYNE ECHOTRAC E20
TRANSDUCER: ODOM SMSW200-4 (4° BEAM, 200 kHz)
SOUND VELOCITY SOURCE: VALEPORT SWIFT SVP
INS: SBG ELLIPSE2-E-G4A2-B1
GNSS RECEIVER: TRIMBLE MPS865 WITH DUAL ANTENNAS
GNSS SOURCE: TRIMBLE CENTERPOINT RTX
TIDE METHOD: REAL-TIME KINEMATIC
TIDE SOURCE: TRIMBLE CENTERPOINT RTX

5) THE SURVEY WAS COMPLETED IN ACCORDANCE WITH QUALITY CONTROL PLAN PROCEDURES.

JUNE 20, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

DATE	GAGE	RIVER MILE	DMG	ZERO NAVD88	TIME	STAGE	NAVD88 WS ELEV	NAVD88 MIN. POOL	DIFFERENCE
20230620	HARDIN	21.5	113378	399.10	11:30	19.42	418.52	417.30	1.22
20230620	HARDIN	21.5	113378	399.10	16:00	19.44	418.54	417.30	1.24
20230620	FLORENCE	56.0	294803	399.04	11:30	20.39	419.43	417.84	1.59
20230620	FLORENCE	56.0	294803	399.04	16:00	20.40	419.44	417.84	1.60

ILLINOIS

41

Pearl Island Lt. (41.4)

FIG 4s

ILLINOIS

E 2,172,000

E 2,170,000

E 2,168,000

N 1,008,000

N 1,006,000

N 1,004,000

N

Scale: 1 Inch = 400.00 Feet

250 500 1000 1500 2000 Feet

St. Louis District

DATES OF SURVEY:
JUNE 20, 2023

FILE NO.: 041F2023
REQUEST NO.: W912P923R0113

SCALE:
1" = 400' (ANSI B)

FIELD BOOKS:

Approved: FIELD CARTOGRAPHER
Approved: CIVIL ENGINEERING TECHNICIAN
Approved: ASST. CHIEF OF SURVEY
Approved: CHIEF OF SURVEY
Date:

U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY:
BOWEN ENGINEERING AND SURVEYING, P.C.
2121 MEGAN DRIVE
CAPE GIRARDEAU, MO 63701

UPPER MISSISSIPPI RIVER BASIN
ILLINOIS RIVER

PRE DREDGE SURVEY
RIVER MILES 41.7 - 40.0

SHEET NO.
1 OF 2

SURVEY NOTES:

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N 1,004,000
N 1,002,000
N 1,000,000
E 2,170,000
E 2,168,000
ILLINOIS
Spar Island Dbn. (39.7)
40
Wing Island
ILLINOIS
N
Scale: 1 Inch = 400.00 Feet
250 500 1000 1500 2000 Feet

St. Louis District

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SHEET NO.
2 OF 2