SURVEY NOTES:

1) HORIZONTAL DATUM:
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT

2) VERTICAL DATUM:
NAVD88 (GEOID18), FOOT

3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.

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
KTD FILE: LWRP RM 0 to 200_250x250.KTD

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

JANUARY 17, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 14:00
41	306.84	306.71	301.84	5.00	4.87
42	307.42	307.29	302.79	4.63	4.50
43	308.01	307.88	303.56	4.45	4.32

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
39.5	Commerce, MO	301.60	9:00	4.36	14:00	4.23
43.7	Thebes, IL	299.71	9:00	8.71	14:00	8.58

ILLINOIS

MISSOURI

N 502,000 E 1,126,000
N 500,000
N 498,000 E 1,128,000
N 496,000
N 494,000 E 1,130,000
N 500,000 E 1,120,000
N 498,000
N 496,000 E 1,122,000
N 494,000
N 492,000
N 490,000

N

Scale: 1 Inch = 800.00 Feet

500 1000 2000 3000 4000 Feet

St. Louis District

SCALE: 1" = 800' (ANSI B)

DATES OF SURVEY: JANUARY 17, 2023

FILE NO: 042A1723
REQUEST NO.: W912P923F0004

FIELD CARTOGRAPHER
CIVIL ENGINEERING TECHNICIAN
ASST. CHIEF OF SURVEY
CHIEF OF SURVEY
Approved:
Approved:
Approved:
Approved:
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
MISSISSIPPI RIVER
POST DREDGE SURVEY
RIVER MILES 42.5 - 41.5

SHEET NO.
1 OF 1