



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-G442-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.

NOVEMBER 30, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 10:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 13:00
172	374.16	374.33	372.21	1.95	2.12
173	374.73	374.88	372.95	1.78	1.93
174	375.29	375.44	373.73	1.56	1.71

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
168.7	Jefferson Barracks, MO	377.34	10:00	-5.03	13:00	4.86
176.8	Engineers Depot, MO	378.98	10:00	-2.12	13:00	-1.97



DATES OF SURVEY:
NOVEMBER 30, 2023

FIELD BOOKS:
FILE NO.: 173K3023
REQUEST NO.: W91P23F086

SCALE:
1" = 800' (ANSI B)

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
MISSISSIPPI RIVER
POST DREDGE SURVEY
RIVER MILES 173.4 - 172.9

SHEET NO.