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

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

DECEMBER 7 2023
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 10:00	WSE @ 11:00	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 11:00
171	374.16	374.16	371.48	2.68	2.68
172	374.73	374.71	372.21	2.52	2.50
173	375.30	375.26	372.95	2.35	2.31

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	-4.49	11:00	-4.45
176.8	Engineers Depot, MO	378.98	10:00	-1.52	11:00	-1.63

ILLINOIS

MISSOURI

BARGE

BARGE

BARGE

BARGE

BARGE

BARGE

BARGE

172

171

St Louis, MO

N

Scale: 1 Inch = 800.00 Feet

500 1000 2000 3000 4000 Feet

N 984,000 E 894,000 N 992,000 N 980,000 E 882,000 N 976,000 E 890,000 E 892,000 N 988,000 E 888,000 N 976,000 E 886,000 E 890,000 N 996,000 E 888,000 N 984,000 E 886,000 N 992,000 N 980,000 E 884,000 N 976,000

St. Louis District

DATES OF SURVEY:
DECEMBER 7, 2023

FILE NO.: 172L0723
REQUEST NO.: W912P923F0086

SCALE:
1" = 800' (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
MISSISSIPPI RIVER
POST DREDGE SURVEY
RIVER MILES 172.1 - 171.3

SHEET NO.
1 OF 1