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.

E 906,000 N 998,000 E 904,000 N 996,000 E 902,000 N 994,000 N 992,000 E 900,000

ILLINOIS

ILLINOIS

MISSOURI

Arsenal Island C

#1 Arsenal Island Fleet

#2 Arsenal Island Fl

American Milling (Former Mobil)

Arsenal Island Dike Fleet

Arsenal Island #1 Bank Fleet

Arsenal Island #2 Upper Anchor Fleet

Arsenal Island #3

Arsenal Island #3 Lower Anchor

Arsenal Island New Fleet

n Street Fleet

Gasconade St. Fleet

BARGE

Upper Reidy Fle

BARGE

Reidy Terminal Inc.

Lower Reidy Fleet

Upper Bellerive Fleet

St Louis, MO

NOVEMBER 22, 2022
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 11:00	WSE @ 13:30	LWRP 2014	LWRP DIF @ 11:00	LWRP DIF @ 13:30
174	377.91	377.93	373.73	4.18	4.20
175	378.50	378.52	374.30	4.20	4.22
176	379.08	379.10	374.74	4.34	4.36

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
168.7	Jefferson Barracks, MO.	377.34	11:00	-2.52	13:30	-2.51
176.8	Engineers Depot, MO.	378.98	11:00	0.57	13:30	0.59

N

St Louis, MO
Scale: 1 Inch = 800.00 Feet

500 1000 2000 3000 4000 Feet

E 900,000 N 1,002,000 E 898,000 N 1,000,000 E 896,000 N 998,000 E 894,000 N 996,000

St. Louis District

SCALE: 1" = 800' (ANSI B)

DATES OF SURVEY: NOVEMBER 22, 2022

FILE NO.: 175K2222
REQUEST NO.: W912P923F0004

FIELD BOOKS:

Approved: FIELD HYDROGRAPHER
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
PRE DREDGE SURVEY
RIVER MILES 176.0 - 174.5

SHEET NO.
1 OF 1