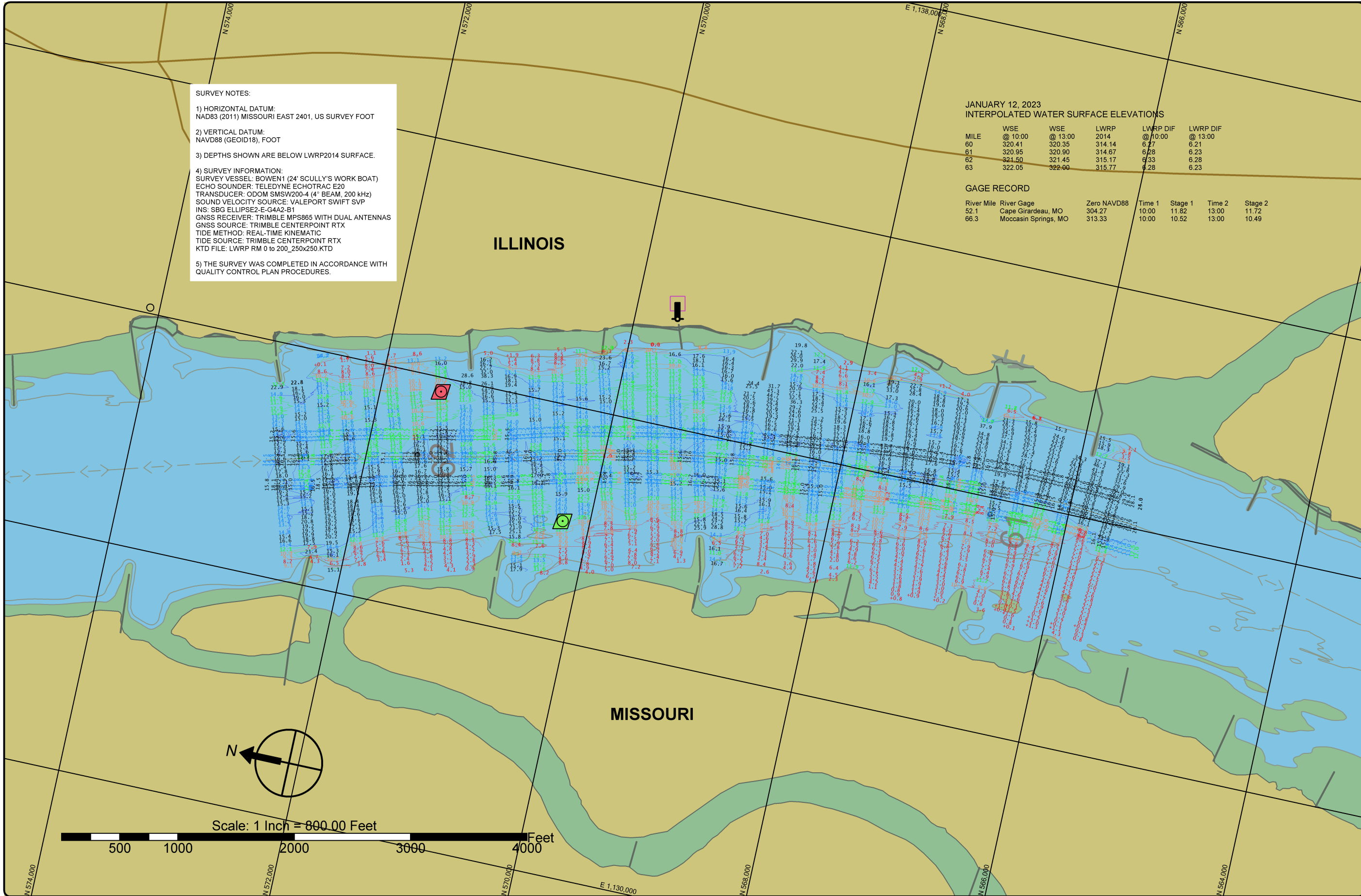




SURVEY NOTES:

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 12, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 10:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 13:00
60	320.41	320.35	314.14	6.27	6.21
61	320.95	320.90	314.67	6.28	6.23
62	321.50	321.45	315.17	6.33	6.28
63	322.05	322.00	315.77	6.28	6.23

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
52.1	Cape Girardeau, MO	304.27	10:00	11.82	13:00	11.72
66.3	Moccasin Springs, MO	313.33	10:00	10.52	13:00	10.49



St. Louis District

DATES OF SURVEY:

JANUARY 12, 2023

SCALE:

1" = 800' (ANSI B)

FIELD BOOKS:

FILE NO. 062A1223
REQUEST NO. W812923F004

Approved:

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

Approved:

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ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

Date:

UPPER MISSISSIPPI RIVER
BASIN

MISSISSIPPI RIVER

PRE DREDGE SURVEY

RIVER MILES 62.2 - 60.8

SHEET NO.

1 OF 1