

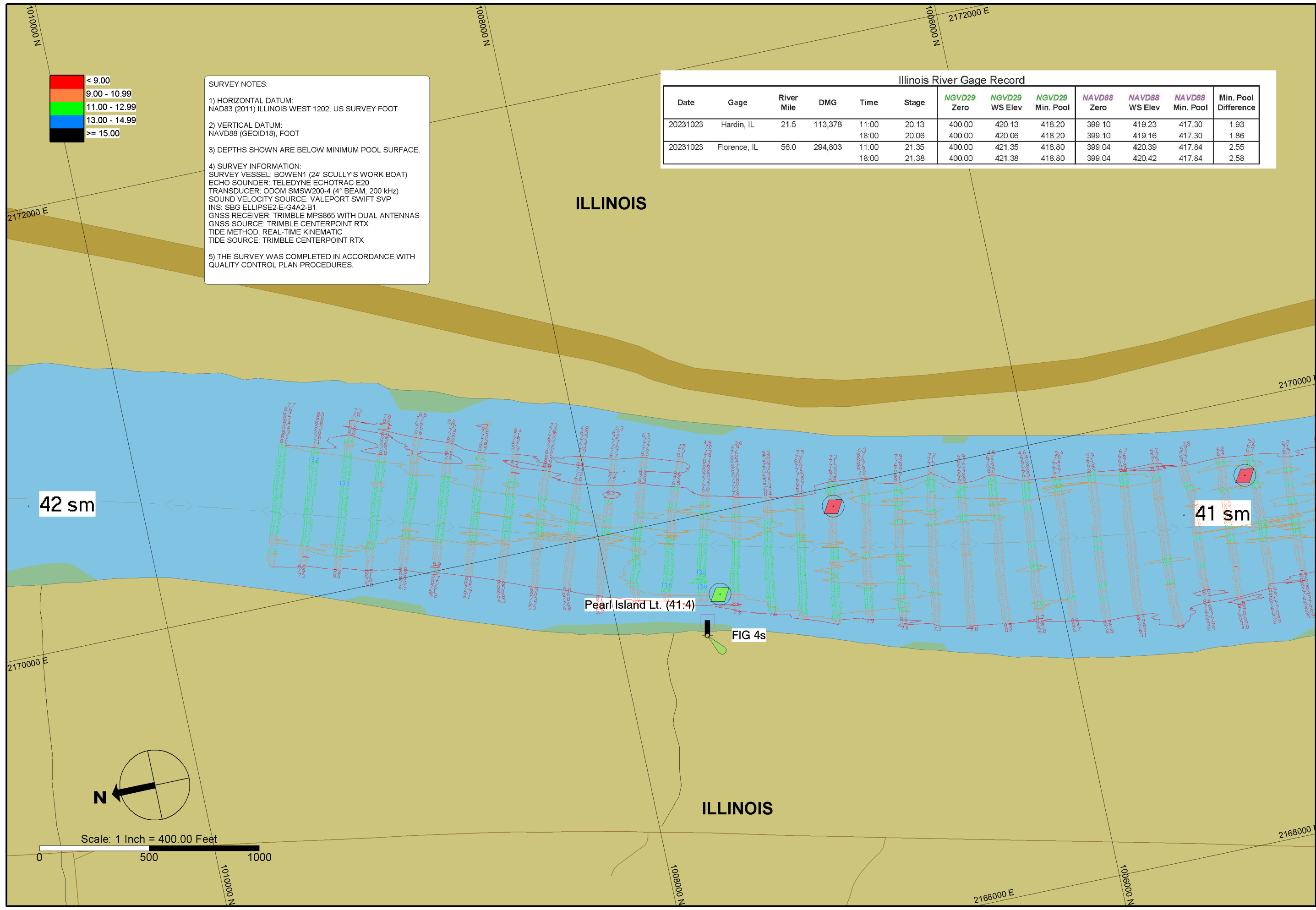


St. Louis District

Date	Gage	River Mile	DMG	Time	Stage	NGVD29	NGVD29	NGVD29	NAVD88	NAVD88	NAVD88	Min. Pool Difference
						Zero	WS Elev	Min. Pool	Zero	WS Elev	Min. Pool	
20231023	Hardin, IL	21.5	113,378	11:00	20.13	400.00	420.13	418.20	399.10	419.23	417.30	1.93
				18:00	20.06	400.00	420.06	418.20	399.10	419.16	417.30	1.86
20231023	Florence, IL	56.0	294,803	11:00	21.35	400.00	421.35	418.80	399.04	420.39	417.84	2.55
				18:00	21.38	400.00	421.38	418.80	399.04	420.42	417.84	2.58

SURVEY NOTES:

- 1) HORIZONTAL DATUM:
NAD83 (2011) ILLINOIS WEST 1202, US SURVEY FOOT
- 2) VERTICAL DATUM:
NAVD88 (GEOID18), FOOT
- 3) DEPTHS SHOWN ARE BELOW MINIMUM POOL 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.



DATE OF SURVEY:
OCTOBER 23, 2023

FILE NO.: 041J2323
TASK NO.: W912P923F0113

SCALE:
1" = 400' (ANSI B)

FIELD BOOKS:

Approved: _____
FIELD CARTOGRAPHER

Approved: _____
CIVIL ENGINEERING TECH

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 & SURVEYING, P.C.
2121 MEGAN DRIVE, CAPE GIRARDEAU, MO

UPPER MISSISSIPPI
RIVER BASIN
ILLINOIS RIVER

PRE DREDGE SURVEY
RIVER MILES 41.7 - 40.0

SHEET NO.
1 OF 2

