

COMMERCE NO	HEBES, L	DATE
10160	299.71	19.5
19.5	43.7	301.2
301.2	304.61	X

U.S. ARMY ENGINEER DIVISION	ST. LOUIS, MISSOURI	UPPER MISSISSIPPI RIVER BASIN	MISSISSIPPI RIVER
Surveyed by:	BOWEN ENGINEERING	Survey Date:	JANUARY 19, 2021
Drawn by:	X	Reviewed by:	X
Submitted:	X	Approved:	X
File name:	PRE DREDGE SURVEY	Plot date:	1/19/2021

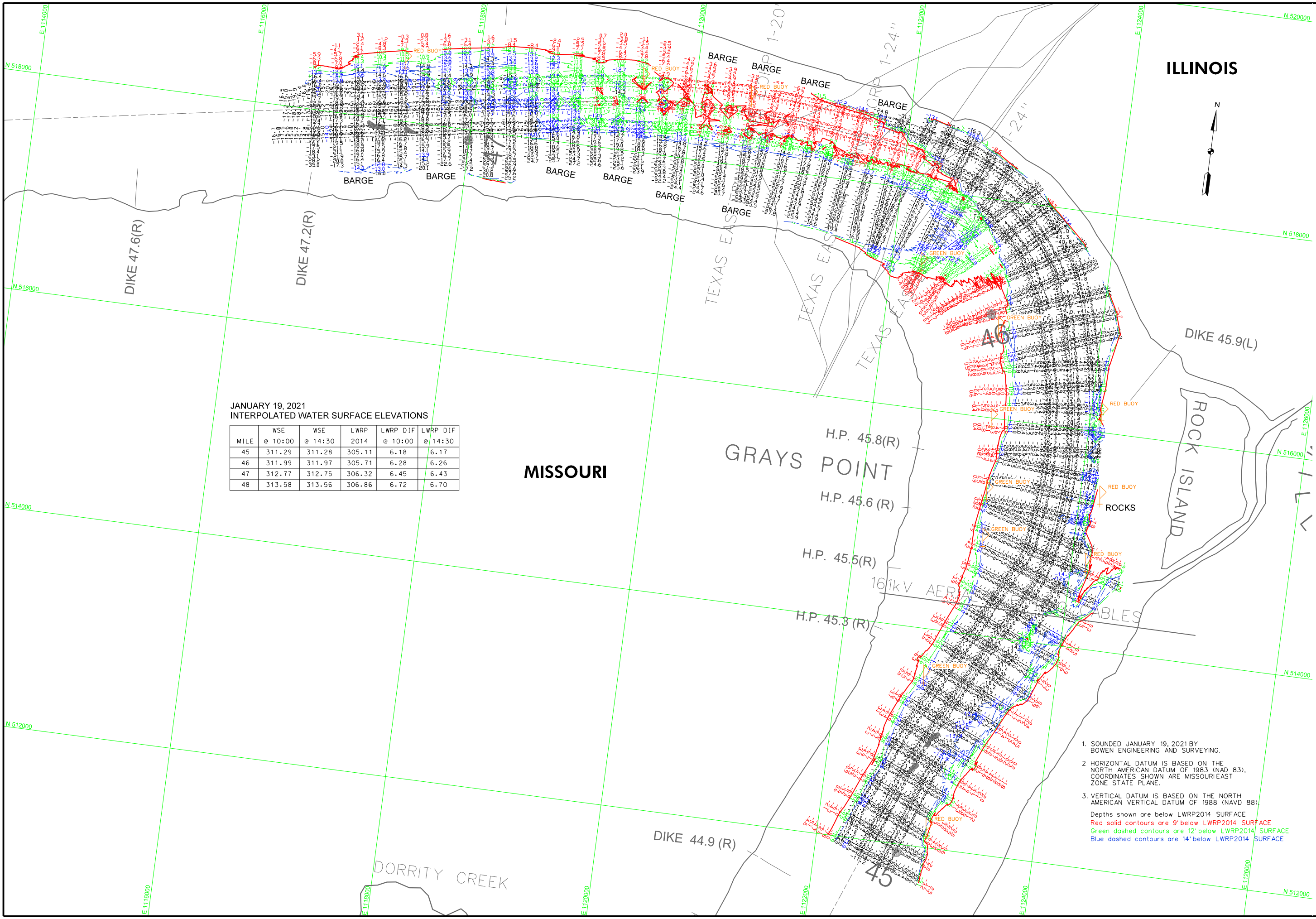
170 0 100 200 300 400 500 600 700 800 900 1000 METERS

400 0 400 800 1200 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER THE GENERAL CONDITIONS ESTABLISHED BY THE U.S. ARMY CORPS OF ENGINEERS.

PRE DREDGE SURVEY  
RIVER MILES 47.2 - 45.0

PLATE NUMBER  
XX



JANUARY 19, 2021  
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 10:00	WSE @ 14:30	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 14:30
45	311.29	311.28	305.11	6.18	6.17
46	311.99	311.97	305.71	6.28	6.26
47	312.77	312.75	306.32	6.45	6.43
48	313.58	313.56	306.86	6.72	6.70

- SOUNDED JANUARY 19, 2021 BY BOWEN ENGINEERING AND SURVEYING.
- HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
- VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).  
 Depths shown are below LWRP2014 SURFACE  
 Red solid contours are 9' below LWRP2014 SURFACE  
 Green dashed contours are 12' below LWRP2014 SURFACE  
 Blue dashed contours are 14' below LWRP2014 SURFACE