

OCTOBER 2, 2020
INTERPOLATED WATER SURFACE ELEVATIONS - MAIN CHANNEL

MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
182	382.51	382.23	376.38	6.13	5.85
183	382.55	382.25	376.38	6.17	5.87
183.3	382.56	382.25	376.38	6.18	5.87
184	382.56	382.25	376.38	6.18	5.87
185.1	382.56	382.25	376.38	6.18	5.87

OCTOBER 2, 2020
INTERPOLATED WATER SURFACE ELEVATIONS - OLD CHANNEL


MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
183.3	382.56	382.25	376.38	6.18	5.87
184	383.96	383.83	376.38	7.58	7.45
184.5	384.96	384.96	376.94	8.02	8.02

WATER SURFACE ELEVATION CALCULATIONS WERE COMPLETED BY TRANSFERRING THE L&D 27 LOWER GAGE READING TO MILE 183.3.

GPS OBSERVATIONS WERE USED TO ESTABLISH WATER SURFACE ELEVATIONS IN THE OLD CHANNEL.

1. SOUNDED OCTOBER 2, 2020 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. 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



US Army Corps of Engineers
St. Louis District

GAGE RECORD	ST. LOUIS NO.	L&D 27 LOWER	379.58
GPS OBSERVATION 1	ZERO N.A.V.D.	184.5 (OLD CHANNEL)	184.1
		LWRP 2014	376.38
		02 OCT 2020	384.96(2:00)
			33.078(00) 32.701(300) 2.85(000) 2.63(1500)

Survey Date: OCTOBER 2, 2020

Drawn by: X
 Checked by: X
 Reviewed by: X

Submitted: X
 Approved: X

Plot Date: 10/02/2020
 File Name: 184.5 (OLD CHANNEL).DWG

U.S. ARMY ENGINEER DIVISION
 CORPS OF ENGINEERS
 ST. LOUIS, MISSOURI

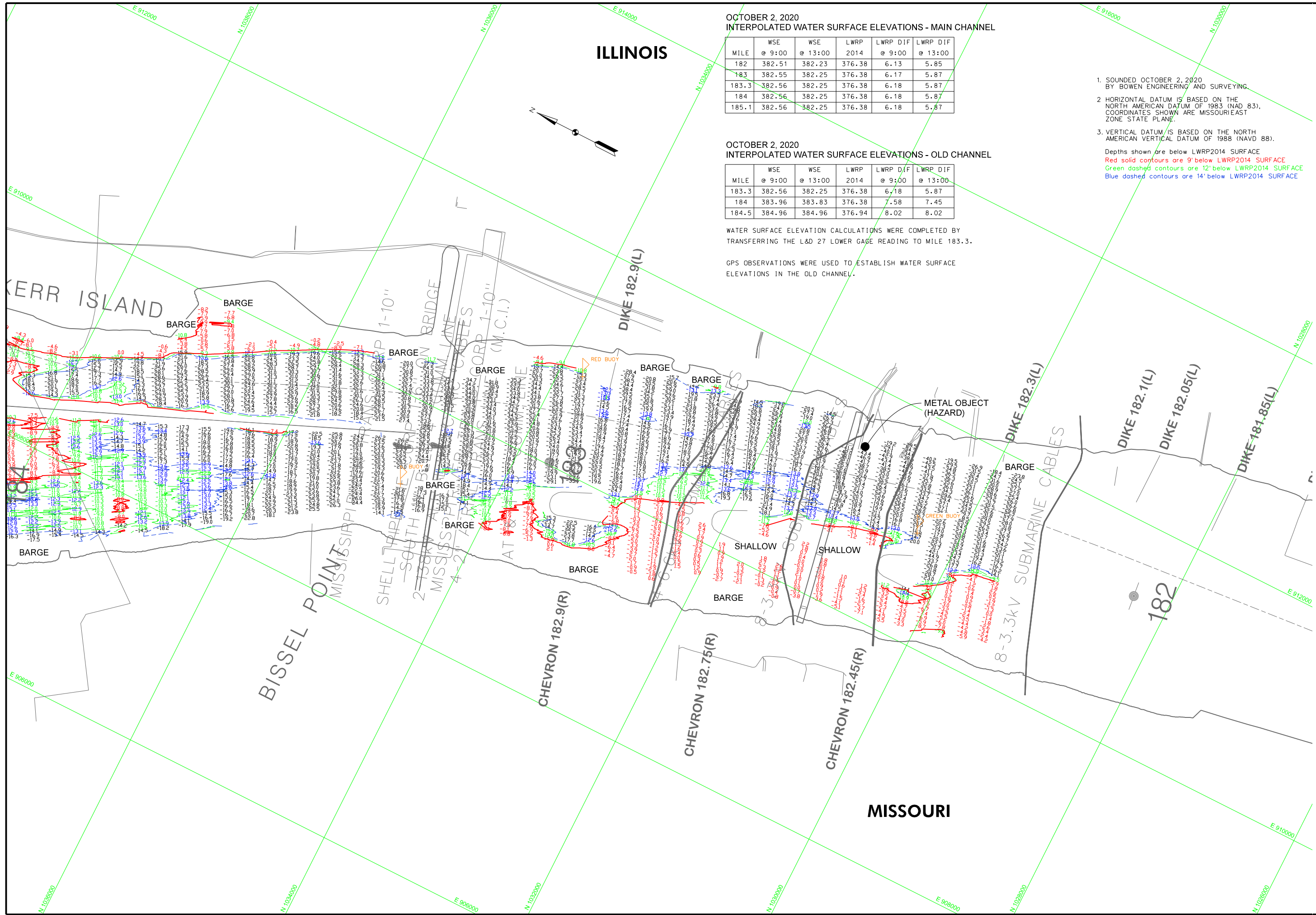
UPPER MISSISSIPPI RIVER BASIN
 MISSISSIPPI RIVER

1" = 240 METERS
 1" = 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A PRE-DREDGE SURVEY CONDUCTED UNDER THE GENERAL CONDITIONS LISTED ON THE REVERSE SIDE OF THIS SHEET.

PRE DREDGE SURVEY
 RIVER MILES 184.5 - 182.3

PLATE NUMBER
 XX
 SHEET 1 OF 2



ILLINOIS

MISSOURI

OCTOBER 2, 2020
INTERPOLATED WATER SURFACE ELEVATIONS - MAIN CHANNEL

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GPS OBSERVATIONS WERE USED TO ESTABLISH WATER SURFACE ELEVATIONS IN THE OLD CHANNEL.

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US Army Corps of Engineers
St. Louis District

ST. LOUIS NO.	L&D 27 LOWER	ST. LOUIS NO.
379.58	349.49	180.0
184.5 (OLD CHANNEL)	184.1	376.38
LWRP 2014	376.38	376.38
02 OCT 2020	384.96(2:00)	33.07(9:00) 32.70(13:00) 2.85(9:00) 2.63(13:00)

U.S. ARMY ENGINEER DIVISION	Survey Date:	Survey Date:
CORPS OF ENGINEERS	BOWEN ENGINEERING	OCTOBER 2, 2020
ST. LOUIS, MISSOURI	Drawn by:	Reviewed by:
UPPER MISSISSIPPI RIVER BASIN	X	X
MISSISSIPPI RIVER	SUBMITTED:	APPROVED:
	X	X

240 METERS
800 FEET

PRE DREDGE SURVEY
RIVER MILES 184.5 - 182.3