

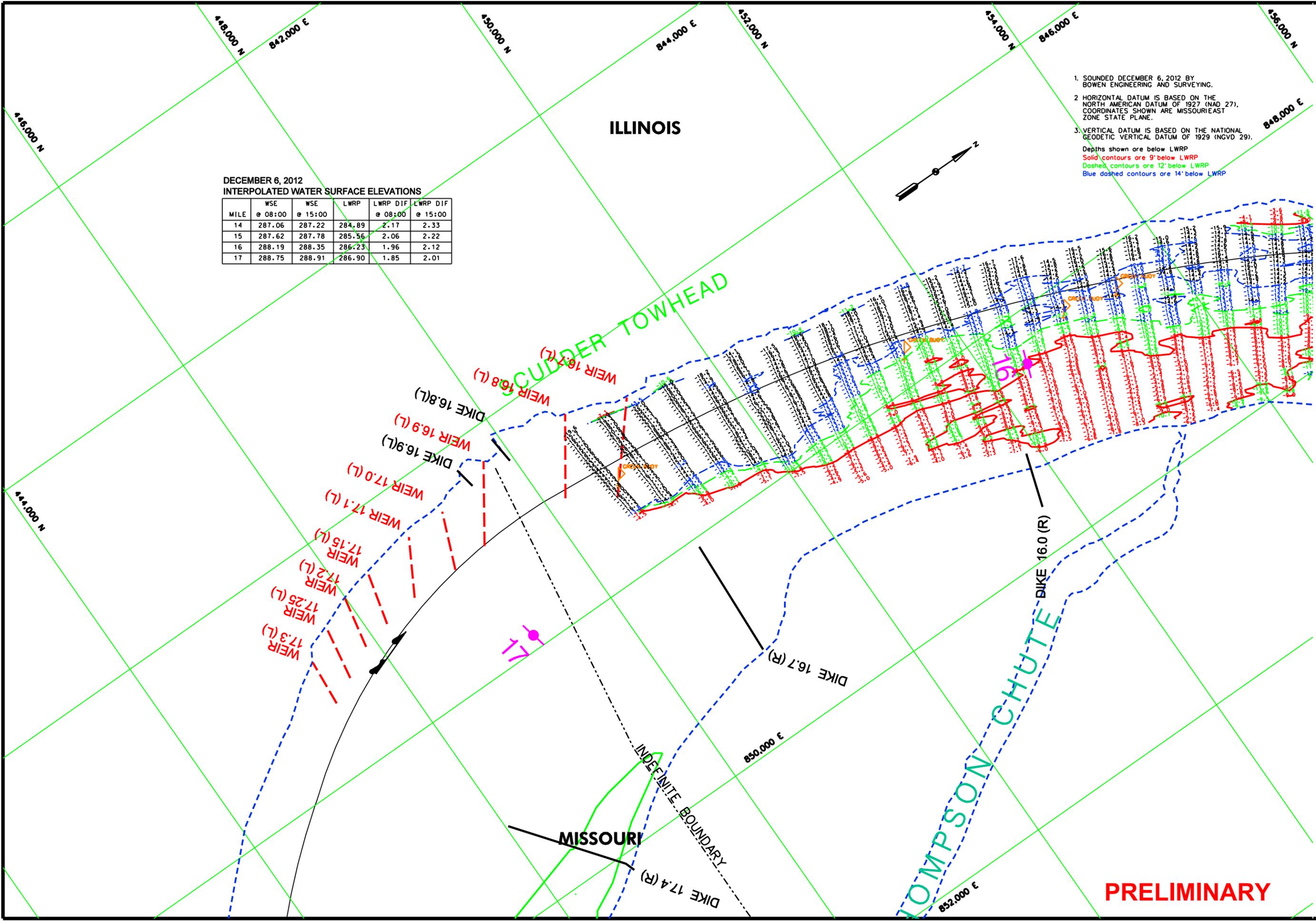


US Army Corps of Engineers
St. Louis District

1. SOUNDED DECEMBER 6, 2012 BY BOWEN ENGINEERING AND SURVEYING.
 2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI-EAST ZONE STATE PLANE.
 3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
- Depths shown are below LWRP
 Solid contours are 9' below LWRP
 Dashed contours are 12' below LWRP
 Blue dashed contours are 14' below LWRP

DECEMBER 6, 2012
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00	LWRP	LWRP DIF @ 08:00	LWRP DIF @ 15:00
14	287.06	287.22	284.89	2.17	2.33
15	287.62	287.78	285.56	2.06	2.22
16	288.19	288.35	286.23	1.96	2.12
17	288.75	288.91	286.90	1.85	2.01



GAUGE RECORD	BRIDGE POINT	PRICE'S LANDING
ZERO NGVD	274.53	293.73
MILE	2.0	28.2
L.W.R.P.	277.9	293.1
05 DEC 2012	5.718(80) 5.915(50)	-4.898(50) -4.321(50)

ELEVATIONS ARE REFERRED TO M.S.L. - CONTOURS ARE BELOW M.S.L. - LOW WATER REFERENCE PLANE (L.W.R.P.) IS 293.73

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	UPPER MISSISSIPPI RIVER BASIN MISSISSIPPI RIVER
Survey Date: DECEMBER 6, 2012	Reviewed by: [Signature]
Drawn by: [Signature]	Checked by: [Signature]
Submitted: [Signature]	Approved: [Signature]
Chief, Eng. Data Mgmt. Sect.	Chief, Geospatial Branch
Plot date: [Date]	File name: [Filename]

170 0 100 200 300 400 500 600 700 800 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 16.7 - 14.3

PRELIMINARY

