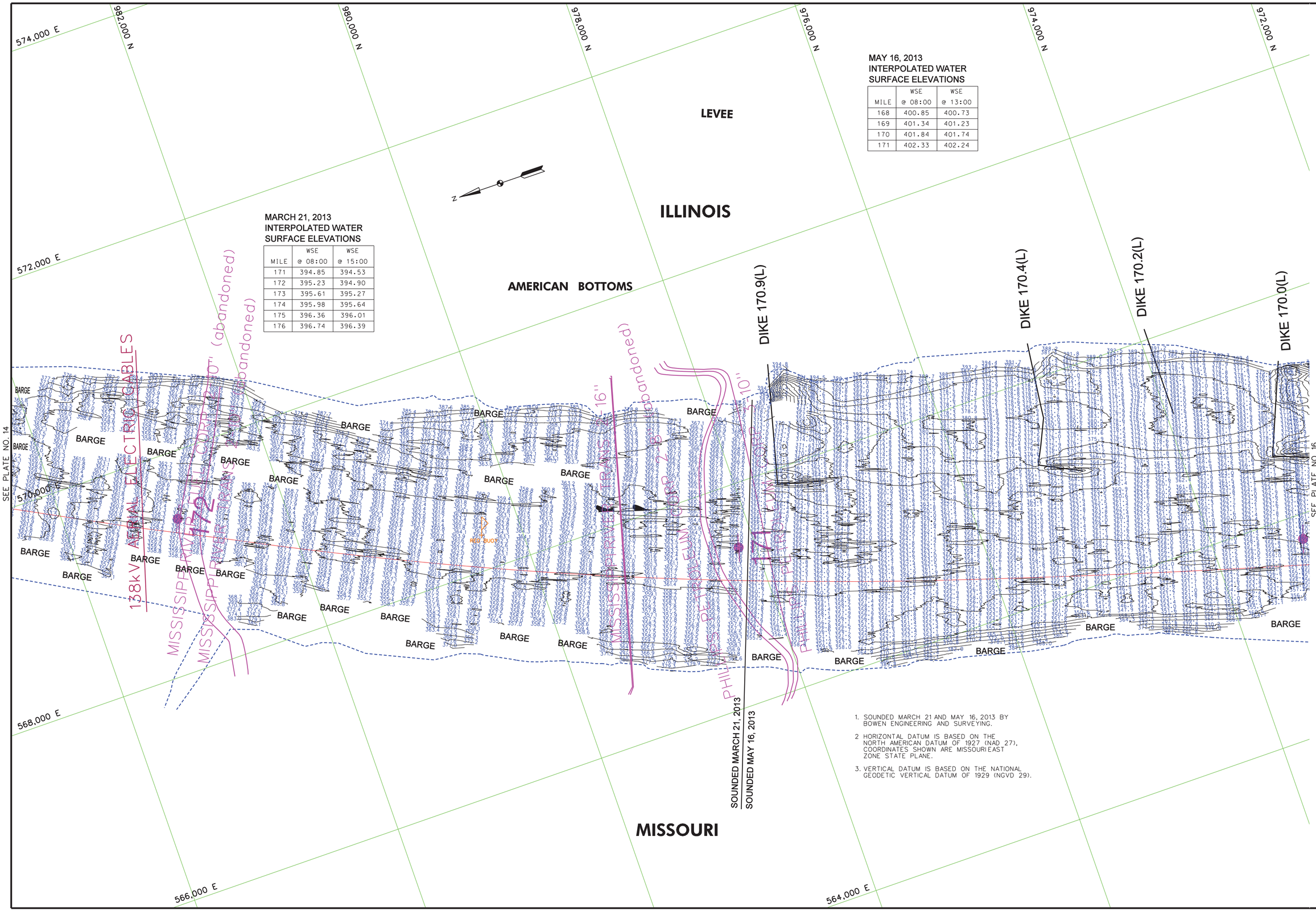


MARCH 21, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
171	394.85	394.53
172	395.23	394.90
173	395.61	395.27
174	395.98	395.64
175	396.36	396.01
176	396.74	396.39

MAY 16, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 13:00
168	400.85	400.73
169	401.34	401.23
170	401.84	401.74
171	402.33	402.24

1. SOUNDED MARCH 21 AND MAY 16, 2013 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).

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	BROKEY'S LANDING	JEFFERSON BARRACKS	ST. LOUIS, MO	L&D 27 LOWER
ZERO N.G.V.D.	357.78	377.69	379.94	350.00
MILE	136.0	168.7	179.6	185.1
L. W. R. P.	356.2	372.8	376.4	380.5
21 MAR 2013	x	16.3(07:49) 16.0(14:45)	18.16(08:00) 17.78(15:00)	x
16 MAY 2013	27.26(8:00) 27.13(13:00)	23.5(8:30) 23.4(12:30)	26.64(8:00) 26.65(13:00)	x

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE. G:\W.R.P.\134,000 C.F.S.\

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

Surveyed by: BOWEN ENGINEERING
Survey Date: March 21 and May 16, 2013
Drawn by: X
Reviewed by: X
Ckd by: X
SUBMITTED: X
APPROVED: X
File name: ##########FILEEXPECTATION##
Plot date: ##########DATE/TIME##

120 0 120 240 METERS
400 0 400 800 FEET

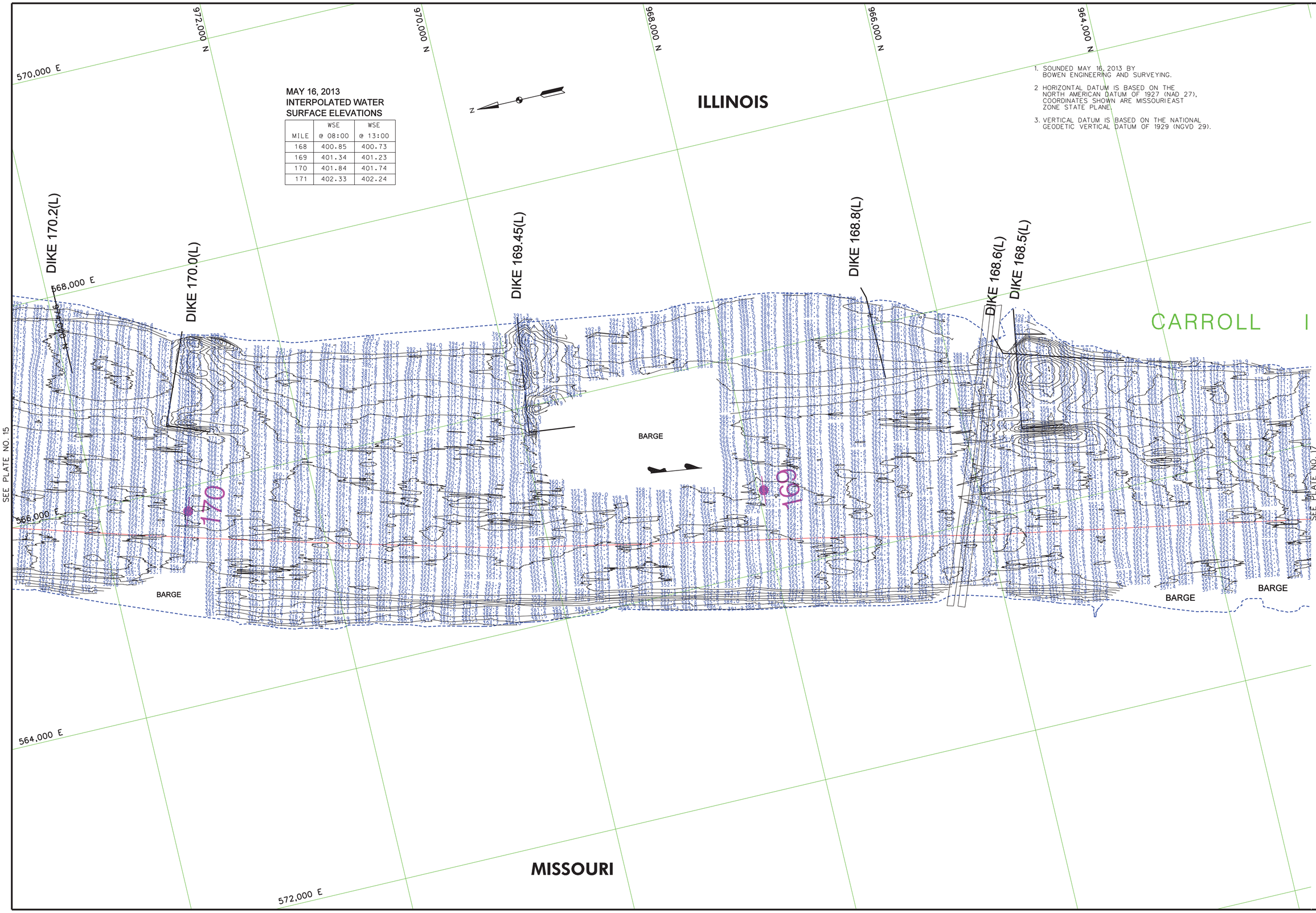
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF THE SURVEY MADE ON THE DATE(S) SHOWN AND MAY NOT BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

HYDROGRAPHIC SURVEYS

RIVER MILES 170.1 – 172.2

PLATE NUMBER

15



MAY 16, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 13:00
168	400.85	400.73
169	401.34	401.23
170	401.84	401.74
171	402.33	402.24

1. SOUNDED MAY 16, 2013 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).

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	BRICKEY'S LANDING, MO	WATER'S POINT	JEFFERSON BARRACKS	ST. LOUIS, MO
ZERO N.G.V.D.	357.78	370.39	377.69	379.94
MILE	136.0	158.5	168.7	179.6
L. W. R. P.	356.2	367.4	372.8	376.4
16 MAY 2013	27:26:8:00) 27:13:13:00)	DAMAGED - NOT USABLE	23:58:10) 23:41:12:30)	26:44:8:00) 26:65:13:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

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

Surveyed by: BOWEN ENGINEERING
Survey Date: May 16, 2013
Drawn by: X
Reviewed by: X
Ckd by: X
SUBMITTED: X
APPROVED: X
File name: ##########LEBRPCSPLANE##########
Plot date: ##########DATE/TIME##########

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

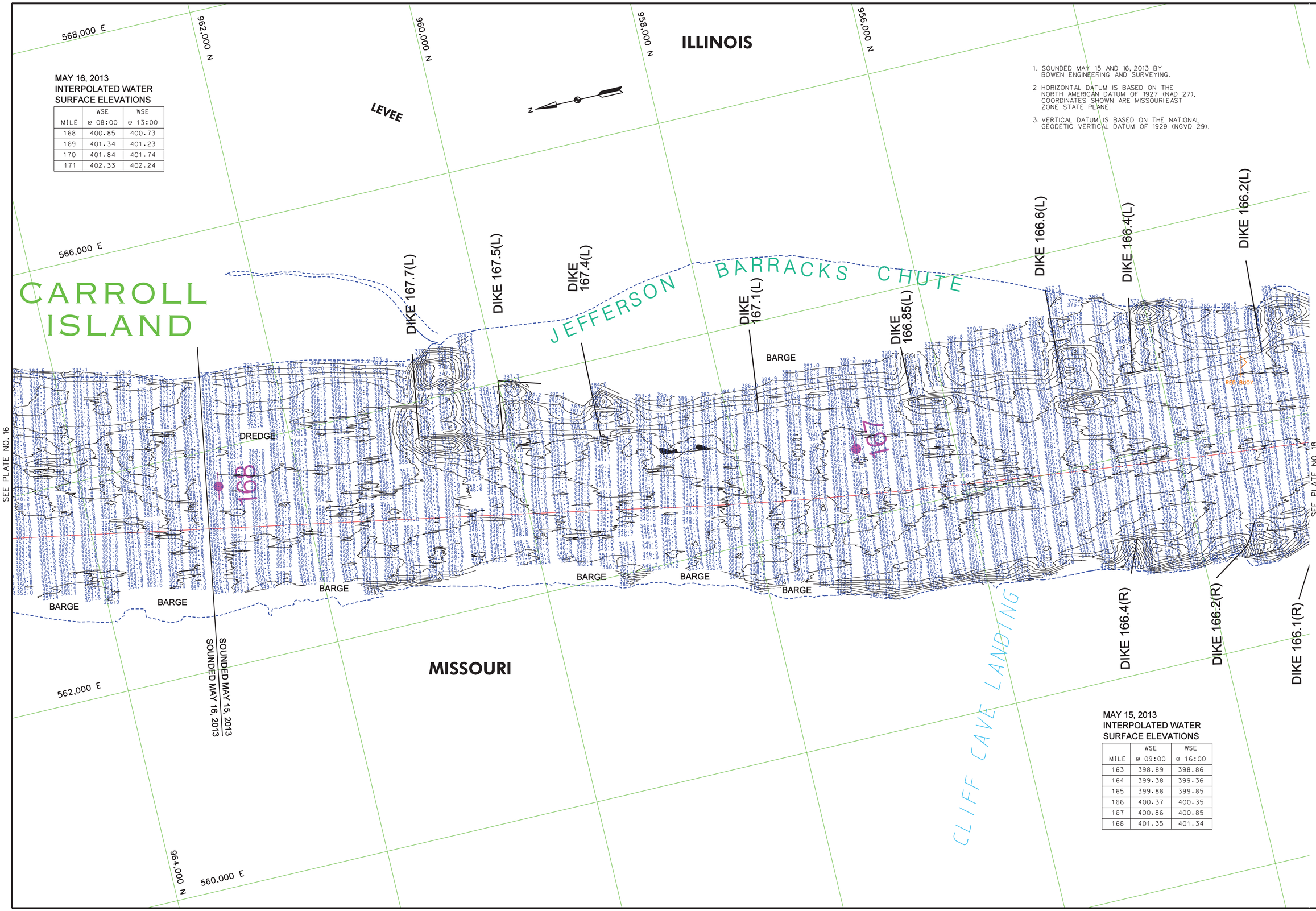
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY THE CORPS OF ENGINEERS AND IS PRESENTED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS

RIVER MILES 168.2 – 170.1

PLATE NUMBER

16



MAY 16, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 13:00
168	400.85	400.73
169	401.34	401.23
170	401.84	401.74
171	402.33	402.24

MAY 15, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 09:00	WSE @ 16:00
163	398.89	398.86
164	399.38	399.36
165	399.88	399.85
166	400.37	400.35
167	400.86	400.85
168	401.35	401.34

1. SOUNDED MAY 15 AND 16, 2013 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).

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	BRICKEY'S LANDING, MO	WATER'S POINT	JEFFERSON BARRACKS	ST. LOUIS, MO
ZERO N.G.V.D.	357.78	370.39	377.69	379.94
MILE	136.0	158.5	168.7	179.6
L. W. R. P.	356.2	367.4	372.8	376.4
15 MAY 2013	27.87(9:00) 27.67(16:00)	DAMAGED - NOT USABLE	24.08-50) 24.0(15-25)	27.14(9:00) 27.13(16:00)
16 MAY 2013	27.26(8:00) 27.13(13:00)	DAMAGED - NOT USABLE	23.58-10) 23.4(12-30)	26.64(8:00) 26.65(13:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

Surveyed by: BOWEN ENGINEERING
Drawn by: X
SUBMITTED: X
Reviewed by: X
Survey Date: May 15 and 16, 2013
Ckd by: X
APPROVED: X
File name: ##########
Plot date: ##########

120 0 120 240 METERS
400 0 400 800 FEET

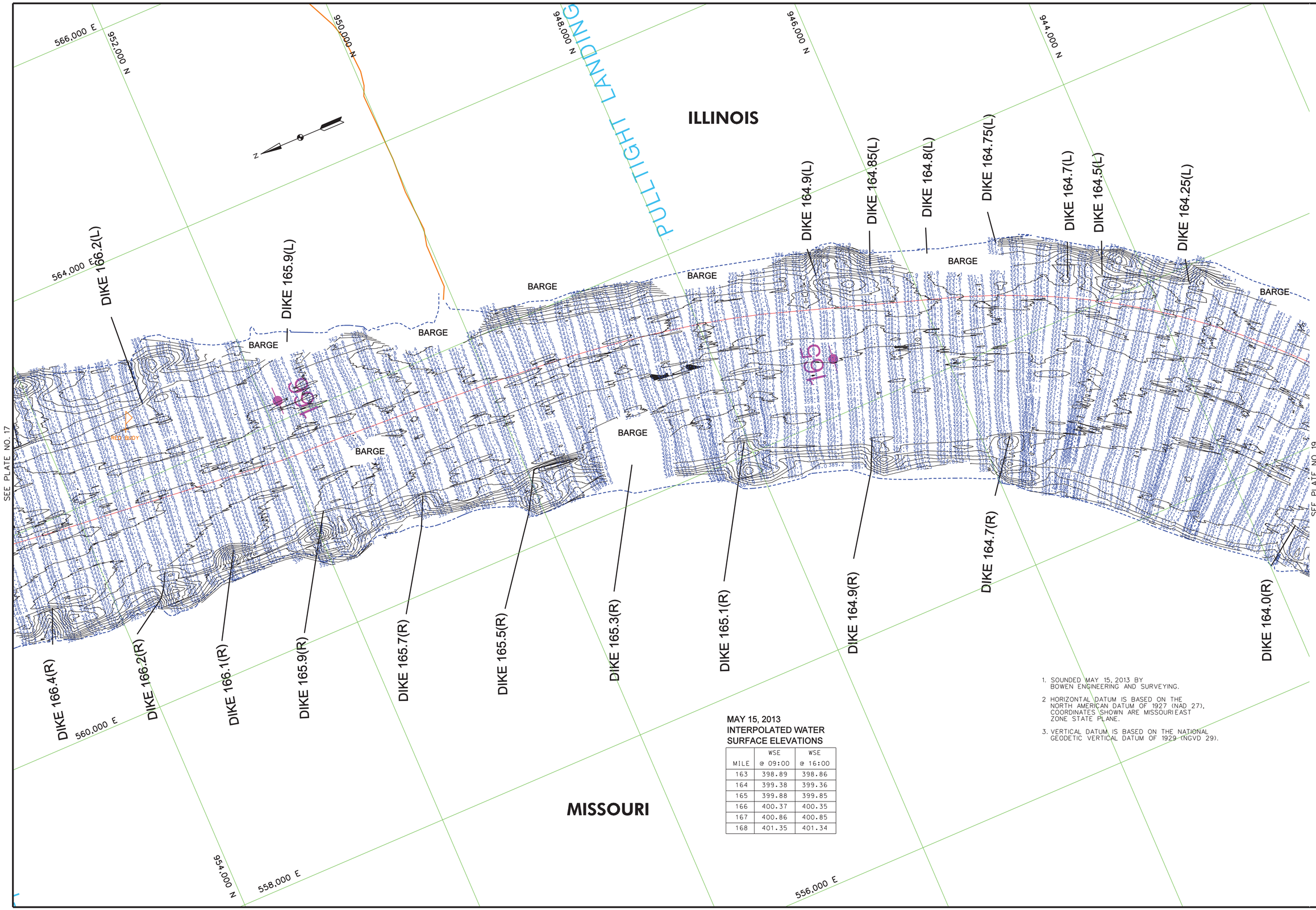
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY THE ST. LOUIS DISTRICT, CORPS OF ENGINEERS AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS

RIVER MILES 166.3 – 168.2

PLATE NUMBER

17



MAY 15, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 09:00	WSE @ 16:00
163	398.89	398.86
164	399.38	399.36
165	399.88	399.85
166	400.37	400.35
167	400.86	400.85
168	401.35	401.34

1. SOUNDED MAY 15, 2013 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).

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	BRICKEY'S LANDING, MO	WATER'S POINT	JEFFERSON BARRACKS	ST. LOUIS, MO
ZERO N.G.V.D.	357.78	370.39	377.69	379.94
MILE	136.0	158.5	168.7	179.6
L. W. R. P.	356.2	367.4	372.8	376.4
15 MAY 2013	27.87(9:00) 27.67(16:00)	DAMAGED - NOT USABLE	24.08-50) 24.01(5-25)	27.14(9:00) 27.13(16:00)

ELEVATIONS ARE REFERENCED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

Surveyed by: BOWEN ENGINEERING
Survey Date: May 15, 2013
Drawn by: X
Reviewed by: X
Ckd by: X
SUBMITTED: X
APPROVED: X
File name: ####SECONDARY\LEGEND\PRODUCTION\####
Plot date: ####DATE/TIME####

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

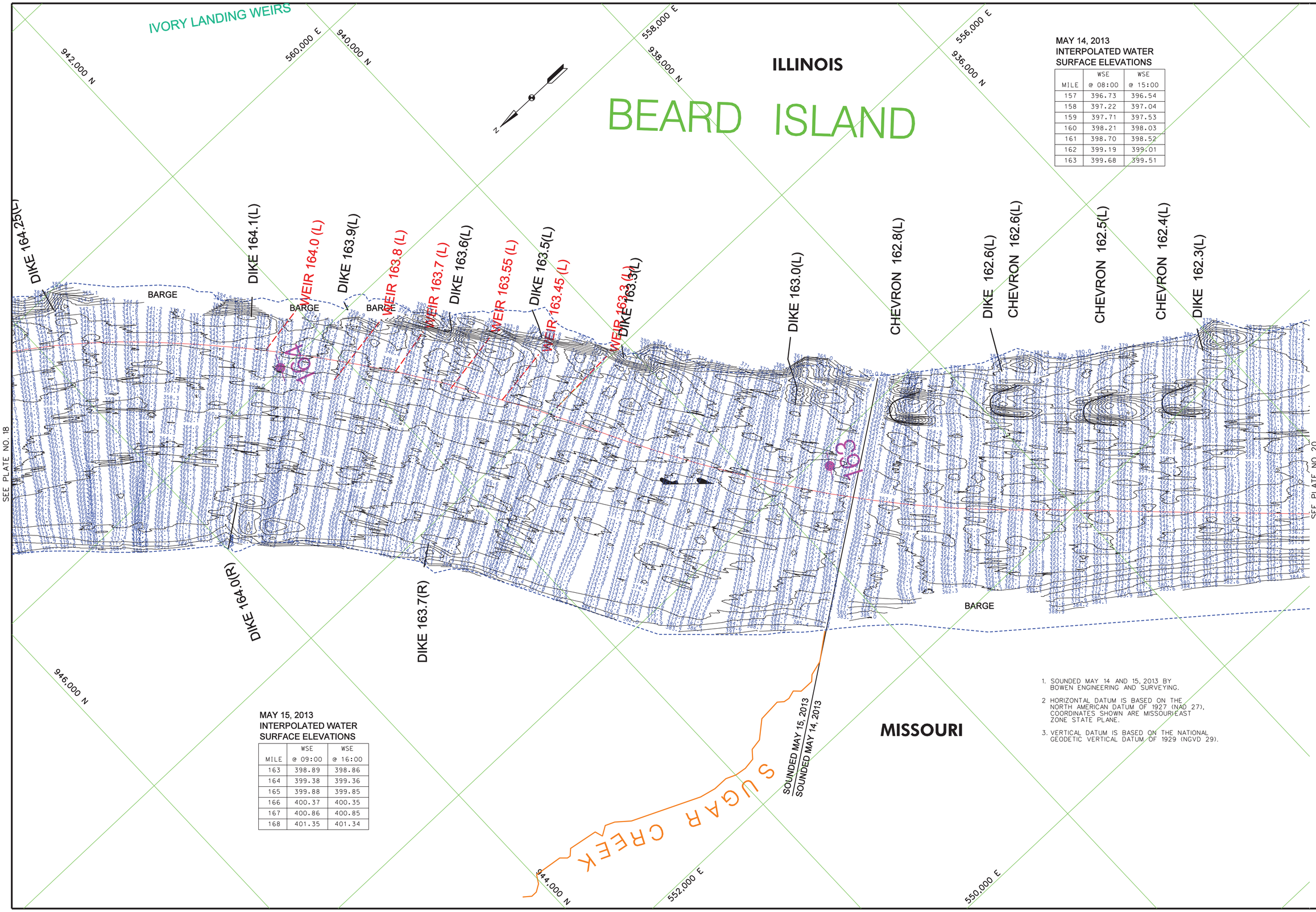
120 400 0 0 120 240 METERS
400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY THE ST. LOUIS DISTRICT, CORPS OF ENGINEERS AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS

RIVER MILES 164.3 – 166.3

PLATE NUMBER
18



MAY 14, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
157	396.73	396.54
158	397.22	397.04
159	397.71	397.53
160	398.21	398.03
161	398.70	398.52
162	399.19	399.01
163	399.68	399.51

MAY 15, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 09:00	WSE @ 16:00
163	398.89	398.86
164	399.38	399.36
165	399.88	399.85
166	400.37	400.35
167	400.86	400.85
168	401.35	401.34

1. SOUNDED MAY 14 AND 15, 2013 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).

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	BRICKEY'S LANDING, MO	WATER'S POINT	JEFFERSON BARRACKS	ST. LOUIS, MO
ZERO N.G.V.D.	357.78	370.39	377.69	379.94
MILE	136.0	158.5	168.7	179.6
L. W. R. P.	356.2	367.4	372.8	376.4
14 MAY 2013	28.64(8:00) 28.39(15:00)	(MAAGC) - NOT USABLE	NOT READABLE	27.89(8:00) 27.77(15:00)
15 MAY 2013	27.87(9:00) 27.67(16:00)	(MAAGC) - NOT USABLE	24.08-50) 24.0(15-25)	27.14(9:00) 27.13(16:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1954-57 LOW WATER REFERENCE PLANE. (L.W.R.P.) (54,000 C.F.S.)

Survey Date: May 14 and 15, 2013
Surveyed by: BOWEN ENGINEERING
Drawn by: X
Reviewed by: X
Ckd by: X
SUBMITTED: X
APPROVED: X
File name: ##########FILESPECIFICATION##########
Plot date: ##########DATE/TIME##########

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

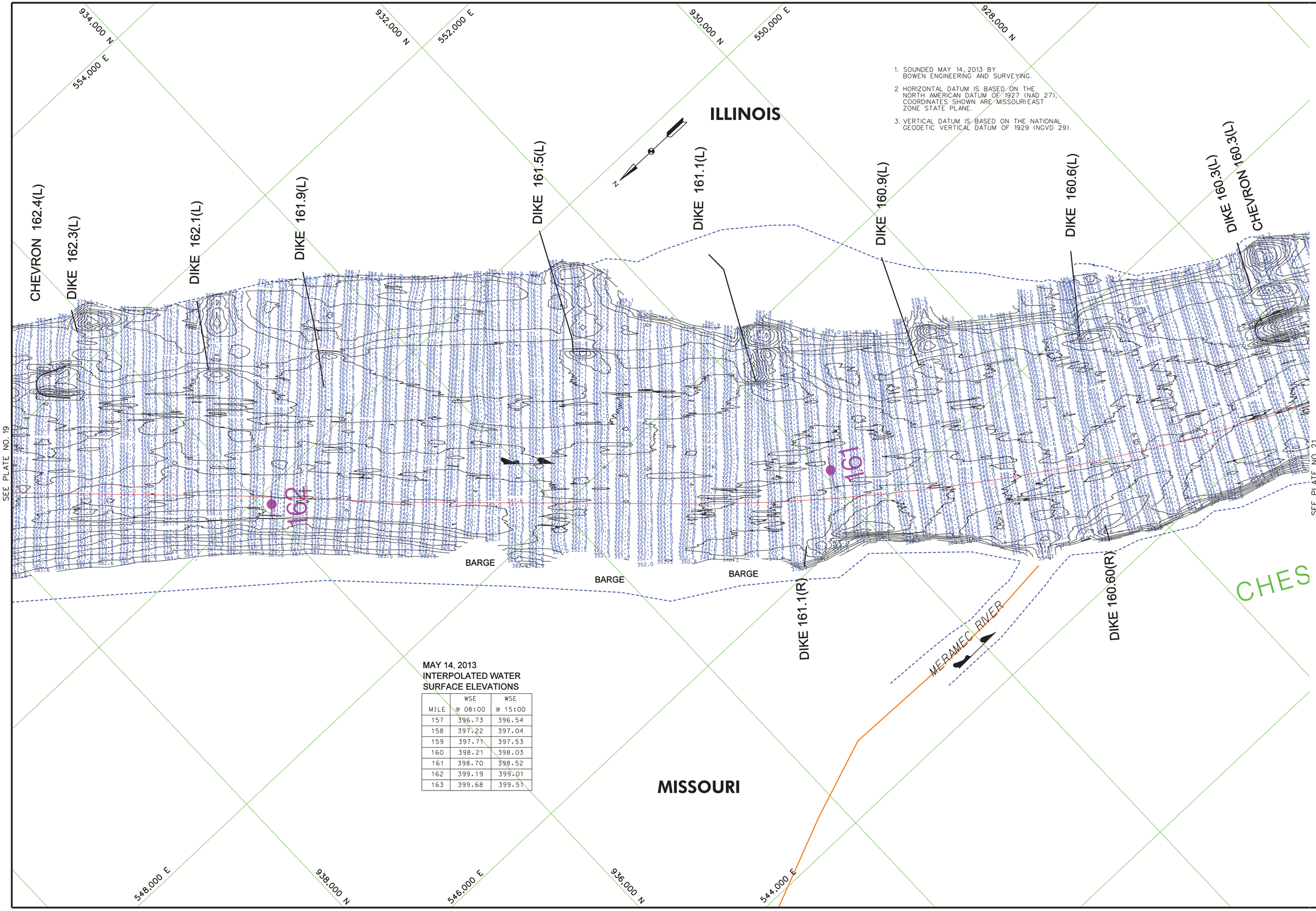
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE TIMES INDICATED AND MAY NOT BE CORRECT AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

120 400 0 0 120 240 METERS
400 800 FEET

HYDROGRAPHIC SURVEYS

RIVER MILES 162.3 – 164.3

PLATE NUMBER
19



1. SOUNDED MAY 14, 2013 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).

MAY 14, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
157	396.73	396.54
158	397.22	397.04
159	397.71	397.53
160	398.21	398.03
161	398.70	398.52
162	399.19	399.01
163	399.68	399.51

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	BRICKEY'S LANDING, MO	WATER'S POINT	JEFFERSON BARRACKS	ST. LOUIS, MO
ZERO N.G.V.D.	357.78	370.39	377.69	379.94
MILE	136.0	158.5	168.7	179.6
L. W. R. P.	356.2	367.4	372.8	376.4
14 MAY 2013	28.64ft:001 28.39ft:001	DAMAGED - NOT USABLE	NOT READABLE	22.89ft:001 27.77ft:001

ELEVATIONS ARE REFERENCED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

Survey Date: May 14, 2013
Surveyed by: BOWEN ENGINEERING
Drawn by: X
Reviewed by: X
Ckd by: X
SUBMITTED: X
APPROVED: X
File name: ##########
Plot date: ##########

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE TIME INDICATED AND MAY NOT BE CORRECT AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS

RIVER MILES 160.3 – 162.3

PLATE NUMBER

20

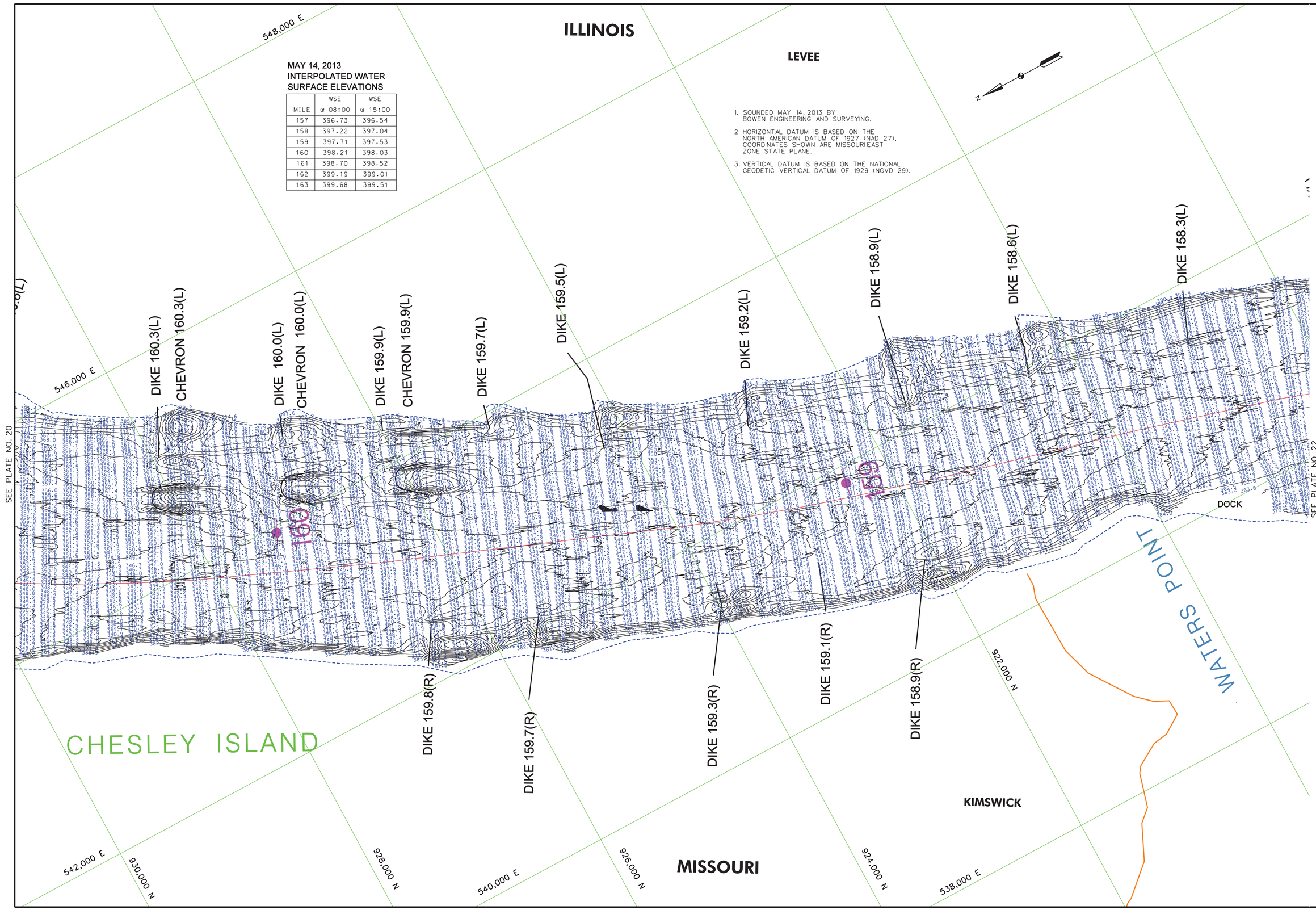
ILLINOIS

LEVEE

MAY 14, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
157	396.73	396.54
158	397.22	397.04
159	397.71	397.53
160	398.21	398.03
161	398.70	398.52
162	399.19	399.01
163	399.68	399.51

1. SOUNDED MAY 14, 2013 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27), COORDINATES SHOWN ARE MISSOURIEAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



US Army Corps of Engineers
St. Louis District

GAGE RECORD			
	BRICKEY'S LANDING, MO	WATER'S POINT	JEFFERSON BARRACKS ST. LOUIS, MO
ZERO N.G.V.D.	357.78	370.39	377.69 379.94
MILE	136.0	158.5	168.7 179.6
L. W. R. P.	356.2	367.4	372.8 376.4
14 MAY 2013	28.648-001 28.3915-001	DAMAGED - NOT USABLE	NOT READABLE 22.8968-001 27.7715-001

ELEVATIONS ARE REFERED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

Surveyed by: BOWEN ENGINEERING
Survey Date: May 14, 2013
Drawn by: X
Reviewed by: X
Ckd by: X
SUBMITTED: X
APPROVED: X
File name: ##########FILEDESCRIPTION##########
Plot date: ##########DATE/TIME##########

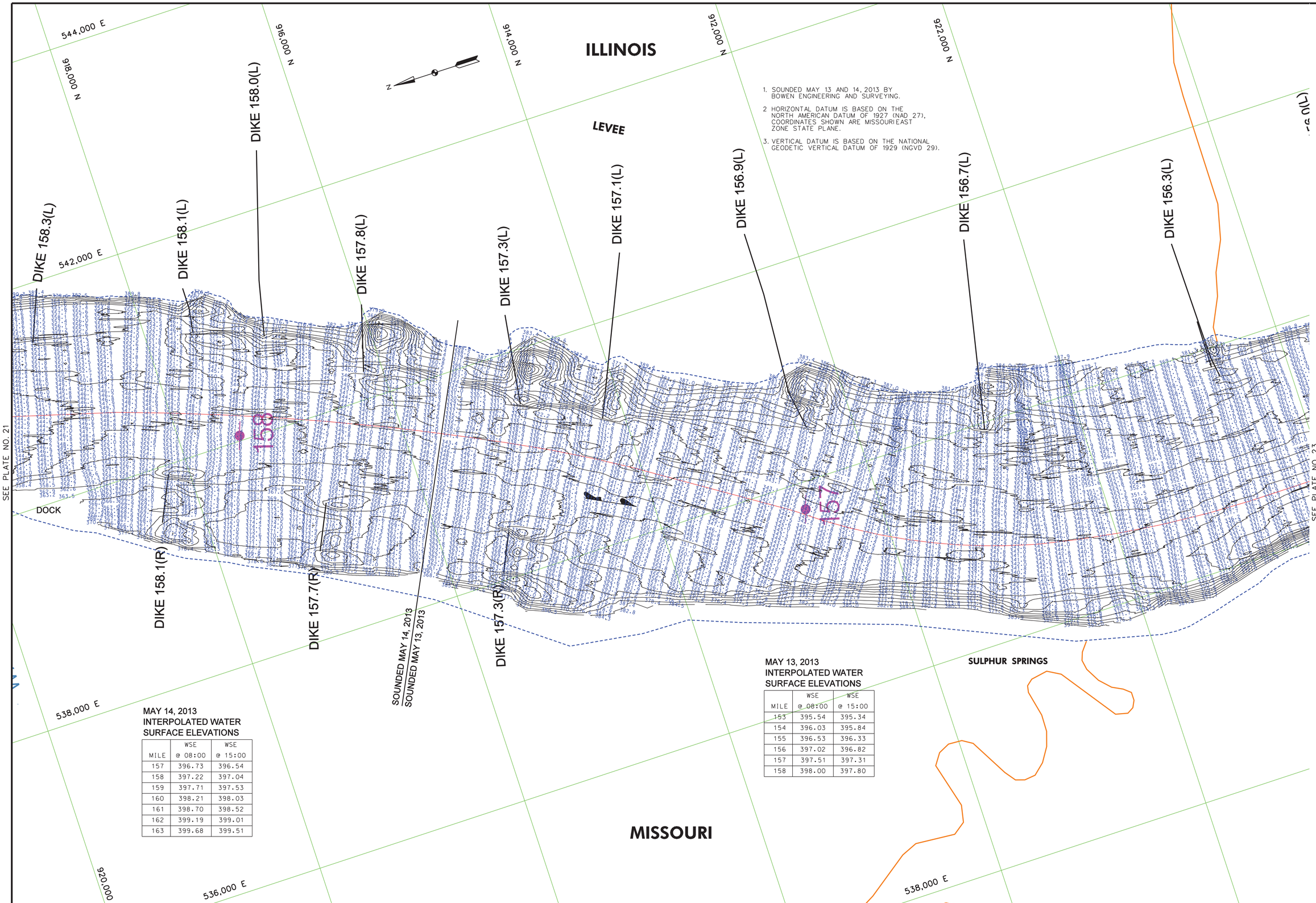
120 0 120 240 METERS
400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED. THE DATA SHOWN MAY NOT BE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

HYDROGRAPHIC SURVEYS

RIVER MILES 158.3 – 160.3

PLATE NUMBER
21



1. SOUNDED MAY 13 AND 14, 2013 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).

MAY 14, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
157	396.73	396.54
158	397.22	397.04
159	397.71	397.53
160	398.21	398.03
161	398.70	398.52
162	399.19	399.01
163	399.68	399.51

MAY 13, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
153	395.54	395.34
154	396.03	395.84
155	396.53	396.33
156	397.02	396.82
157	397.51	397.31
158	398.00	397.80

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	BRICKEY'S LANDING, MO	SELMA, MO	WATER'S POINT	ST. LOUIS, MO
ZERO N.G.V.D.	357.78	0.00	370.39	379.94
MILE	136.0	145.8	158.5	179.6
L. W. R. P.	356.2	361.0	367.4	376.4
13 MAY 2013	29.398(00) 29.201(5.00)	DAMAGED - NOT USABLE	DAMAGED - NOT USABLE	28.708(00) 28.491(5.00)
14 MAY 2013	28.448(00) 28.391(5.00)	DAMAGED - NOT USABLE	DAMAGED - NOT USABLE	27.898(00) 27.771(5.00)

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1954-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (54.000 C.F.S.)

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

Surveyed by: BOWEN ENGINEERING
Survey Date: May 13 and 14, 2013
Drawn by: X
Reviewed by: X
Ckd by: X
SUBMITTED: X
APPROVED: X
File name: ##DESIGN#FILESPECIFICATION###
Plot date: ##### DATE/TIME #####

120 0 120 240 METERS
400 0 400 800 FEET

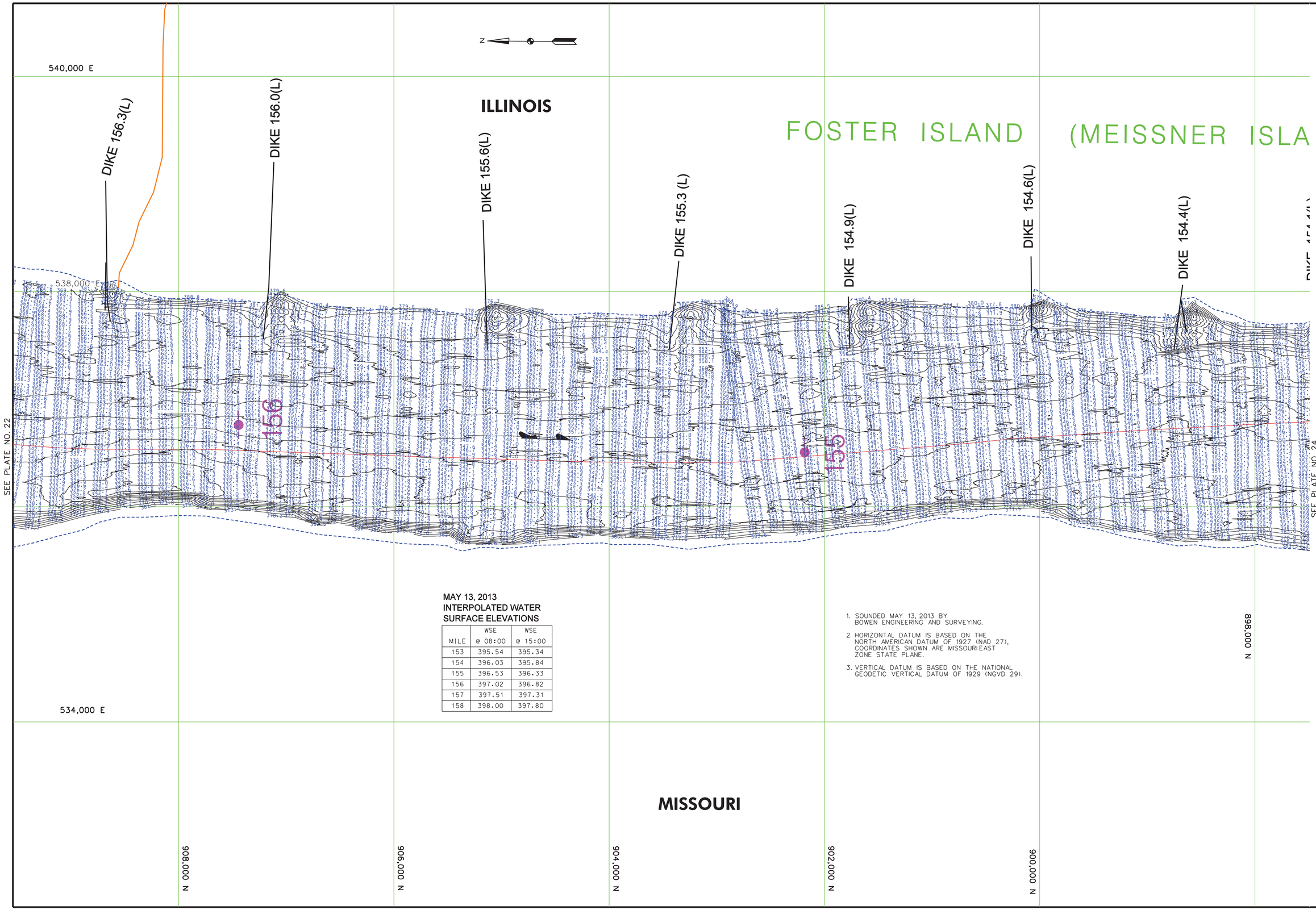
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN AND IS CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS

MILES 156.2 – 158.3

PLATE NUMBER

22



MAY 13, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
153	395.54	395.34
154	396.03	395.84
155	396.53	396.33
156	397.02	396.82
157	397.51	397.31
158	398.00	397.80

1. SOUNDED MAY 13, 2013 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).

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	BRICKEY'S LANDING, MO	SELMA, MO	WATER'S POINT	ST. LOUIS, MO
ZERO N.G.V.D.	357.78	0.00	370.39	379.94
MILE	136.0	145.8	158.5	179.6
L. W. R. P.	356.2	361.0	367.4	376.4
13 MAY 2013	29.39:8:00	29.20:15:00	DAMAGED - NOT USABLE	DAMAGED - NOT USABLE 28.70:8:00 28.49:15:00

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE. G.W.P.P.: 154,000 C.F.S.

Surveyed by: BOWEN ENGINEERING
Survey Date: May 13, 2013
Drawn by: X
Reviewed by: X
Ckd by: X
SUBMITTED: X
APPROVED: X
Plot date: ####DATE:TIME####
File name: ####DRAWINGFILENAME#### SPECIFICATION####

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

120 400 0 0 120 240 METERS
400 800 FEET

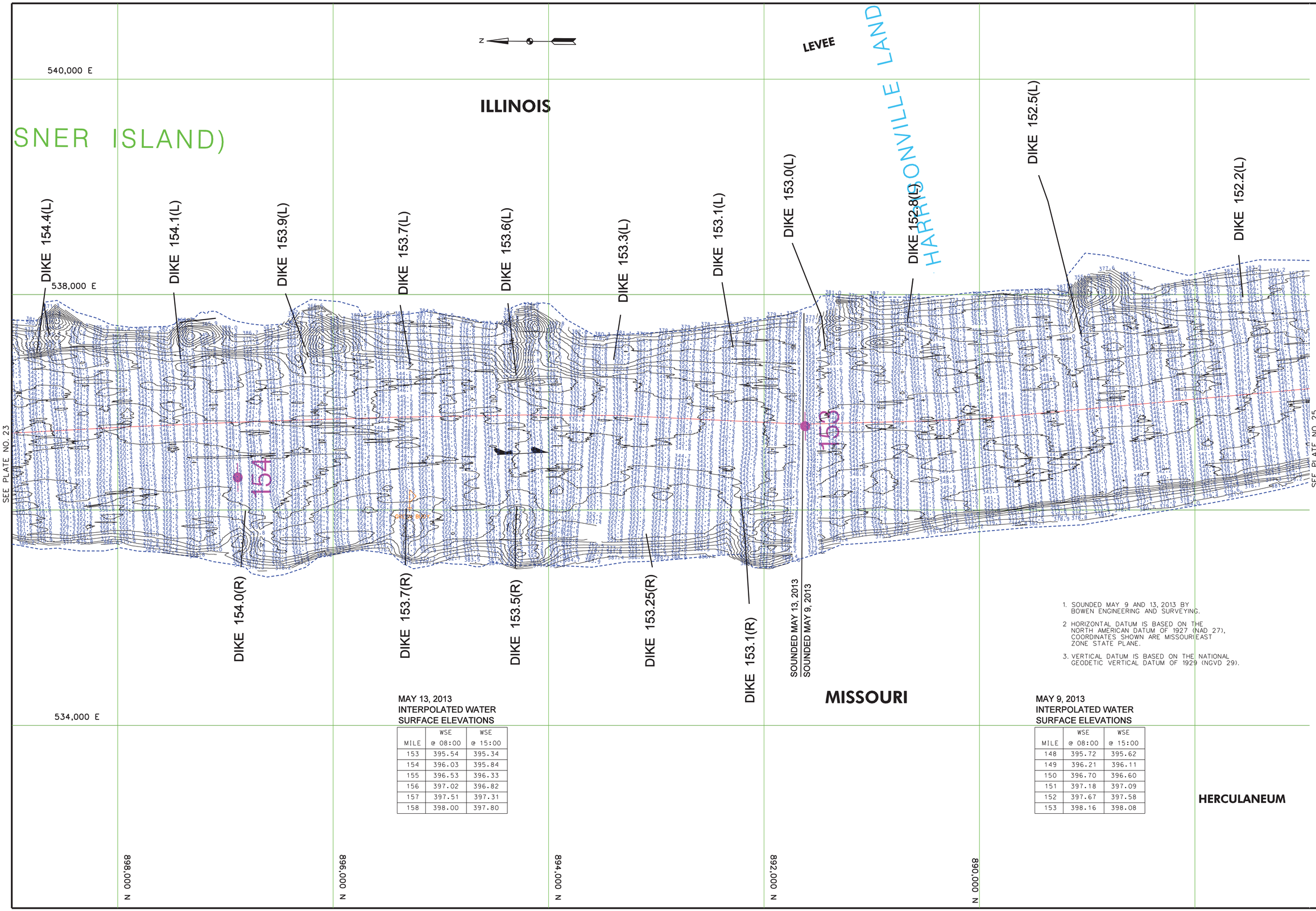
THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE SHOWN AND IS INTENDED ONLY TO SHOW THE GENERAL CONDITIONS EXISTING AT THAT TIME.

HYDROGRAPHIC SURVEYS

MILES 154.3 – 156.2

PLATE NUMBER

23



MAY 13, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
153	395.54	395.34
154	396.03	395.84
155	396.53	396.33
156	397.02	396.82
157	397.51	397.31
158	398.00	397.80

MAY 9, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
148	395.72	395.62
149	396.21	396.11
150	396.70	396.60
151	397.18	397.09
152	397.67	397.58
153	398.16	398.08

1. SOUNDED MAY 9 AND 13, 2013 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).

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	BRICKEY'S LANDING, MO	SELMA, MO	WATER'S POINT	ST. LOUIS, MO
ZERO N.G.V.D.	357.78	0.00	370.39	379.94
MILE	136.0	145.8	158.5	179.6
L.W.R.P.	356.2	361.0	367.4	376.4
09 MAY 2013	32.078(00) 33.941S(00)	DAMAGED - NOT USABLE	DAMAGED - NOT USABLE	31.23S(00) 31.21S(00)
13 MAY 2013	29.39S(00) 29.20(15.00)	DAMAGED - NOT USABLE	DAMAGED - NOT USABLE	28.70S(00) 28.49(15.00)

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE. G.W.P.: 154,000 C.F.S.

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

Surveyed by: BOWEN ENGINEERING
Survey Date: May 9 and 13, 2013
Drawn by: X
Reviewed by: X
Ckd by: X
SUBMITTED: X
APPROVED: X
File name: ###########################
Plot date: ##########

240 METERS 0 120
800 FEET 0 400

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED. THE SURVEYS WERE MADE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

HYDROGRAPHIC SURVEYS

RIVER MILES 152.2 – 154.4

PLATE NUMBER
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