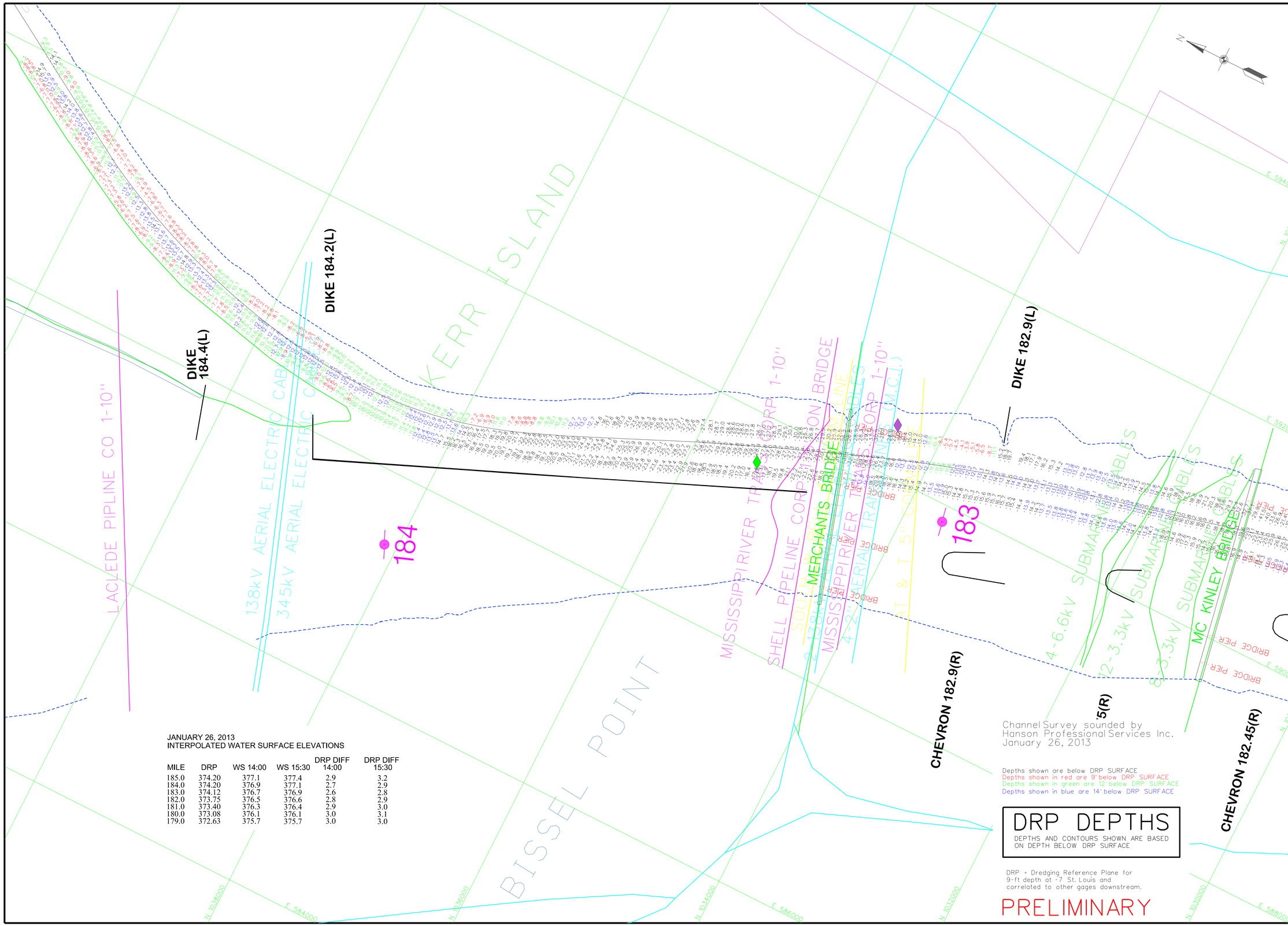
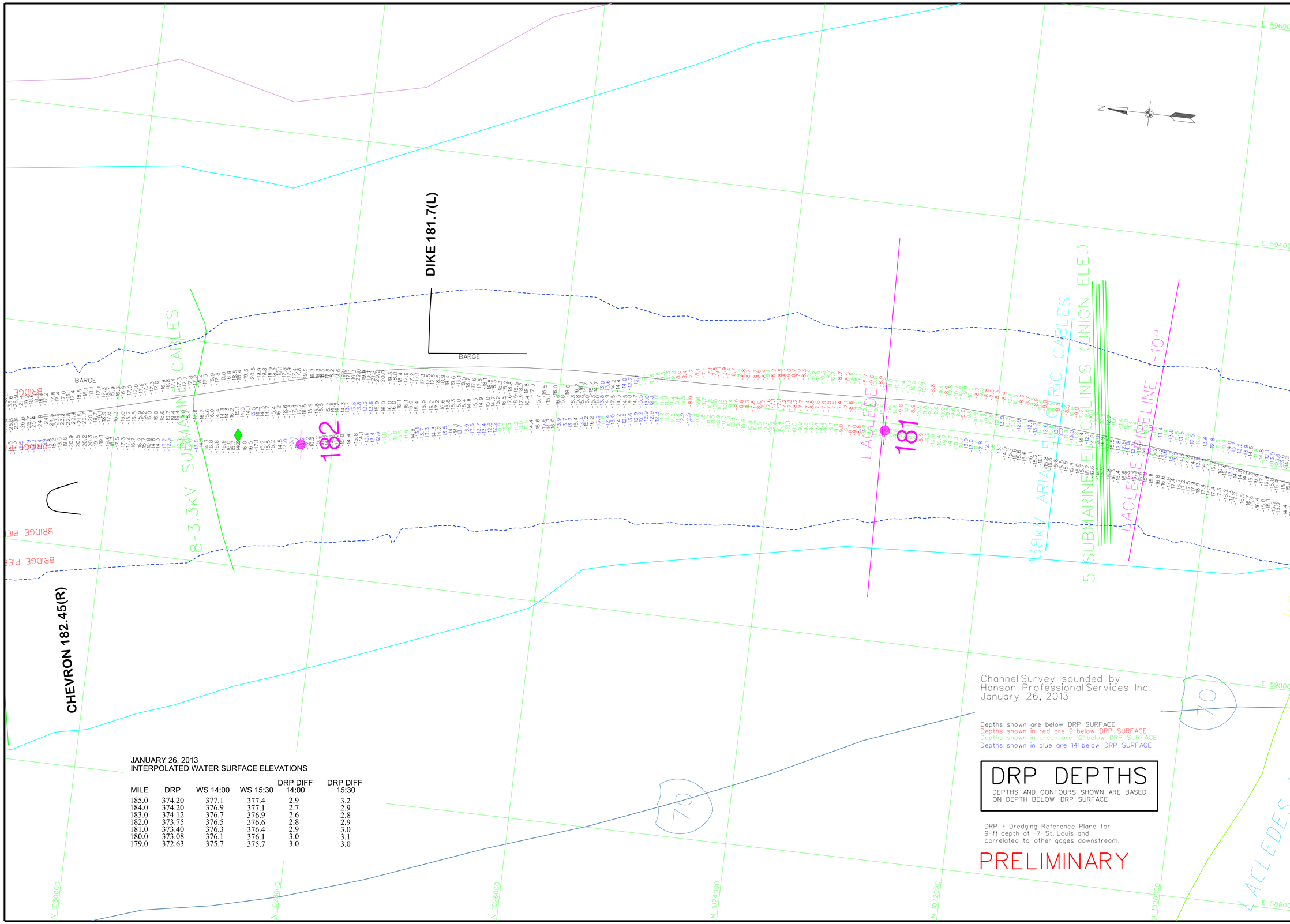


JANUARY 26, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	DRP	WS 14:00	WS 15:30	DRP DIFF 14:00	DRP DIFF 15:30
185.0	374.20	377.1	377.4	2.9	3.2
184.0	374.20	376.9	377.1	2.7	2.9
183.0	374.12	376.7	376.9	2.6	2.8
182.0	373.75	376.5	376.6	2.8	2.9
181.0	373.40	376.3	376.4	2.9	3.0
180.0	373.08	376.1	376.1	3.0	3.1
179.0	372.63	375.7	375.7	3.0	3.0



JANUARY 26, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	DRP	WS 14:00	WS 15:30	DRP DIFF 14:00	DRP DIFF 15:30
185.0	374.20	377.1	377.4	2.9	3.2
184.0	374.20	376.9	377.1	2.7	2.9
183.0	374.12	376.7	376.9	2.6	2.8
182.0	373.75	376.5	376.6	2.8	2.9
181.0	373.40	376.3	376.4	2.9	3.0
180.0	373.08	376.1	376.1	3.0	3.1
179.0	372.63	375.7	375.7	3.0	3.0

Channel Survey sounded by
Hanson Professional Services Inc.
January 26, 2013

Depths shown are below DRP SURFACE
Depths shown in red are 9' below DRP SURFACE
Depths shown in green are 12' below DRP SURFACE
Depths shown in blue are 14' below DRP SURFACE

DRP DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW DRP SURFACE

DRP = Dredging Reference Plane for 9-ft depth at -7 St. Louis and correlated to other gages downstream.

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	L & D 27 LOWER	BISSELL'S POINT	ST. LOUIS
ZERO N.G.V.D.		350.00	NA	379.94
MILE		185.1	183.4	179.6
L. W. R. P.		380.5	379.23	376.4
	26 JAN 2013	377.1 (14:00)		376.0 (14:00)
		377.4 (15:30)		376.0 (15:30)

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.)

Survey Date: January 26, 2013
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 185_158A2613_drp.dgn
Plot date: January 28, 2013
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

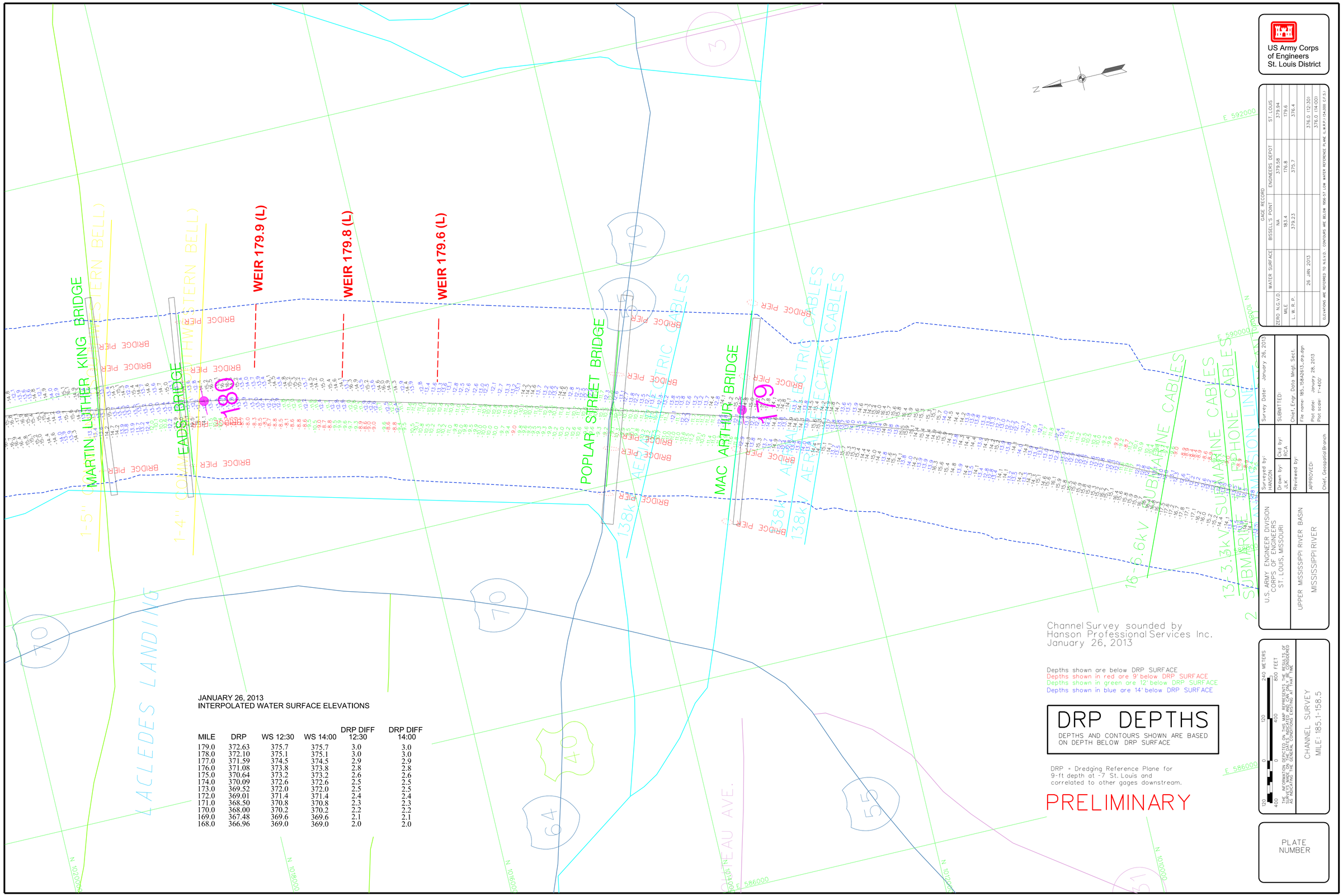
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

CHANNEL SURVEY
MILE: 185.1-158.5

PLATE NUMBER



JANUARY 26, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	DRP	WS 12:30	WS 14:00	DRP DIFF 12:30	DRP DIFF 14:00
179.0	372.63	375.7	375.7	3.0	3.0
178.0	372.10	375.1	375.1	3.0	3.0
177.0	371.59	374.5	374.5	2.9	2.9
176.0	371.08	373.8	373.8	2.8	2.8
175.0	370.64	373.2	373.2	2.6	2.6
174.0	370.09	372.6	372.6	2.5	2.5
173.0	369.52	372.0	372.0	2.5	2.5
172.0	369.01	371.4	371.4	2.4	2.4
171.0	368.50	370.8	370.8	2.3	2.3
170.0	368.00	370.2	370.2	2.2	2.2
169.0	367.48	369.6	369.6	2.1	2.1
168.0	366.96	369.0	369.0	2.0	2.0

Channel Survey sounded by
Hanson Professional Services Inc.
January 26, 2013

Depths shown are below DRP SURFACE
Depths shown in red are 9' below DRP SURFACE
Depths shown in green are 12' below DRP SURFACE
Depths shown in blue are 14' below DRP SURFACE

DRP DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW DRP SURFACE

DRP = Dredging Reference Plane for 9-ft depth at -7 St. Louis and correlated to other gages downstream.

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	BISSELL'S POINT	ENGINEERS DEPOT	ST. LOUIS
ZERO N.G.V.D.		NA	379.58	379.94
MILE		183.4	176.8	179.6
L. W. R. P.		379.23	375.7	376.4
	26 JAN 2013			376.0 (12:30)
				376.0 (14:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (34,000 C.F.S.)

Surveyed by: HANSON
Drawn by: JLK
Ckd by: RCA
Reviewed by:
APPROVED: Chief, Geospatial Branch

Survey Date: January 26, 2013
SUBMITTED: Chief, Engr. Data Mngt. Sect.
File name: 185_1584263_drp.dgn
Plot date: January 28, 2013
Plot scale: 1"=400'

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

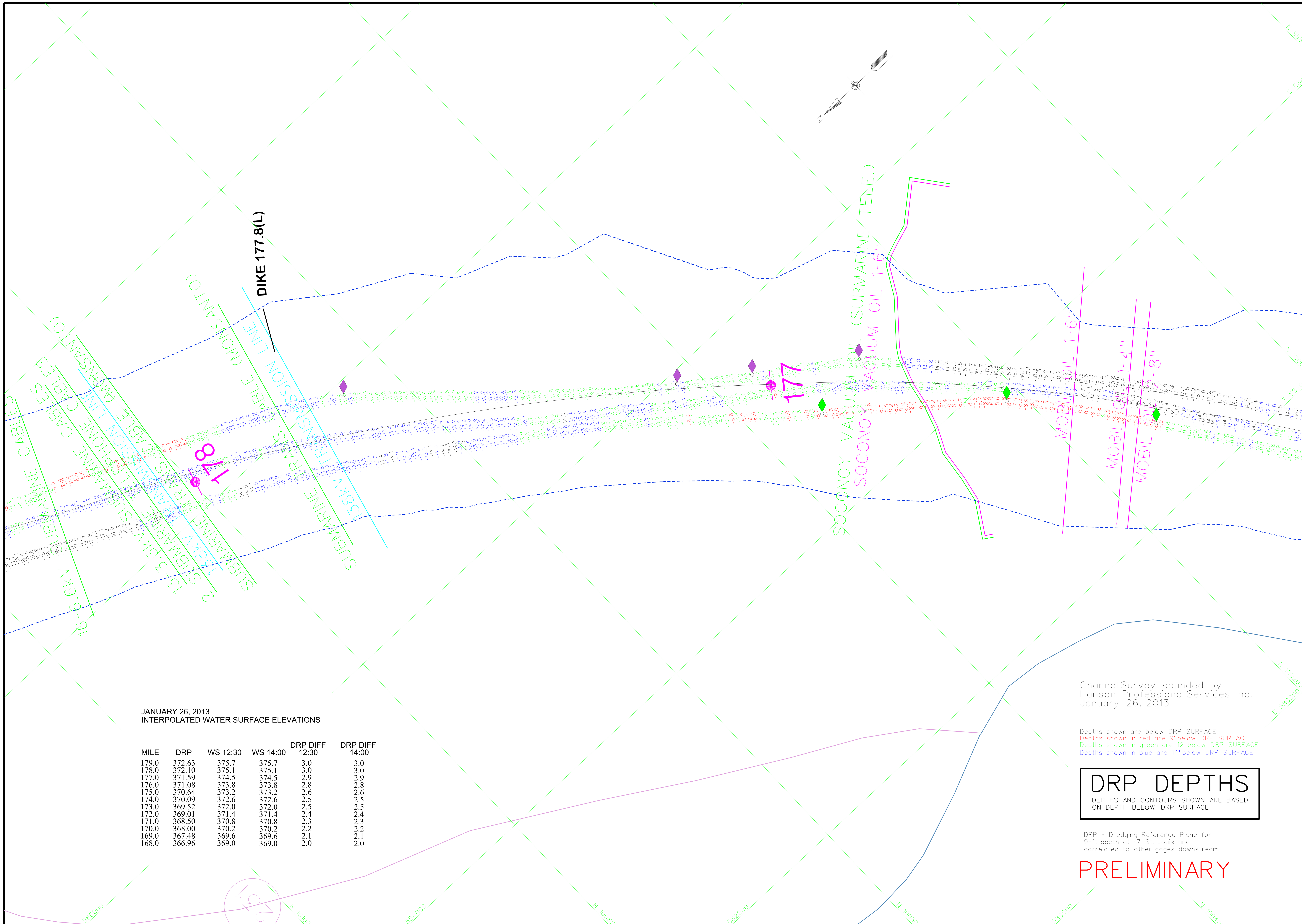
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 400 0 0 120 400 240 METERS 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE BOTTOM SURFACE OF THE MISSISSIPPI RIVER AT THE TIME OF SURVEY AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 185.1-158.5

PLATE NUMBER



JANUARY 26, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	DRP	WS 12:30	WS 14:00	DRP DIFF 12:30	DRP DIFF 14:00
179.0	372.63	375.7	375.7	3.0	3.0
178.0	372.10	375.1	375.1	3.0	3.0
177.0	371.59	374.5	374.5	2.9	2.9
176.0	371.08	373.8	373.8	2.8	2.8
175.0	370.64	373.2	373.2	2.6	2.6
174.0	370.09	372.6	372.6	2.5	2.5
173.0	369.52	372.0	372.0	2.5	2.5
172.0	369.01	371.4	371.4	2.4	2.4
171.0	368.50	370.8	370.8	2.3	2.3
170.0	368.00	370.2	370.2	2.2	2.2
169.0	367.48	369.6	369.6	2.1	2.1
168.0	366.96	369.0	369.0	2.0	2.0

Channel Survey sounded by
Hanson Professional Services Inc.
January 26, 2013

Depths shown are below DRP SURFACE
Depths shown in red are 9' below DRP SURFACE
Depths shown in green are 12' below DRP SURFACE
Depths shown in blue are 14' below DRP SURFACE

DRP DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW DRP SURFACE

DRP = Dredging Reference Plane for 9-ft depth at -7 St. Louis and correlated to other gages downstream.

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	ENGINEERS DEPOT	JEFFERSON BARRACKS	ST. LOUIS
ZERO N.G.V.D.	379.58	377.69	379.94
MILE	176.8	168.7	179.6
L. W. R. P.	375.7	372.8	376.4
WATER SURFACE 26 JAN 2013		369.4 (12:30) 369.4 (14:00)	376.0 (12:30) 376.0 (14:00)

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.)

Survey Date: January 26, 2013
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 185_158A2613_drp.dgn
Plot date: January 28, 2013
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

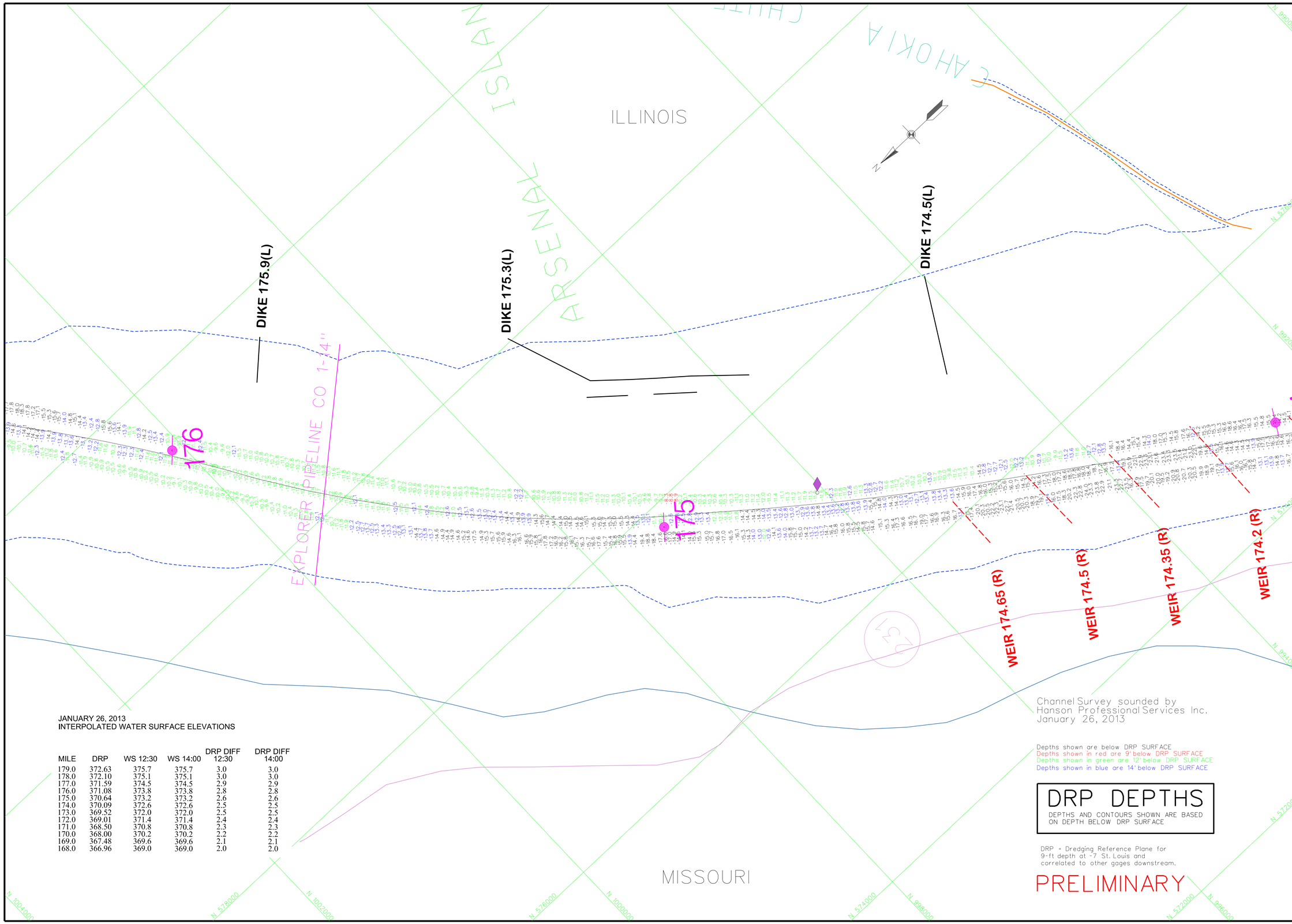
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS 120 0 120
800 FEET 400 0 400

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

CHANNEL SURVEY
MILE: 185.1-158.5

PLATE NUMBER



JANUARY 26, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	DRP	WS 12:30	WS 14:00	DRP DIFF 12:30	DRP DIFF 14:00
179.0	372.63	375.7	375.7	3.0	3.0
178.0	372.10	375.1	375.1	3.0	3.0
177.0	371.59	374.5	374.5	2.9	2.9
176.0	371.08	373.8	373.8	2.8	2.8
175.0	370.64	373.2	373.2	2.6	2.6
174.0	370.09	372.6	372.6	2.5	2.5
173.0	369.52	372.0	372.0	2.5	2.5
172.0	369.01	371.4	371.4	2.4	2.4
171.0	368.50	370.8	370.8	2.3	2.3
170.0	368.00	370.2	370.2	2.2	2.2
169.0	367.48	369.6	369.6	2.1	2.1
168.0	366.96	369.0	369.0	2.0	2.0

Channel Survey sounded by
Hanson Professional Services Inc.
January 26, 2013

Depths shown are below DRP SURFACE
Depths shown in red are 9' below DRP SURFACE
Depths shown in green are 12' below DRP SURFACE
Depths shown in blue are 14' below DRP SURFACE

DRP DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW DRP SURFACE

DRP = Dredging Reference Plane for 9-ft depth at -7 St. Louis and correlated to other gages downstream.

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	ENGINEER'S DEPOT	JEFFERSON BARRACKS	ST. LOUIS
ZERO N.G.V.D.		379.58	377.69	379.94
MILE		176.8	168.7	179.6
L. W. R. P.		375.7	372.8	376.4
	26 JAN 2013		369.4 (12:30)	376.0 (12:30)
			369.4 (14:00)	376.0 (14:00)

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.)

Surveyed by: HANSON
Survey Date: January 26, 2013
Drawn by: JLK
Ckd by: RCA
Reviewed by:
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 185_1584263_drp.dgn
Plot date: January 28, 2013
Plot scale: 1"=400'
APPROVED:
Chief, Geospatial Branch

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

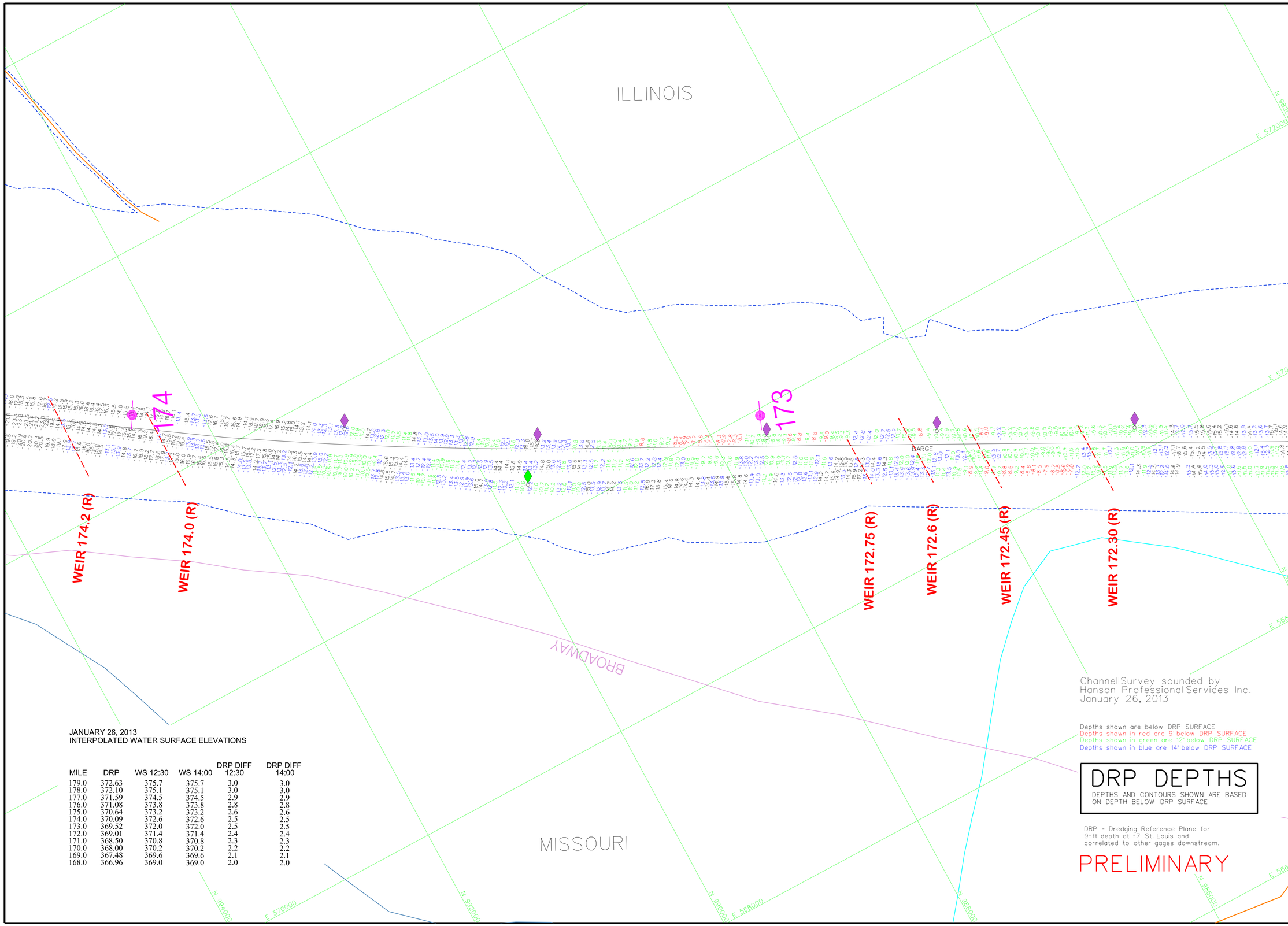
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 400 0 0 120 400 240 METERS 800 FEET

THE INFORMATION REPORTED 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.

CHANNEL SURVEY
MILE: 185.1-158.5

PLATE NUMBER



JANUARY 26, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	DRP	WS 12:30	WS 14:00	DRP DIFF 12:30	DRP DIFF 14:00
179.0	372.63	375.7	375.7	3.0	3.0
178.0	372.10	375.1	375.1	3.0	3.0
177.0	371.59	374.5	374.5	2.9	2.9
176.0	371.08	373.8	373.8	2.8	2.8
175.0	370.64	373.2	373.2	2.6	2.6
174.0	370.09	372.6	372.6	2.5	2.5
173.0	369.52	372.0	372.0	2.5	2.5
172.0	369.01	371.4	371.4	2.4	2.4
171.0	368.50	370.8	370.8	2.3	2.3
170.0	368.00	370.2	370.2	2.2	2.2
169.0	367.48	369.6	369.6	2.1	2.1
168.0	366.96	369.0	369.0	2.0	2.0

Channel Survey sounded by
Hanson Professional Services Inc.
January 26, 2013

Depths shown are below DRP SURFACE
Depths shown in red are 9' below DRP SURFACE
Depths shown in green are 12' below DRP SURFACE
Depths shown in blue are 14' below DRP SURFACE

DRP DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW DRP SURFACE

DRP = Dredging Reference Plane for 9-ft depth at -7 St. Louis and correlated to other gages downstream.

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	ENGINEER'S DEPOT	JEFFERSON BARRACKS	ST. LOUIS
ZERO N.G.V.D.		379.58	377.69	379.94
MILE		176.8	168.7	179.6
L. W. R. P.		375.7	372.8	376.4
	26 JAN 2013		369.4 (12:30)	376.0 (12:30)
			369.4 (14:00)	376.0 (14:00)

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

Survey Date: January 26, 2013
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 185_158A2613_drp.dgn
Plot date: January 28, 2013
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

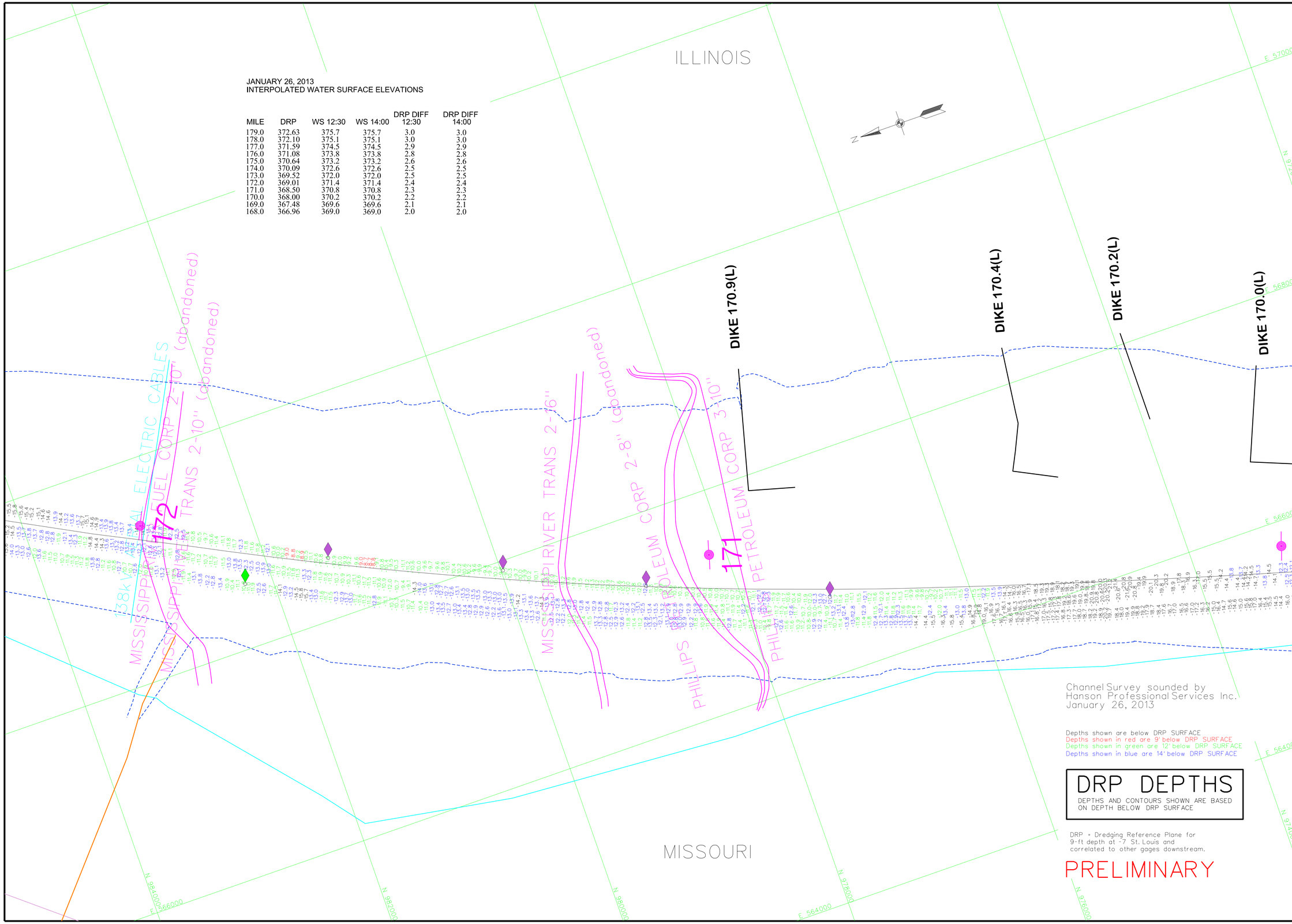
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

CHANNEL SURVEY
MILE: 185.1-158.5

PLATE NUMBER

JANUARY 26, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	DRP	WS 12:30	WS 14:00	DRP DIFF 12:30	DRP DIFF 14:00
179.0	372.63	375.7	375.7	3.0	3.0
178.0	372.10	375.1	375.1	3.0	3.0
177.0	371.59	374.5	374.5	2.9	2.9
176.0	371.08	373.8	373.8	2.8	2.8
175.0	370.64	373.2	373.2	2.6	2.6
174.0	370.09	372.6	372.6	2.5	2.5
173.0	369.52	372.0	372.0	2.5	2.5
172.0	369.01	371.4	371.4	2.4	2.4
171.0	368.50	370.8	370.8	2.3	2.3
170.0	368.00	370.2	370.2	2.2	2.2
169.0	367.48	369.6	369.6	2.1	2.1
168.0	366.96	369.0	369.0	2.0	2.0



Channel Survey sounded by
Hanson Professional Services Inc.
January 26, 2013

Depths shown are below DRP SURFACE
Depths shown in red are 9' below DRP SURFACE
Depths shown in green are 12' below DRP SURFACE
Depths shown in blue are 14' below DRP SURFACE

DRP DEPTHS

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW DRP SURFACE

DRP = Dredging Reference Plane for 9-ft depth at -7 St. Louis and correlated to other gages downstream.

PRELIMINARY

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	ENGINEER'S DEPOT	JEFFERSON BARRACKS	ST. LOUIS
ZERO N.G.V.D.		379.58	377.69	379.94
MILE		176.8	168.7	179.6
L.W.R.P.		375.7	372.8	376.4
	26 JAN 2013		369.4 (12:30)	376.0 (12:30)
			369.4 (14:00)	376.0 (14:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (34,000 C.F.S.)

Survey Date: January 26, 2013
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 185_1584263_drp.dgn
Plot date: January 28, 2013
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

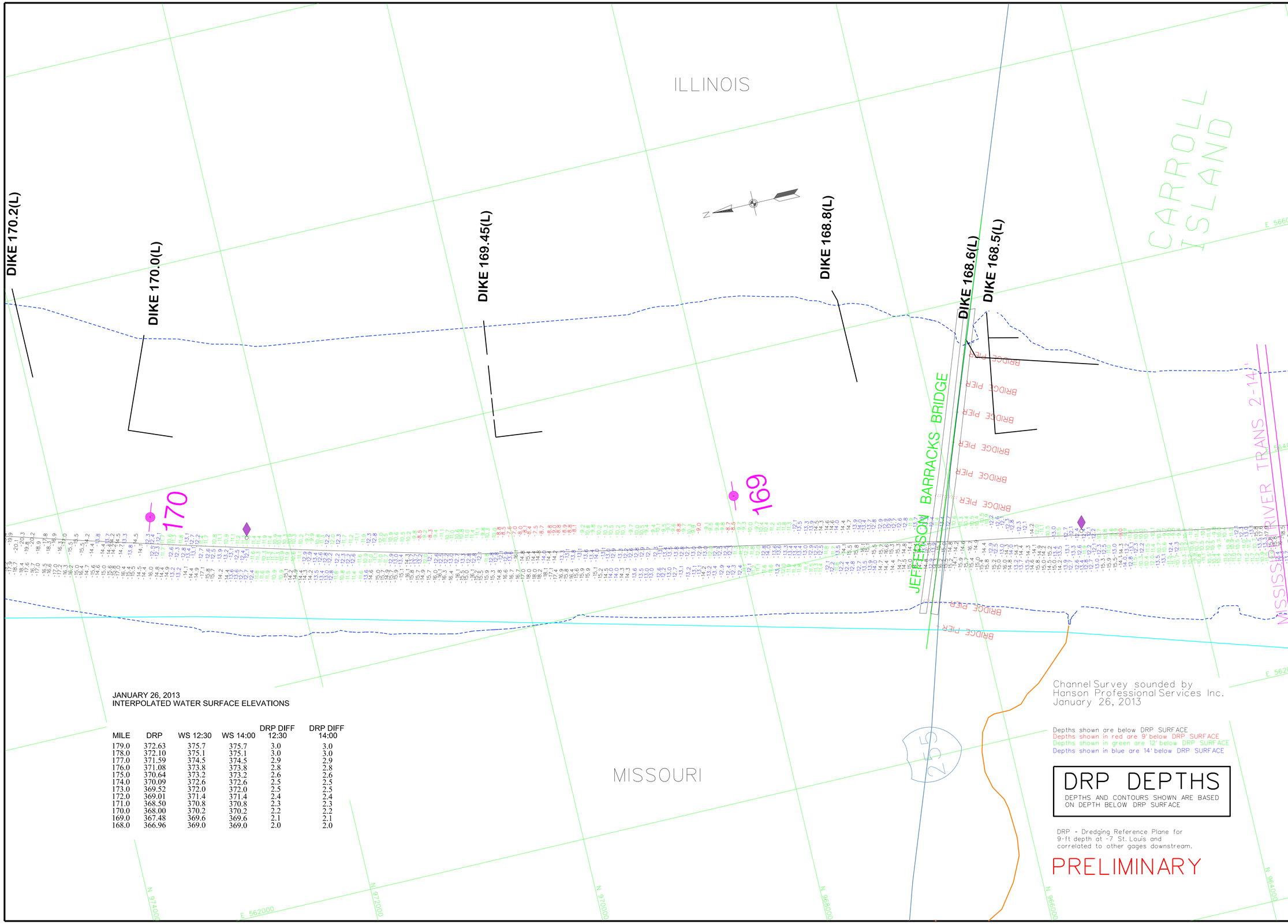
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
120 0 120 400
400 0 400 1200

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE TIME SHOWN AND MAY BE ACCURATE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

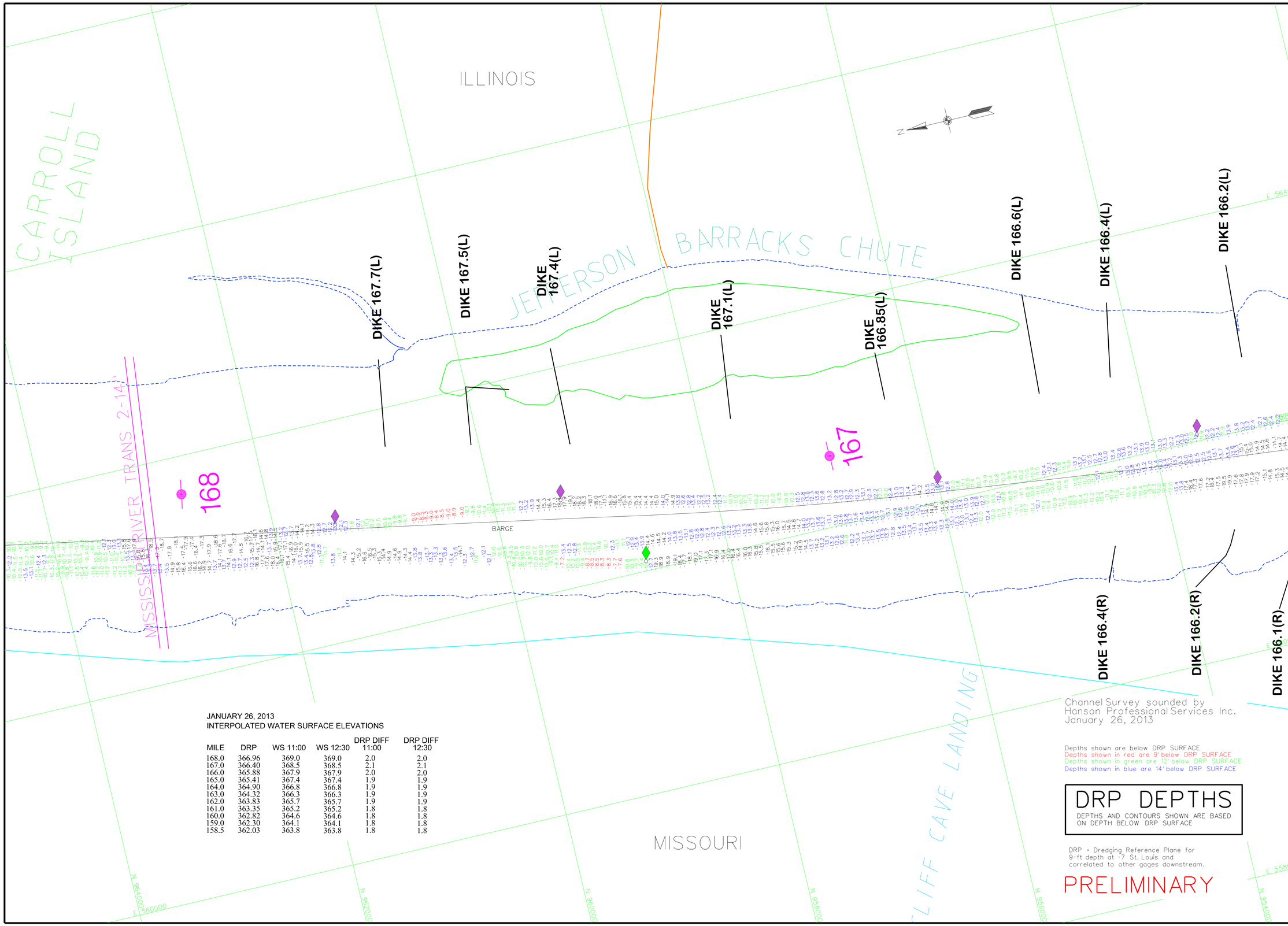
CHANNEL SURVEY
MILE: 185.1-158.5

PLATE NUMBER



JANUARY 26, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	DRP	WS 12:30	WS 14:00	DRP DIFF 12:30	DRP DIFF 14:00
179.0	372.63	375.7	375.7	3.0	3.0
178.0	372.10	375.1	375.1	3.0	3.0
177.0	371.59	374.5	374.5	2.9	2.9
176.0	371.08	373.8	373.8	2.8	2.8
175.0	370.64	373.2	373.2	2.6	2.6
174.0	370.09	372.6	372.6	2.5	2.5
173.0	369.52	372.0	372.0	2.5	2.5
172.0	369.01	371.4	371.4	2.4	2.4
171.0	368.50	370.8	370.8	2.3	2.3
170.0	368.00	370.2	370.2	2.2	2.2
169.0	367.48	369.6	369.6	2.1	2.1
168.0	366.96	369.0	369.0	2.0	2.0



JANUARY 26, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	DRP	WS 11:00	WS 12:30	DRP DIFF 11:00	DRP DIFF 12:30
168.0	366.96	369.0	369.0	2.0	2.0
167.0	366.40	368.5	368.5	2.1	2.1
166.0	365.88	367.9	367.9	2.0	2.0
165.0	365.41	367.4	367.4	1.9	1.9
164.0	364.90	366.8	366.8	1.9	1.9
163.0	364.32	366.3	366.3	1.9	1.9
162.0	363.83	365.7	365.7	1.9	1.9
161.0	363.35	365.2	365.2	1.8	1.8
160.0	362.82	364.6	364.6	1.8	1.8
159.0	362.30	364.1	364.1	1.8	1.8
158.5	362.03	363.8	363.8	1.8	1.8

Channel Survey sounded by
Hanson Professional Services Inc.
January 26, 2013

Depths shown are below DRP SURFACE
Depths shown in red are 9' below DRP SURFACE
Depths shown in green are 12' below DRP SURFACE
Depths shown in blue are 14' below DRP SURFACE

DRP DEPTHS
DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW DRP SURFACE

DRP = Dredging Reference Plane for 9-ft depth at -7 St. Louis and correlated to other gages downstream.

PRELIMINARY

US Army Corps of Engineers
St. Louis District

	WATER SURFACE	GAGE RECORD WATER'S POINT	JEFFERSON BARRACKS	ST. LOUIS
ZERO N.G.V.D.		370.39	377.69	379.94
MILE		158.5	168.7	179.6
L. W. R. P.		367.4	372.8	376.4
	26 JAN 2013	363.8 (11:00)	369.4 (11:00)	376.0 (11:00)
		363.8 (12:30)	369.4 (12:30)	376.0 (12:30)

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.)

Survey Date: January 26, 2013
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 185_1584263_drp.dgn
Plot date: January 28, 2013
Plot scale: 1"=400'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: RCA
Reviewed by:
APPROVED:
Chief, Geospatial Branch

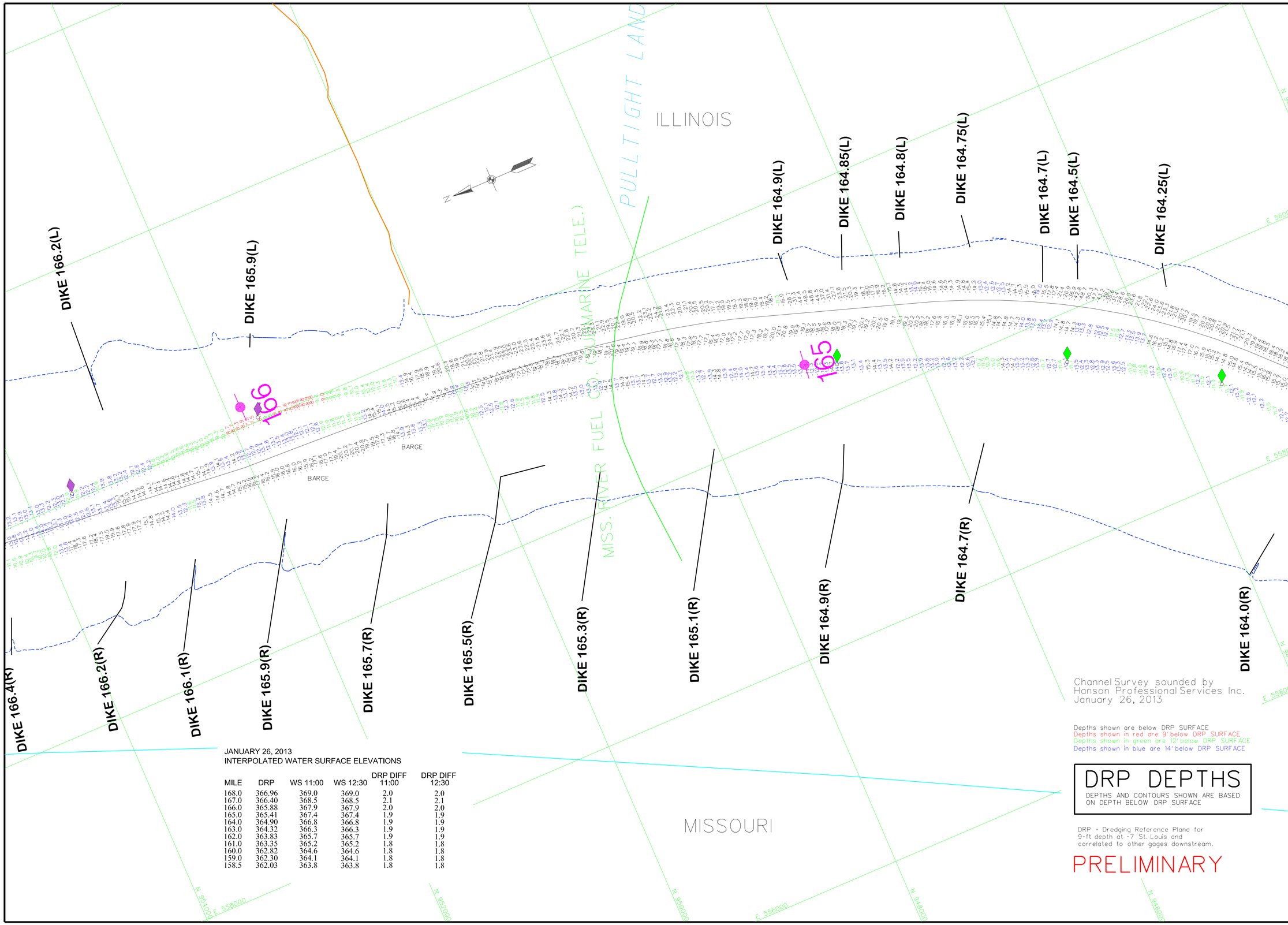
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS 120 0 120
800 FEET 400 0 400
THE INFORMATION REPRESENTED ON THIS MAP REPRESENTS THE POSSIBLE CHANGES IN RIVER DEPTHS AS OF JANUARY 26, 2013 AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

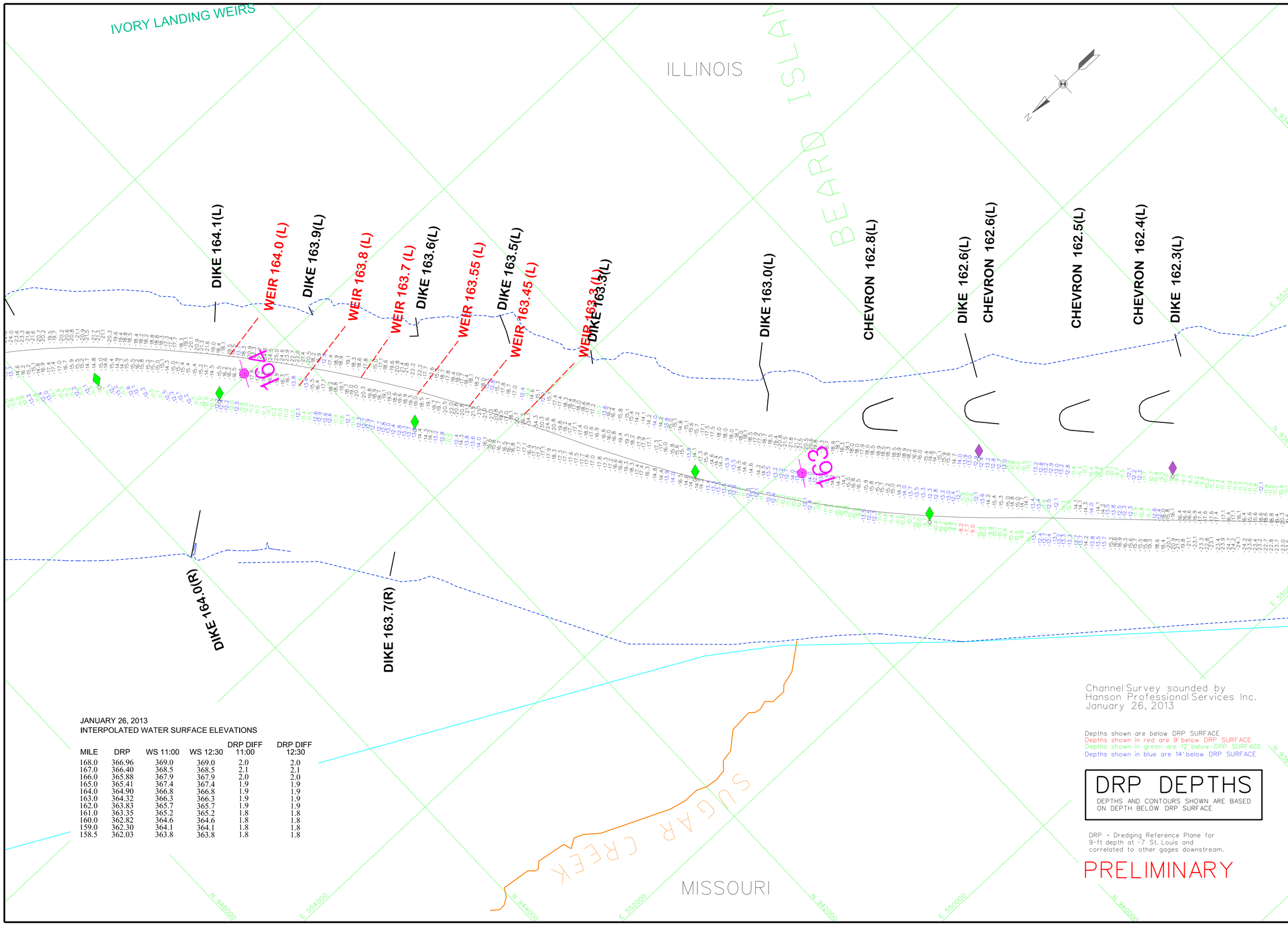
CHANNEL SURVEY
MILE: 185.1-158.5

PLATE NUMBER



JANUARY 26, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	DRP	WS 11:00	WS 12:30	DRP DIFF 11:00	DRP DIFF 12:30
168.0	366.96	369.0	369.0	2.0	2.0
167.0	366.40	368.5	368.5	2.1	2.1
166.0	365.88	367.9	367.9	2.0	2.0
165.0	365.41	367.4	367.4	1.9	1.9
164.0	364.90	366.8	366.8	1.9	1.9
163.0	364.32	366.3	366.3	1.9	1.9
162.0	363.83	365.7	365.7	1.9	1.9
161.0	363.35	365.2	365.2	1.8	1.8
160.0	362.82	364.6	364.6	1.8	1.8
159.0	362.30	364.1	364.1	1.8	1.8
158.5	362.03	363.8	363.8	1.8	1.8



JANUARY 26, 2013
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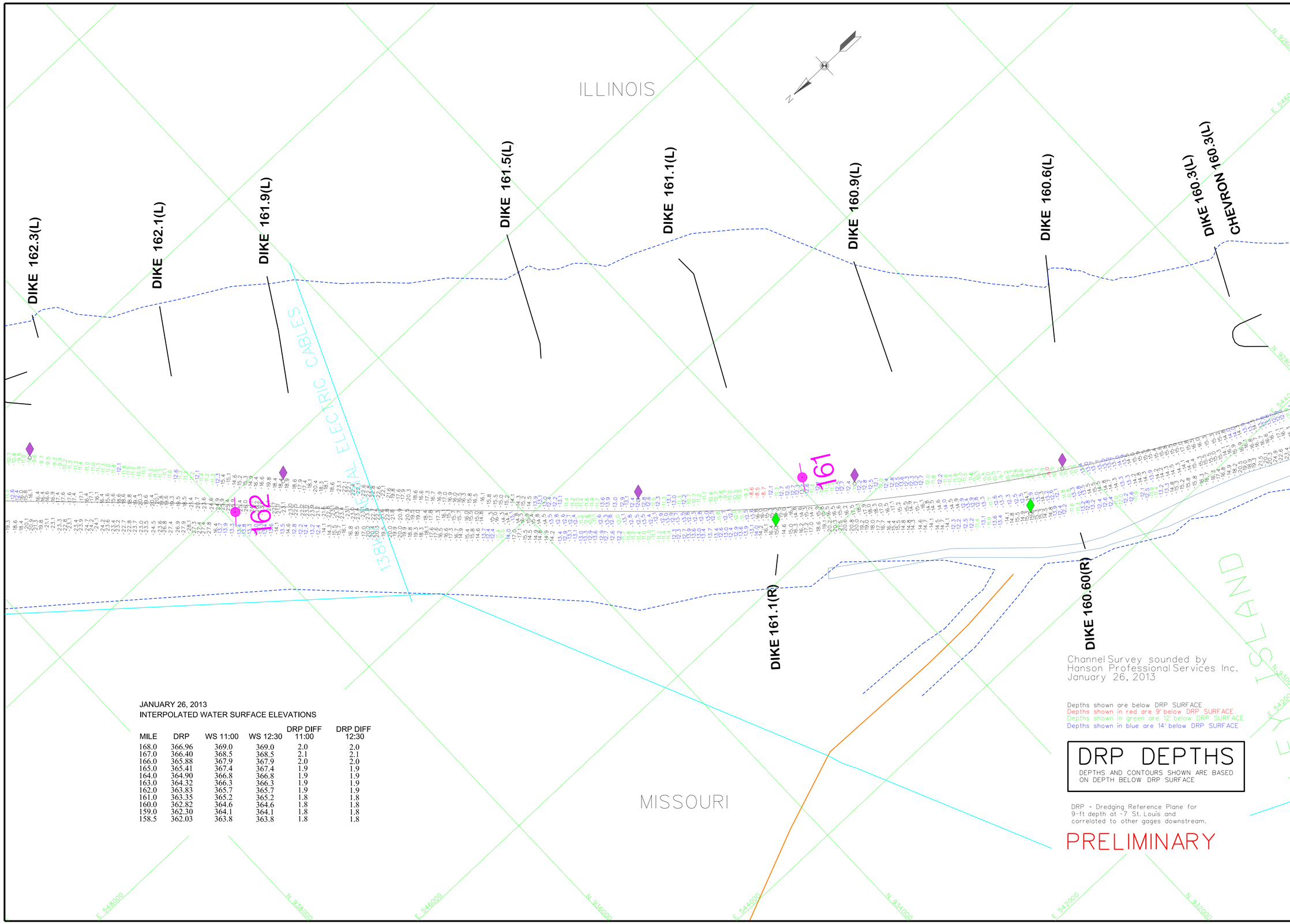

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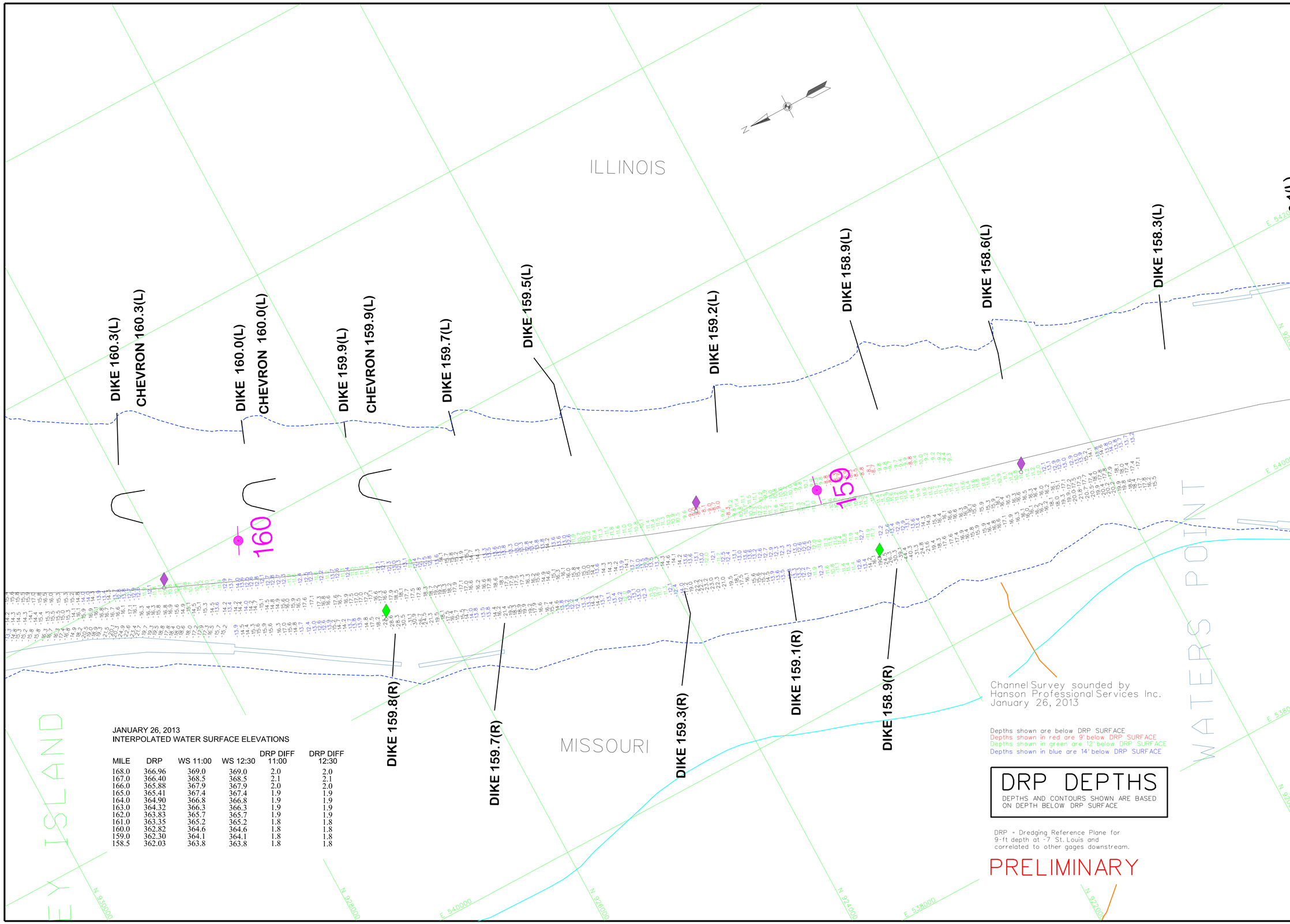

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