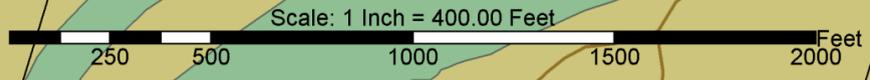
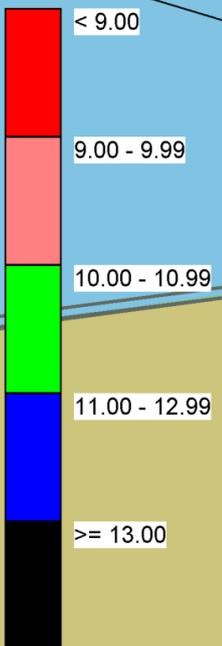
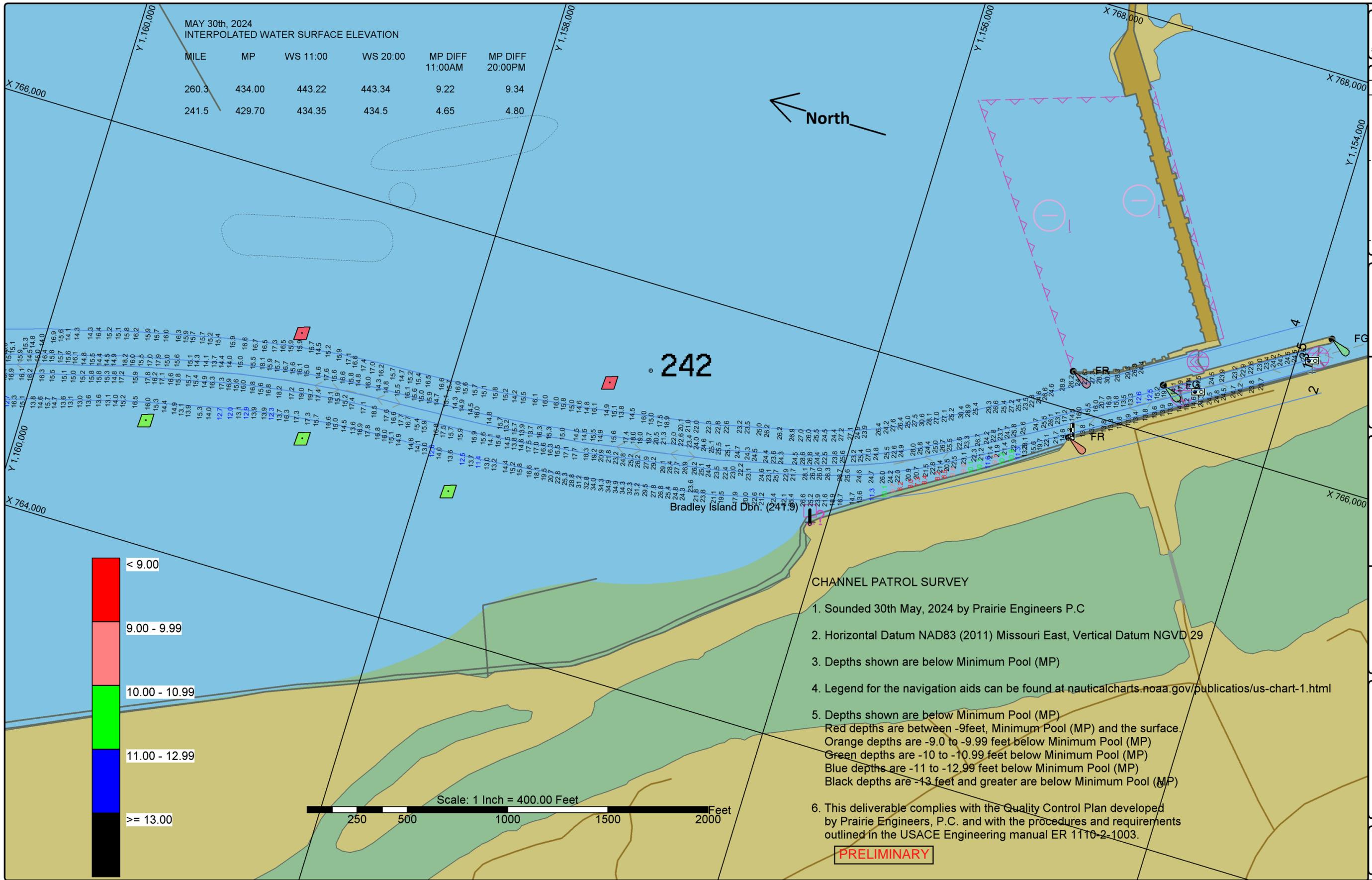


MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80



Bradley Island Dbn: (241.9)

CHANNEL PATROL SURVEY

1. Sounded 30th May, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
Red depths are between -9feet, Minimum Pool (MP) and the surface.
Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
Green depths are -10 to -10.99 feet below Minimum Pool (MP)
Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

PRELIMINARY



ST. LOUIS

Gage Records 30th May 2024	LD25 Upper @ 1100hrs = 27.35ft	Mosier.Ldg @ 1100hrs = 43.22ft	
	LD25 Upper @ 2000hrs = 27.50ft	Mosier.Ldg @ 2000hrs = 43.34ft	

DATES OF SURVEY:
MAY 30th 2024

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:

FILE NO.:

REQUEST NO.:

Approved: Abednego Nkomo
CHIEF OF SURVEY

Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN

Approved: Jarrett Lanier
ASST. CHIEF OF SURVEY

Approved: Tristan Harper
CHIEF OF SURVEY

Date: MAY 31, 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

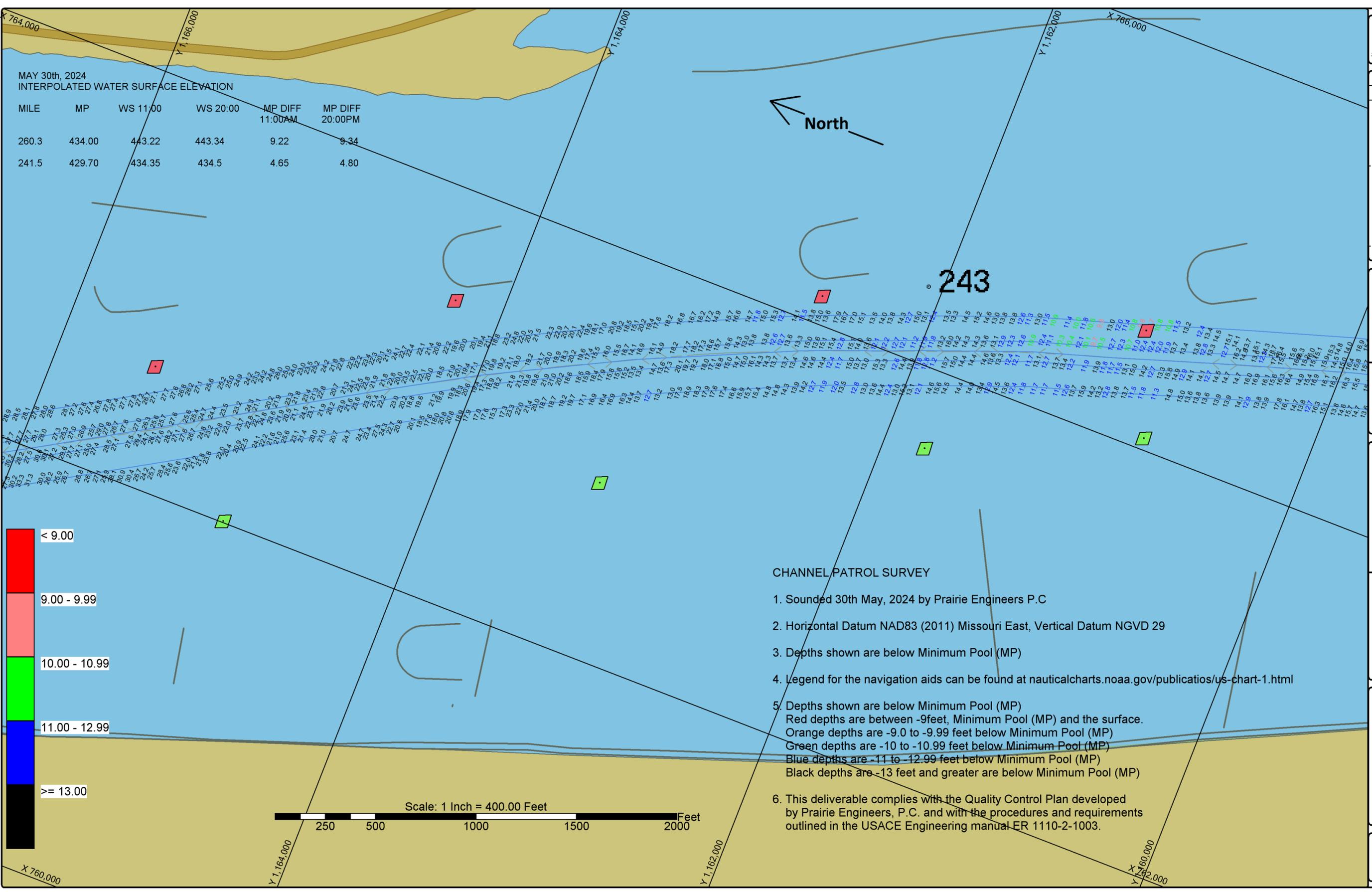
SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 39

MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80



CHANNEL PATROL SURVEY

- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
- Depths shown are below Minimum Pool (MP)
 Red depths are between -9feet, Minimum Pool (MP) and the surface.
 Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
 Green depths are -10 to -10.99 feet below Minimum Pool (MP)
 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



Gage Records 30th May 2024	
LD25 Upper @ 1100hrs = 27.35ft	
Mosier.Ldg @ 1100hrs = 43.22ft	
LD25 Upper @ 2000hrs = 27.50ft	
Mosier.Ldg @ 2000hrs = 43.34ft	

DATES OF SURVEY: MAY 30th 2024	FILE NO.:
SCALE: ONE INCH = 400 FEET	REQUEST NO.:
FIELD BOOKS:	

Approved: Abednego Nkomo
REGISTERED PROFESSIONAL ENGINEER
 Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN
 Approved: Jarrett Lantier
ASST. CHIEF OF SURVEY
 Approved: Tristan Harper
CHIEF OF SURVEY
 Date: MAY 31, 2024

US ARMY CORPS OF ENGINEERS
 ST. LOUIS DISTRICT
 ST. LOUIS, MISSOURI

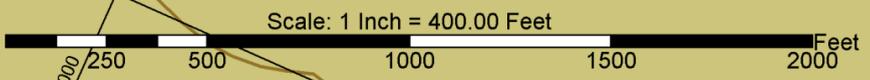
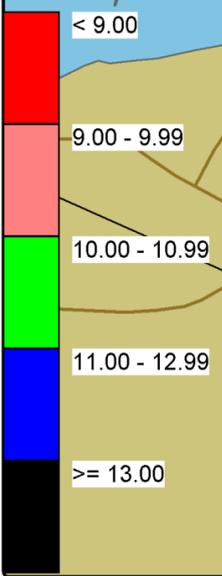
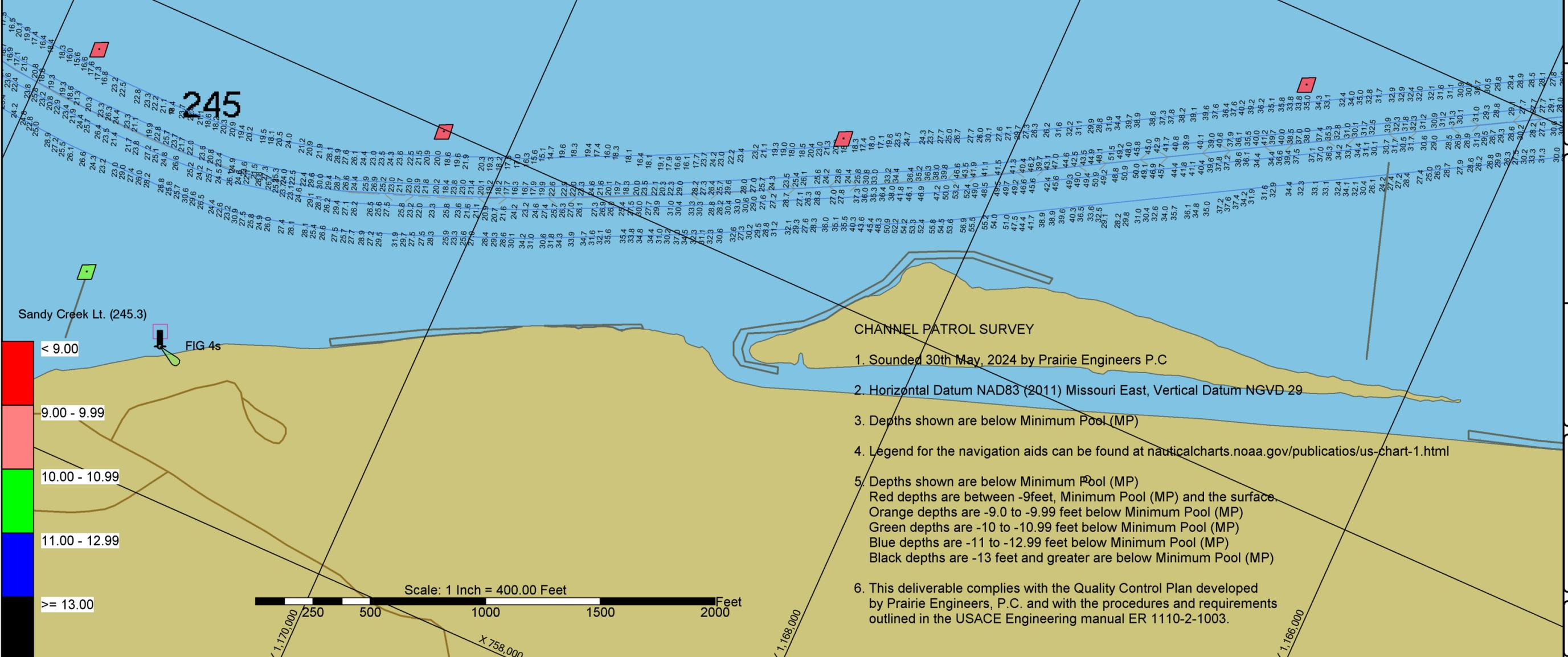
SURVEYED BY
 PRAIRIE ENGINEERS, P.C.
 404 N. MAIN STREET
 COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
 OF UPPER MISSISSIPPI RIVER
 RIVER MILE 195.0 - 300.0

SHEET 40

MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80



CHANNEL PATROL SURVEY

1. Sounded 30th May, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
 Red depths are between -9feet, Minimum Pool (MP) and the surface.
 Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
 Green depths are -10 to -10.99 feet below Minimum Pool (MP)
 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



Gage Records 30th May 2024	
LD25 Upper @ 1100hrs = 27.35ft	
Mosier.Ldg @ 1100hrs = 43.22ft	
LD25 Upper @ 2000hrs = 27.50ft	
Mosier.Ldg @ 2000hrs = 43.34ft	

DATES OF SURVEY:	MAY 30th 2024
SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	
FILE NO.:	
REQUEST NO.:	

Approved: Abdheeno Nkomo CHIEF OF SURVEY
Approved: Tom Frerichs CHIEF ENGINEERING TECHNICIAN
Approved: Jarrett Lancer ASST. CHIEF OF SURVEY
Approved: Tristan Harper CHIEF OF SURVEY
Date: MAY 31, 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 41

CHANNEL PATROL SURVEY

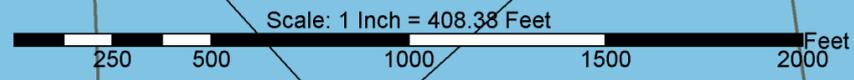
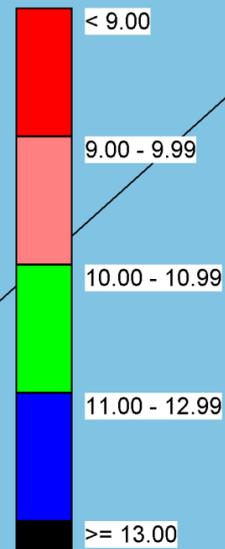
- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
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 Black depths are -13 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

North

Turners Ldg. Lt. (246.8)

FI(2)R 5s

247



MAY 30th, 2024
 INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80

ST. LOUIS

Gage Records 30th May 2024	LD25 Upper @ 1100hrs = 27.35ft
Mosier Ldg @ 1100hrs = 43.22ft	
LD25 Upper @ 2000hrs = 27.50ft	
Mosier Ldg @ 2000hrs = 43.34ft	

DATES OF SURVEY:
 MAY 30th 2024

SCALE:
 ONE INCH = 400 FEET

FIELD BOOKS:

FILE NO.:

REQUEST NO.:

Approved: **Abednego Nkem**
DEPUTY DISTRICT CHIEF OF SURVEY

Approved: **Tom Frerichs**
CIVIL ENGINEERING TECHNICIAN

Approved: **Jarrett Lancer**
ASST. CHIEF OF SURVEY

Approved: **Tristan Harper**
CHIEF OF SURVEY

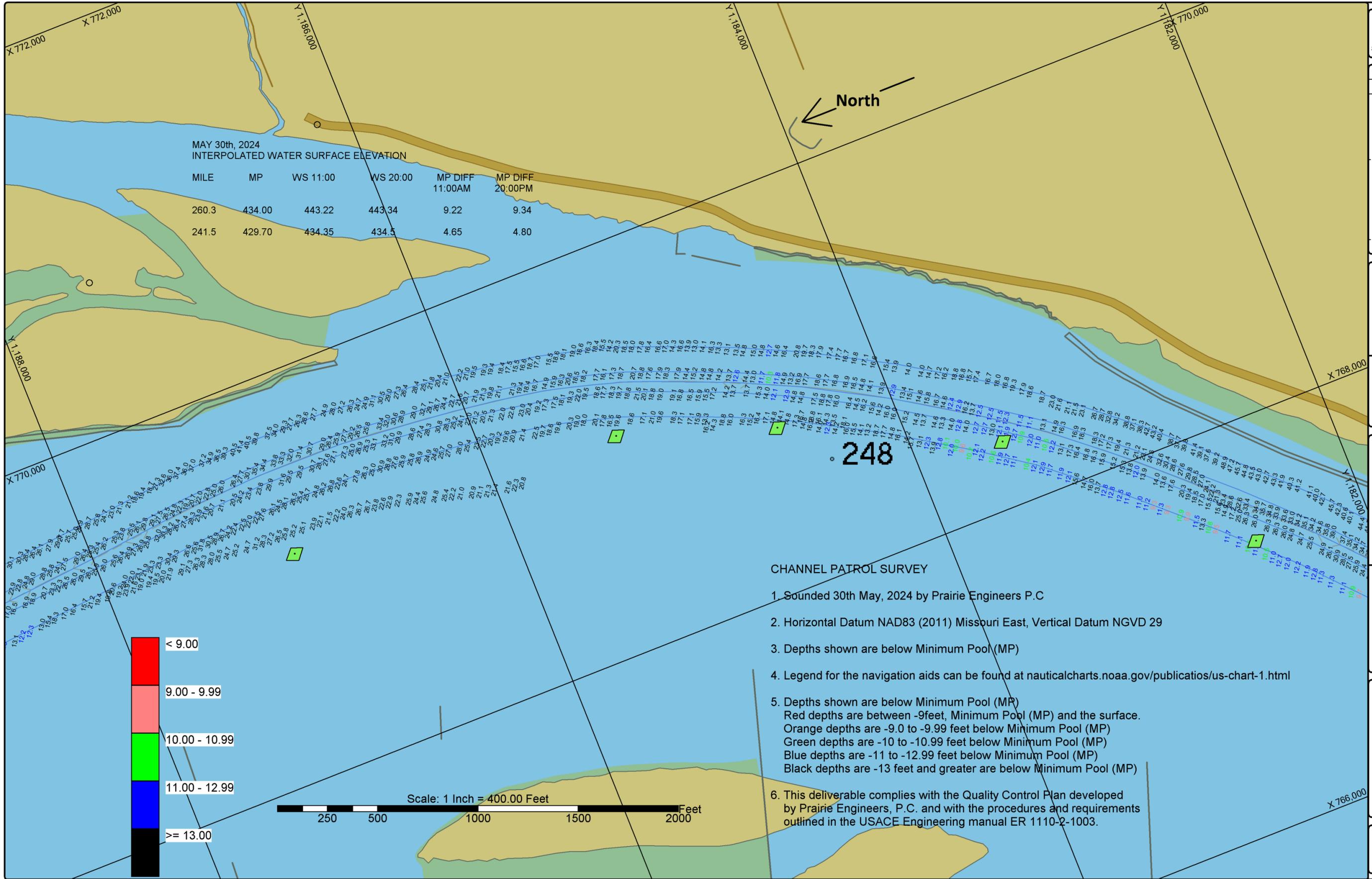
Date: MAY 31 2024

US ARMY CORPS OF ENGINEERS
 ST. LOUIS DISTRICT
 ST. LOUIS, MISSOURI

SURVEYED BY
 PRAIRIE ENGINEERS, P.C.
 404 N. MAIN STREET
 COLUMBIA, IL 62236

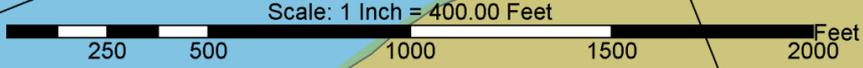
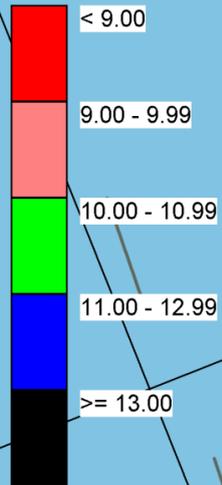
CHANNEL PATROL SURVEY
 OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0



MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80



CHANNEL PATROL SURVEY

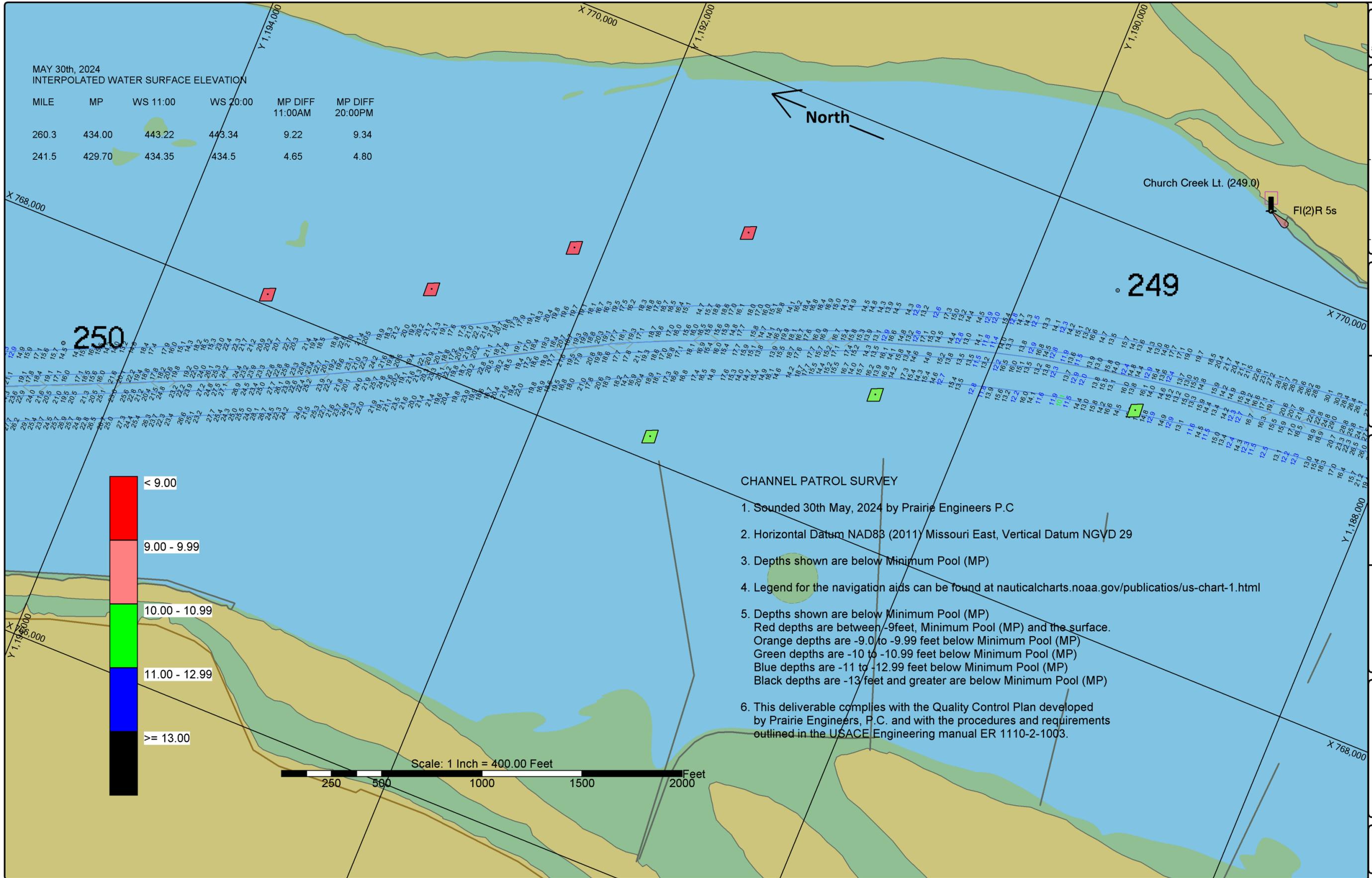
- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
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 Black depths are -13 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST. LOUIS

Gage Records 30th May 2024 LD25 Upper @ 1100hrs = 27.35ft Mosler.Ldg @ 1100hrs = 43.22ft LD25 Upper @ 2000hrs = 27.50ft Mosler.Ldg @ 2000hrs = 43.34ft	DATES OF SURVEY: MAY 30th 2024
SCALE: ONE INCH = 400 FEET	FIELD BOOKS: _____
Approved: Abednego Nkem <small>CHIEF OF SURVEY</small> Approved: Tom Frerichs <small>CIVIL ENGINEERING TECHNICIAN</small> Approved: Jarrett Lancer <small>ASST. CHIEF OF SURVEY</small> Approved: Tristan Harper <small>CHIEF OF SURVEY</small> Date: MAY 31 2024	
US ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI	
SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL 62236	
CHANNEL PATROL SURVEY OF UPPER MISSISSIPPI RIVER RIVER MILE 195.0 - 300.0	
SHEET 44	

MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

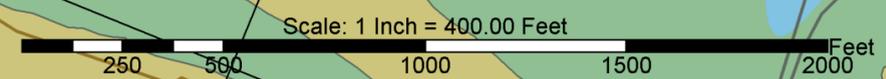
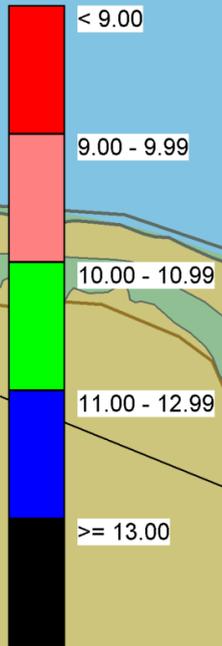
MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80



250

249

Church Creek Lt. (249.0)
FI(2)R 5s



CHANNEL PATROL SURVEY

- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
- Depths shown are below Minimum Pool (MP)
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- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST. LOUIS

Gage Records 30th May 2024 LD25 Upper @ 1100hrs = 27.35ft Mosier.Ldg @ 1100hrs = 43.22ft LD25 Upper @ 2000hrs = 27.50ft Mosier.Ldg @ 2000hrs = 43.34ft	DATES OF SURVEY: MAY 30th 2024
SCALE: ONE INCH = 400 FEET	FIELD BOOKS: _____
APPROVED BY: _____ CIVIL ENGINEERING TECHNICIAN	FILE NO.: _____
APPROVED BY: _____ CHIEF OF SURVEY	REQUEST NO.: _____

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

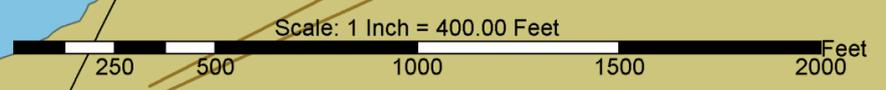
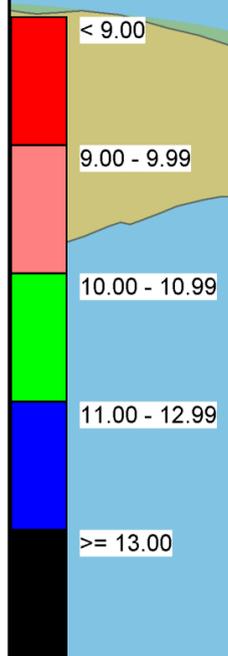
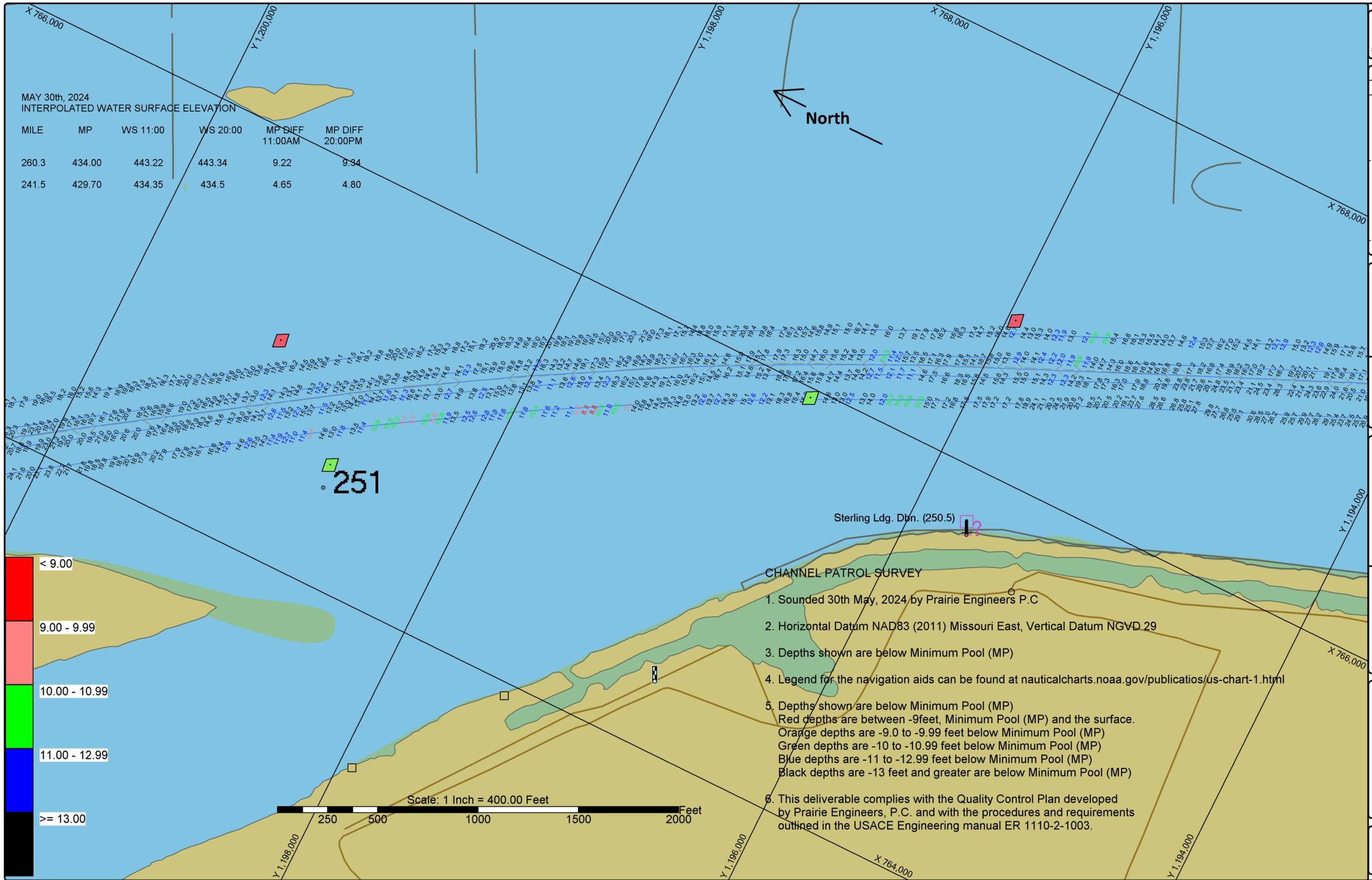
Date: MAY 31, 2024

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 45

MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80



- CHANNEL PATROL SURVEY**
- Sounded 30th May, 2024 by Prairie Engineers P.C
 - Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
 - Depths shown are below Minimum Pool (MP)
 - Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
 - Depths shown are below Minimum Pool (MP)
 Red depths are between -9feet, Minimum Pool (MP) and the surface.
 Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
 Green depths are -10 to -10.99 feet below Minimum Pool (MP)
 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MP)
 - This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



Gage Records 30th May 2024	
LD25 Upper @ 1100hrs = 27.35ft	
Mosier.Ldg @ 1100hrs = 43.22ft	
LD25 Upper @ 2000hrs = 27.50ft	
Mosier.Ldg @ 2000hrs = 43.34ft	

DATES OF SURVEY:	MAY 30th 2024
FILE NO.:	
REQUEST NO.:	

Approved: <u>Abednego Nkomo</u> DEPUTY CHIEF OF SURVEY
Approved: <u>Tom Frerichs</u> CIVIL ENGINEERING TECHNICIAN
Approved: <u>Jarrett Lancer</u> ASST. CHIEF OF SURVEY
Approved: <u>Tristan Harper</u> CHIEF OF SURVEY
Date: <u>MAY 31 2024</u>

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 46

CHANNEL PATROL SURVEY

1. Sounded 30th May, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
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 Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
 Green depths are -10 to -10.99 feet below Minimum Pool (MP)
 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

North

252

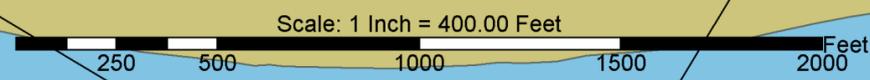
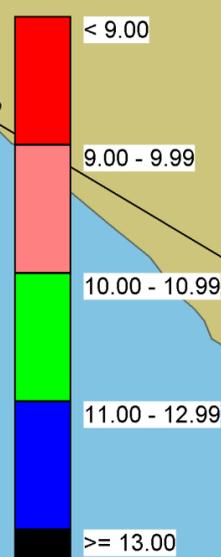
X 762,000

Y 1,206,000

X 760,000

Y 1,204,000

FIG 4s



MAY 30th, 2024
 INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80



ST. LOUIS

Gage Records 30th May 2024	
LD25 Upper @ 1100hrs = 27.35ft	
Mosier.Ldg @ 1100hrs = 43.22ft	
LD25 Upper @ 2000hrs = 27.50ft	
Mosier.Ldg @ 2000hrs = 43.34ft	

DATES OF SURVEY:
 MAY 30th 2024

FILE NO.:
 REQUEST NO.:

SCALE:
 ONE INCH = 400 FEET

FIELD BOOKS:

Approved: **Abednego Nkomo**
SENIOR PROJECT MANAGER

Approved: **Tom Frerichs**
CIVIL ENGINEERING TECHNICIAN

Approved: **Jarrett Lancer**
ASST. CHIEF OF SURVEY

Approved: **Tristan Harper**
CHIEF OF SURVEY

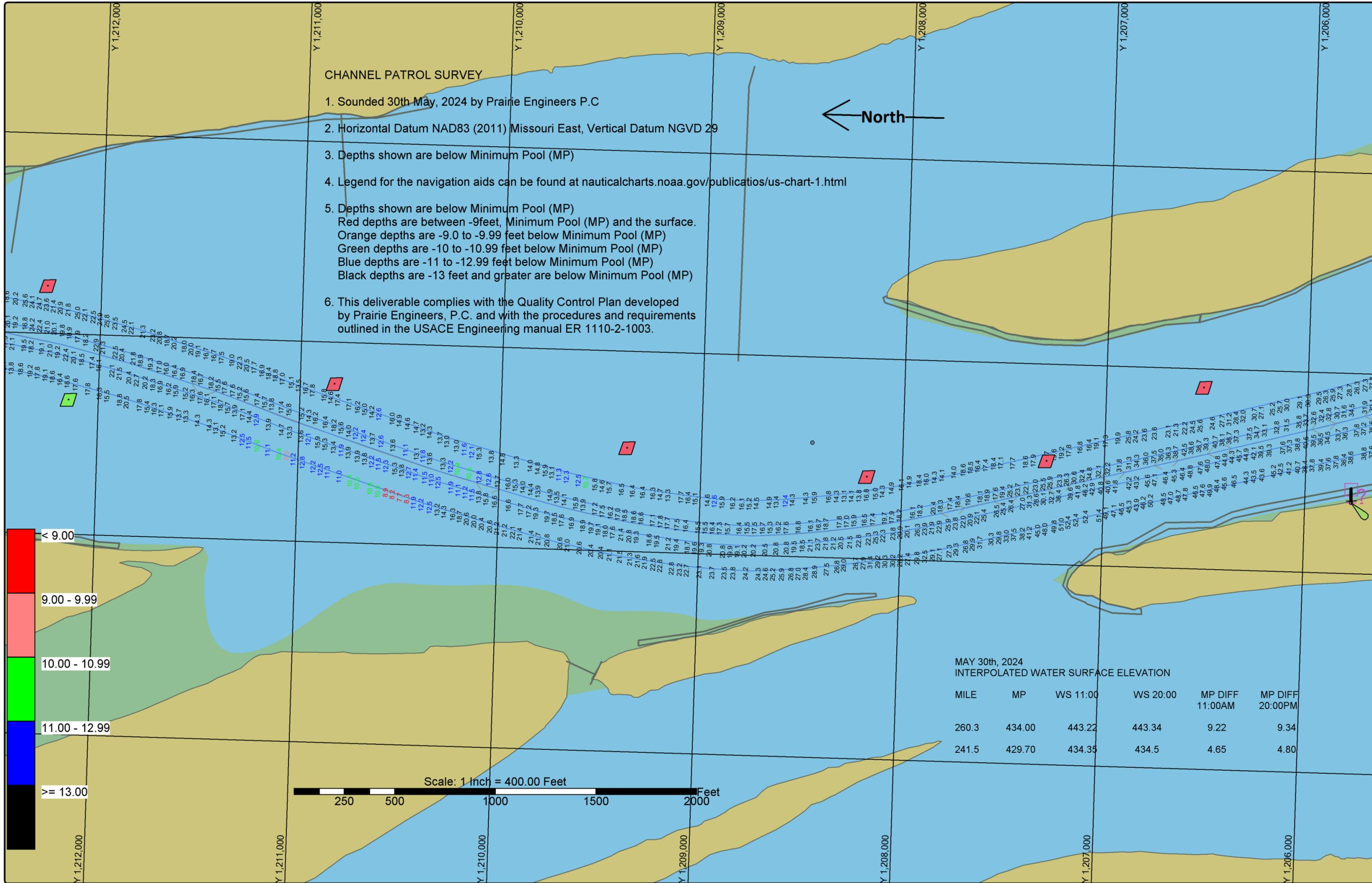
Date: MAY 31 2024

US ARMY CORPS OF ENGINEERS
 ST. LOUIS DISTRICT
 ST. LOUIS, MISSOURI

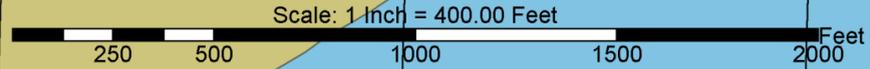
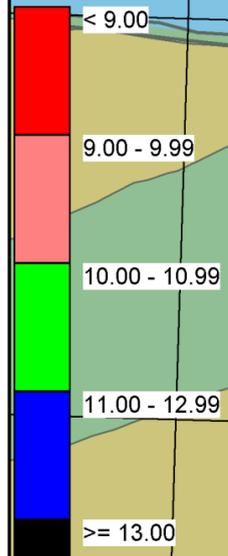
SURVEYED BY
 PRAIRIE ENGINEERS, P.C.
 404 N. MAIN STREET
 COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
 OF UPPER MISSISSIPPI RIVER
 RIVER MILE 195.0 - 300.0

SHEET 47



- CHANNEL PATROL SURVEY**
1. Sounded 30th May, 2024 by Prairie Engineers P.C
 2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
 3. Depths shown are below Minimum Pool (MP)
 4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
 5. Depths shown are below Minimum Pool (MP)
 Red depths are between -9feet, Minimum Pool (MP) and the surface.
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 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MP)
 6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80



ST. LOUIS

Gage Records 30th May 2024
 LD25 Upper @ 1100hrs = 27.35ft
 Mosier.Ldg @ 1100hrs = 43.22ft

LD25 Upper @ 2000hrs = 27.50ft
 Mosier.Ldg @ 2000hrs = 43.34ft

DATE OF SURVEY:
MAY 30th 2024

FILE NO.:

REQUEST NO.:

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:

APPROVED: **Abdennour Nkhem**
SENIOR PROJECT MANAGER

APPROVED: **Tom Frerichs**
CIVIL ENGINEERING TECHNICIAN

APPROVED: **Jarrett Lancer**
CHIEF OF SURVEY

APPROVED: **Tristan Harper**
CHIEF OF SURVEY

Date: MAY 31 2024

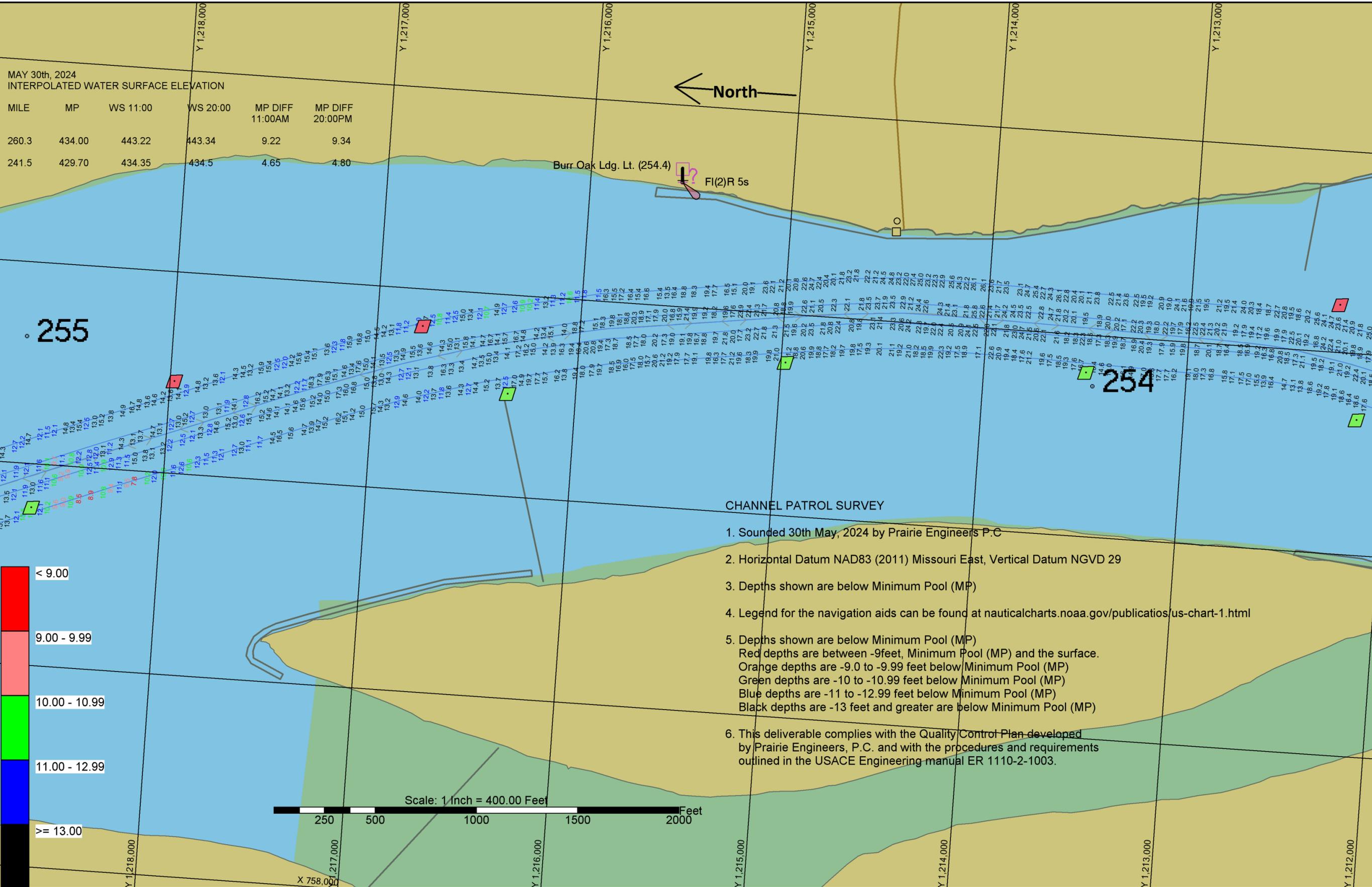
US ARMY CORPS OF ENGINEERS
 ST. LOUIS DISTRICT
 ST. LOUIS, MISSOURI

SURVEYED BY
 PRAIRIE ENGINEERS, P.C.
 404 N. MAIN STREET
 COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
 OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 48



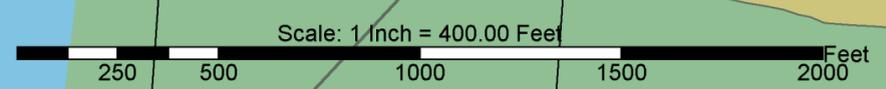
MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80

255

254

- < 9.00
- 9.00 - 9.99
- 10.00 - 10.99
- 11.00 - 12.99
- >= 13.00



- CHANNEL PATROL SURVEY**
- Sounded 30th May, 2024 by Prairie Engineers P.C
 - Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
 - Depths shown are below Minimum Pool (MP)
 - Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
 - Depths shown are below Minimum Pool (MP)
Red depths are between -9feet, Minimum Pool (MP) and the surface.
Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
Green depths are -10 to -10.99 feet below Minimum Pool (MP)
Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)
 - This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

ST. LOUIS

Gage Records 30th May 2024	L25 Upper @ 1100hrs = 27.35ft
Mosier.Ldg @ 1100hrs = 43.22ft	L25 Upper @ 2000hrs = 27.50ft
Mosier.Ldg @ 2000hrs = 43.34ft	

DATES OF SURVEY: MAY 30th 2024

FILE NO.: _____

REQUEST NO.: _____

SCALE: ONE INCH = 400 FEET

FIELD BOOKS: _____

Approved: Abednego Nkem
CHIEF OF SURVEY

Approved: Tom Frerichs
CHIEF ENGINEERING TECHNICIAN

Approved: Jarrett Lancer
ASST. CHIEF OF SURVEY

Approved: Tristan Harper
CHIEF OF SURVEY

Date: MAY 31 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

**CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER**

RIVER MILE 195.0 - 300.0

SHEET 49



ST. LOUIS

CHANNEL PATROL SURVEY

- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
- Depths shown are below Minimum Pool (MP)
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 Green depths are -10 to -10.99 feet below Minimum Pool (MP)
 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

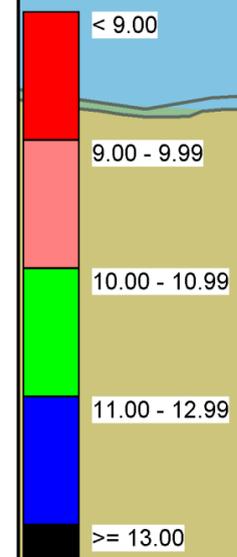
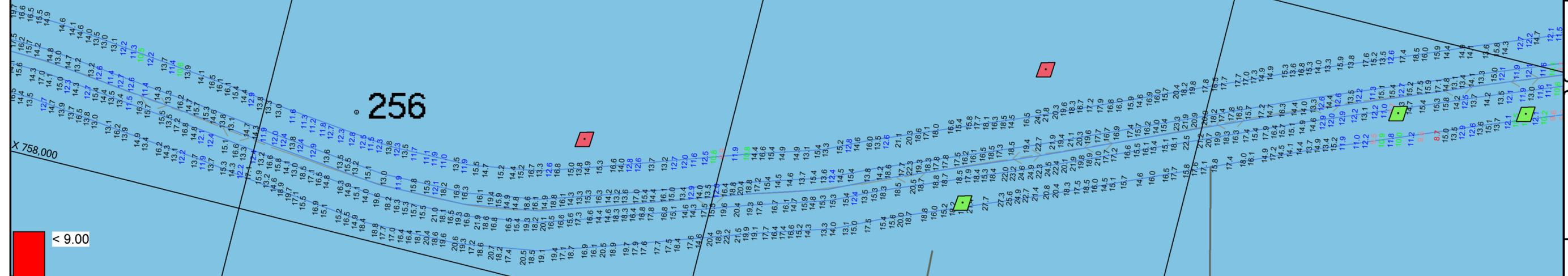


256

Westport Island Lt. (255.9)

FIG 4s

Scale: 1 Inch = 400.00 Feet



MAY 30th, 2024 INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80

Gage Records 30th May 2024	
LD25 Upper @ 1100hrs = 27.35ft	
Mosier.Ldg @ 1100hrs = 43.22ft	
LD25 Upper @ 2000hrs = 27.50ft	
Mosier.Ldg @ 2000hrs = 43.34ft	

DATES OF SURVEY:	MAY 30th 2024
SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	
FILE NO.:	
REQUEST NO.:	

Approved: Abdheeno Nkhem SENIOR PROJECT MANAGER
Approved: Tom Frerichs CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Lancer CIVIL ENGINEER
Approved: Tristan Harper CHIEF OF SURVEY
Date: MAY 31, 2024

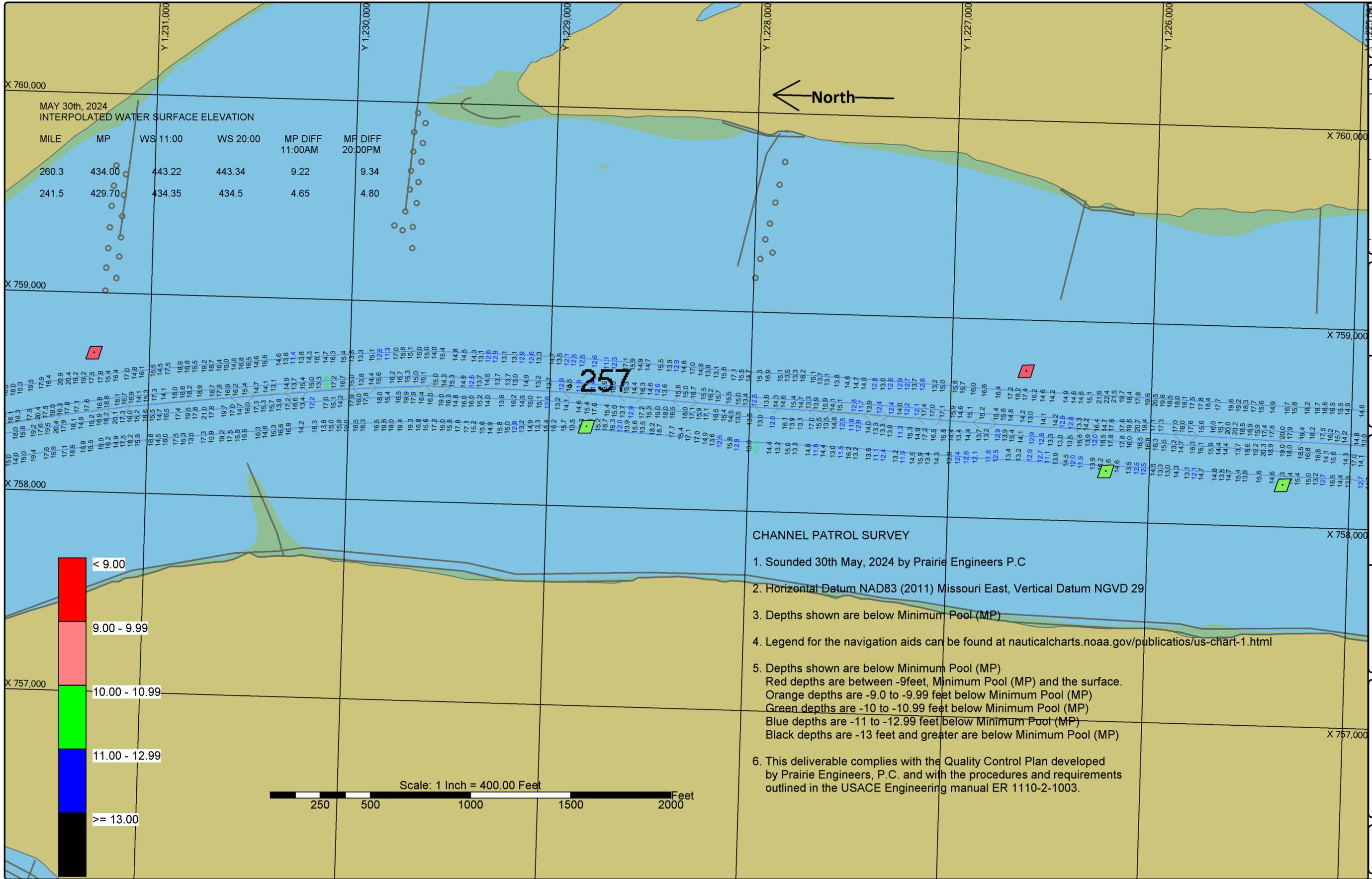
US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 50





ST. LOUIS

Gage Records 30th May 2024	LD25 Upper @ 1100hrs = 27.35ft
Mosier.Ldg @ 1100hrs = 43.22ft	LD25 Upper @ 2000hrs = 27.50ft
LD25 Upper @ 2000hrs = 27.50ft	Mosier.Ldg @ 2000hrs = 43.34ft

DATE OF SURVEY:
MAY 30th, 2024

FILE NO.: _____
REQUEST NO.: _____

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:

Approved: **Abednego Nkem**
CHIEF OF SURVEY

Approved: **Tom Frerichs**
CIVIL ENGINEERING TECHNICIAN

Approved: **Jarrett Lancer**
ASST. CHIEF OF SURVEY

Approved: **Tristan Harper**
CHIEF OF SURVEY

Date: MAY 31, 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

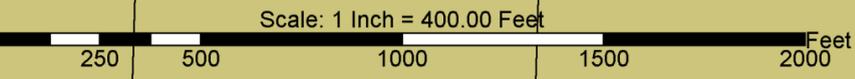
SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 51

- CHANNEL PATROL SURVEY**
- Sounded 30th May, 2024 by Prairie Engineers P.C
 - Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
 - Depths shown are below Minimum Pool (MP)
 - Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
 - Depths shown are below Minimum Pool (MP)
Red depths are between -9feet, Minimum Pool (MP) and the surface.
Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
Green depths are -10 to -10.99 feet below Minimum Pool (MP)
Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)
 - This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

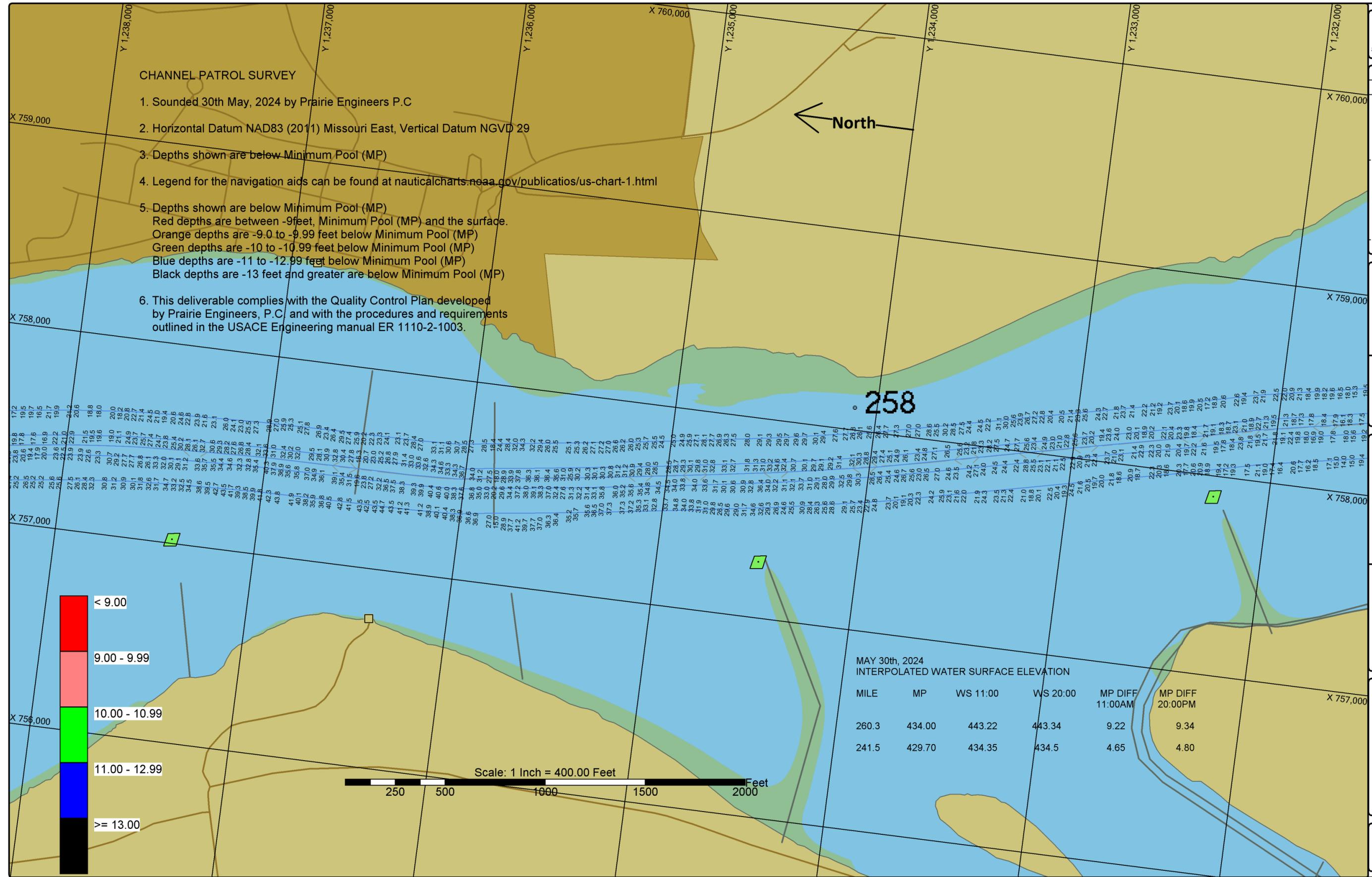




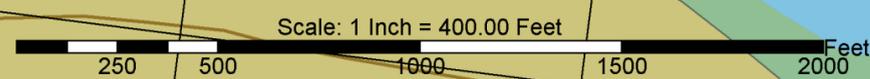
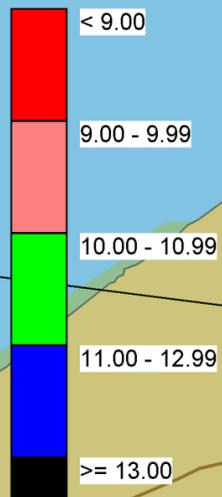
ST. LOUIS

CHANNEL PATROL SURVEY

- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
- Depths shown are below Minimum Pool (MP)
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 Green depths are -10 to -10.99 feet below Minimum Pool (MP)
 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
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- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



258



MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80

Gage Records 30th May 2024	
LD25 Upper @ 1100hrs = 27.35ft	
Mosier.Ldg @ 1100hrs = 43.22ft	
LD25 Upper @ 2000hrs = 27.50ft	
Mosier.Ldg @ 2000hrs = 43.34ft	

DATES OF SURVEY:	MAY 30th 2024
SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	
FILE NO.:	
REQUEST NO.:	

Approved: Abdusso Nikem SENIOR PROJECT MANAGER
Approved: Tom Frerichs CHIEF ENGINEERING TECHNICIAN
Approved: Jarrett Lancer CHIEF OF SURVEY
Approved: Tristan Harper CHIEF OF SURVEY
Date: MAY 31 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0



ST. LOUIS

Gage Records 30th May 2024
LD25 Upper @ 1100hrs = 27.35ft
Mosier.Ldg @ 1100hrs = 43.32ft
LD25 Upper @ 2000hrs = 27.50ft
Mosier.Ldg @ 2000hrs = 43.34ft

DATES OF SURVEY:
MAY 30TH 2024

SCALE:
ONE INCH = 400 FEET

FILE NO.:
REQUEST NO.:

Approved: **Abednego Nkomo**
SENIOR PROJECT MANAGER

Approved: **Tom Frerichs**
CIVIL ENGINEERING TECHNICIAN

Approved: **Jarrett Lancer**
ASST. CHIEF OF SURVEY

Approved: **Tristan Harper**
CHIEF OF SURVEY

Date: MAY 31 2024

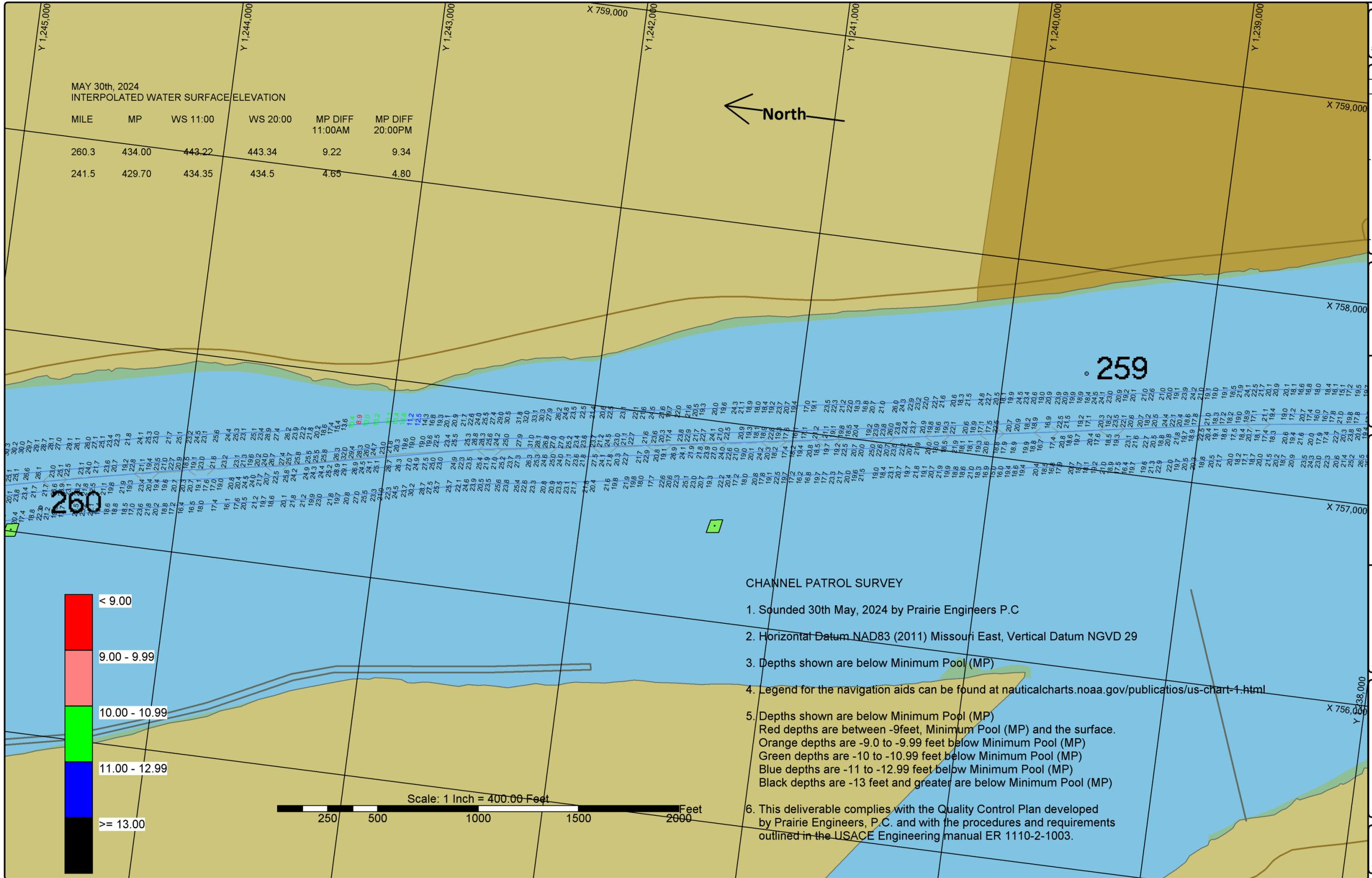
US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 53



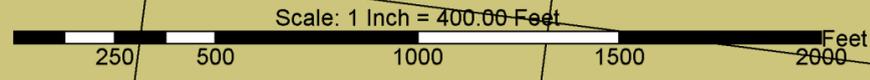
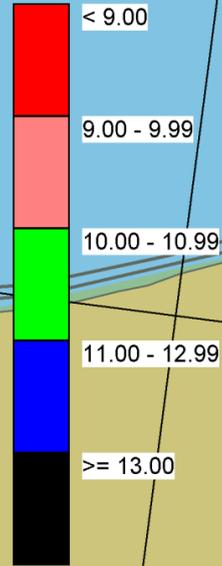
MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80



259

260



CHANNEL PATROL SURVEY

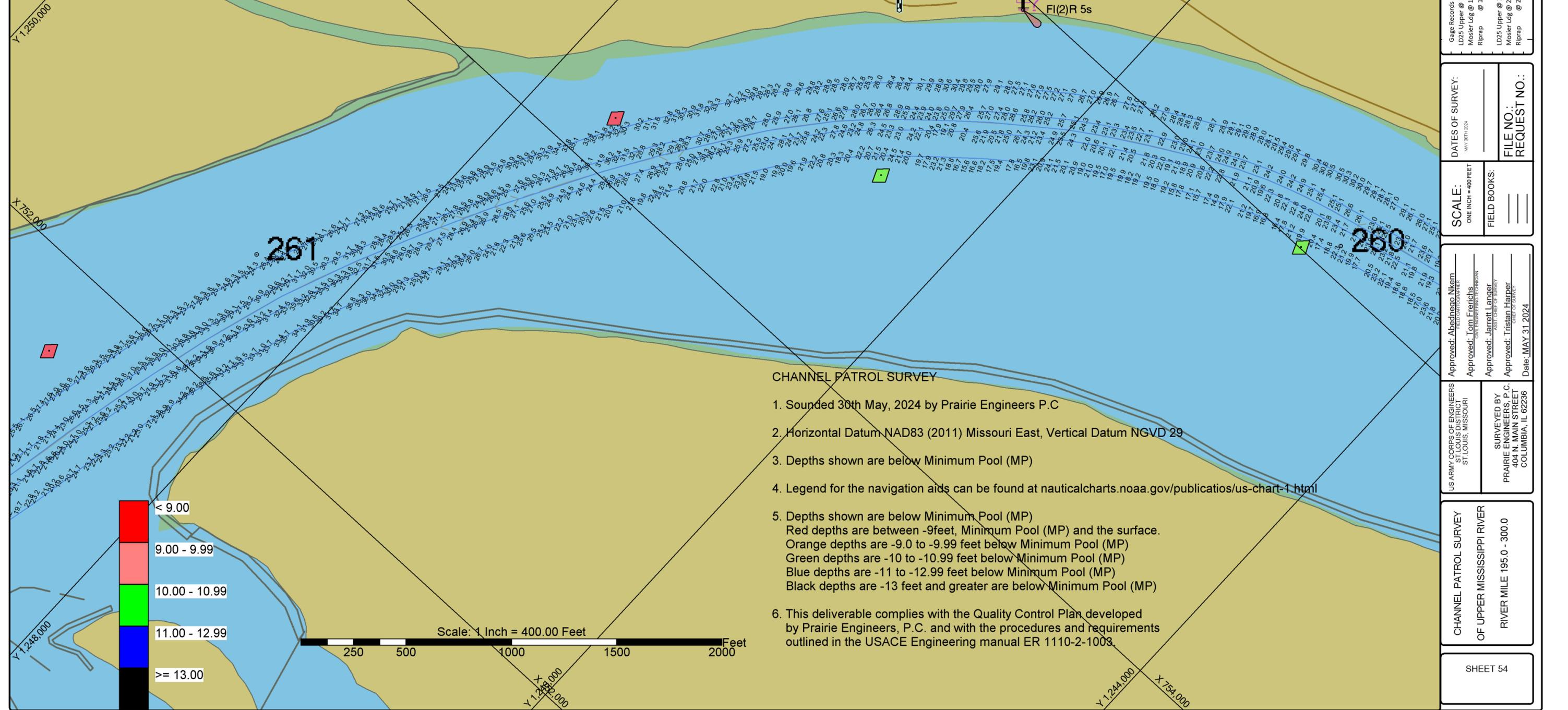
- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
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Red depths are between -9feet, Minimum Pool (MP) and the surface.
Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
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Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
265.0	434.00	445.53	445.53	11.53	11.53
260.3	434.00	443.22	443.34	9.22	9.34
241.5	429.70	434.35	434.5	4.65	4.80



Mozier Ldg. Lt. (260.2) FI(2)R 5s



CHANNEL PATROL SURVEY

1. Sounded 30th May, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
 Red depths are between -9feet, Minimum Pool (MP) and the surface.
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 Green depths are -10 to -10.99 feet below Minimum Pool (MP)
 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



ST. LOUIS

Gage Records 30th May 2024	LD25 Upper @ 1100hrs = 27.35ft
Mozier Ldg @ 1100hrs = 43.22ft	Riprap @ 1100hrs = 19.5ft
LD25 Upper @ 2000hrs = 27.50ft	Mozier Ldg @ 2000hrs = 43.34ft
Riprap @ 2000hrs = 19.5ft	

DATES OF SURVEY:
MAY 30th 2024

FILE NO.:
REQUEST NO.:

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:

Approved: **Abednego Nkem**
SURVEYING ENGINEER

Approved: **Tom Frerichs**
CIVIL ENGINEERING TECHNICIAN

Approved: **Jarrett Lancer**
ASST. CHIEF OF SURVEY

Approved: **Tristan Harper**
CHIEF OF SURVEY

Date: MAY 31, 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 54

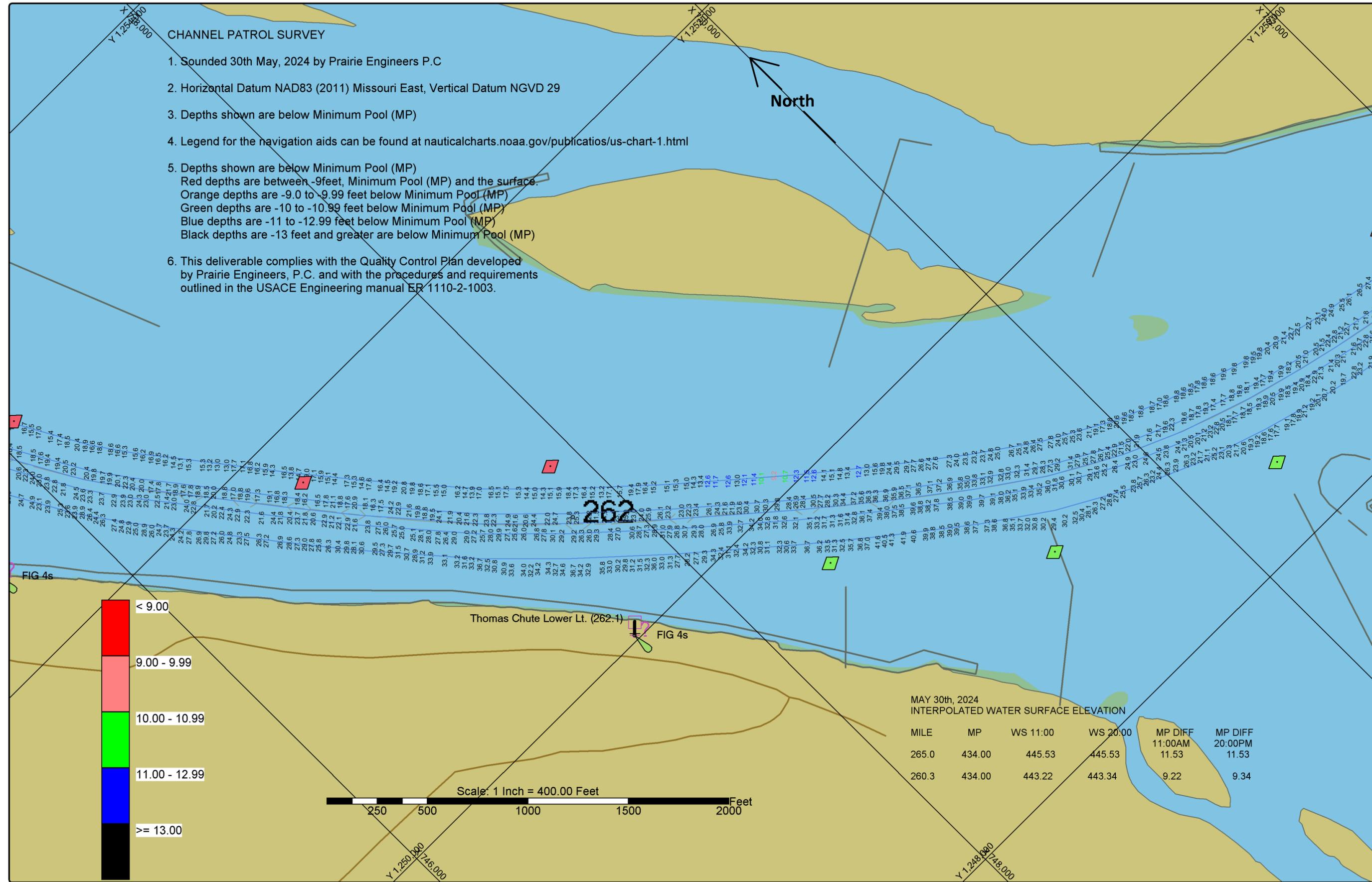


ST. LOUIS

CHANNEL PATROL SURVEY

- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
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 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

North



Gage Records 30th May 2024	
Mosier Ldg @ 1100hrs = 43.22ft	
Riprap @ 1100hrs = 19.5ft	
Mosier Ldg @ 2000hrs = 43.34ft	
Riprap @ 2000hrs = 19.5ft	

DATES OF SURVEY:	MAY 30th 2024
SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	
FILE NO.:	
REQUEST NO.:	

Approved: <u>Abednego Nkem</u> CHIEF OF PARTY
Approved: <u>Tom Frerichs</u> CHIEF ENGINEERING TECHNICIAN
Approved: <u>Jarrett Lancer</u> CHIEF OF SURVEY
Approved: <u>Tristan Harper</u> CHIEF OF PARTY
Date: <u>MAY 31 2024</u>

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 55

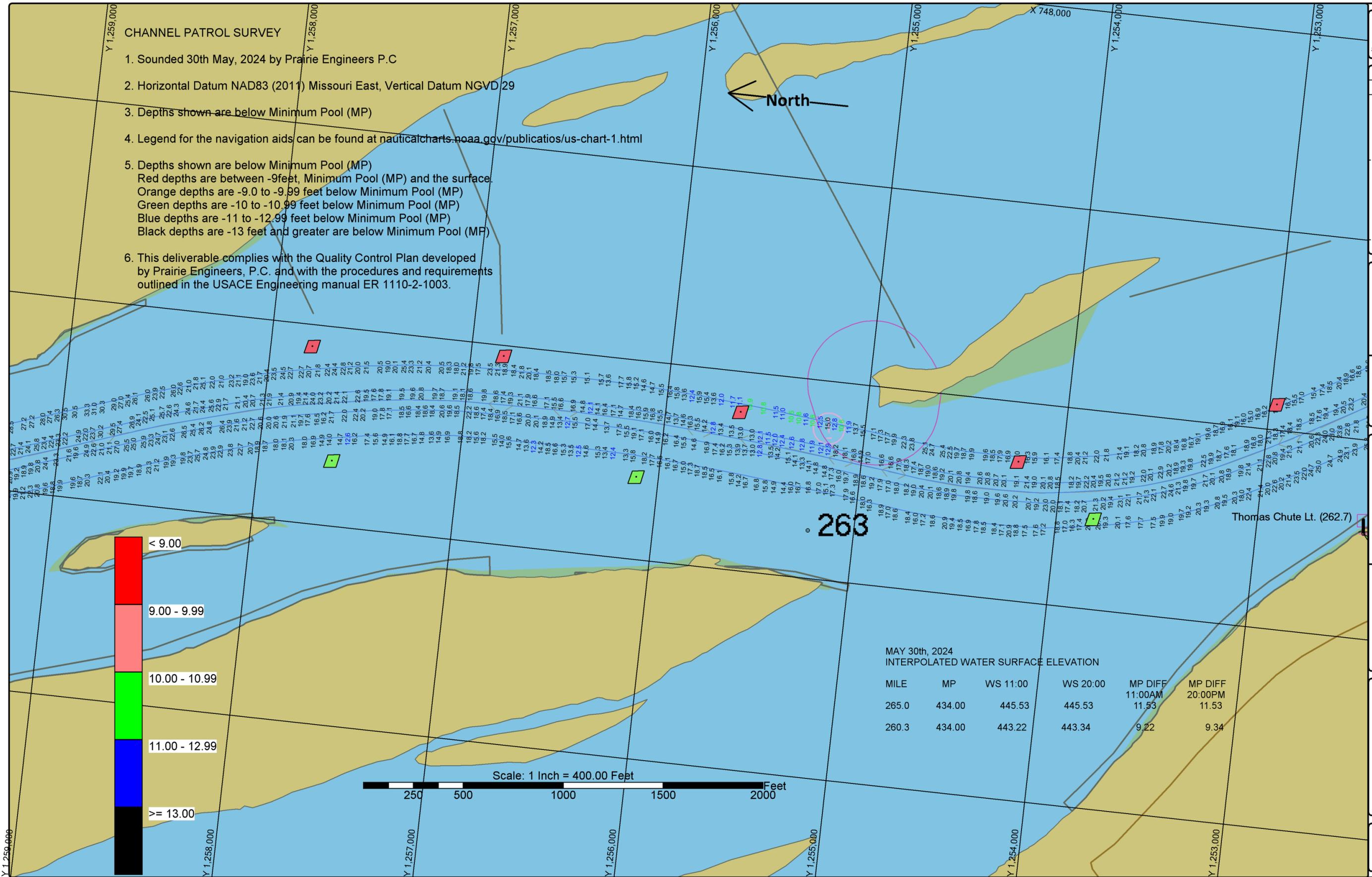
Thomas Chute Lower Lt. (262.1)

FIG 4s

Scale: 1 Inch = 400.00 Feet

MAY 30th, 2024 INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
265.0	434.00	445.53	445.53	11.53	11.53
260.3	434.00	443.22	443.34	9.22	9.34



CHANNEL PATROL SURVEY

- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
- Depths shown are below Minimum Pool (MP)
 Red depths are between -9feet, Minimum Pool (MP) and the surface.
 Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
 Green depths are -10 to -10.99 feet below Minimum Pool (MP)
 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MF)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



Gage Records 30th May 2024	
Mosier Ldg @ 1100hrs = 43.22ft	
Riprap @ 1100hrs = 19.5ft	
Mosier Ldg @ 2000hrs = 43.34ft	
Riprap @ 2000hrs = 19.5ft	

DATES OF SURVEY:	MAY 30th 2024
SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	
FILE NO.:	
REQUEST NO.:	

Approved: Abednego Nkem SENIOR PROJECT MANAGER
Approved: Tom Frerichs CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Lancer ASST. CHIEF OF SURVEY
Approved: Tristan Harper CHIEF OF SURVEY
Date: MAY 31 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 56

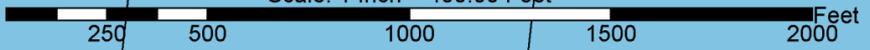
MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
265.0	434.00	445.53	445.53	11.53	11.53
260.3	434.00	443.22	443.34	9.22	9.34

Thomas Chute Lt. (262.7)

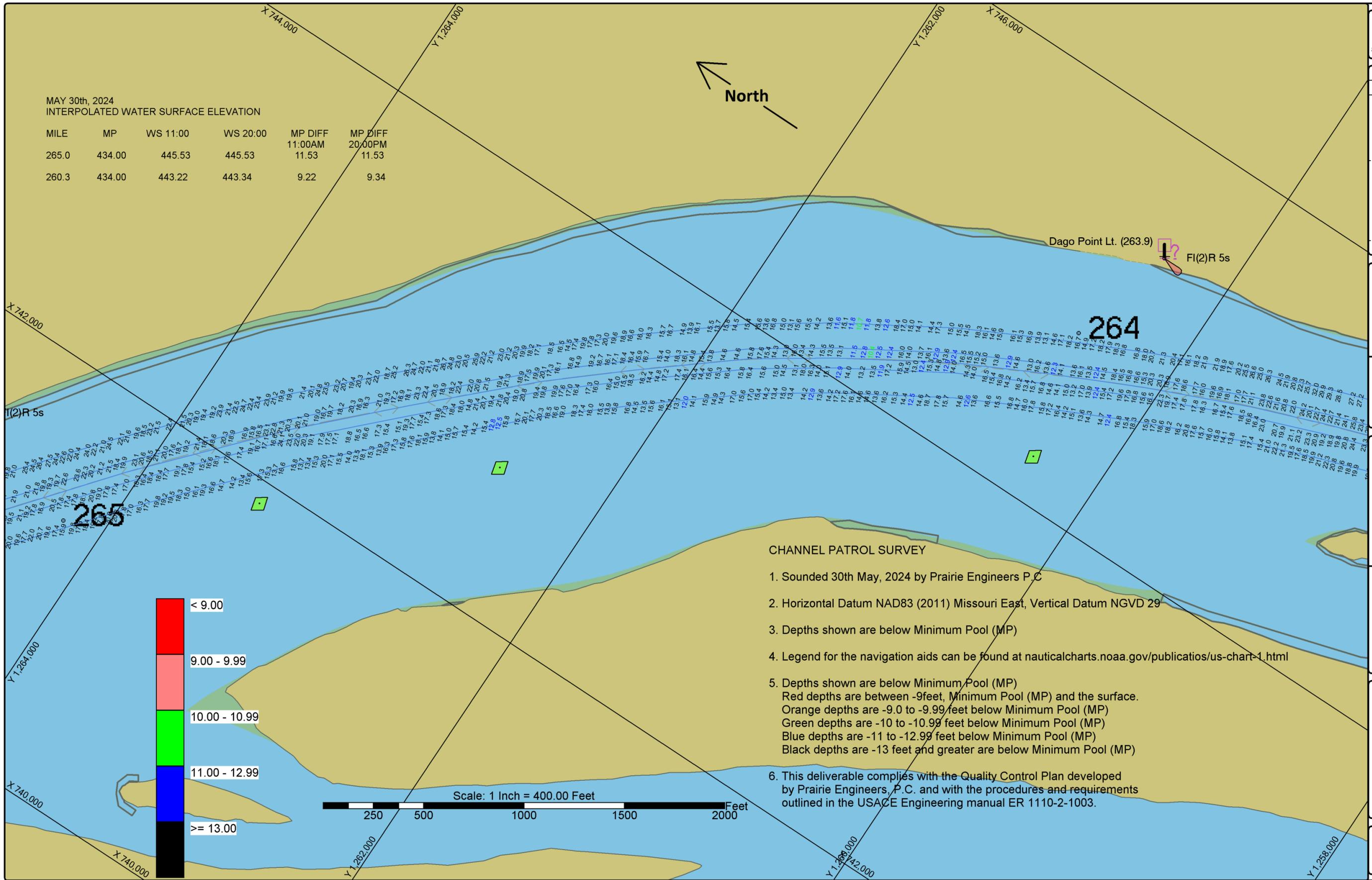
263

Scale: 1 Inch = 400.00 Feet



MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
265.0	434.00	445.53	445.53	11.53	11.53
260.3	434.00	443.22	443.34	9.22	9.34



North

ST. LOUIS

Gage Records 30th May 2024	
Mosier Ldg @ 1100hrs = 43.22ft	
Riprap @ 1100hrs = 19.5ft	
Mosier Ldg @ 2000hrs = 43.34ft	
Riprap @ 2000hrs = 19.5ft	

DATES OF SURVEY:
MAY 30th 2024

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:

FILE NO.:

REQUEST NO.:

Approved: Abednego Nkomo
RELAY CHIEF

Approved: Tom Frerichs
CIVIL ENGINEERING TECHNICIAN

Approved: Jarrett Lancer
ASST. CHIEF OF SURVEY

Approved: Tristan Harper
CHIEF OF SURVEY

Date: MAY 31, 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

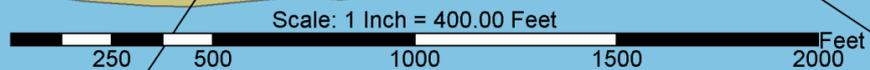
CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 57

CHANNEL PATROL SURVEY

- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
- Depths shown are below Minimum Pool (MP)
Red depths are between -9feet, Minimum Pool (MP) and the surface.
Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
Green depths are -10 to -10.99 feet below Minimum Pool (MP)
Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
Black depths are -13 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



CHANNEL PATROL SURVEY

1. Sounded 30th May, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
3. Depths shown are below Minimum Pool (MP)
4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
5. Depths shown are below Minimum Pool (MP)
 Red depths are between -9feet, Minimum Pool (MP) and the surface.
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 Green depths are -10 to -10.99 feet below Minimum Pool (MP)
 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MP)
6. This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



ST. LOUIS

Gage Records 30th May 2024	
Riprap @ 1100hrs = 19.5ft	
LD24(Lower) @ 1100hrs = 26.59ft	
Riprap @ 2000hrs = 19.5ft	
LD24(Lower) @ 2000hrs = 26.73ft	

DATES OF SURVEY:	
MAY 30th 2024	
FILE NO.:	
REQUEST NO.:	

SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	

Approved: Abdennour Nkomo SENIOR PROJECT MANAGER
Approved: Tom Frerichs CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Lancer ASST. CHIEF OF SURVEY
Approved: Tristan Harper CHIEF OF SURVEY
Date: MAY 31 2024

US ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI
SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL 62236

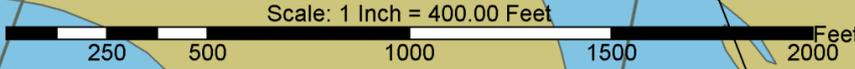
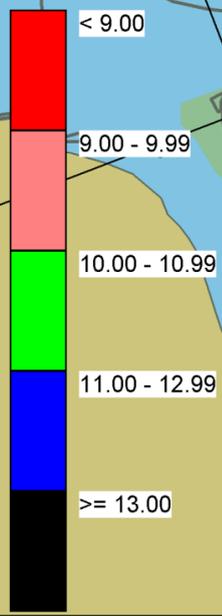
CHANNEL PATROL SURVEY OF UPPER MISSISSIPPI RIVER RIVER MILE 195.0 - 300.0

SHEET 58

North

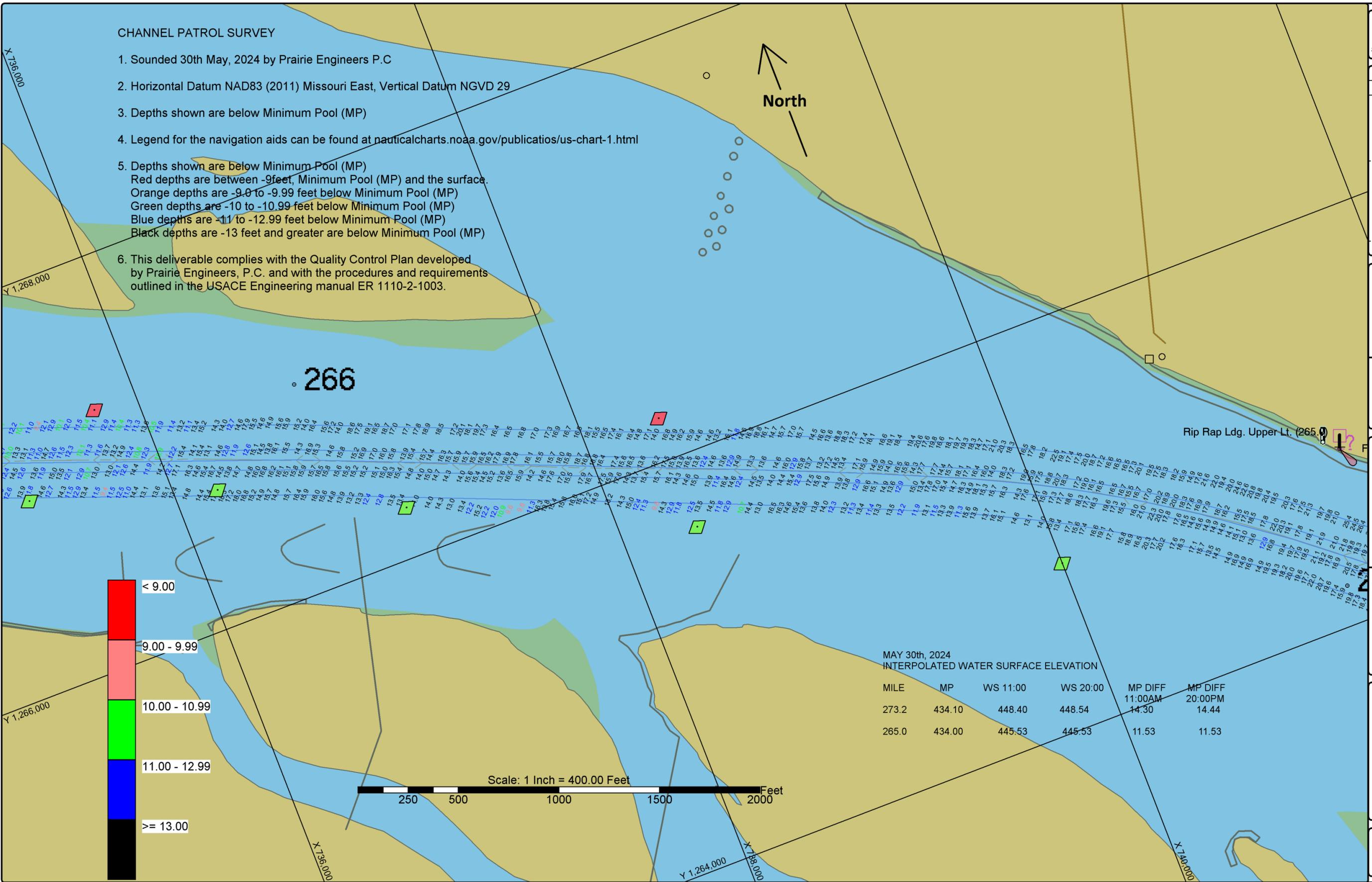
266

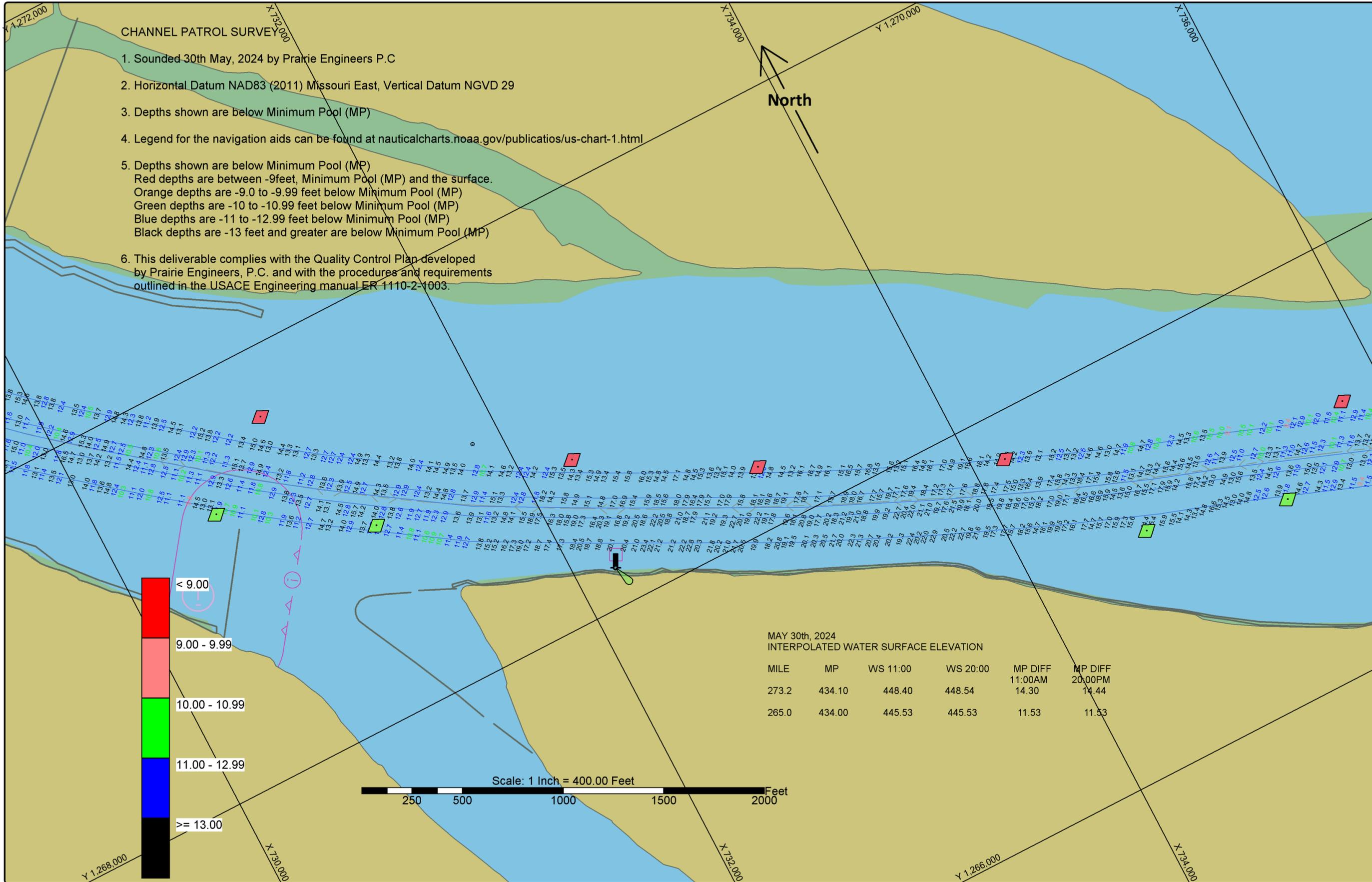
Rip Rap Ldg. Upper Lt. (265)



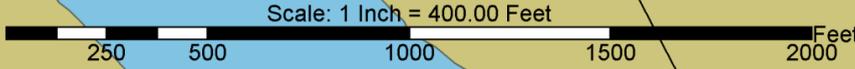
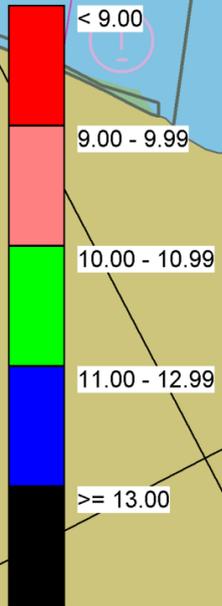
**MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION**

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
273.2	434.10	448.40	448.54	14.30	14.44
265.0	434.00	445.53	445.53	11.53	11.53





- CHANNEL PATROL SURVEY
- Sounded 30th May, 2024 by Prairie Engineers P.C
 - Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
 - Depths shown are below Minimum Pool (MP)
 - Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
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MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
273.2	434.10	448.40	448.54	14.30	14.44
265.0	434.00	445.53	445.53	11.53	11.53



Gage Records 30th May 2024	
Riprap @ 1100hrs = 19.5ft	
LD24(Lower) @ 1100hrs = 26.59ft	
Riprap @ 2000hrs = 19.5ft	
LD24(Lower) @ 2000hrs = 26.73ft	

DATES OF SURVEY:	MAY 30th 2024
SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	
FILE NO.:	
REQUEST NO.:	

Approved: Abednego Nkem SUPERVISOR
Approved: Tom Frerichs CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Lancer ASST. CHIEF OF SURVEY
Approved: Tristan Harper CHIEF OF SURVEY
Date: MAY 31, 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0



ST. LOUIS

MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
273.2	434.10	448.40	448.54	14.30	14.44
265.0	434.00	445.53	445.53	11.53	11.53



Y 1,276,000

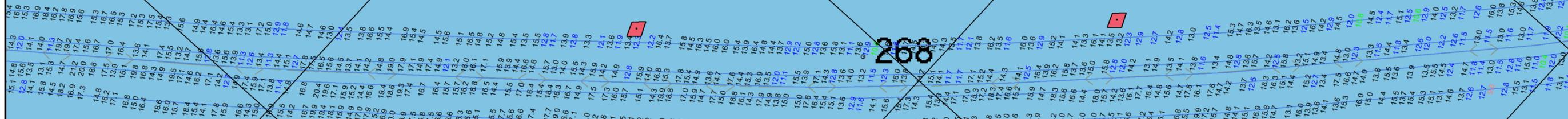
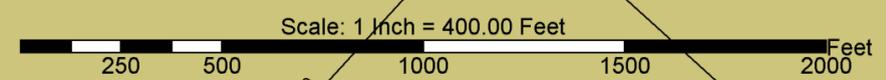
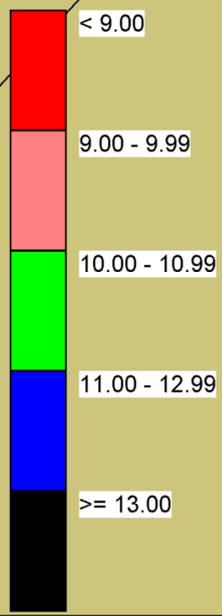
X 726,000

Y 1,274,000

X 724,000

X 724,000

Y 1,272,000



CHANNEL PATROL SURVEY

- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
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Gage Records 30th May 2024	
Riprap @ 1100hrs = 19.5ft	
LD24(Lower) @ 1100hrs = 26.59ft	
Riprap @ 2000hrs = 19.5ft	
LD24(Lower) @ 2000hrs = 26.73ft	

DATES OF SURVEY: MAY 30th 2024	FILE NO.:
SCALE: ONE INCH = 400 FEET	REQUEST NO.:
FIELD BOOKS:	

Approved: **Abednego Nkem**
CHIEF OF SURVEY

Approved: **Tom Frerichs**
CHIEF ENGINEERING TECHNICIAN

Approved: **Jarrett Lancer**
ASST. CHIEF OF SURVEY

Approved: **Tristan Harper**
CHIEF OF SURVEY

Date: MAY 31, 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER
RIVER MILE 195.0 - 300.0

SHEET 60



ST. LOUIS



MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
273.2	434.10	448.40	448.54	14.30	14.44
265.0	434.00	445.53	445.53	11.53	11.53

Gage Records 30th May 2024	
Riprap @ 1100hrs = 19.5ft	
LD24(Lower) @ 1100hrs = 26.59ft	
Riprap @ 2000hrs = 19.5ft	
LD24(Lower) @ 2000hrs = 26.73ft	

DATES OF SURVEY:	MAY 30th 2024
FILE NO.:	
REQUEST NO.:	

SCALE:	ONE INCH = 400 FEET
FIELD BOOKS:	

Approved: Abednego Nkem REGISTERED PROFESSIONAL ENGINEER
Approved: Tom Frerichs CIVIL ENGINEERING TECHNICIAN
Approved: Jarrett Lancer ASST. CHIEF OF SURVEY
Approved: Tristan Harper CHIEF OF SURVEY
Date: MAY 31, 2024

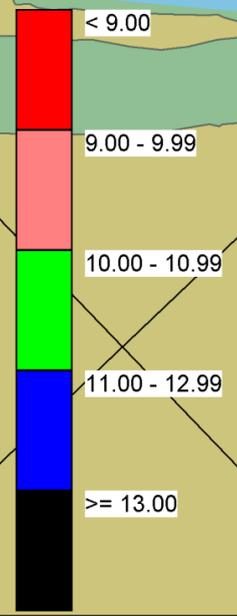
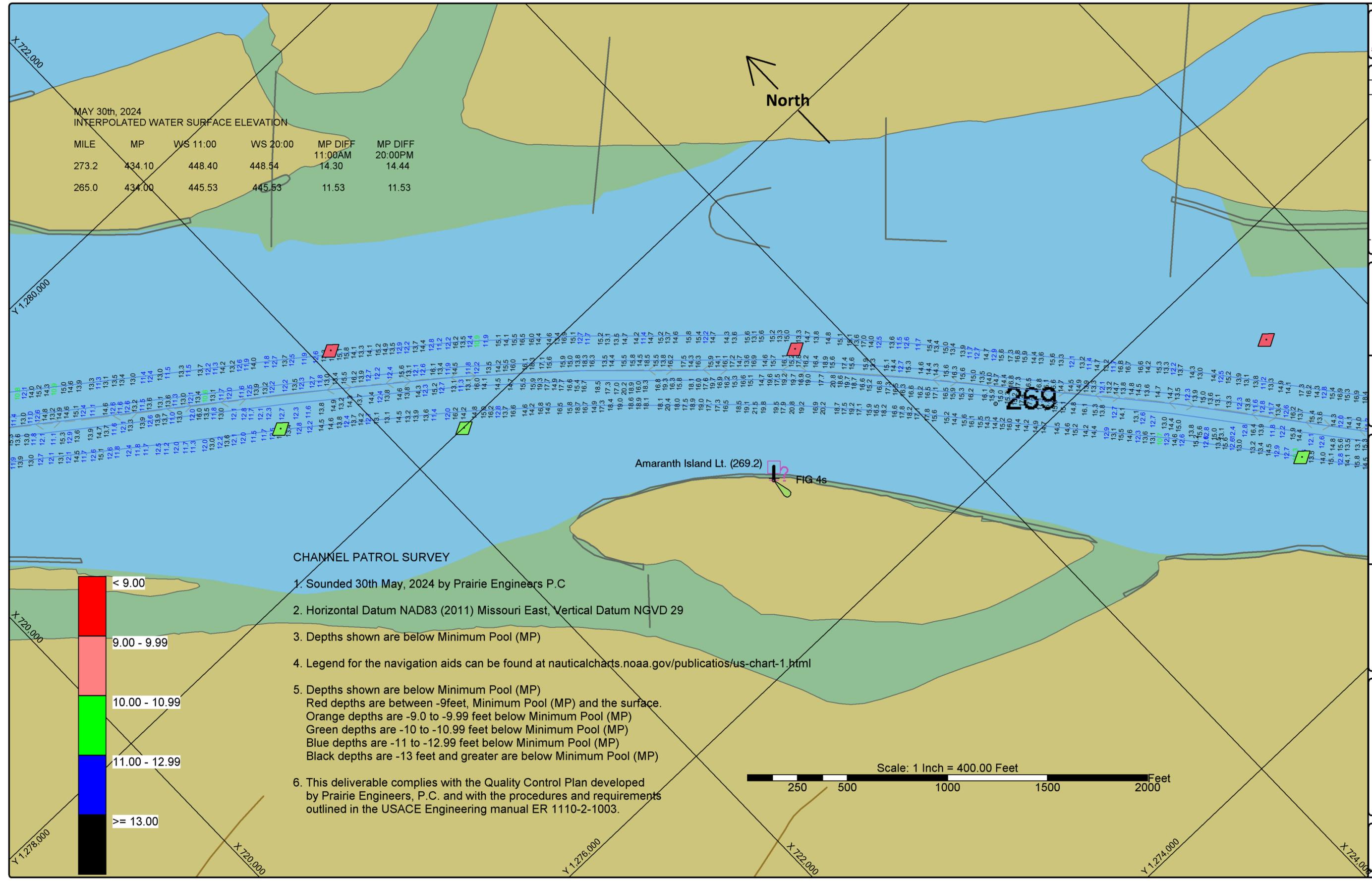
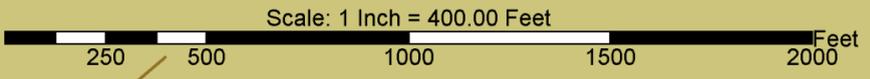
US ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI
SURVEYED BY PRAIRIE ENGINEERS, P.C. 404 N. MAIN STREET COLUMBIA, IL 62236

CHANNEL PATROL SURVEY OF UPPER MISSISSIPPI RIVER RIVER MILE 195.0 - 300.0

SHEET 61

CHANNEL PATROL SURVEY

- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
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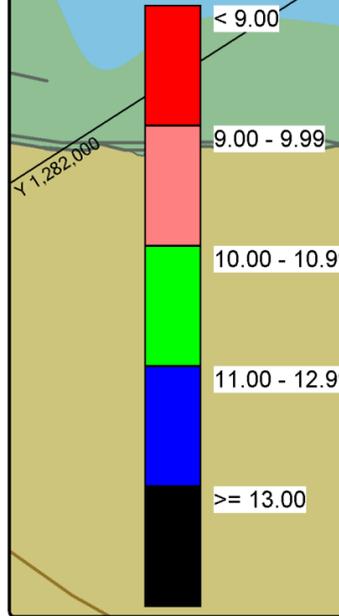
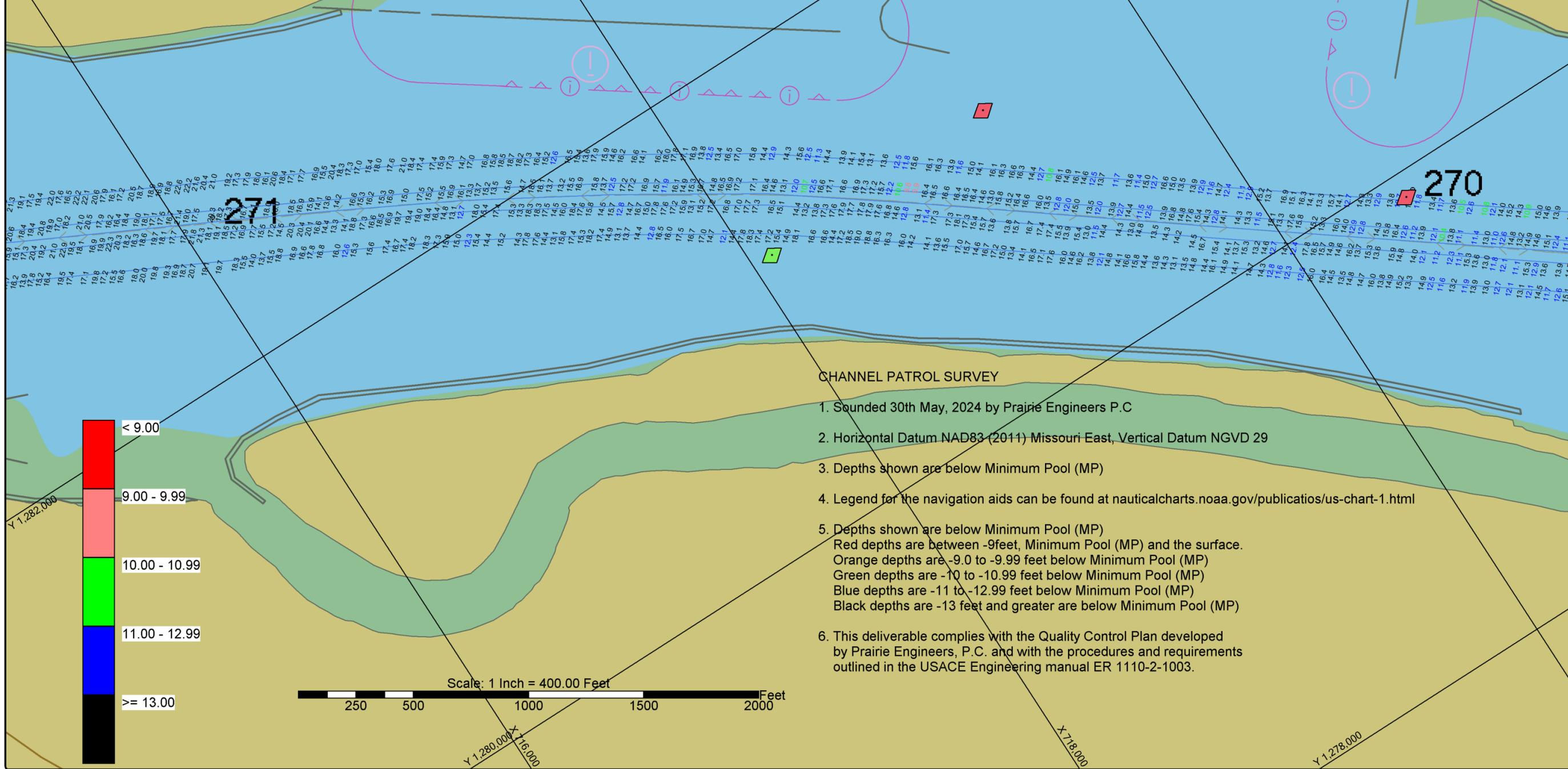
ST. LOUIS

MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
273.2	434.10	448.40	448.54	14.30	14.44
265.0	434.00	445.53	445.53	11.53	11.53

North

X 116284.000
Y 1165.000



Scale: 1 Inch = 400.00 Feet



CHANNEL PATROL SURVEY

1. Sounded 30th May, 2024 by Prairie Engineers P.C
2. Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
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4. Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
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DATES OF SURVEY: MAY 30TH 2024	FILE NO.:
SCALE: ONE INCH = 400 FEET	REQUEST NO.:
FIELD BOOKS:	

Approved: Abednego Nkem SURVEYING ENGINEER	Date: MAY 31 2024
Approved: Tom Frerichs CIVIL ENGINEERING TECHNICIAN	
Approved: Jarrett Lancer ASST. CHIEF OF SURVEY	
Approved: Tristan Harper CHIEF OF SURVEY	

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

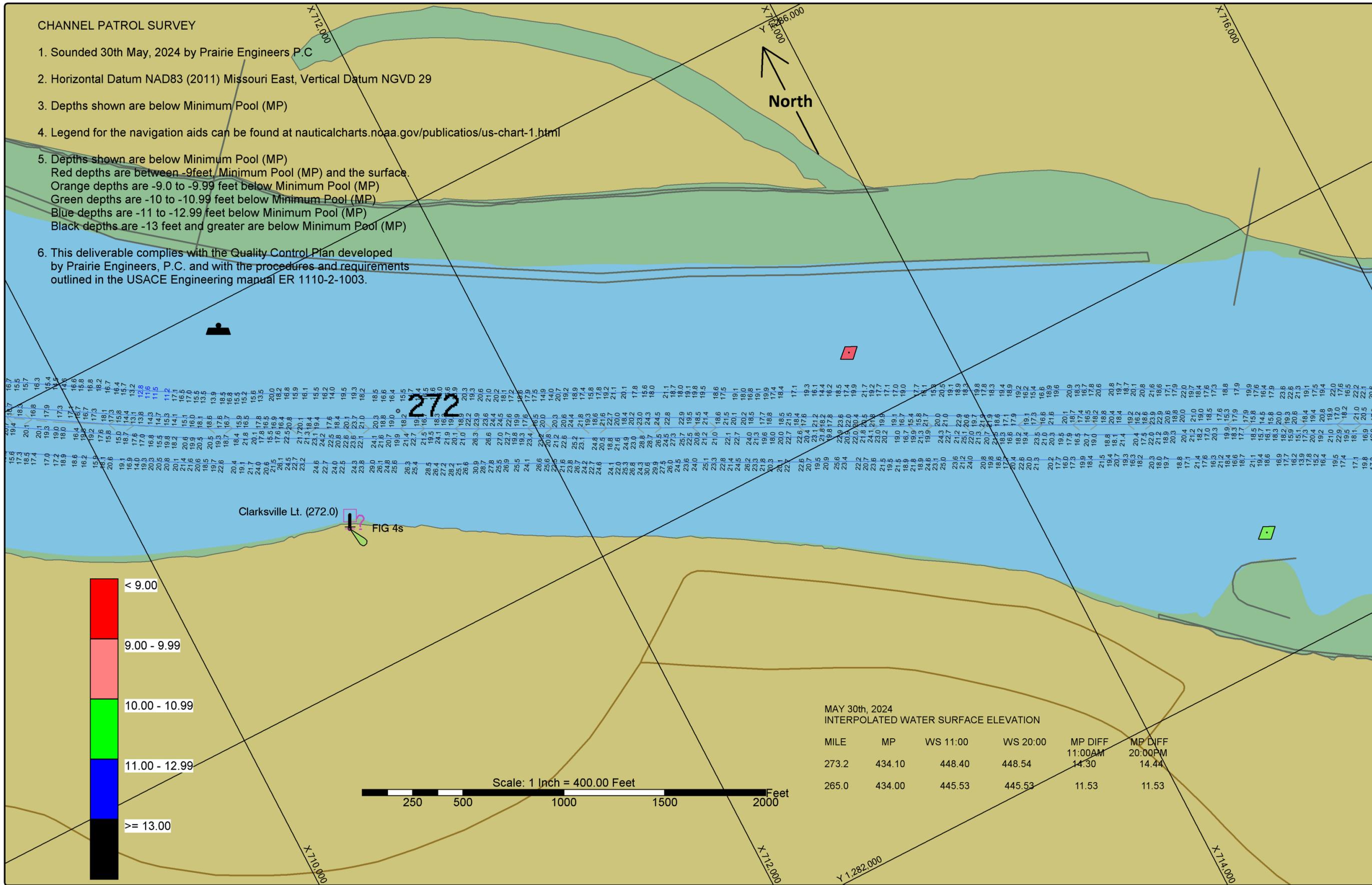
SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

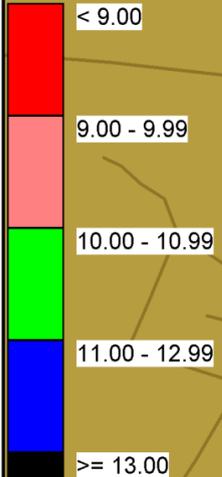
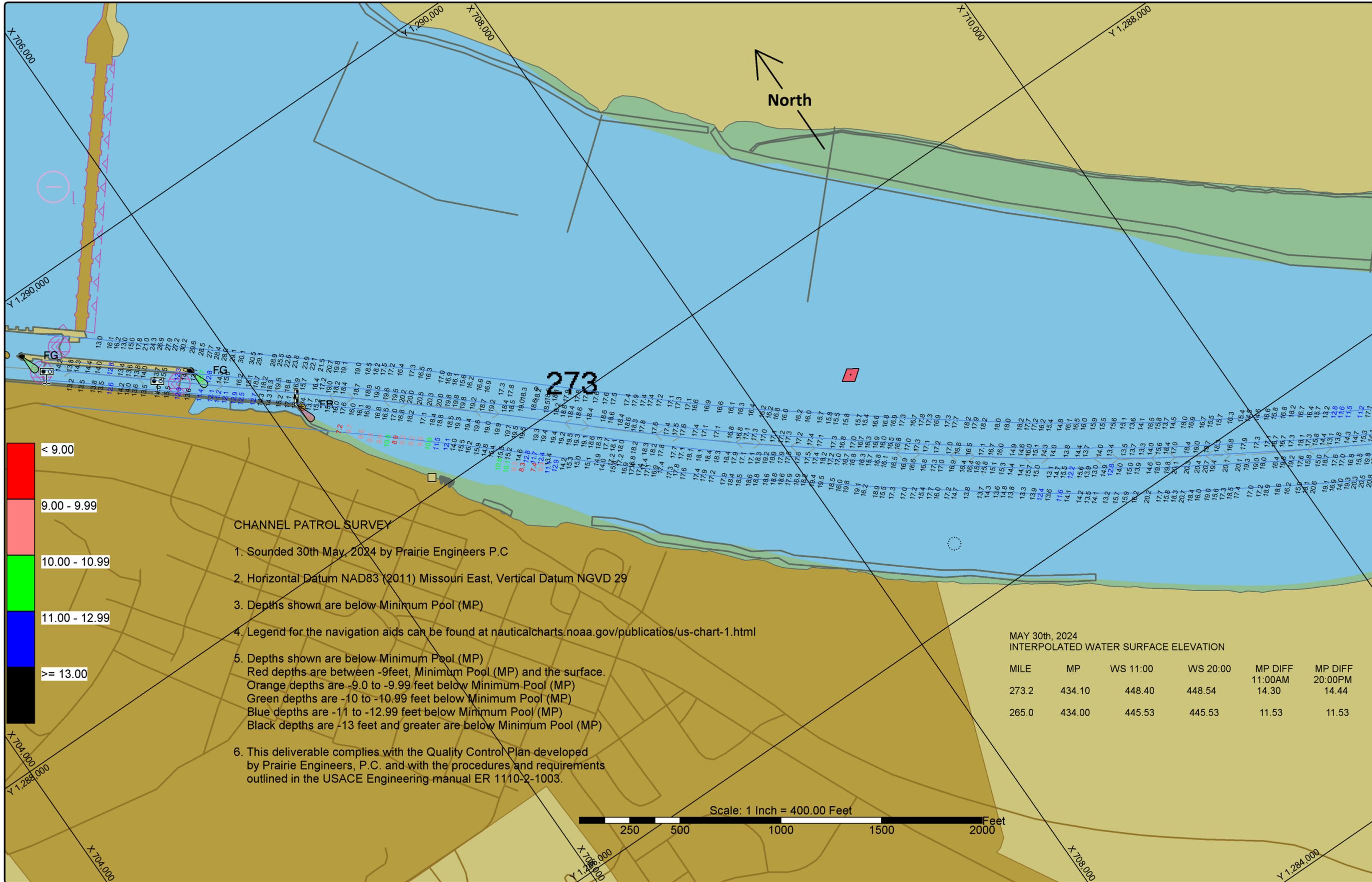
RIVER MILE 195.0 - 300.0

CHANNEL PATROL SURVEY

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- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
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 Black depths are -13 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



15.9	15.8	15.7	15.6	15.5	15.4	15.3	15.2	15.1	15.0	14.9	14.8	14.7	14.6	14.5	14.4	14.3	14.2	14.1	14.0	13.9	13.8	13.7	13.6	13.5	13.4	13.3	13.2	13.1	13.0	12.9	12.8	12.7	12.6	12.5	12.4	12.3	12.2	12.1	12.0	11.9	11.8	11.7	11.6	11.5	11.4	11.3	11.2	11.1	11.0	10.9	10.8	10.7	10.6	10.5	10.4	10.3	10.2	10.1	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0	-2.1	-2.2	-2.3	-2.4	-2.5	-2.6	-2.7	-2.8	-2.9	-3.0	-3.1	-3.2	-3.3	-3.4	-3.5	-3.6	-3.7	-3.8	-3.9	-4.0	-4.1	-4.2	-4.3	-4.4	-4.5	-4.6	-4.7	-4.8	-4.9	-5.0	-5.1	-5.2	-5.3	-5.4	-5.5	-5.6	-5.7	-5.8	-5.9	-6.0	-6.1	-6.2	-6.3	-6.4	-6.5	-6.6	-6.7	-6.8	-6.9	-7.0	-7.1	-7.2	-7.3	-7.4	-7.5	-7.6	-7.7	-7.8	-7.9	-8.0	-8.1	-8.2	-8.3	-8.4	-8.5	-8.6	-8.7	-8.8	-8.9	-9.0	-9.1	-9.2	-9.3	-9.4	-9.5	-9.6	-9.7	-9.8	-9.9	-10.0	-10.1	-10.2	-10.3	-10.4	-10.5	-10.6	-10.7	-10.8	-10.9	-11.0	-11.1	-11.2	-11.3	-11.4	-11.5	-11.6	-11.7	-11.8	-11.9	-12.0	-12.1	-12.2	-12.3	-12.4	-12.5	-12.6	-12.7	-12.8	-12.9	-13.0	-13.1	-13.2	-13.3	-13.4	-13.5	-13.6	-13.7	-13.8	-13.9	-14.0	-14.1	-14.2	-14.3	-14.4	-14.5	-14.6	-14.7	-14.8	-14.9	-15.0	-15.1	-15.2	-15.3	-15.4	-15.5	-15.6	-15.7	-15.8	-15.9	-16.0	-16.1	-16.2	-16.3	-16.4	-16.5	-16.6	-16.7	-16.8	-16.9	-17.0	-17.1	-17.2	-17.3	-17.4	-17.5	-17.6	-17.7	-17.8	-17.9	-18.0	-18.1	-18.2	-18.3	-18.4	-18.5	-18.6	-18.7	-18.8	-18.9	-19.0	-19.1	-19.2	-19.3	-19.4	-19.5	-19.6	-19.7	-19.8	-19.9	-20.0	-20.1	-20.2	-20.3	-20.4	-20.5	-20.6	-20.7	-20.8	-20.9	-21.0	-21.1	-21.2	-21.3	-21.4	-21.5	-21.6	-21.7	-21.8	-21.9	-22.0	-22.1	-22.2	-22.3	-22.4	-22.5	-22.6	-22.7	-22.8	-22.9	-23.0	-23.1	-23.2	-23.3	-23.4	-23.5	-23.6	-23.7	-23.8	-23.9	-24.0	-24.1	-24.2	-24.3	-24.4	-24.5	-24.6	-24.7	-24.8	-24.9	-25.0	-25.1	-25.2	-25.3	-25.4	-25.5	-25.6	-25.7	-25.8	-25.9	-26.0	-26.1	-26.2	-26.3	-26.4	-26.5	-26.6	-26.7	-26.8	-26.9	-27.0	-27.1	-27.2	-27.3	-27.4	-27.5	-27.6	-27.7	-27.8	-27.9	-28.0	-28.1	-28.2	-28.3	-28.4	-28.5	-28.6	-28.7	-28.8	-28.9	-29.0	-29.1	-29.2	-29.3	-29.4	-29.5	-29.6	-29.7	-29.8	-29.9	-30.0	-30.1	-30.2	-30.3	-30.4	-30.5	-30.6	-30.7	-30.8	-30.9	-31.0	-31.1	-31.2	-31.3	-31.4	-31.5	-31.6	-31.7	-31.8	-31.9	-32.0	-32.1	-32.2	-32.3	-32.4	-32.5	-32.6	-32.7	-32.8	-32.9	-33.0	-33.1	-33.2	-33.3	-33.4	-33.5	-33.6	-33.7	-33.8	-33.9	-34.0	-34.1	-34.2	-34.3	-34.4	-34.5	-34.6	-34.7	-34.8	-34.9	-35.0	-35.1	-35.2	-35.3	-35.4	-35.5	-35.6	-35.7	-35.8	-35.9	-36.0	-36.1	-36.2	-36.3	-36.4	-36.5	-36.6	-36.7	-36.8	-36.9	-37.0	-37.1	-37.2	-37.3	-37.4	-37.5	-37.6	-37.7	-37.8	-37.9	-38.0	-38.1	-38.2	-38.3	-38.4	-38.5	-38.6	-38.7	-38.8	-38.9	-39.0	-39.1	-39.2	-39.3	-39.4	-39.5	-39.6	-39.7	-39.8	-39.9	-40.0	-40.1	-40.2	-40.3	-40.4	-40.5	-40.6	-40.7	-40.8	-40.9	-41.0	-41.1	-41.2	-41.3	-41.4	-41.5	-41.6	-41.7	-41.8	-41.9	-42.0	-42.1	-42.2	-42.3	-42.4	-42.5	-42.6	-42.7	-42.8	-42.9	-43.0	-43.1	-43.2	-43.3	-43.4	-43.5	-43.6	-43.7	-43.8	-43.9	-44.0	-44.1	-44.2	-44.3	-44.4	-44.5	-44.6	-44.7	-44.8	-44.9	-45.0	-45.1	-45.2	-45.3	-45.4	-45.5	-45.6	-45.7	-45.8	-45.9	-46.0	-46.1	-46.2	-46.3	-46.4	-46.5	-46.6	-46.7	-46.8	-46.9	-47.0	-47.1	-47.2	-47.3	-47.4	-47.5	-47.6	-47.7	-47.8	-47.9	-48.0	-48.1	-48.2	-48.3	-48.4	-48.5	-48.6	-48.7	-48.8	-48.9	-49.0	-49.1	-49.2	-49.3	-49.4	-49.5	-49.6	-49.7	-49.8	-49.9	-50.0	-50.1	-50.2	-50.3	-50.4	-50.5	-50.6	-50.7	-50.8	-50.9	-51.0	-51.1	-51.2	-51.3	-51.4	-51.5	-51.6	-51.7	-51.8	-51.9	-52.0	-52.1	-52.2	-52.3	-52.4	-52.5	-52.6	-52.7	-52.8	-52.9	-53.0	-53.1	-53.2	-53.3	-53.4	-53.5	-53.6	-53.7	-53.8	-53.9	-54.0	-54.1	-54.2	-54.3	-54.4	-54.5	-54.6	-54.7	-54.8	-54.9	-55.0	-55.1	-55.2	-55.3	-55.4	-55.5	-55.6	-55.7	-55.8	-55.9	-56.0	-56.1	-56.2	-56.3	-56.4	-56.5	-56.6	-56.7	-56.8	-56.9	-57.0	-57.1	-57.2	-57.3	-57.4	-57.5	-57.6	-57.7	-57.8	-57.9	-58.0	-58.1	-58.2	-58.3	-58.4	-58.5	-58.6	-58.7	-58.8	-58.9	-59.0	-59.1	-59.2	-59.3	-59.4	-59.5	-59.6	-59.7	-59.8	-59.9	-60.0	-60.1	-60.2	-60.3	-60.4	-60.5	-60.6	-60.7	-60.8	-60.9	-61.0	-61.1	-61.2	-61.3	-61.4	-61.5	-61.6	-61.7	-61.8	-61.9	-62.0	-62.1	-62.2	-62.3	-62.4	-62.5	-62.6	-62.7	-62.8	-62.9	-63.0	-63.1	-63.2	-63.3	-63.4	-63.5	-63.6	-63.7	-63.8	-63.9	-64.0	-64.1	-64.2	-64.3	-64.4	-64.5	-64.6	-64.7	-64.8	-64.9	-65.0	-65.1	-65.2	-65.3	-65.4	-65.5	-65.6	-65.7	-65.8	-65.9	-66.0	-66.1	-66.2	-66.3	-66.4	-66.5	-66.6	-66.7	-66.8	-66.9	-67.0	-67.1	-67.2	-67.3	-67.4	-67.5	-67.6	-67.7	-67.8	-67.9	-68.0	-68.1	-68.2	-68.3	-68.4	-68.5	-68.6	-68.7	-68.8	-68.9	-69.0	-69.1	-69.2	-69.3	-69.4	-69.5	-69.6	-69.7	-69.8	-69.9	-70.0	-70.1	-70.2	-70.3	-70.4	-70.5	-70.6	-70.7	-70.8	-70.9	-71.0	-71.1	-71.2	-71.3	-71.4	-71.5	-71.6	-71.7	-71.8	-71.9	-72.0	-72.1	-72.2	-72.3	-72.4	-72.5	-72.6	-72.7	-72.8	-72.9	-73.0	-73.1	-73.2	-73.3	-73.4	-73.5	-73.6	-73.7	-73.8	-73.9	-74.0	-74.1	-74.2	-74.3	-74.4	-74.5	-74.6	-74.7	-74.8	-74.9	-75.0	-75.1	-75.2	-75.3	-75.4	-75.5	-75.6	-75.7	-75.8	-75.9	-76.0	-76.1	-76.2	-76.3	-76.4	-76.5	-76.6	-76.7	-76.8	-76.9	-77.0	-77.1	-77.2	-77.3	-77.4	-77.5	-77.6	-77.7	-77.8	-77.9	-78.0	-78.1	-78.2	-78.3	-78.4	-78.5	-78.6	-78.7	-78.8	-78.9	-79.0	-79.1	-79.2	-79.3	-79.4	-79.5	-79.6	-79.7	-79.8	-79.9	-80.0	-80.1	-80.2	-80.3	-80.4	-80.5	-80.6	-80.7	-80.8	-80.9	-81.0	-81.1	-81.2	-81.3	-81.4	-81.5	-81.6	-81.7	-81.8	-81.9	-82.0	-82.1	-82.2	-82.3	-82.4	-82.5	-82.6	-82.7	-82.8	-82.9	-83.0	-83.1	-83.2	-83.3	-83.4	-83.5	-83.6	-83.7	-83.8	-83.9	-84.0	-84.1	-84.2	-84.3	-84.4	-84.5	-84.6	-84.7	-84.8	-84.9	-85.0	-85.1	-85.2	-85.3	-85.4	-85.5	-85.6	-85.7	-85.8	-85.9	-86.0	-86.1	-86.2	-86.3	-86.4	-86.5	-86.6	-86.7	-86.8	-86.9	-87.0	-87.1	-87.2	-87.3	-87.4	-87.5	-87.6	-87.7	-87.8	-87.9	-88.0	-88.1	-88.2	-88.3	-88.4	-88.5	-88.6	-88.7	-88.8	-88.9	-89.0	-89.1	-89.2	-89.3	-89.4	-89.5	-89.6	-89.7	-89.8	-89.9	-90.0	-90.1	-90.2	-90.3	-90.4	-90.5	-90.6	-90.7	-90.8	-90.9	-91.0	-91.1	-91.2	-91.3	-91.4	-91.5	-91.6	-91.7	-91.8	-91.9	-92.0	-92.1	-92.2	-92.3	-92.4	-92.5	-92.6	-92.7	-92.8	-92.9	-93.0	-93.1	-93.2	-93.3	-93.4	-93.5	-93.6	-93.7	-93.8	-93.9	-94.0	-94.1	-94.2	-94.3	-94.4	-94.5	-94.6	-94.7	-94.8	-94.9	-95.0	-95.1	-95.2	-95.3	-95.4	-95.5	-95.6	-95.7	-95.8	-95.9	-96.0	-96.1	-96.2	-96.3	-96.4	-96.5	-96.6	-96.7	-96.8	-96.9	-97.0	-97.1	-97.2	-97.3	-97.4	-97.5	-97.6	-97.7	-97.8	-97.9	-98.0	-98.1	-98.2	-98.3	-98.4	-98.5	-98.6	-98.7	-98.8	-98.9	-99.0	-99.1	-99.2	-99.3	-99.4	-99.5	-99.6	-99.7	-99.8	-99.9	-100.0	-100.1	-100.2	-100.3	-100.4	-100.5	-100.6	-100.7	-100.8	-100.9	-101.0	-101.1	-101.2	-101.3	-101.4	-101.5	-101.6	-101.7	-101.8	-101.9	-102.0	-102.1	-102.2	-102.3	-102.4	-102.5	-102.6	-102.7	-102.8	-102.9	-103.0	-103.1	-103.2	-103.3	-103.4	-103.5	-103.6	-103.7	-103.8	-103.9	-104.0	-104.1	-104.2	-104.3	-104.4	-104.5	-104.6	-104.7	-104.8	-104.9	-105.0	-105.1	-105.2	-105.3	-105.4	-105.5	-105.6	-105.7	-105.8	-105.9	-106.0	-106.1	-106.2	-106.3	-106.4	-106.5	-106.6	-106.7	-106.8	-106.9	-107.0	-107.1	-107.2	-107.3	-107.4	-107.5	-107.6	-107.7	-107.8	-107.9	-108.0	-108.1	-108.2	-108.3	-108.4	-108.5	-108.6	-108.7	-108.8	-108.9	-109.0	-109.1	-109.2	-109.3	-109.4	-109.5	-109.6	-109.7	-109.8	-109.9	-110.0	-110.1	-110.2	-110.3	-110.4	-110.5	-110.6	-110.7	-110.8	-110.9	-111.0	-111.1	-111.2	-111.3	-111.4	-111.5	-111.6	-111.7	-111.8	-111.9	-112.0	-112.1	-112.2	-112.3	-112.4	-112.5	-112.6	-112.7	-112.8	-112.9	-113.0	-113.1	-113.2	-113.3	-113.4	-113.5	-113.6	-113.7	-113.8	-113.9	-114.0	-114.1	-114.2	-114.3	-114.4	-114.5	-114.6	-114.7	-114.8	-114.9	-115.0	-115.1	-115.2	-115.3	-115.4	-115.5	-115.6	-115.7	-115.8	-115.9	-116.0	-116.1</
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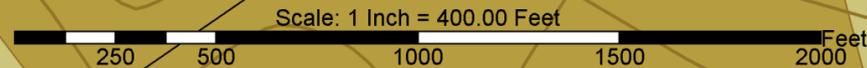


CHANNEL PATROL SURVEY

- Sounded 30th May, 2024 by Prairie Engineers P.C
- Horizontal Datum NAD83 (2011) Missouri East, Vertical Datum NGVD 29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at nauticalcharts.noaa.gov/publications/us-chart-1.html
- Depths shown are below Minimum Pool (MP)
 Red depths are between -9feet, Minimum Pool (MP) and the surface.
 Orange depths are -9.0 to -9.99 feet below Minimum Pool (MP)
 Green depths are -10 to -10.99 feet below Minimum Pool (MP)
 Blue depths are -11 to -12.99 feet below Minimum Pool (MP)
 Black depths are -13 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

**MAY 30th, 2024
INTERPOLATED WATER SURFACE ELEVATION**

MILE	MP	WS 11:00	WS 20:00	MP DIFF 11:00AM	MP DIFF 20:00PM
273.2	434.10	448.40	448.54	14.30	14.44
265.0	434.00	445.53	445.53	11.53	11.53



ST. LOUIS

Gage Records 30th May 2024
 Riprap @ 1100hrs = 19.5ft
 LD24(Lower) @ 1100hrs = 26.59ft
 Riprap @ 2000hrs = 19.5ft
 LD24(Lower) @ 2000hrs = 26.73ft

DATES OF SURVEY:
MAY 30th 2024

FILE NO.:

REQUEST NO.:

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:

Approved: **Abednego Nkem**
DEVELOPMENT MANAGER

Approved: **Tom Frerichs**
CIVIL ENGINEERING TECHNICIAN

Approved: **Jarrett Lancer**
ASST. CHIEF OF SURVEY

Approved: **Tristan Harper**
CHIEF OF SURVEY

Date: MAY 31, 2024

US ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY
PRAIRIE ENGINEERS, P.C.
404 N. MAIN STREET
COLUMBIA, IL 62236

CHANNEL PATROL SURVEY
OF UPPER MISSISSIPPI RIVER

RIVER MILE 195.0 - 300.0

SHEET 64