

2022 CHANNEL MAINTENANCE DREDGING

DREDGE SEASON AAR
JULY 2022 – FEB 2023

Mississippi Managers Meeting
February 2023

Lance A. Engle
Dredging Project Manager
St. Louis District



**US Army Corps
of Engineers®**





AGENDA



- Mission & Projects
- Hydrograph
- Surveys Efforts
- Dredge Utilization / Quantities
- Channel Availability Review
- Outlook



CORPS NAVIGATION MISSION



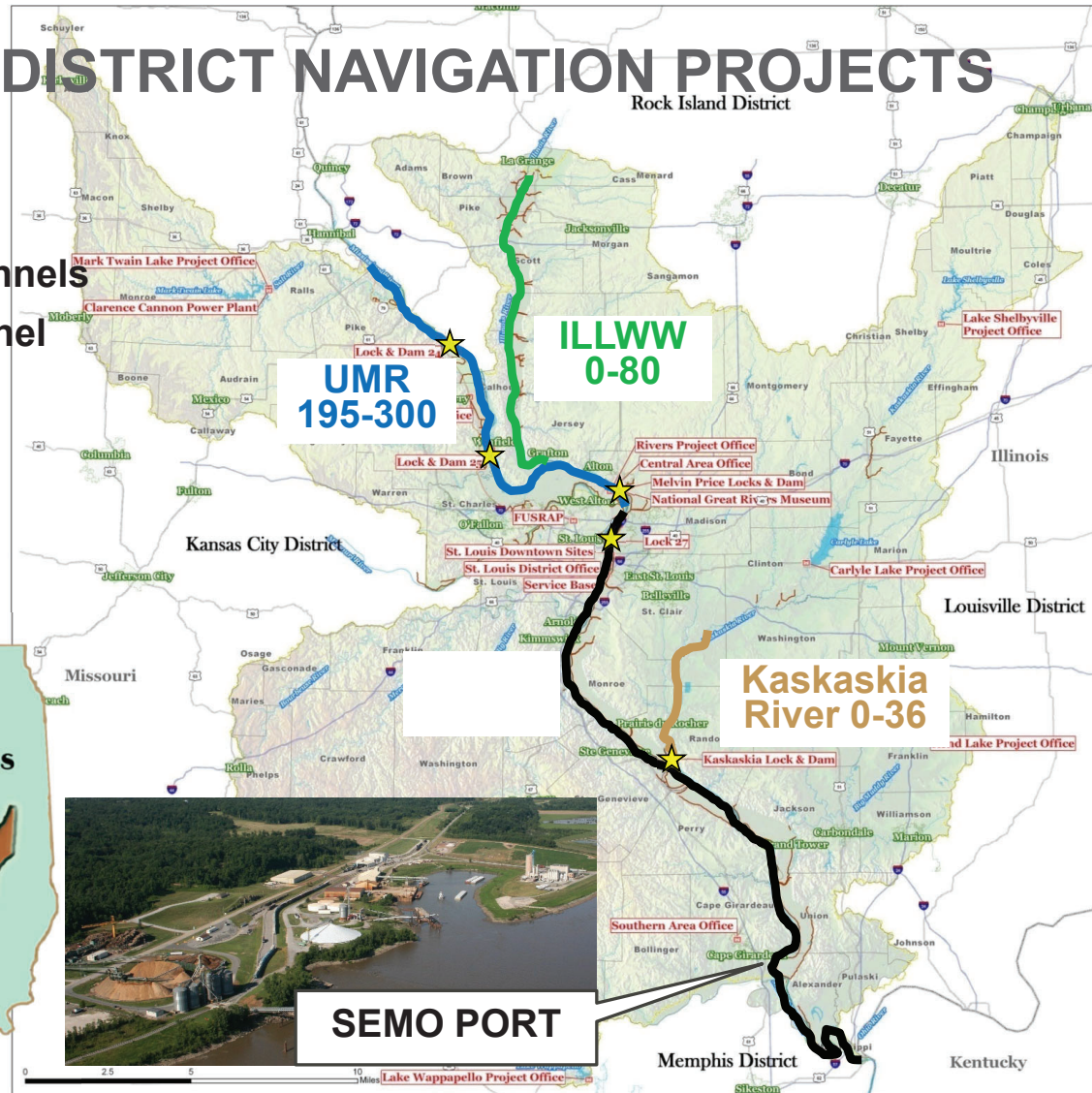
Provide safe, reliable, efficient, effective and environmentally sustainable waterborne transportation systems for movement of commerce, national security needs, and recreation.





ST LOUIS DISTRICT NAVIGATION PROJECTS

- 5 lock & dam sites★
- 5 authorized navigation channels
- 416 miles of navigable channel

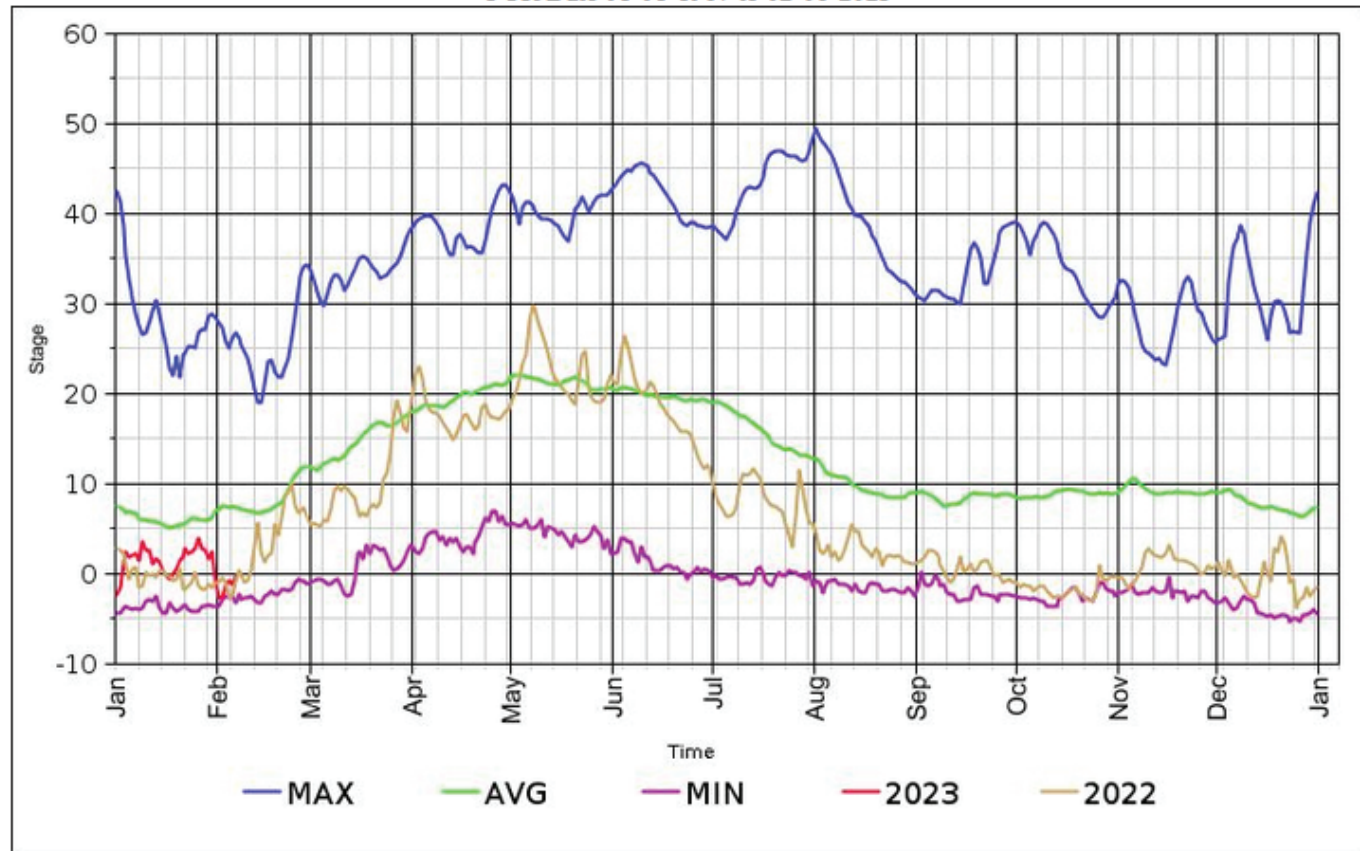




UMR Hydrograph at St Louis

Mississippi River at St. Louis - Stage (St Louis-Mississippi.Stage.Inst.~1Day.0.datman-rev)

POR Date 01-01-1967 to 02-06-2023



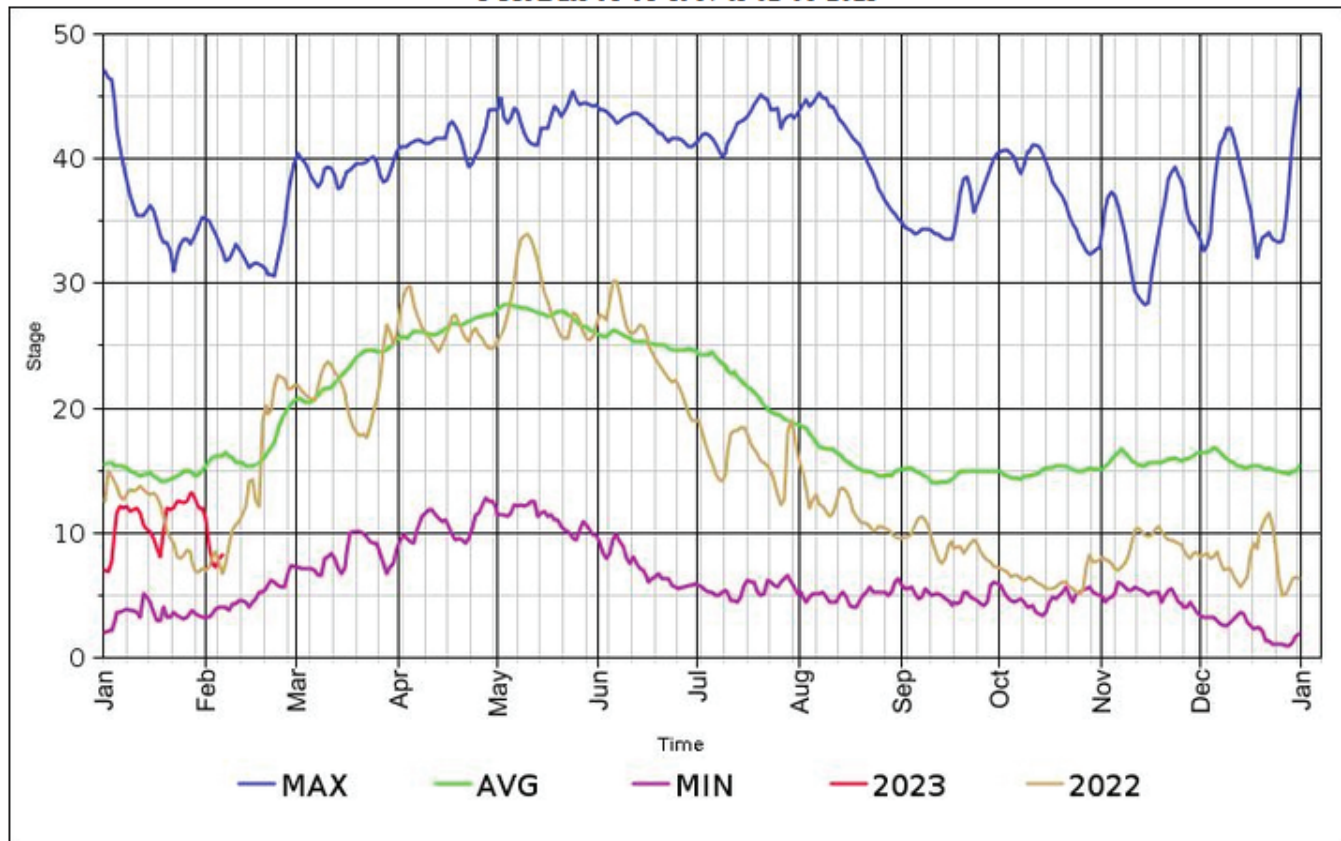
LWRP = -3.2
9-ft Auth = 40k cfs



UMR Hydrograph at Thebes

Mississippi River at Thebes - Stage (Thebes-Mississippi.Stage.Inst.-1Day.0.datman-rev)

POR Date 01-01-1967 to 02-06-2023



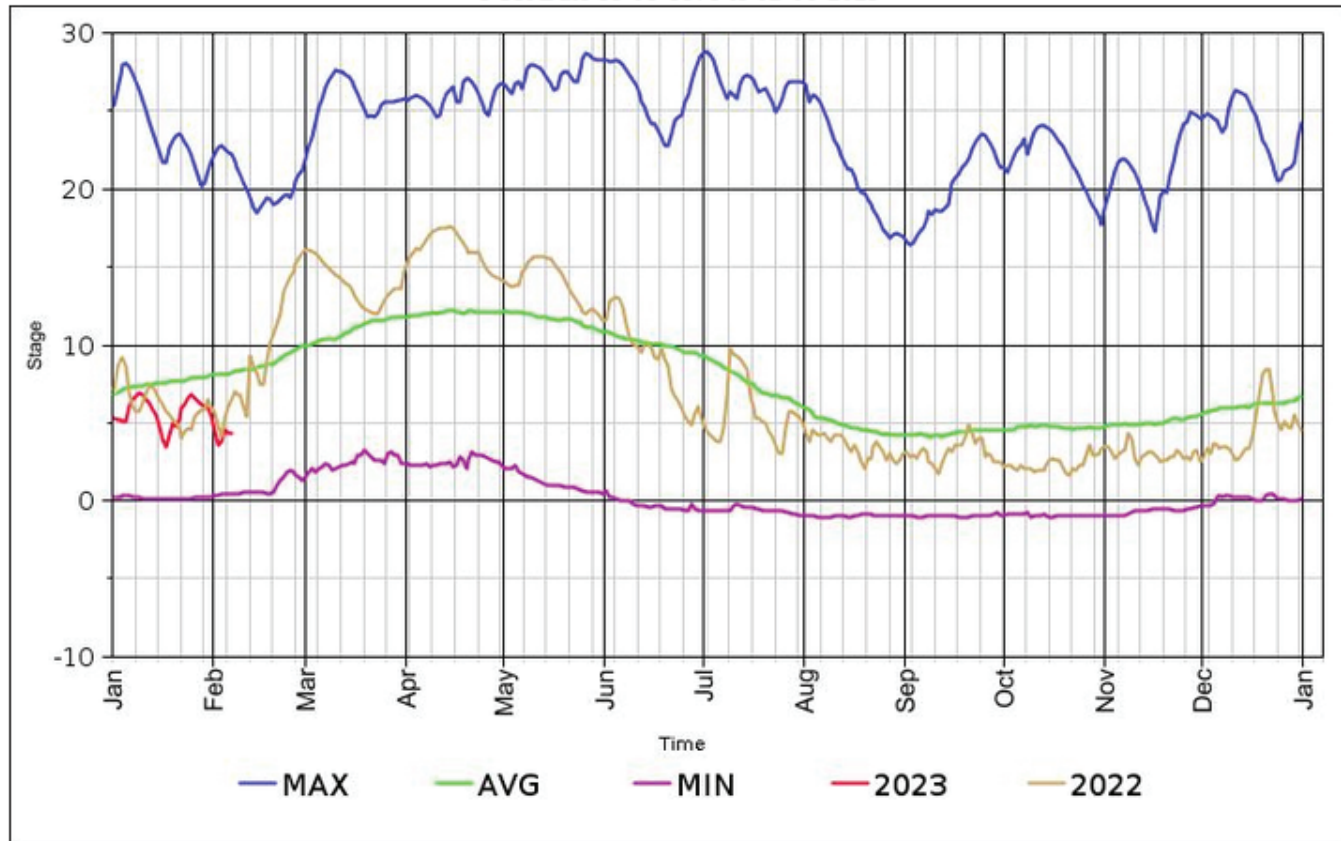
LWRP = 4.9
9-ft Auth = 40k cfs



ILLWW Hydrograph at Meredosia

Illinois River at Meredosia - Stage (Meredosia-Illinois.Stage.Inst.~1Day.0.datman-rev)

POR Date 11-01-1878 to 02-06-2023



Min Pool = 1.0



SURVEY EFFORTS 2022



1. Pathfinder: 70 days (Mar 22 – Jan 23)
ILW – 3 patrols / 12 days
Upper – 6.5 patrols / 25 days
Lower – 8 patrols / 33 days

2. 3 Line Contract Channel Surveys
ILW – 1
Upper – 2
Lower – 4

3. USCG reports from Gasconade & Cheyenne

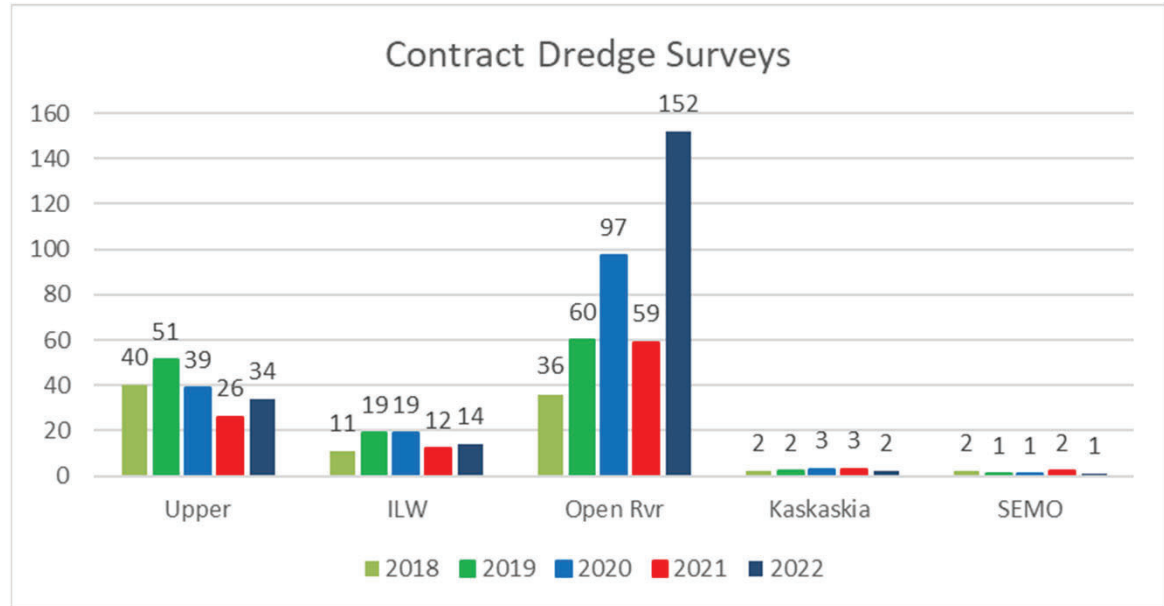




SURVEY EFFORTS 2021



Contract Surveys 102 (Bowen, Prairie)



USACE Surveys

Additional 33 surveys performed by Engineering survey boats, Simpson & Boyer.

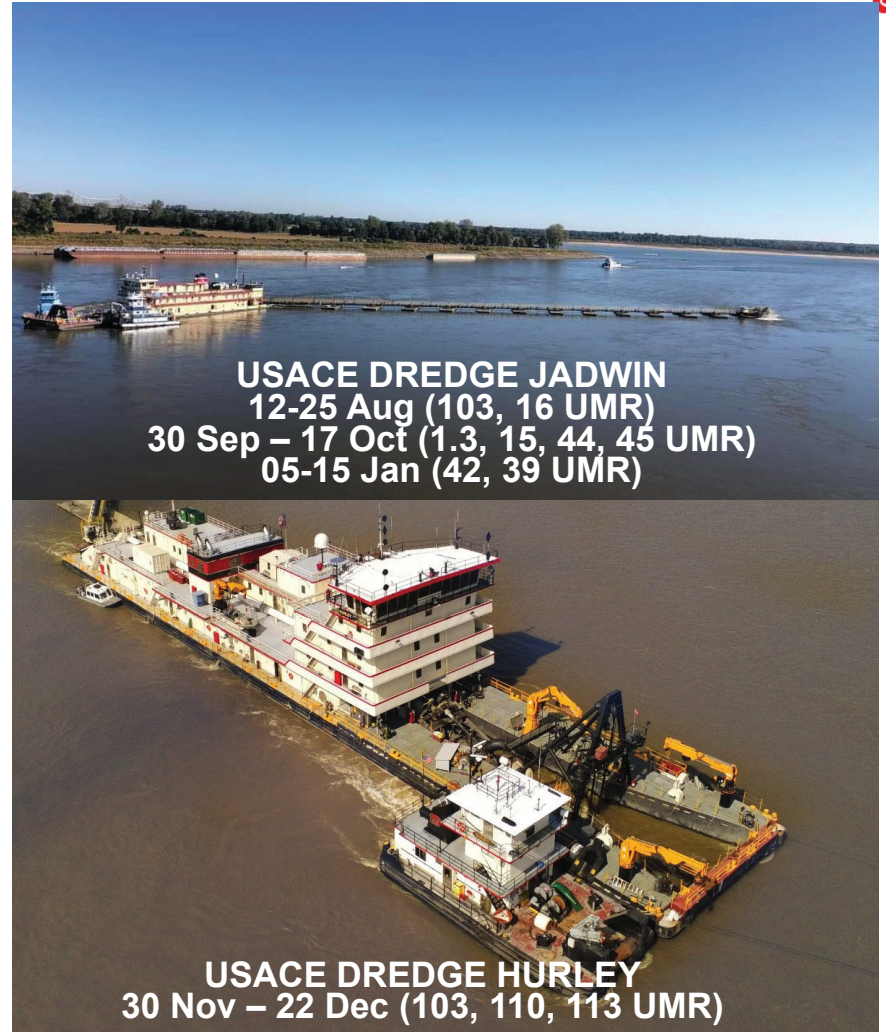
Additional surveys performed by Dredge Potter survey boat, Skyll.



DREDGE UTILIZATION DUSTPAN DREDGES



USACE DREDGE POTTER
07 Jul – 23 Sep
17 Oct – 5 Feb



USACE DREDGE JADWIN
12-25 Aug (103, 16 UMR)
30 Sep – 17 Oct (1.3, 15, 44, 45 UMR)
05-15 Jan (42, 39 UMR)

USACE DREDGE HURLEY
30 Nov – 22 Dec (103, 110, 113 UMR)





DREDGE UTILIZATION CUTTERHEAD DREDGES



USACE DREDGE GOETZ
1 Sep – 22 Dec



LRL CONTRACT – BILL HOLMAN
SEMO: 13 - 17 Sep
Kaskaskia Mouth: 17 - 28 Sep



DREDGE UTILIZATION MECHANICAL DREDGES



MVS MECHANICAL
24 AUG – 22 NOV
Costello Lock, Mel Price Aux,
Service Base, USCG



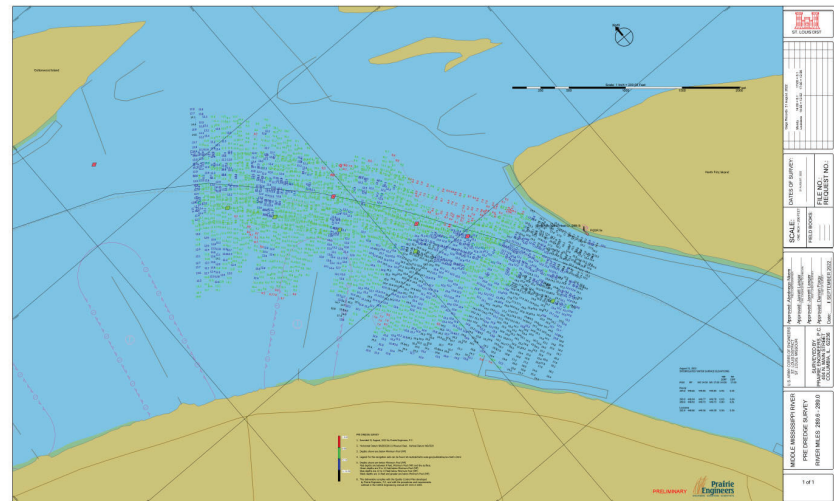
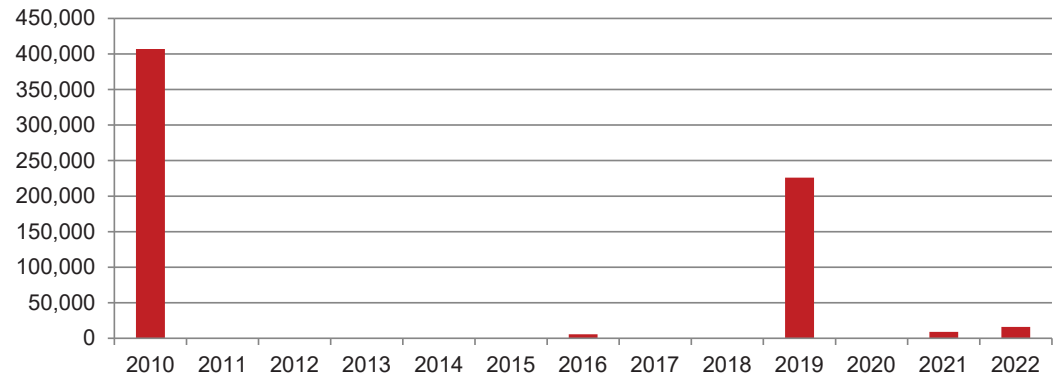
MVR MECHANICAL
19-25 SEP (289 UMR)
21-26 OCT (241 UMR)



Jobs: 1 CY:15,979

Rock Island District
Strike Removal
19-25 Sep
Cottonwood, UMR 289

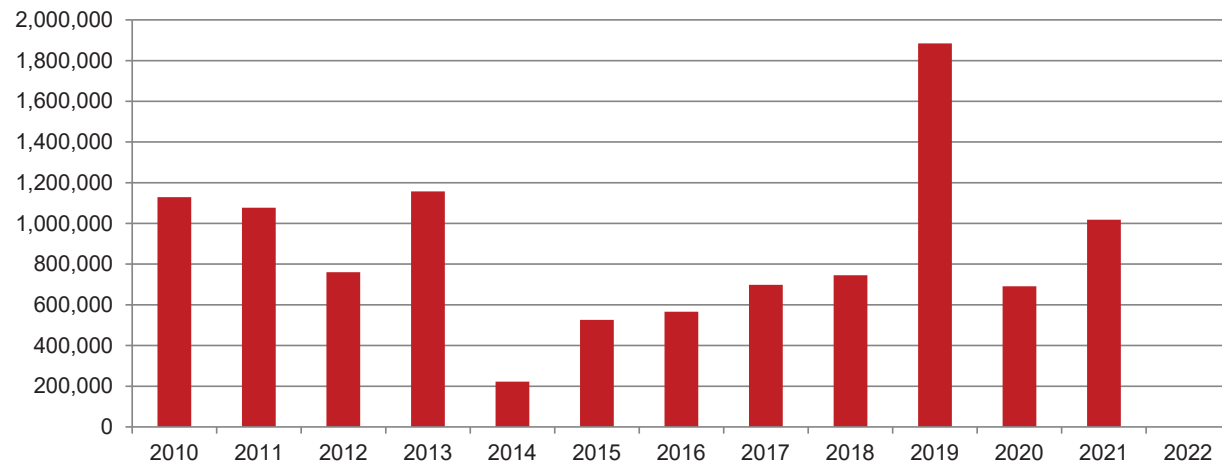
Pool 24





Jobs: 0
CY:0

Pool 25





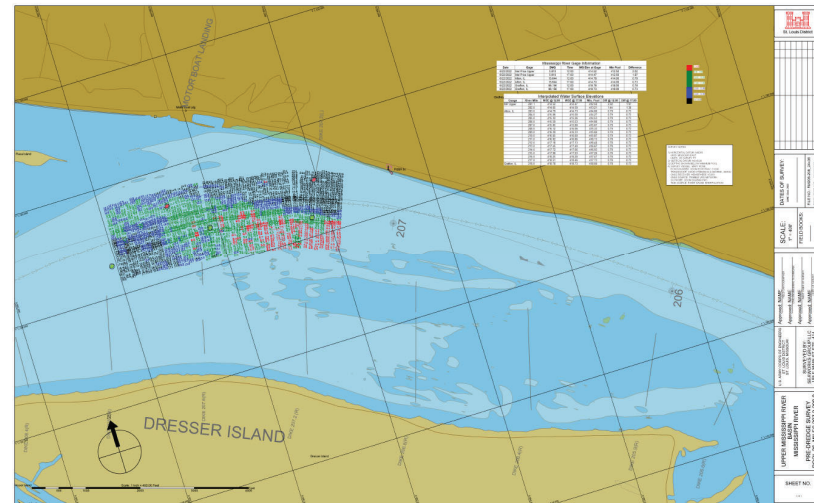
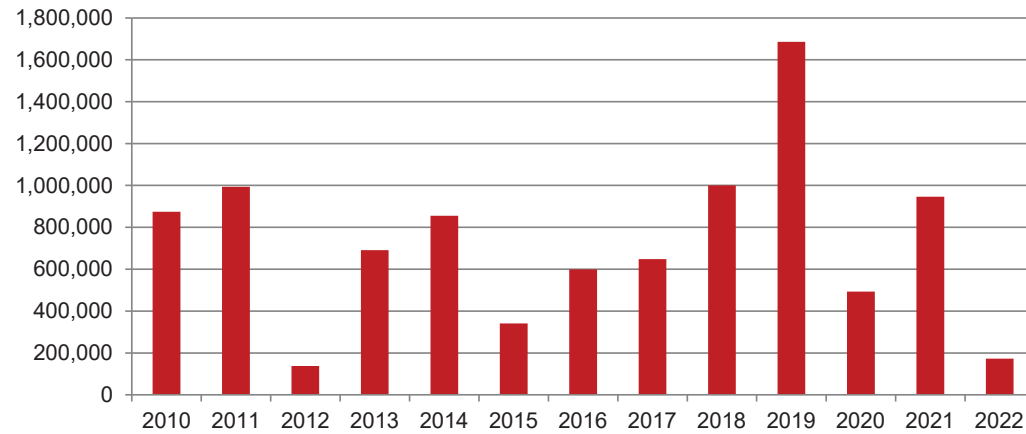
Jobs: 3
CY: 173k

Dredge Potter
13-19 Jul
Power Squadron Lt, 207 UMR
Grafton, 218 UMR

MVR Mech
21-26 Oct
L 25 Lower, 241 UMR



Pool 26





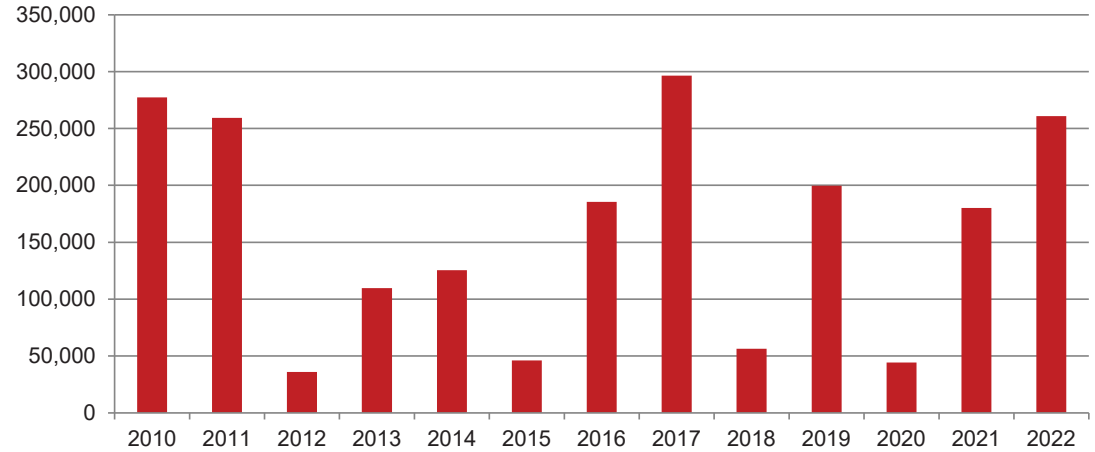
Jobs: 3
CY: 261k

Dredge Potter
7-13 Jul
Hartford, 196 UMR
Mel Price Lower, 200 UMR

Dredge Goetz
6-15 Oct
Upper COR Canal 194 UMR

MVS Mech
8 Aug – 8 Sep, 200.5 UMR

Pool 27

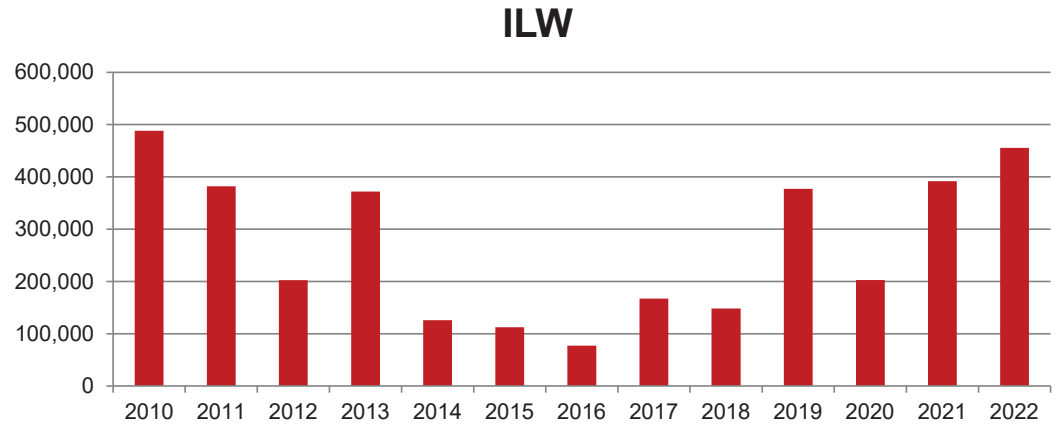




Jobs: 8
CY: 455k CY

Dredge Potter: 88k
19-23 Jul
Valley City, 62 ILR
Kamp Creek 74 ILR

Dredge Goetz: 367K
3 Sep – 6 Oct
Indian Creek – Moores Towhead, 78 – 75 ILR
Naples, 66 ILR





Jobs:47
CY: 8.2M

Dredge Potter: 5.8M

23 Jul – 22 Sep

17 Oct – 5 Feb

32 Locations from mile 183 – 24 UMR

Dredge Jadwin: 1.28M

12-25 Aug (103, 16 UMR)

30 Sep – 17 Oct (1.3, 15, 44, 45 UMR)

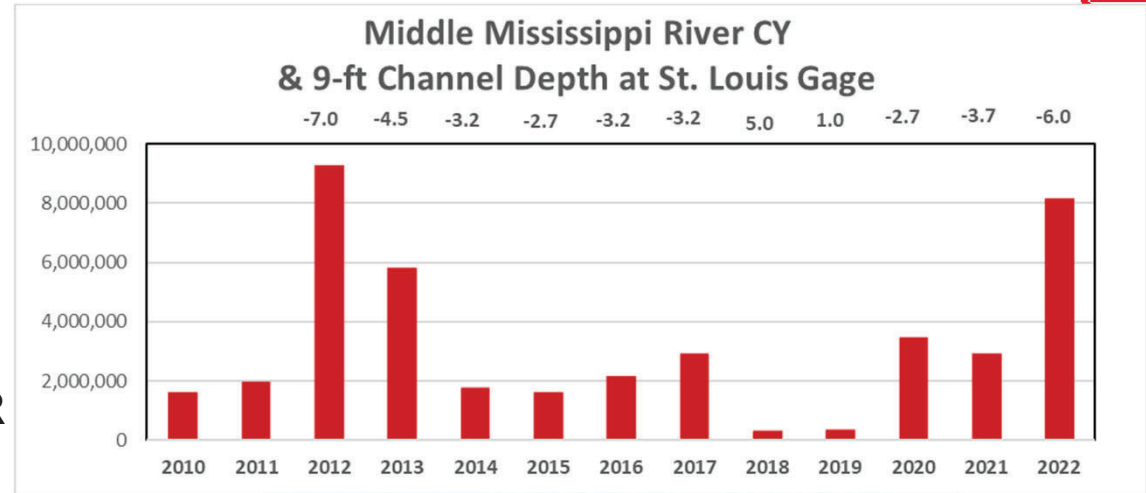
05-15 Jan (42, 39 UMR)

Dredge Hurley: 676k

30 Nov – 22 Dec (103, 110, 113 UMR)

Dredge Goetz: 342.2k

16 Oct – 20 Dec (185-184, 159, 152, 167 UMR)





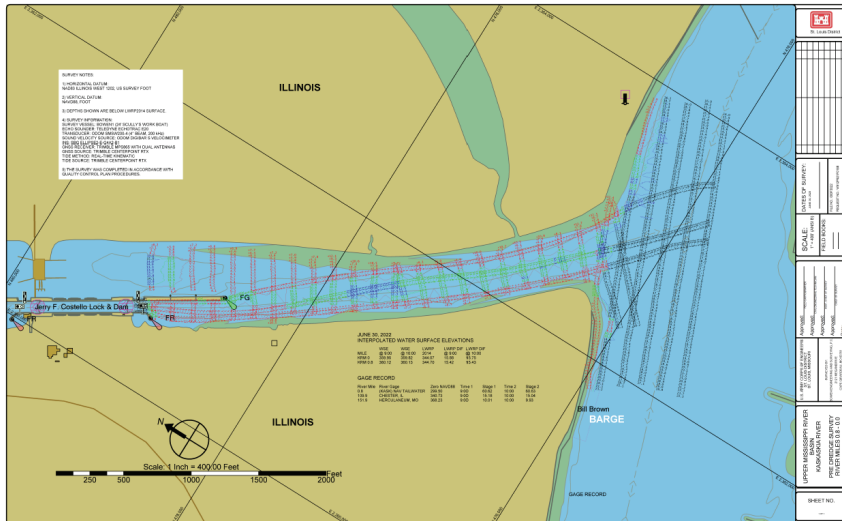
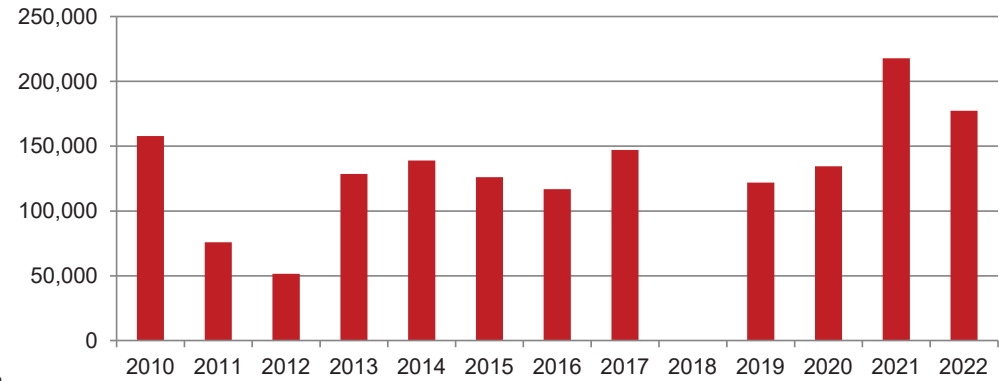
Jobs: 2
CY: 177k

Dredge Bill Holman: 169k
17-28 Sep (Lock to Mouth)

MVS Mech: 8k
24 Aug – 4 Sep (Lock Chamber)



Kaskaskia

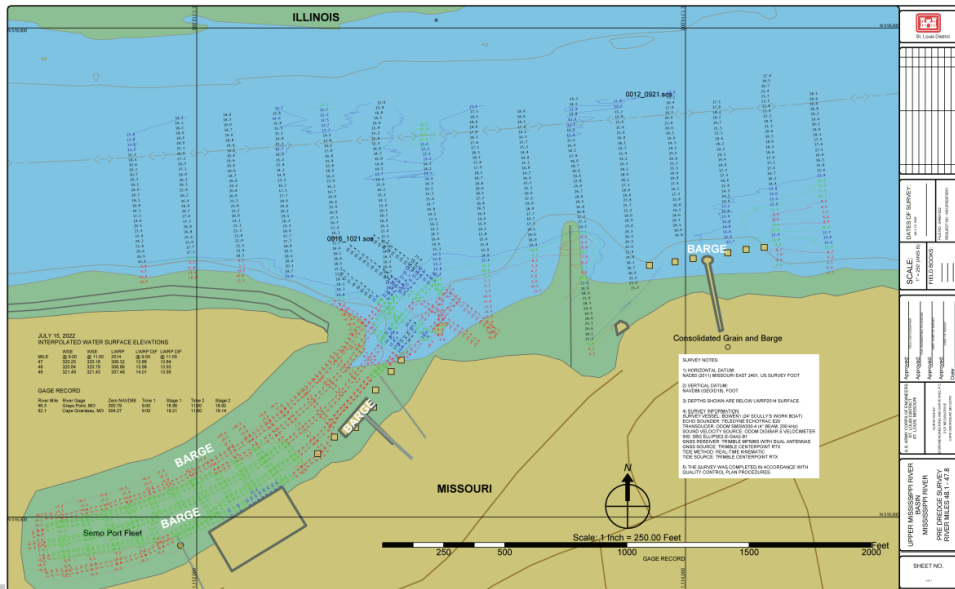
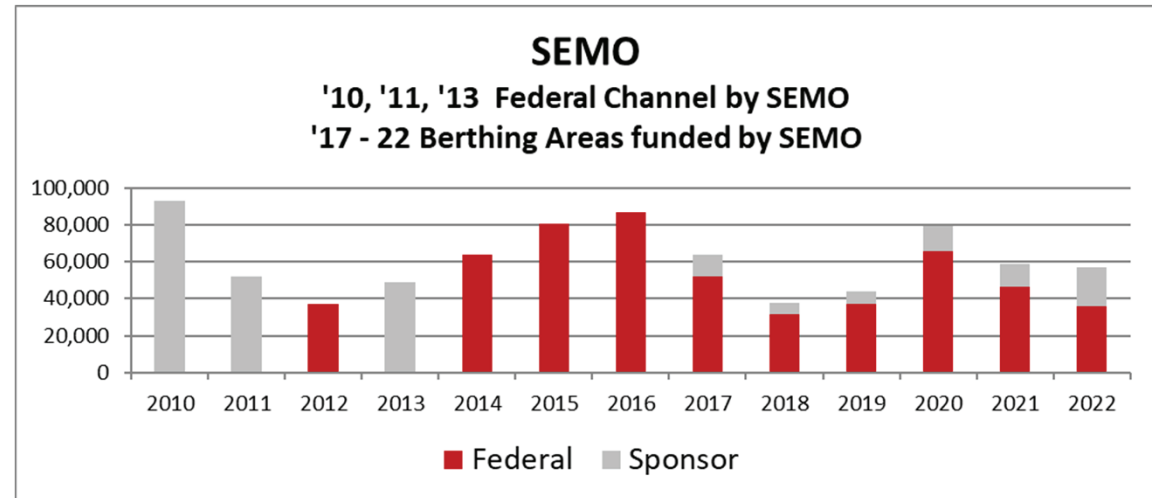




Jobs: 1 CY: 56.5k

Nav Channel: 35.9k
Berthing Area: 20.6k

Dredge Bill Holman
13-17Sep

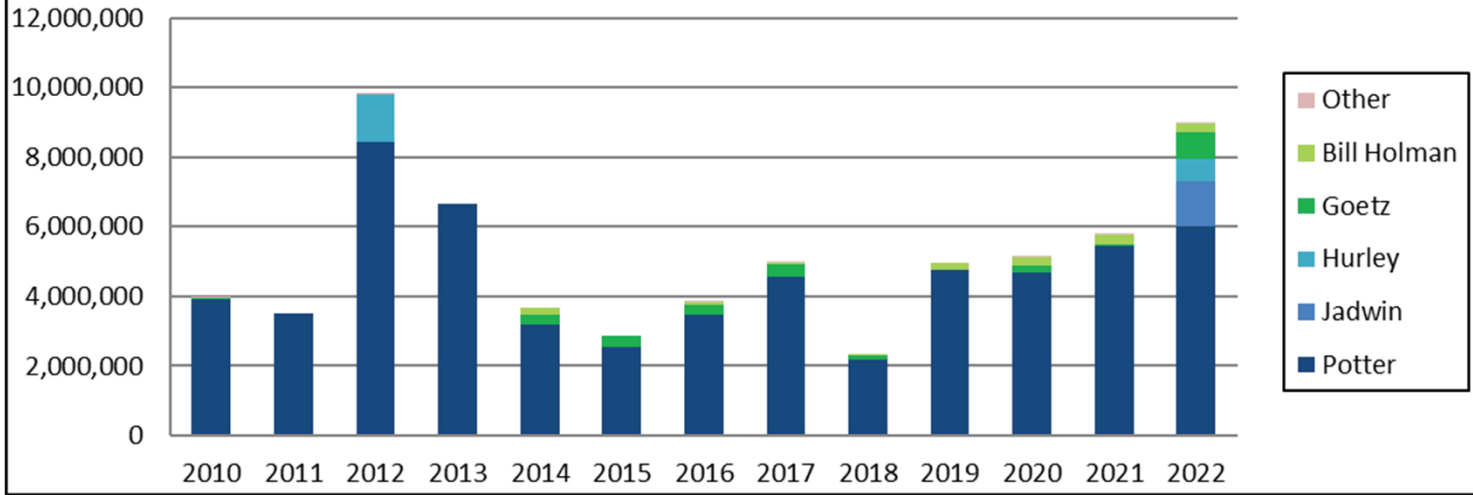




CHANNEL MAINTENANCE ALL PROJECT TOTALS



Cubic Yards by Dredge



Potter	6,001,500
Jadwin	1,282,639
Goetz	760,915
Hurley	676,600
Holman	225,933
Other	68,865
Total:	9,016,452



FLEX PIPE USE





CHANNEL AVAILABILITY IN CHANNEL GROUNDINGS



ILLWW

Mile 76, 18 Aug 2022, ITV Red Harris, 5 hours. Action taken: Survey requested on 19 August.

Mile 66.3, 19 Aug 2022, ITV Red Harris, 1.5 hours Action Taken: Survey requested on 19 August.

Mile 66.3, 19 Aug 2022, ITV Prairie Dawn, 1 hour.

Mile 76, 20 Aug 2022, ITV John D. Nugent, 3 hours **Action taken: RSDDT Meeting on 22 August, decision was made to move Dredge Goetz to ILLWW.**

Mile 75.9, 2-3 Sep 2022, ITV Glenn W. Jones, 14 hours. Action taken: Dredge Goetz arriving on site 3 September.

Lower River

Mile 125 UMR, 14 Oct 2022, Andrew Cannava grounded mid channel, with 15 loaded barges drafting 9.8-ft and 3 empty barges, river closed 24 hours. Action Taken: 4 Oct 2022 broadcast AIS-ATONS to mark crossing.

Resurveyed after grounding and reopened the channel after verifying that AIS-ATON positioning was still good.

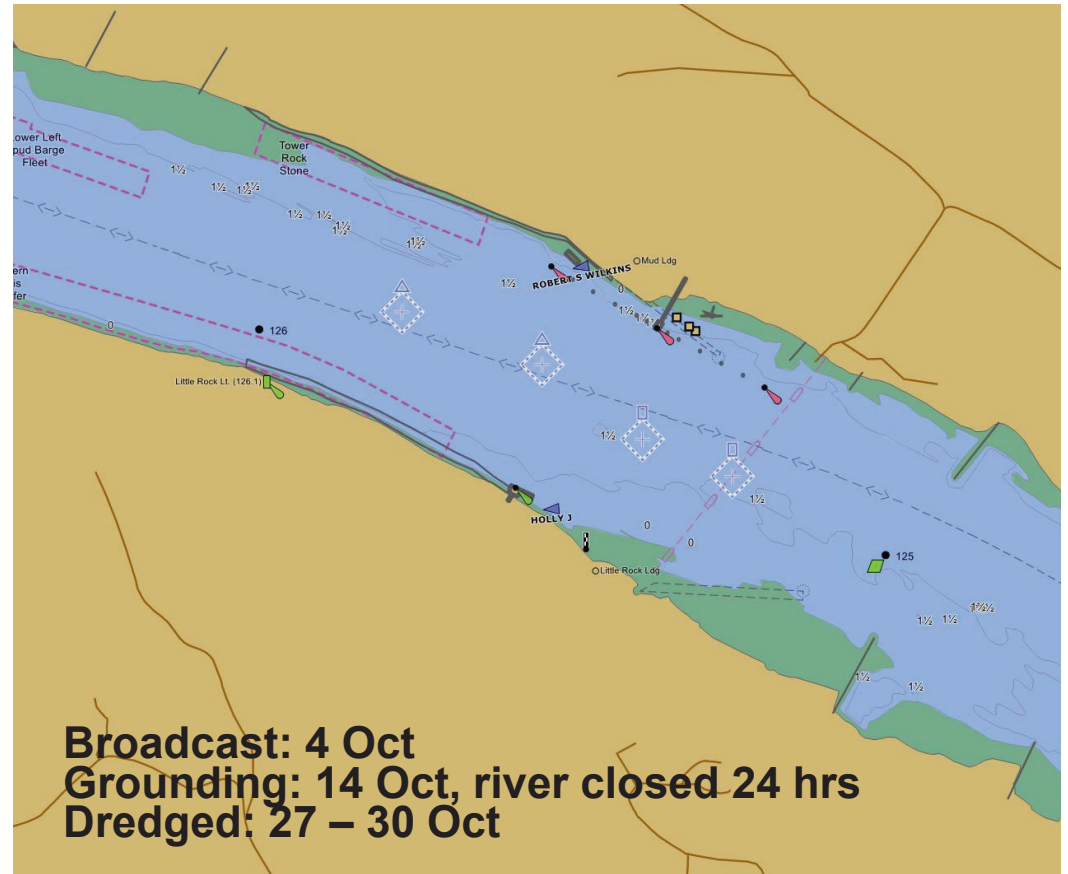
Dredge Potter worked 27 Oct – 30 Oct.



CHANNEL AVAILABILITY AIS-ATONS



- AIS-Atons used at Ste Genevieve, mile 125 UMR and Scudders, mile 16.
- RIAC Chair shared coordinates from Geo-referenced surveys





Outlook

1. Dredge Potter
 1. Dry Dock – March 2023
2. Perform Channel Patrol & surveys as needed
3. Mile 289 UMR – Dredge Goetz
4. Potter ready in June if needed



The End

