

## April 2023 USACE Report

1. The hydraulic dredge Goetz fleet is conducting offseason repairs. The major floating plant is on drydock at National Maintenance, located at Hartford, IL. We anticipate that all drydock repairs to the dredge Goetz will be completed by 5 May. We will review the drydock repairs to the M/v General Warren and Quarters Barge Taggatz based on dredging needs in mid-May timeframe.
2. Right now we are not sure when the first dredges will be mobilized for the season. Due to the high water situation it is very difficult to predict when that will happen. It is expected we will have 4 contract mechanical plants working, 1 government mechanical plant working and the Dredge Goetz for a portion of the season.
3. Most traditional dredging areas have been surveyed except Pool 2, the river conditions looked pretty good from a dredging perspective. Of course this significant high water will move significant sediment.
4. Lower Pool 2 Channel Mgmt Project: Phase I is complete and appears to be working as designed as it is scouring the channel. Phase II: Dredging portion; The primary constraint to do the expanded dredging in Lower Pool 2 is placement site capacities. **\*No Change\***
5. Pool 2 Pigs Eye Lake Project: Contractors request to place granular fill during the fisheries exclusion was approved by the DNR. This will allow the contractor to finish placing granular fill by hydraulic placement early in the year and likely allow them to finish remaining granular fill, fine fill, rock groins and seeding this year. Proposed work plan right now would have granular fill roughly 1 May - 15 June. At the end of the fisheries exclusion, the contractor will access dredge to Island 1 and begin placing rip rap and fine fill. Islands will be seeded before demobilizing this fall. Current projection is for willow plantings in spring of 2024.
6. Lock and Dam 3 miter gate anchorage embedded pin plate replacement winter project: Anchorages are installed on all miter gates and the lock is operational. M&R crew are drilling drainage holes in the anchorage pits and performing site clean-up. M&R will be placing the top concrete cap over the new anchorages in the coming weeks. **Complete**
7. Lock and Dam 4 miter gate anchorage embedded pin plate replacement winter project: Anchorages are installed on all miter gates and the lock is operational. M&R will be placing the top concrete cap over the new anchorages in the coming weeks. M&R is making additional concrete repairs to the upstream I-Wall horizontal surface approx 30' X 40' and will be placing new concrete at the same time as the anchorage caps. **Complete**
8. Lock and Dam 4 & 8 auxiliary sheet pile closure contract has been awarded. Contractor will mobilize mid-June to start construction and will be working 10 hour days Monday-Friday 0700-1700. The contractor has 1 year to complete this project. No impact to navigation.
9. Lock and Dam 5: University of MN and Barr Engineering are conducting a feasibility study for a potential invasive carp deterrent, current design is an air screen immediately below downstream miter gates. Discussions ongoing. **\*No Change\***
10. Lock and Dam 9: Lower bullnose concrete and steel repair: Work paused due to staffing needs on higher priority projects. Work is planned to be completed with future installation of end cell. Work rescheduled to winter 2024-2025.
11. Lock and Dam 10, Install auxiliary sheet pile closure. The Contractor has demobilized from the site and will return in the spring to complete punch list items like touch-up painting, etc. no impacts to navigation. **\*No Change\***

12. Pool 2 DMMP: Project Delivery Team continues implementation. A new appraisal of the Lower Grey Cloud Island property is complete and an offer to purchase is expected soon. Additional efforts include continuing pursuit of less than fee alternatives. **\*No change\***
13. Pool 4 DMMP: St. Paul District is working with City of Wabasha on the Sec 217(d) agreement and the various docs that will accompany it (i.e. Ops Plan, RE License Agreement..etc); optimistic the 217(d) could be signed this summer ('23). The St. Paul District is also developing plans and specifications for a CT to install a pipeline from Reads Landing to the COE-owned Wabasha Gravel Pit in 2023 for initial use in 2024; CT advertisement JUL, award AUG, construction NOV '23 - APR '24, ready to use 01 MAY 24.
14. Upper Pool 4 Pierce County Islands 1122 Project update: PPA with Wisconsin was signed in August 2021. Contract base awarded 26-Sep and Options 1 and 2 were exercised as of 9-Jan. Construction estimated to complete in 3.5 years (summer 2026). Ground breaking to be held 16-May. **\*No change\***
15. Pool 5, Rolling Prairie site: St. Paul District team is developing a long-term use plan for the entire ~1000 acres IDing future farming, wetland preservation and restoration & beneficial use areas; plan to have it out for public review spring '23. Site construction began on a 10-ac parcel fall of '22 (topsoil pulled back, access road construction); anticipate ready for use late summer/fall '23.
16. Pool 6 DMMP: The District received Division approval of report, now seeking RRF endorsement by early MAY. The District continues to work with Canadian Pacific Railroad and MnDOT to make plans for safety improvements at our Homer West upland placement site; it's hoped the improvements will occur in the summer '23.
17. Pools 9 & 10 DMMPs: The team continues to develop a matrix of placement sites alternatives. Pool 9: Working with Dairyland Power at Genoa for future material placement (coal area capping). Pool 10: District investigating sediment by-pass system for McMillan Island reach.
18. Please see attached .pdfs for lock and dam closures for both St. Paul and Rock Island Districts

## LOCK STATUS ST PAUL DISTRICT

Updated 1000 hours on 4/20/23

LOCK NUMBER	FLOOD STAGE	TODAY'S STAGE (0600)	LOCK CLOSURE STAGE	CLOSURE DATE & TIME	FORECASTED CREST STAGE	FORECASTED CREST DATE	ESTIMATED RE-OPEN DATE	TOP OF LOCKWALL	1965 CREST	2001 CREST	2011 CREST	2011 CREST DATE
L/D 2 RM 815	689	689.24	692	CLOSURE NOT EXPECTED	691.5	26-Apr	NA	694	696.05	692.56	689.12	12-Apr
L/D 3 RM 796	677	683.03	682.5	CLOSED	684.5	26-Apr	2-May	686	687.93	685.20	682.26	13-Apr
L/D 4 RM 753	668	672.06	671.5	CLOSED	673.5	26-Apr	2-May	672	676.45	675.1	671.31	14-Apr
L/D 5 RM 738	665	663.00	664.5	EXPECTED CLOSURE 4/24/23	665.7	26-Apr	2-May	665	668.73	666.55	662.45	14-Apr
L/D 5A RM 729	653	658.96	660	EXPECTED CLOSURE 4/24/23	661.2	26-Apr	30-Apr	663	663.74	662.33	658.59	15-Apr
L/D 6 RM 714	647	650.63	651.5	EXPECTED CLOSURE 4/26/23	651.7	27-Apr	29-Apr	654.5	654.65	652.72	650.14	15-Apr
L/D 7 RM 703	642	643.57	646.5	CLOSURE NOT EXPECTED	645.7	27-Apr	NA	647	648.18	645.92	643.52	14-Apr
L/D 8 RM 679	634	633.98	636	EXPECTED CLOSURE 4/23/23	636.7	28-Apr	1-May	639	639.05	636.87	634.3	16-Apr
L/D 9 RM 648	622	626.50	631	CLOSURE NOT EXPECTED	630.5	30-Apr	NA	633	633.81	631.84	628.9	17-Apr
L/D 10 RM 615	614	617.01	621	EXPECTED CLOSURE 4/27/23	621.7	29-Apr	1-May	624	624.24	622.42	619.96	18-Apr

ALL STAGE/ELEVATION DATA IN 1912 DATUM

**LOCK STATUS**  
**ROCK ISLAND DISTRICT**

Updated 1050 hours on 4/20/23

LOCK NUMBER	FLOOD STAGE	TODAY'S STAGE (0600)	LOCK CLOSURE STAGE	CLOSURE DATE & TIME	FORECASTED CREST STAGE	FORECASTED CREST DATE	ESTIMATED RE-OPEN DATE	TOP OF LOCKWALL	1965 CREST	1993 CREST	2001 CREST	2008 CREST	2019 CREST
L/D 11 RM 583	16.0	16.6	20.8	Closure Expected 4-25-23	23.0	04/30/23	NA	24.3	25.69 *	22.32	23.91	18.56	21.77
L/D 12 RM 556.5	17.0	15.9	18.4	Closure Expected 4-22-23	22.5	04/30/23	NA	22.8	23.51 *	21.50	22.58	18.70	20.87
L/D 13 RM 522.5	16.0	14.8	19.0	Closure Expected 4-25-23	22.5	05/02/23	NA	23.3	24.67 *	22.17	23.20	19.08	21.77
L/D 14 RM 493.5	11.0	10.1	14.0	Closure Expected 4-26-23	15.5	05/02/23	NA	20.42	17.75 *	16.56	16.93	14.84	16.50
L/D 15 RM 483	15.0	14.8	20.0	Closure Likely 4-28-23	NA	NA	NA	20.5	22.48	22.63	22.33	21.49	22.7 *
L/D 16 RM 457	15.0	14.0	17.0	Closure Expected 4-24-23	21.0	05/03/23	NA	20.4 (19.83)	23.27	24.10 *	22.41	22.96	23.23
L/D 17 RM 437	15.0	14.6	18.1	Closure Expected 4-25-23	20.5	05/03/23	NA	21.3	23.14	25.90 *	22.46	25.20	24.42
L/D 18 RM 410.5	10.0	10.3	14.9	Closure Likely 4-28-23	NA	NA	NA	18.98	17.10	21.54	17.65	22.46 *	20.59
L/D 19 RM 364	16.0	11.4	21.2	Closure Not Expected	NA	NA	NA	22.17	22.14	27.58 *	22.94	26.95	25.60
L/D 20 RM 343	14.0	12.3	18.0	Closure Expected 5-2-23	NA	NA	NA	19.5	21.42	27.88 *	23.20	27.73	27.11
L/D 21 RM 325	17.0	13.6	21.9	Closure Not Expected	NA	NA	NA	25.7	24.80	32.30 *	26.55	29.59	30.15
L/D 22 RM 301	16.0	13.6	21.4	Closure Not Expected	NA	NA	NA	25.4	23.26	29.58 *	26.12	28.00	28.48