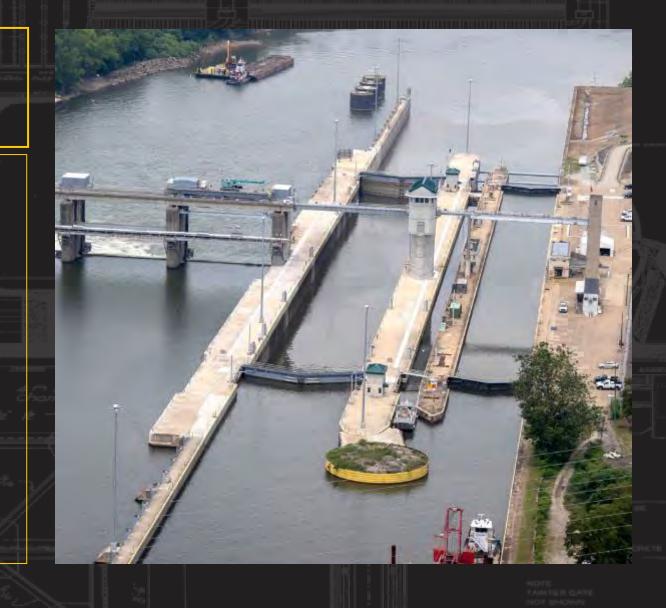
LOWER MONONGAHELA RIVER LOCKS AND DAMS 2,3 & 4

Inland Waterways Users Board Meeting No. 103

Steve Fritz, PE, PMP U.S. Army Corps of Engineers Pittsburgh District 1 August 2024







US Army Corps of Engineers



LOCKS AND DAMS 2, 3, AND 4 BLUF STATUS-SUMMARY DASHBOARD

PROJECT STATUS SUMMARY



PROJECT SAFETY

-4 incidents in FY23

-0 incidents in FY24



River Chamber Completion, Mon 3 Decommissioning, Fish Reefs & CHR Elevator Refurb -4 incidents in FY22



	Orig.	Last	Current
Operational (90% benefits)	Jul 2027	Dec 2024	Dec 2024
Completion (Physically complete)	Jan 2029	April 2027	Apr 2027

FINANCIAL STATUS SUMMARY

Project is ahead of baseline schedule

Planned: \$1,066 M Earned: \$1,019 M Actual: \$1,073 M

Cost Performance Index: 0.95

*through June 2024

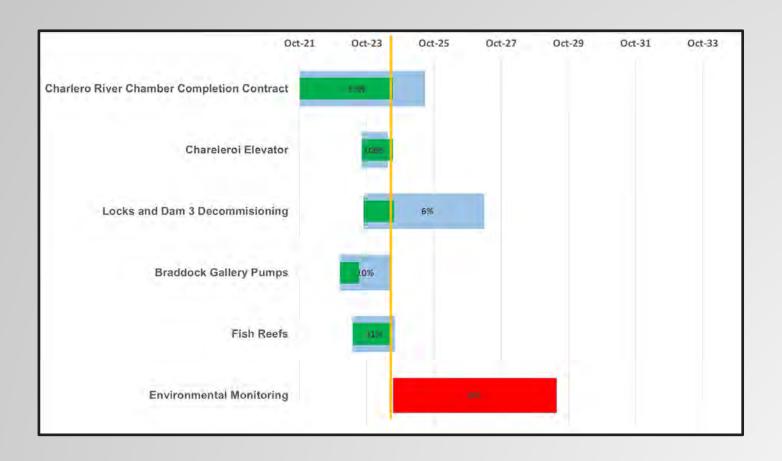
EXECUTIVE SUMMARY:

- Continued focus on safety
- New Charleroi river chamber is operational from control shelters
- Demolition of LD3 is underway
 - Dam breeched 10July24
 - Pool equalization and lock status
- FY 2024 appropriation \$41 M BIL funds
- Cost Update In agency technical review process



LOCKS AND DAMS 2, 3, AND 4 SCHEDULE





Schedule comments:

- Final charleroi close out contract not shown
- Environmental monitoring begin after pool equalization

Legend:

- Green Completed work
- Blue Funded, in progress
- Red Not yet started



LOCKS AND DAMS 2, 3, AND 4 FUNDING SUMMARY



Allocations:	ARRA (\$M)	GI(\$M)	CG(\$M)	IWTF(\$M)	BIL(\$M)	Total(\$M)	
Prior to FY 22:	\$68.3	\$12.5	\$515.5	\$528.1	\$0	\$1,124.4	
FY 22:						\$0	
FY 23:						\$0	
FY 24:					\$41	\$41	
Total to Date:	\$68.3	\$12.5	\$515.5	\$528.1	\$41	\$1,165.4	
Remaining TPC Balance:							

Total Project Cost (TPC)*1	\$1,233M	May 2018		
Authorized Cost:	556.4M	Oct 1991		
902 Limit:	\$1,764.4	Mar 2019		

Fiscal Year Funding Scenario Breakout: Various scenarios have been developed. All highly dependent on funding streams.

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Efficient	\$41M ^{*2}		TBD	TBD						
Inefficient										

- *1 Total Project Cost is being reevaluated now
- *2 \$41M received in FY24 is from the bipartisan infrastructure law



LOCKS AND DAMS 2, 3, AND 4 ISSUES/CHALLENGES



- Challenge: Completing the 90% benefits project with funding provided
 - Mitigation Strategies: Efficiently use the funds provided to achieve the 90% benefits project
- Challenge: Post pool change residual risks not funded
 - Mitigation Strategies:
 - Siltation Monitor pool 3 channel depths. Dredge if necessary.
 - Braddock dam scour Monitor scour progression and repair if necessary.
 - Wetland mitigation Monitor known wetland areas and emerging wetland areas to determine net gain or loss.



31 JULY 24 MONONGAHELA L/D 3 (ELIZABETH)



= Removal Required

U.S. ARMY

7' DRAFT RESTRICTION AND WAY FORWARD

Situation: Upon pool leveling after breaching the dam the District determined the depth over the upstream sills was insufficient to allow safe passage of vessels drafting 9' or more. The District coordinated with the USCG and stakeholders and issued a 7' draft Navigation Restriction on 16 July. The

ock chamber remains in operation and capable of passing traffic 24/7 at a 7' restriction.

Resolution: The District is resequencing blasting of certain sections of the Dam to prioritize the construction of a 100' wide channel in the center of the river to minimize the amount of time the Navigation Restriction is necessary. The priority actions that must occur are the drilling, blasting, and rubble removal of sections 4,6, and 8, dredging, marking, and

certification of the channel.

Completed Steps: The District modified the contract and worked with the contractor to safely deliver by 28 August 2024.

- Section 4: Blast and begin rubble removal
- Section 6 and 8: Blasting complete
- Section 6 and 8: Start rubble removal
- Continue to pass restricted navigational traffic
- Industry and congressional briefing 24 July
- USCG meeting 25 July

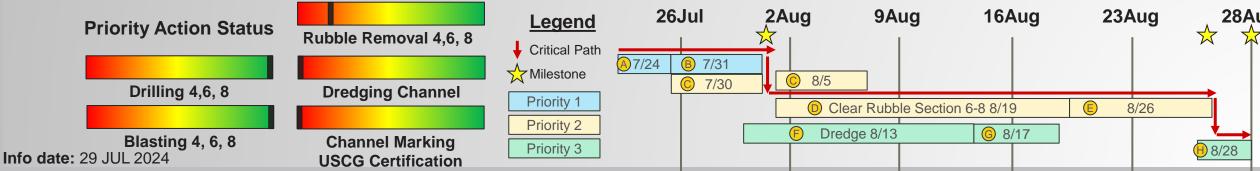
Next Steps 29 July-2 August:

- Section 4: Rubble removal
- Section 6 and 8: Blast (Wednesday, 31 July)





ON SCHEDULE



U.S. ARMY

LD 3 REMOVAL - 31 JULY 2024 WORK AREA









Progress: Charleroi new river chamber

- Complete operational testing for the Charleroi control tower
- Complete pre-final inspections and develop punch lists

Progress: Locks and Dam 3 removal

- Complete dam removal December 2024
- Lock usage ends river passage opens December 2024
- Complete removal of river and middle walls Spring 2027

Progress: Monitoring post pool change conditions to assess residual project risk

- Siltation
- Braddock dam scour
- Wetland monitoring

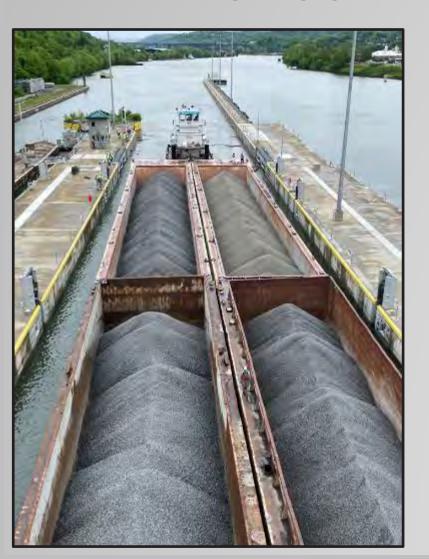
Progress: Remaining items (summary)

- Permanent Charleroi land chamber closure contract
- Relocations
- Land deposition
- Victory hollow bridge



LOCKS AND DAMS 2, 3, AND 4 – PROGRESS CHARLEROI (JOHN P. MURTHA) LOCKS AND DAM FIRST COMMERCIAL LOCKAGES – 10 MAY 2024











LOCKS AND DAMS 2, 3, AND 4 – PROGRESS CHARLEROI LOCKS AND DAM RENAMED JOHN P. MURTHA LOCKS AND DAM







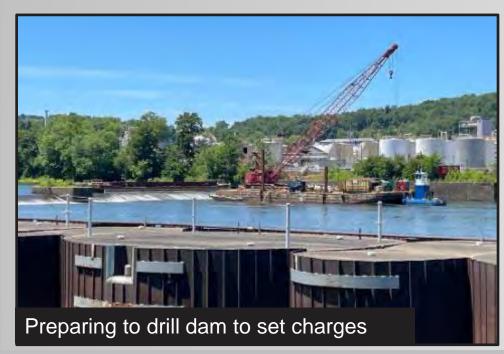
Renaming - 28 August 2024

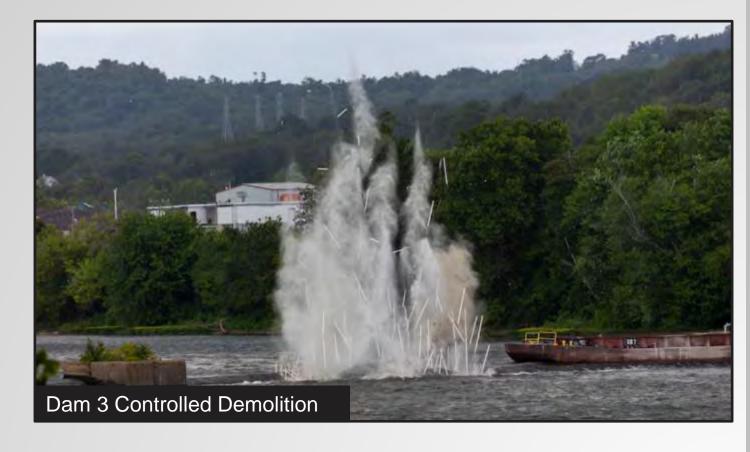


LOCKS AND DAMS 2, 3, AND 4 – PROGRESS LOCKS AND DAM 3 REMOVAL













QUESTIONS?