

LOWER MONONGAHELA RIVER LOCKS & DAMS 2-3-4 PROJECT

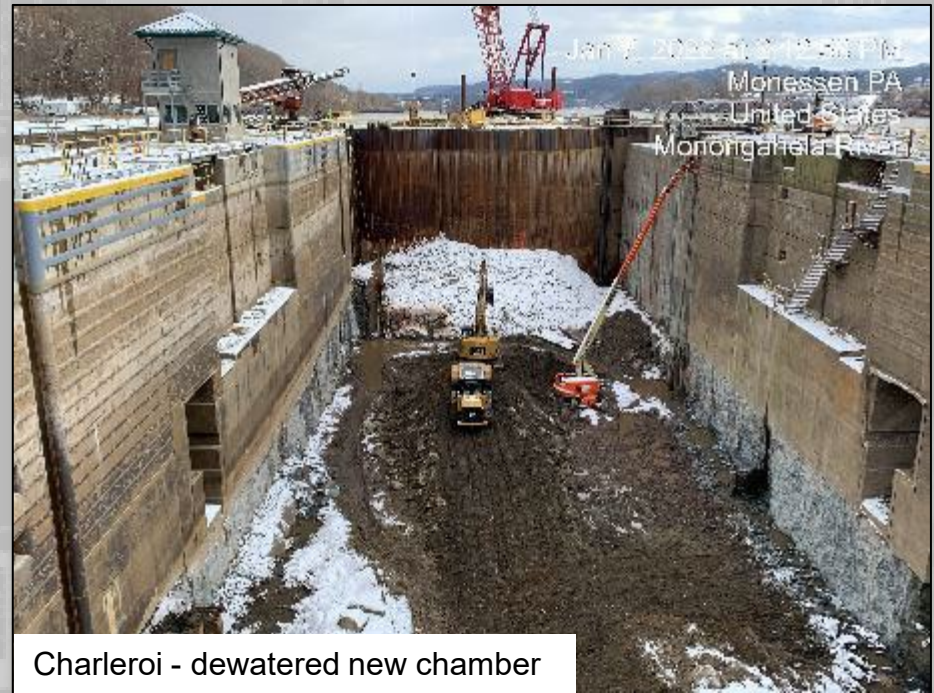
INLAND WATERWAYS USERS BOARD MEETING #97

Mr. Steve Fritz
MEGA Projects Program Manager U.S.
Army Corps of Engineers
Pittsburgh District
16 August 2022

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Real-World Impact!***



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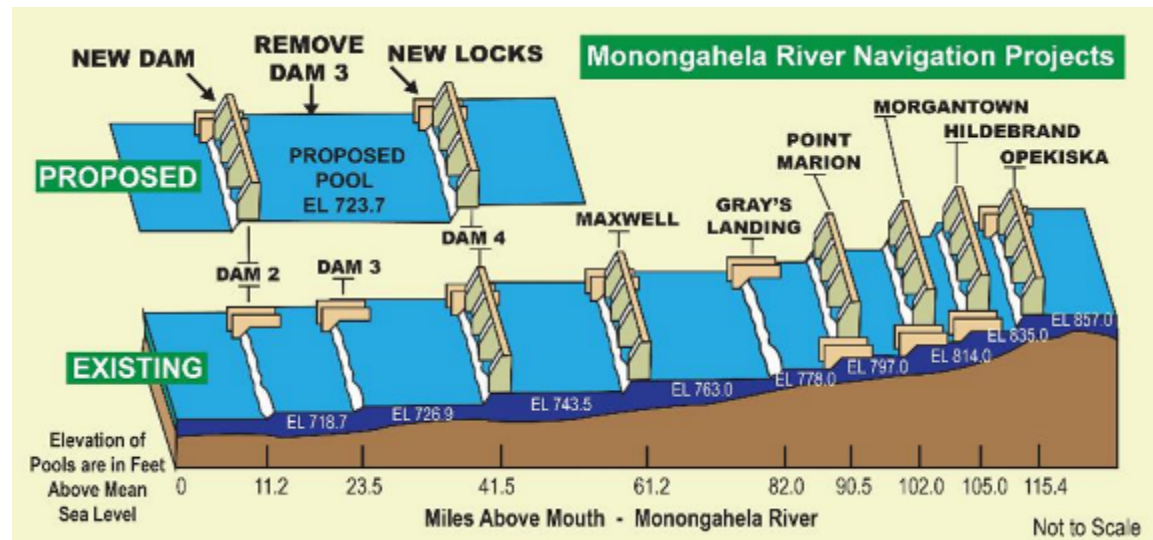
Charleroi - dewatered new chamber



Victory Hollow - project disposal area

Major Project Features

- Braddock Locks and Dam (L/D 2): New gated dam Completed 2004
- Charleroi Locks and Dam (L/D 4):
 - Two new larger lock chambers (84' wide x 720' long)
 - River chamber under construction
 - Land chamber deferred
 - Dam stilling basin extension
- Locks and Dam 3 removal
- Pool 3 Dredging
- Relocations





SCHEDULE- WORK DONE THROUGH JULY 2022



- Charleroi Stilling Basin Extension
 - Completed stone protection
 - Contractor is near physical completion
 - 4 months ahead of schedule
- Monongahela River Pool 3 Dredging
 - Contract physically completed 31 March 2022
 - Working final quantities for fiscal close out of contract



Stilling basin construction – floating plant



Pool 3 dredging operation

SCHEDULE- WORK DONE IN FY22

- Charleroi River Chamber Completion
 - Alluvium removed from chamber
 - Installing facing on monoliths
 - Installing filling and emptying culverts
 - Installing upstream miter and bulkhead sills
 - Stub wall anchors completed



Charleroi River Chamber – U/S Miter & Filling Sill



Charleroi River Chamber, In-Chamber work



PROJECT SCHEDULE - ONGOING & REMAINING WORK

90% Project Benefits – June 2024

Charleroi

- **River Chamber – Operational summer 2024**
 - Wall facings
 - F/E culverts
 - Sills
 - Control tower elec/mech/finishes
 - Land chamber permanent closure
- **Stilling Basin Extension – Physical completion July 2022**
 - Final quantities and fiscal close out of contract

Locks and Dam 3 Removal – Complete summer 2025

- Coordinate with construction contractors
- Coordinate with navigation industry

Relocations – Various completion dates



COST/FUNDING OVERVIEW – TOTAL & REMAINING



Current Project Estimate^{*1}: \$1.23B (\$2.76B)	ARRA	CG	IWTF	Total
Allocations through FY2016:	\$68,261,203	\$338,640,646	\$338,640,652	\$745,542,501
FY17 Allocation:	NA	\$41,005,000	\$41,005,000	\$82,010,000
FY18 Allocation:	NA	\$48,150,000	\$48,150,000	\$96,300,000
FY19 Allocation:	NA	\$44,606,606	\$44,606,606	\$89,213,213
FY20 Allocation: (Final Funding)	NA	\$55,648,769	\$55,648,769	\$111,298,000
Total Allocations to Date:	\$68,261,203	\$472,402,253	\$472,402,258	\$1,124,363,248
Remaining TPC Balance:		\$54,735,874	\$54,735,874	\$109,471,747 ^{*2}
Remaining Balance Change From Last Meeting:				\$0

*1. Total Project Cost update – May 2018. Cost for 90% of project benefits increased from \$1.22B to \$1.23B. Total project cost increased from \$2.73B to \$2.76B.

*2. \$109 Million of the 90% project benefits cost estimate remains unfunded. It is anticipated that additional funds will be needed to complete the project but it is also anticipated that the final cost will be below the baseline estimate of \$1.2 billion.

Efficient Funding Profile: Not applicable. Project received completion funding in the FY 2020 Work Plan.



ISSUES AND CHALLENGES



- **Locks and Dam 3 Removal timing**
 - Charleroi river chamber must be operational
 - Time of year – flow conditions
 - Environmental constraints
- **High Water events**
 - Flood-out threat
 - Actual flood-out
- **Market Uncertainty**
 - Escalation of costs
 - Competition / availability of resources
- **Relocations**
 - Working with multiple communities
- **Environmental Mitigation**



THANK YOU

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