

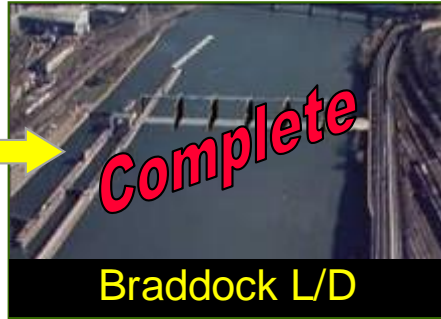
# Lower Mon Bottom Line Up Front

- ✓ Current Schedule: **On Schedule**
  - ▶ January 2023 (Early Project Operational, 90% benefits)
  - ▶ January 2024 (Early Project Complete)
- ✓ Current Cost: **On Budget**
  - ▶ TEP – Total Estimated Price, assuming efficient funding, at \$1.11 B, \$1.2B including contingencies.
- ✓ Keys:
  1. \$82M was received thru FY2017 work plan.
  2. River Chamber Completion Options 1 and 2 awarded in FY 2017.
  3. Pool 3 Dredging contract awarded in FY 2017.
  4. **FY2018 & FY2019 President's budget = \$0, high potential for cost and schedule growth.**
  5. Continue to investigate alternatives to reduce the project's critical path.
    - Revisiting construction restrictions
    - L/D 3 removal contract performance period

# Lower Mon - Project Overview

Pre-Project Condition

Post-Project Condition



## Major Project Features

- New Dam at Braddock
- New Locks at Charleroi
- Dredging
- Removal of Locks and Dam 3
- Relocations

## Financial

- 902 Limit: \$1.76 Billion
- Current Estimate at Completion \$1.2 Billion, including contingencies <sup>\*1</sup>

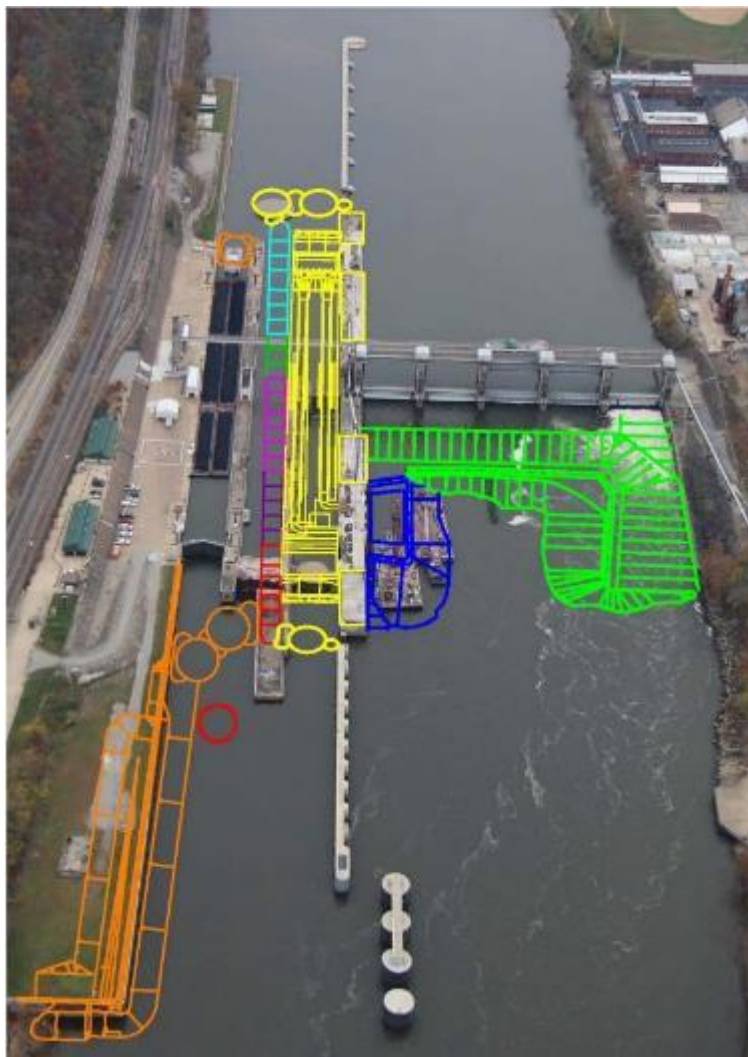
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## Lower Mon - Project Schedule

Major Feature Construction	Last Reported Completion (Nov 2017)	Revised <sup>*1</sup>
Charleroi M22-M27	FY 2019	FY 2020
Charleroi Dam Stilling Basin	FY 2021	
Charleroi River Chamber Completion (RCC)	FY 2023	
Dredging Pool 3	FY 2022	FY 2020
Relocations	Variable	
Lock and Dam 3 Removal	FY 2023	

\*1 – Assumes receipt of FY 2018 capability

## Lower Mon – Charleroi Ongoing / Pending Construction Plan



Description	Last Reported Completion	Current Completion (FY18 Work Plan)	Current Completion (No FY18 Work Plan)	Previously Planned Award	Current Planned Award	Option Expires	% Complete
M22-M27	2019	2020	2020	Completed	Aug 14 A	NA	58%
RCC Base	2023	2023	2019	Completed	Sep 15 A	NA	84%
RCC Opt 1	2023	2023	2027	Completed	Aug 17 A	30 Sep 17	6%
RCC Opt 2	2023	2023	2027	Completed	Aug 17 A	30 Sep 18	2%
RCC Opt 3	2023	2023	2027	Nov 17	FY 18 See notes	30 Sep 18	NA
RCC Opt 4	2023	2023	2027	Dec 18	Dec 18	31 Mar 20	NA
RCC Opt 5	2023	2023	2027	Nov 20	Nov 20	31 Mar 21	NA
Stilling Basin	2021	2021	TBD	Sep 18	Sep 18	NA	NA

### Notes:

- RCC – River Chamber Completion
- RCC Option 1 & 2 awarded in Aug 2017
- Risk informed RCC completion is 2027
- **RCC Option 3 at risk**
- **Stilling Basin at risk**

### • Remaining project features not shown on this slide:

- Dredging Awarded Sept 2017
- Pool Clearing (FY21 planned award)
- Lock and Dam 3 Removal
- (FY21 planned award)
- Relocations

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## Charleroi Construction Images



1 - River Chamber Completion Contract Dewatered M2-M6 Coffebox  
2 - M22-M27 Contract Removal of the D/S Closure Cell

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# Lower Monongahela River Project

## Time and Cost Scorecard



### Expenditures

	No Contingency	Contingency Included	31 Dec 17
Planned (BCWS)	\$730.9M	\$679.3M	
Earned (BCWP)	\$659.8M	\$695.2M	
Actual (ACWP)	\$684.3M	\$684.3M	
	CPI = 0.96	CPI 1.02	

**BCWP:** Reports the value (based on % complete) of the work performed to date.

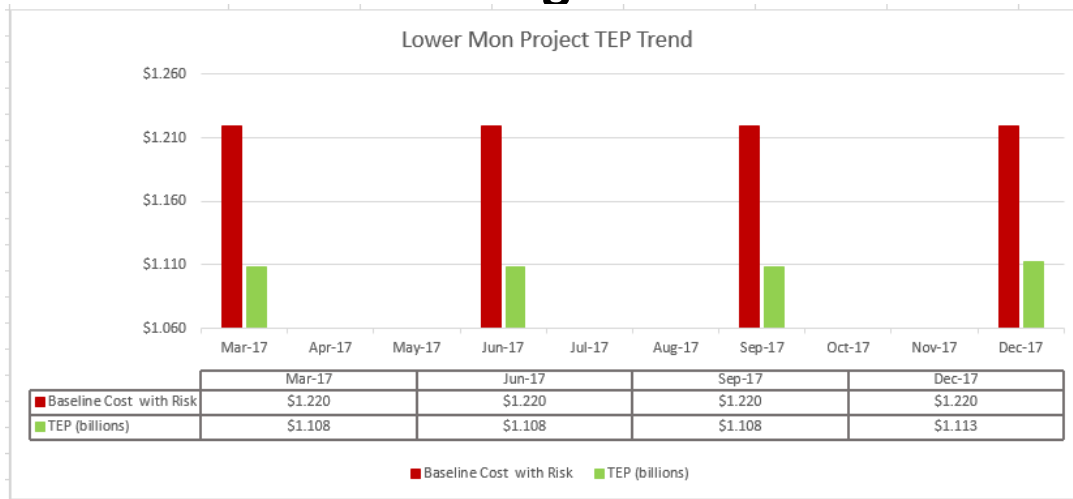
#### Target:

Actual as compared to Planned: (<1% = Green); (>1% and <3% = Yellow); and (>3% = Red)

Values shown reflect project sunk cost of \$550.6M thru FY 2014.

EAC = \$1.11B (nc) TPC = \$1.220 B

### Budget



### Schedule

(Baseline)/(Current Early) 31 Dec 18

Operational (Realize over 90% of project Benefits) 2027 / 2023

Project Complete 2029 / 2028

- Requested \$105 M in the FY 18 Work Plan
- Uncertainty of FY 18 funding is a concern



### Major Activity Schedule

Activity	Baseline	Current
RCC Option 3 Award	Nov 2017	30 Sep 2018*
Dredging Award T.O. 2	30 Sep 2018	30 Sep 2018*
Stilling Basin Award	30 Sep 2018	30 Sep 2018*

\*Requires Work Plan Funding

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# Discussion

Aerial view of Charleroi Lock Construction



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