

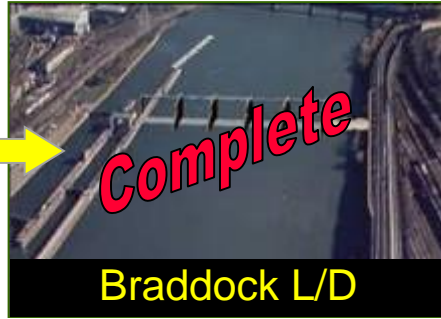
Lower Mon Bottom Line Up Front

- ✓ Current Schedule: **On Schedule**
 - ▶ **January 2023** (Early Project Operational, 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 in FY 17.
 2. **River Chamber Completion Options 1 and 2 awarded in FY 2017.**
 3. **Pool 3 Dredging contract awarded in FY 2017, 300K CY scheduled for removal in FY2018**
 4. \$0 in FY18 President's Budget Request has potential for impacts to cost and schedule.
 5. Continue to investigate alternatives to bring the project in ahead of schedule.
 - Reduction in construction restrictions
 - Design changes
 - Removal of L/D 3 is the final critical path item to achieve project benefits
 - L/D 3 removal contract performance period– reduction possible, will be evaluated when P&S are developed.

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 *1

*1 does not include Land
Chamber nor Port Perry Bridge

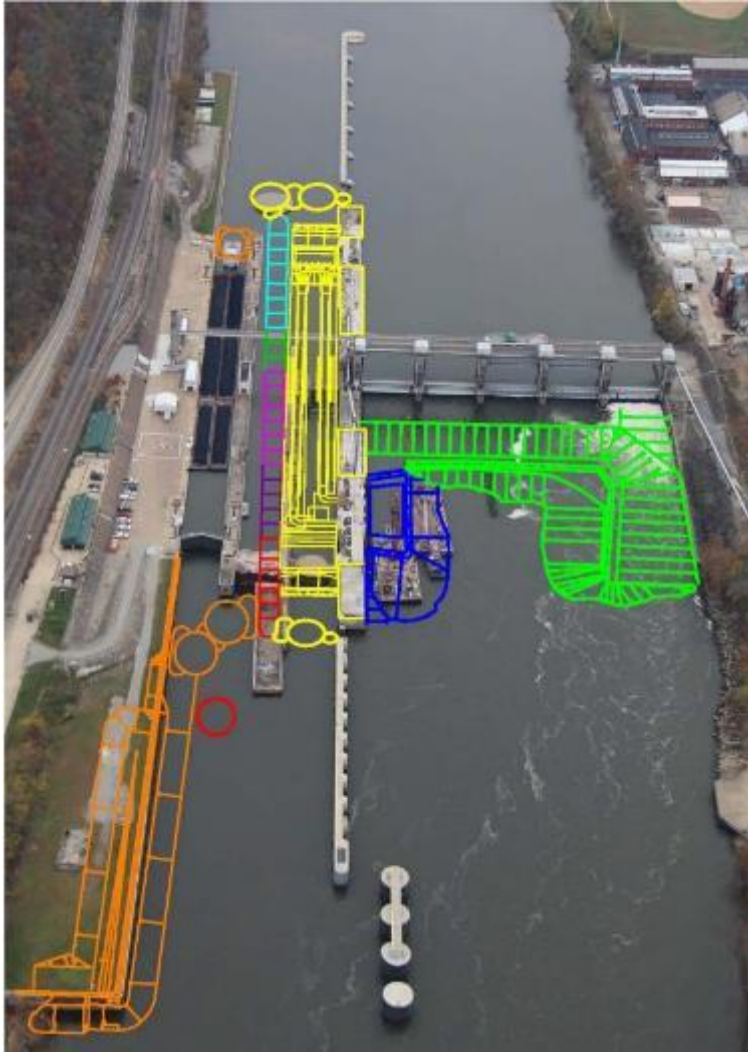
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Lower Mon - Project Schedule

Major Feature Construction	Last Reported Completion (July 2017)	Revised ^{*1}
Charleroi M22-M27	FY 2019	
Charleroi Dam Stilling Basin	FY 2021	
Charleroi River Chamber Completion (RCC)	FY 2023	
Dredging Pool 3	FY 2022	
Relocations	Variable	
Lock and Dam 3 Removal	FY 2023	

*1 – No departure from last reported dates. PDT will begin looking at revised dates related to potential impacts from no FY18 funding. For example, impacts of not awarding RCC Option 3 before expiration on 30 Sep 2018.

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	2019	2019	Completed		NA	58%
RCC Base	2023	2023	2019	Completed		NA	78%*
RCC Opt 1	2023	2023	2027	May 17	Aug 17 A	30 Sep 17	NA
RCC Opt 2	2023	2023	2027	Jun17	Aug 17 A	30 Sep 18	NA
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	2021	Oct 18	Oct 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 Award in FY 2018 as planned since project is not in the FY 2018 President's budget.
- * With additions of option 1&2 you will see a significant reduction in % complete next report

- 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 & M22-M27 Contract aerial View
2 - RCC Base Contract: M2/M3 Tremie Partition

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Lower Monongahela River Project

Time and Cost Scorecard



Expenditures

	No Contingency	Contingency Included	30 Sept 17
Planned (BCWS)	\$713.2M	\$674.4M	
Earned (BCWP)	\$648.5M	\$680.5M	
Actual (ACWP)	\$675.1M	\$675.1M	
	CPI = 0.96	CPI 1.01	

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

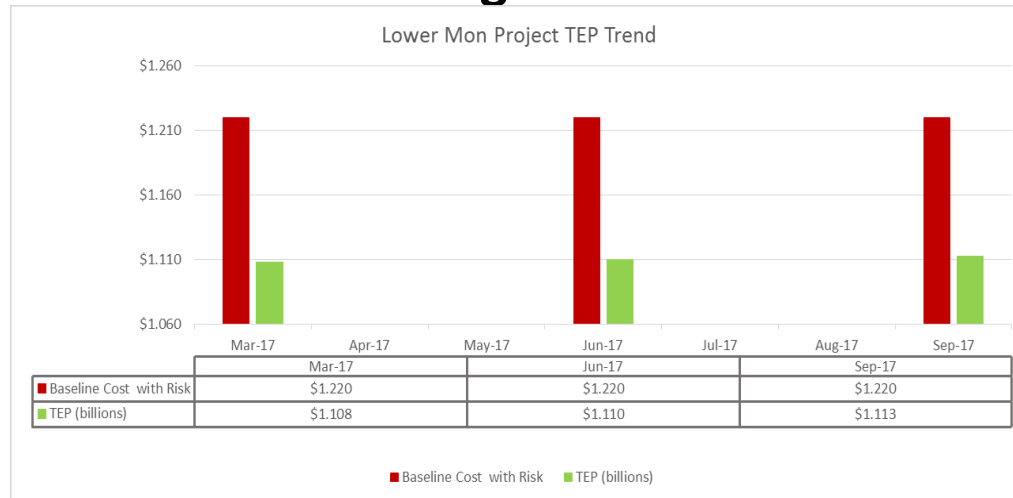
Target:

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 = **\$1.113B** TPC = \$1.220 B

Budget

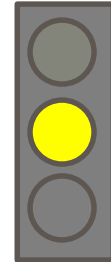


Schedule

(Baseline)/(Current Early) 30 Sept 17

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
Award RCC Option 1	31 Aug 2017	30 Aug 2017 A
Award RCC Concrete 1	31 Aug 2017	31 Aug 2017 A
Award RCC Option 2	31 Aug 2017	30 Aug 2017 A
Award RCC Concrete 2 & 3	31 Aug 2017	31 Aug 2017 A
Dredging Award	29 Sep 2017	29 Sep 2017 A
Award RCC Option 3	Nov 2017	Aug 2018*

* Requires Work Plan Funding

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Discussion

Aerial view of Charleroi Lock Construction



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