

Olmsted Locks & Dam

IWTF Projects Update
Inland Waterways Users Board
Meeting No. 88

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28 August 2018



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Olmsted

Bottom Line Up Front

✓ Current Schedule: **Ahead of Schedule**

- 2018 (Project Operational) vs. 2022 (80% certainty)
- 2021 (Project Complete) vs. 2026 (80% certainty)

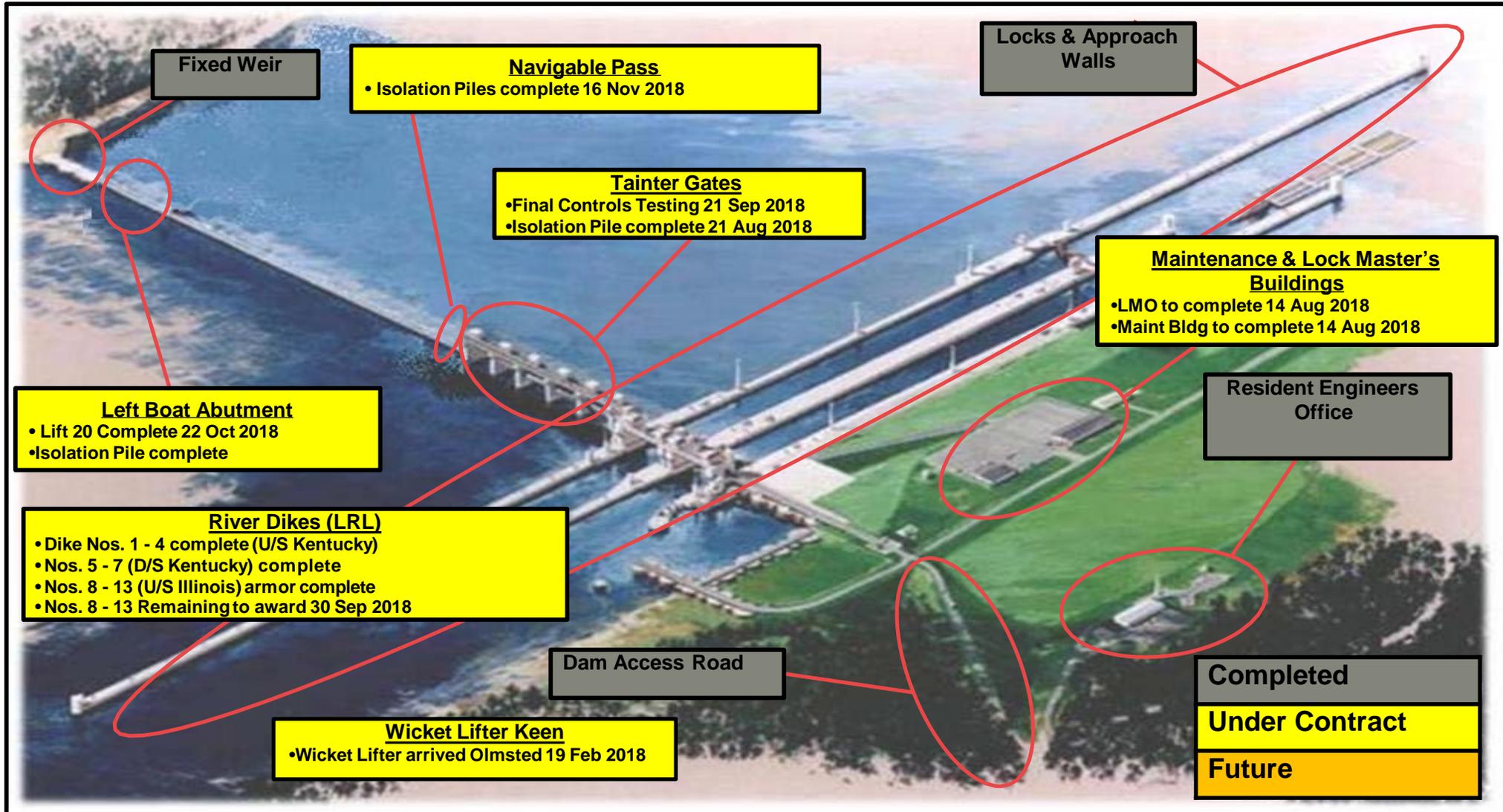
✓ Current Cost: **Under Budget**

- TEP (Total Estimated Price) = \$2.778B vs. \$3.1B (80% certainty)
- Savings = \$322M (FY19 Request = \$35M “Funds to Completion”)

✓ Keys:

1. Efficient funding (annual capability) has allowed the PDT to effectively plan and execute our annual work plan.
2. Advantageous river conditions have allowed the work to expand beyond the contractual low water season (15 Jun – 30 Nov).

Olmsted Project Overview - Status



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OLMSTED STATUS PHOTOS

Pond facing southwest

Facing southwest toward retaining wall

Facing northwest toward retaining wall

Pond facing northwest

Then and Now – July 7th to August 7th
New aerial imagery will be taken in late August.

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OLMSTED STATUS PHOTOS

Mooring Cell #4



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Olmsted Locks and Dam, Ohio River, IL & KY

	ARRA	CG	IWTF	Total
Total Project Cost:				*\$2,856,162,000
Allocations through FY2014:	\$29,516,000	\$943,838,000	\$861,338,000	\$1,834,692,000
FY15 Allocation:	\$0	\$180,803,500	\$31,906,000	\$212,710,000
FY16 Allocation:	NA	\$227,800,000	\$40,200,000	\$268,000,000
FY17 Allocation:	NA	\$212,500,000	\$37,500,000	\$250,000,000
FY18 Allocation: \$44.1M RTD	NA	\$148,750,000	\$26,250,000	\$175,000,000
FY 19 Budget:	NA	\$29,750,000	\$5,250,000	\$ 35,000,000
Total Allocations to Date:	\$29,516,000	\$1,713,692,000	\$997,195,000	\$2,740,402,000
Remaining Balance:		**\$98,395,150	**\$17,363,850	**\$115,759,000
Remaining Balance Change From Last Meeting				\$0

Note: * Cost and Schedule data reflective of the latest Certified Cost Estimate (01 OCT 2017 price levels) completed May 2018.
 Next Certified Cost Estimate (01 OCT 2019 price levels) expected APR 2020.

** Remaining balance includes projected FY19 Budget allocation.

Changes

None

Funding Overview

• Original Authorized Cost:	\$ 775.0M
• 902 Limit:	\$3,559.0M
• ARRA Funding (FY09-11):	\$ 29.5M
• Engineering & Design Cost:	\$ 168.5M
• Supervision & Admin Cost:	\$ 131.0M
• Mitigation:	\$ 16.0M

Next Steps

- Flush Land Chamber Culverts
- Grout sheet pile cutoff wall
- Install isolation pile (2 locations)
- Demo 53 Marine/Construct 4 upstream mooring cells
- Demo 52 Marine
- 52 and 53 Land Disposal

Current Status of the Project

- All Damming surfaces in place
- River Chamber commissioned
- Tainter Gate control commissioning ongoing
- Service Mound Buildings 90% Complete
- Site access road complete



Olmsted Locks and Dam, Ohio River, IL & KY

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Dam	26-Aug-96	28-Jan-04	31-Mar-19	1-Oct-18	31-Mar-20
Wicket Lifter	1-Jan-15	2-Sep-16	21-Dec-17	19-Feb-18	30-Jun-18
Building & Grounds	1-Dec-15	2-Feb-17	14-Aug-18	1-Sep-18	31-Jan-19
Demolition L&D 52	1-Feb-17	30-Sep-18	31-Dec-20	N/A	31-May-21
Demolition L&D 53 (Nav Lane)	15-Oct-16	1-Nov-17	31-Dec-18	N/A	31-Mar-19
River Dikes	12-Feb-15	12-Aug-16	31-Dec-18	31-Dec-18	30-Jun-19

NOTE: Green highlighted dates are actual dates.
Red highlighted dates are changes.



Olmsted Project Time and Cost Scorecard



Expenditures (thru Jun)

Planned (BCWS)	\$2.370B
Earned (BCWP)	\$2.763B
Actual (ACWP)	\$2.524B

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)

Schedule (thru Jun)

	(PACR)/(Current)
Project Complete	April 2026/Dec 2021
Dam Operational	Oct 2022/Oct 2018

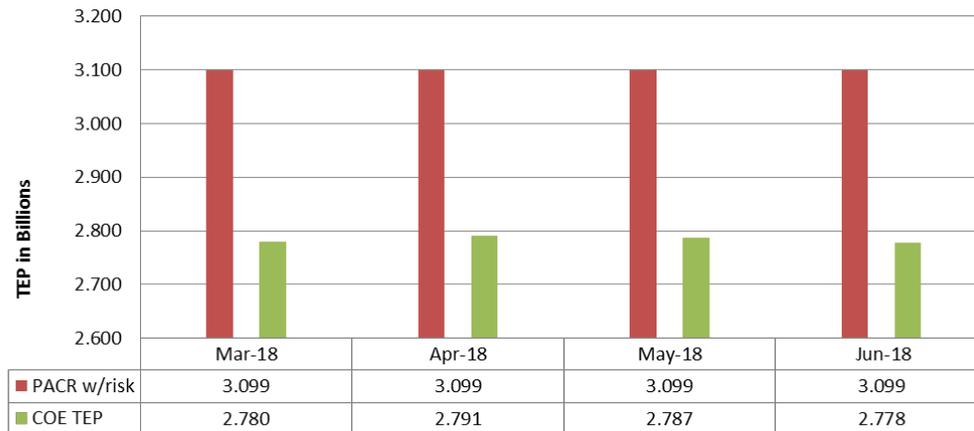
Measures: Planned project completion and Dam contract operational dates

Target:

Green: Current = PACR-12 months
Yellow: Current = PACR-11 months to PACR-7 months
Red: Current = PACR-6 months to after PACR date



Budget (thru Jun)



Major Activity Schedule

Activity	Baseline	Current
NTP L&D 53 Partial Demo	05 May 2018	01 Aug 2018(A)
Complete Tainter Gate Commissioning	20 Sep 2018	20 Sep 2018
Award River Dike Nos. 8-13	30 Sep 2018	30 Sep 2018
Award Demo 52 and Remainder 53	30 Sep 2018	30 Sep 2018
Complete Isolation Pile installation	07 Nov 2018	07 Nov 2018

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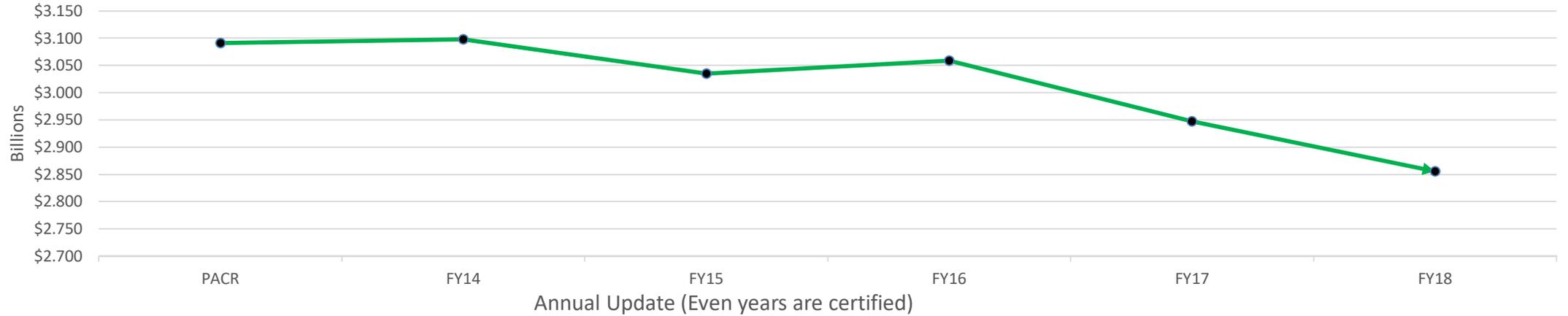


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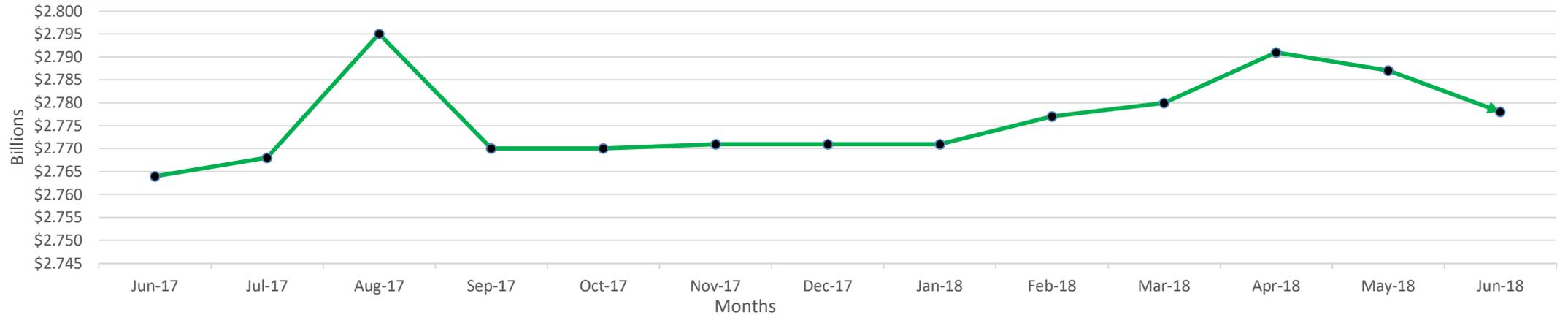


12 Month & 5 Year Cost Trends

TPCS (Last 5 Years)



TEP (Last 12 Months)



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Olmsted Finishing Strong

- ✓ Equipment Disposition
 - Received Limited Direct Sale Authority and Agency Notification (GSA Screening Exemption 18 May 2018).
 - 228 items or lots have been sold or transferred to date. 87 items are currently being processed.
 - Opportunity to reduce cost and offset future programming returning approximately \$3.5M to date.

- ✓ “Out Year” Marine Work Packages
 - Miter Gate Repairs and Culvert Flushing Land Chamber scheduled LWS 18
 - Upstream Mooring Cells 3 & 4 are installed. Partial L&D 53 demolition and Mooring Cells 1 & 2 pending
 - River Dike Nos. 8 – 13 final installation requires river elevation above 300.
 - Procurement of Back-up Wicket Lifter underway

- ✓ Functional Transition
 - Contingency COA to hold pool prior to 1 Oct 2018 predicated on upon sufficient operational performance testing/training (requires river elevation between 290 & 300 and is ongoing)

Discussion



Wicket Lifter



Wicket Testing

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Finishing Strong

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