Olmsted Locks & Dam

Project Update Inland Waterways Users Board (Meeting No. 89)

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Olmsted Bottom Line Up Front

✓ Current Schedule: Ahead of Schedule

Operational Milestone

1 Oct 2022 (80% cert. (PACR))

1 Oct 2018 Scheduled

6 Sep 2018 Actual

Completion Milestone

2026 (80% cert. (PACR))

2021 Scheduled

✓ Current Cost: Under Budget

TEP (Total Estimated Price) = \$2.782B vs. \$3.1B (80% certainty) Savings = \$317M (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.

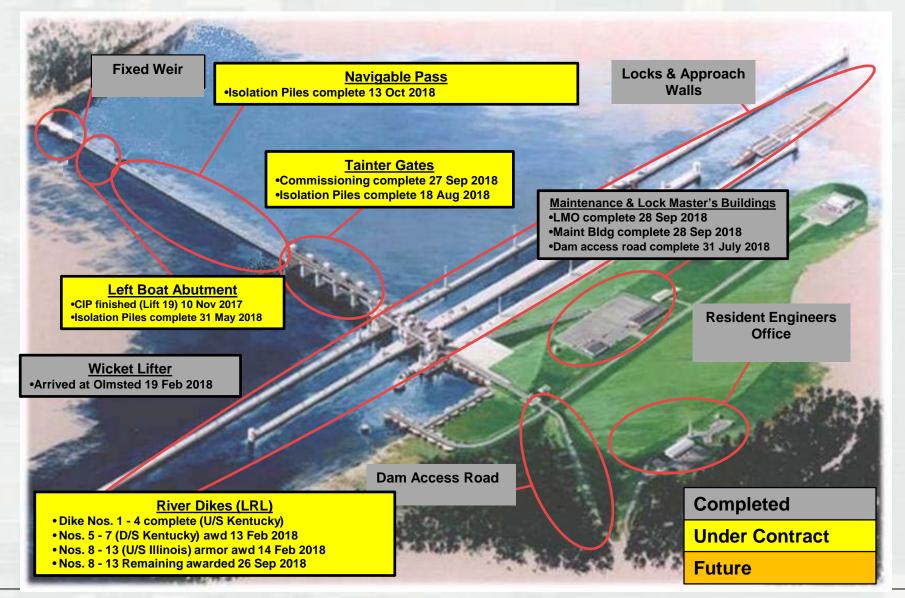
2. Advantageous river conditions have allowed the work to expand beyond the contractual low water season (15 Jun – 30 Nov).







OLMSTED PROJECT OVERVIEW









Olmsted Locks and Dam, Ohio River, IL & KY

	ARRA	CG	IWTF	Total
Total Project Cost:	*\$2,867,296,000			
Allocations through FY2014:	\$29,515,929	\$943,838,592	\$861,338,594	\$1,834,693,115
FY15 Allocation:	\$0	\$180,803,500	\$31,906,500	\$212,710,000
FY16 Allocation:	NA	\$227,800,000	\$40,200,000	\$268,000,000
FY17 Allocation:	NA	\$212,470,000	\$37,500,000	\$249,970,000
FY18 Allocation:	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:	\$29,515,929	\$1,743,412,092	\$1,002,445,094	\$2,775,373,115
Remaining Balance:		\$78,134,452	\$13,788,433	\$91,922,885
Remaining Balance Change From L	\$35,000,000			

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 FY19 Budget allocation. \$30K reprogrammed to Soo Locks 6 April 2018.

Changes None

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• Original Authorized Cost:	\$ 775.0M	Next Steps Complete grouting of sheet pile cutoff wall				
• 902 Limit: • ARRA Funding (FY09-11):	\$3,559.0M \$ 29.5M	Complete finish details of isolation pile installation Award demo L&D 53 Marine Ph II				
 Engineering & Design Cost: Supervision & Admin Cost: 	\$ 168.5M \$ 131.0M	L&D 52 and 53 Landside demolition and property disposal				
Mitigation:	\$ 16.0M	Continue demobilization of dam contractor				

Current Status of the Project

- All Damming surfaces in place
- Tainter Gate control commissioning complete
- Service Mound Buildings Complete
- U/S MC's under construction
- L&D 52 marine demo awarded 26 Sep 2018
- L&D 53 Ph I marine demo progressing



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	6-Sep-18	31-Mar-20
Wicket Lifter	1-Jan-15	2-Sep-16	21-Dec-17	19-Feb-18	30-Dec-20
Building & Grounds	1-Dec-15	2-Feb-17	28-Sep-18	1-Oct-18	31-Jan-19
Demolition L&D 52	1-Feb-17	26-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.

Wicket Lifter Keen placed in service 27 April 2018



Working Spend Plan

(Dollars in Thousands)

	<u>Contracts</u>	<u>S&A</u>	E&D	<u>Total</u>	
FY19	\$77,877	\$6,000	\$2,000	\$85,877	
FY20	\$11,880	\$4,500	\$1,500	\$17,880	
FY21	\$0	\$3,000	\$500	\$3,500	
FY22	\$0	\$2,000	\$0	\$2,000	
Total	\$89,757	\$15,500	\$4,000	\$109,257	

^{*} Spend plan information sourced from TEP estimates and is presented without contingency reserve budget (i.e. \$2.775B ILO \$3.1B) effectively removed from project programming subsequent to User Board No. 86.



Olmsted Project Time and Cost Scorecard



Expenditures (thru Sep)

Planned (BCWS) \$2.408B Earned (BCWP) \$2.814B Actual (ACWP) \$2.570B

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 Sep)

(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 Sep)



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	27 Sep 2018(A)
Award River Dike Nos. 8-13	30 Sep 2018	26Sep 2018(A)
Award Demo 52	30 Sep 2018	26 Sep 2018(A)
Complete Isolation Pile installation	07 Nov 2018	13 Oct 2018(A)

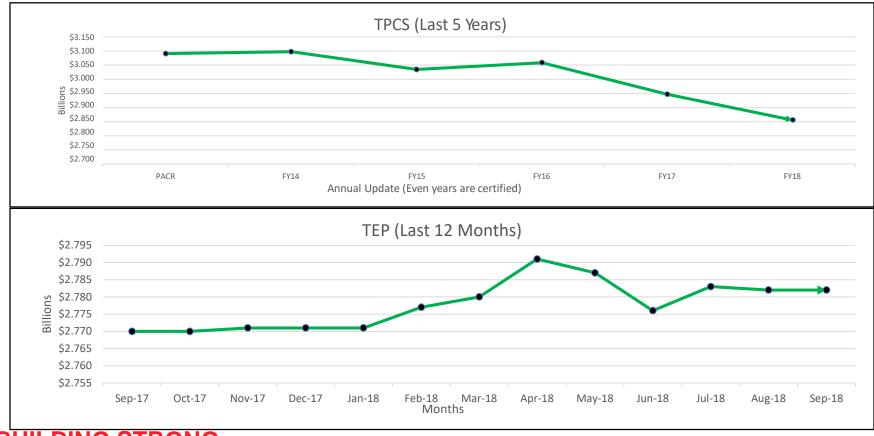








12 Month & 5 Year Cost Trends



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Olmsted Finishing Strong

- ✓ Equipment Disposition
- 535 items or lots have been sold or transferred to date. 341 items are currently being processed.
- Opportunity to reduce cost and offset future programming returning approximately \$3.4M to date.
- ✓ "Out Year" Marine Work Packages
- L&D 53 Ph II in discussion
- Procurement of Back-up Wicket Lifter underway
- L&D 52 Demo awarded
- ✓ Functional Transition
- Locks and Dam were put into service on 6 Sept 2018. Items remaining to be completed include one
 isolation joint, install permanent wicket lifter anchor and spall/bleed hole repair.

LWS 18 Impacts

- Early operation of Olmsted
- High water throughout the LWS 18











Worlds largest catamaran barge leaving the site.

Discussion



