

Inland Waterways Users Board Meeting No. 88 Paducah, KY

Financial Report & Project Summaries

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USACE Headquarters

28 August 2018



®

US Army Corps of Engineers
BUILDING STRONG®



FY 18 Status of Trust Fund

(31 July 2018)

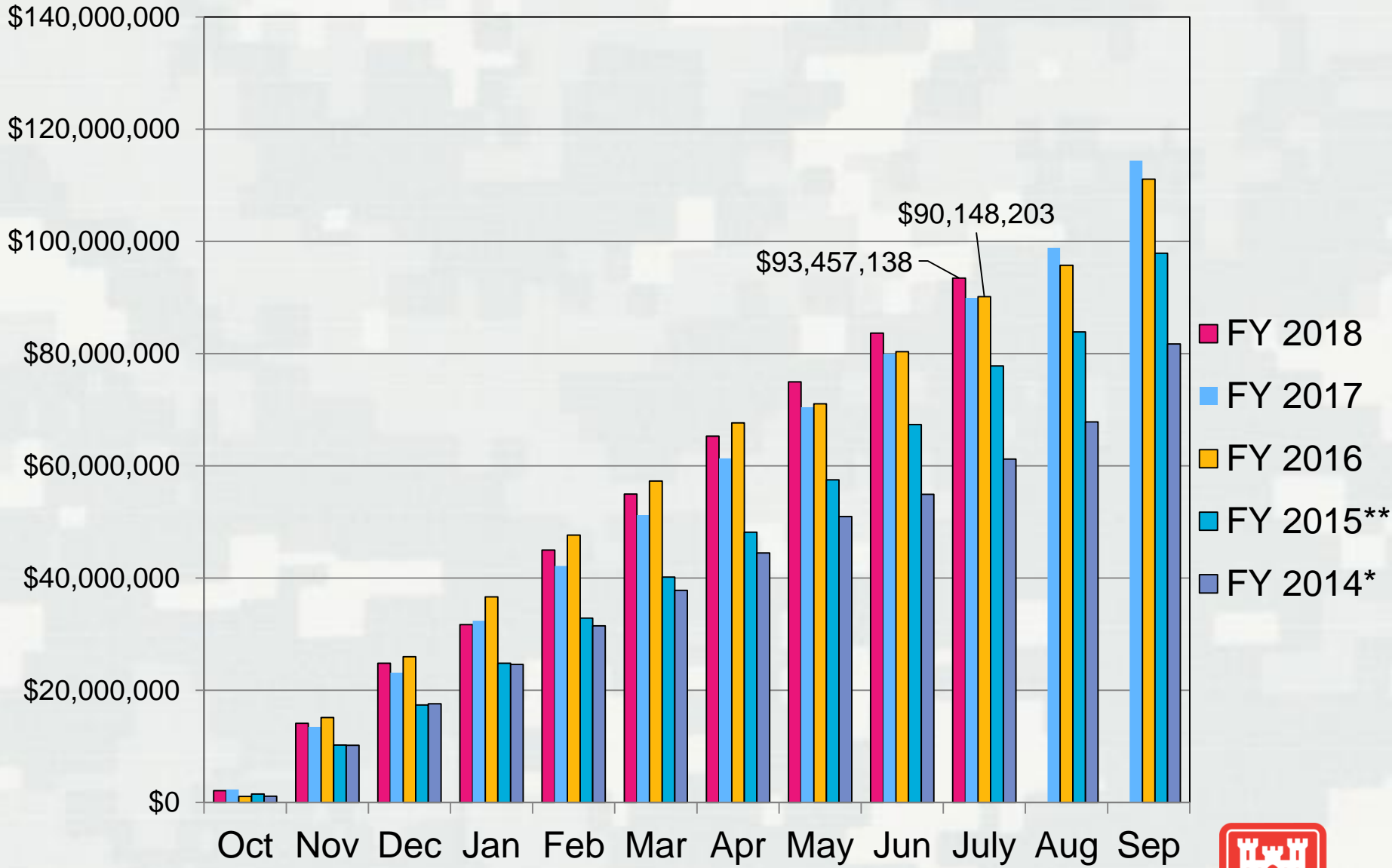
	IWTF	USACE
FY 18 Beginning Balance:	\$63,395,863	\$0
Previous Transfer Authority(SEQ/ATB)	\$0	\$0
Previous Transfer Authority(PTA)	\$0	\$0
Total Beginning Revenue Balance -	\$63,395,863	\$0
Transfers from Corps (8861) to IWTF	\$0	\$0
FY 18 Fuel Tax Revenue:	\$92,085,332	\$0
FY 18 Interest:	\$1,371,806	\$0
Total Year To Date Revenue -	**\$93,457,138	\$0
Total Revenue Balance -	\$156,853,001	\$0
Transfers from Project to Corps HQ IWTF (8861)	\$0	\$0
Transfers from IWTF to Corps HQ IWTF (8861)	-\$11,443,281	\$11,443,283
Transfers from Corps (3122) to US Treasury	\$0	\$0
Total Activity -	-\$11,443,281	\$11,443,281
FY18 Available Balance -	\$145,409,720	\$11,443,281

Source: IWTF statements from Dept. of Treasury, Bureau of Public Debt.

**Amount includes adjustment made by Bureau of Fiscal Service to bring appropriated estimates to actual taxes received.



INLAND WATERWAYS TRUST FUND REVENUE

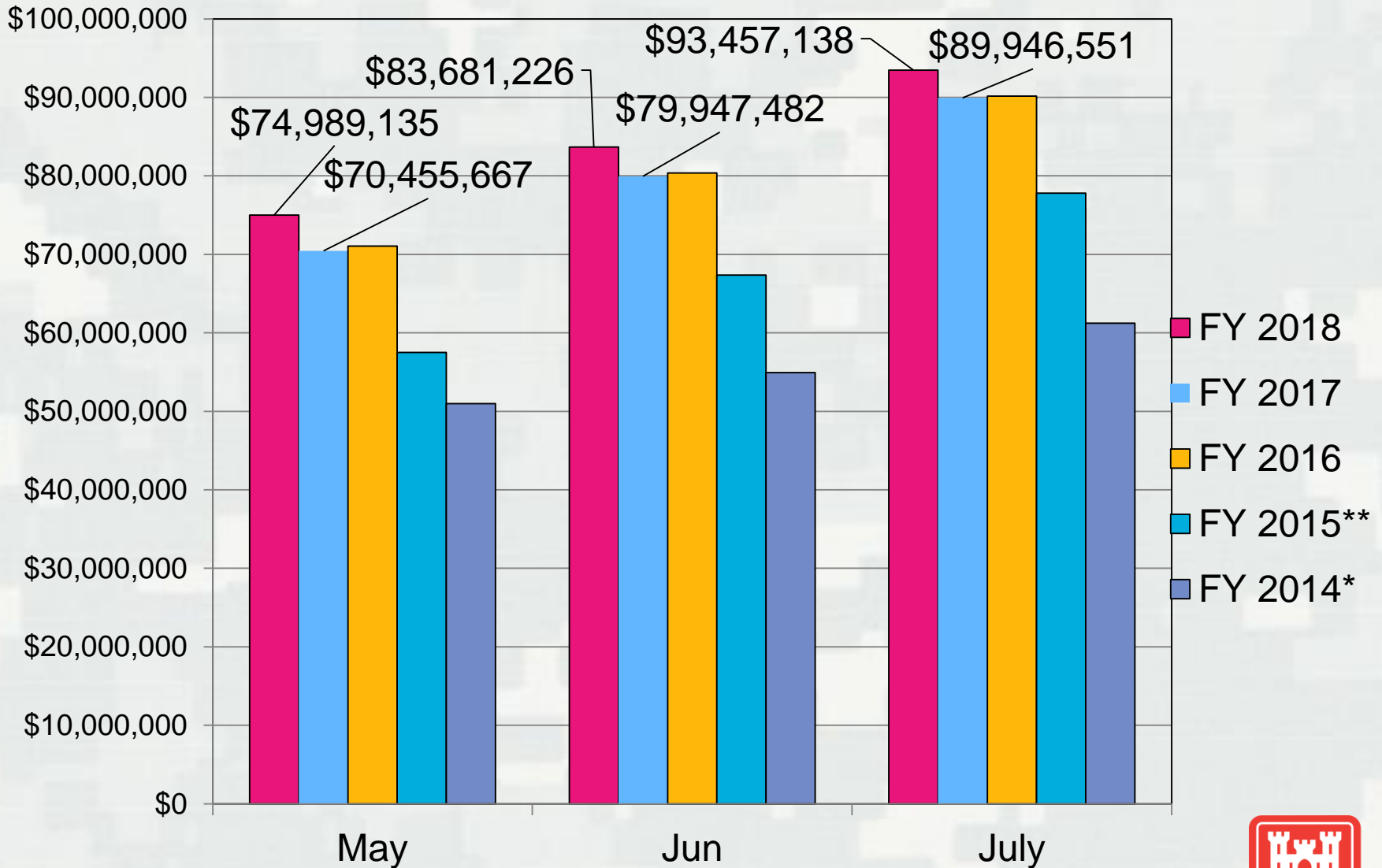


• Full year fuel tax collections @ \$0.20 / gallon.

** Half-year fuel tax collections @ \$0.20 / gallon and Half-year fuel tax collections @ \$0.29 / gallon.



INLAND WATERWAYS TRUST FUND REVENUE



• Full year fuel tax collections @ \$0.20 / gallon.

** Half-year fuel tax collections @ \$0.20 / gallon and Half-year fuel tax collections @ \$0.29 / gallon.



IWTF Projects – President’s Budget and Total Allocation

<u>Project</u>	<u>Funding Item</u>	<u>FY2014</u>	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>
<u>Olmsted</u>	President’s Bud	\$163,000,000	\$160,000,000	\$180,000,000	\$225,000,000	\$175,000,000	\$35,000,000
	Total allocation	¹ \$165,712,374	² \$212,710,000	\$268,000,000	¹¹ \$250,000,000	\$0	\$0
<u>Lower Mon</u>	President’s Bud	\$1,960,000	\$9,032,000	\$52,000,000	\$0	\$0	\$0
	Total allocation	^{1,3} \$72,673,000	¹ \$55,888,463	\$58,900,000	⁸ \$82,010,000	⁹ \$98,000,000	\$0
<u>Emsworth</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	¹ \$2,000	¹ \$-2,715,701	\$0	⁸ \$1,000,000	\$0	\$0
<u>Kentucky L&D</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$0.00	³ \$14,700,000	⁶ \$45,700,000	⁸ \$36,000,000	⁹ \$39,500,000	\$0
<u>Chick L&D</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	⁴ \$1,815,000	⁵ \$3,000,000	⁶ \$29,600,000	⁸ \$40,000,000	⁹ \$76,500,000	\$0
<u>LaGrange</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$0	\$0	\$0	\$0	^{9,10} \$10,000,000	\$0
<u>IHNC</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$0	\$0	\$0	\$0	\$0	\$0

1. Reflects reprogramming from Lower Mon (FY14: \$2M to Olmsted & 2K to Emsworth and FY15 \$2K to Emsworth), and withhold.
2. Reflects FY2015 PB (\$160M) & Funding Pot allocations (\$47.3M - NAV), (\$4.9M - Hydro), McAlpine reprogramming (\$510K)
3. Reflects \$2M reprogrammed from Lower Mon to KY L&D (Nov 2014) & FY2015 NAV Funding Pot allocations (\$12.7M).
4. Reflects withhold.
5. FY2015 NAV Funding Pot allocations (\$3M).
6. Reflects \$300K reprogramming from Chick L&D to KY Lock as a result of higher than anticipated bids for DS Cofferdam contract required for risk-based TPCE, FY17 construction contract design activities, and an Economic Update.
7. Reflects \$550K reprogrammed from Lockport (Split 50% General Treasury/50% IWTF) to Fargo Moorhead Metro (100% General Treasury). The \$275K IWTF reprogrammed from Lockport remains at HQUSACE for future allocation to IWTF projects.
8. Amount includes allocation provided through the FY17 work plan.
9. Amount includes allocation provided through the FY18 work plan.
10. New Start to be funded upon Congressional Notification of Project Affordability Analysis Per FY18 E&EDW



Project Updates

(Mississippi Valley Division)

- Inner Harbor Navigation Canal (IHNC)



IHNC Lock Replacement, GIWW, LA

	ARRA	CG	IWTF	Total
Total Project Cost (TPC):	\$0	\$791,588,500	\$609,837,500	\$1,401,426,000
Allocations thru FY14:	\$0	\$72,139,770	\$66,235,004	\$138,374,774
FY15 Allocation:	\$0	\$0	\$0	\$0
FY16 Allocation:	NA	\$0	\$0	\$0
FY17 Allocation:	NA	\$0	\$0	\$0
FY18 Allocation:	NA	\$0	\$0	\$0
FY 19 Budget:	NA	\$0	\$0	\$0
Allocations to Date:		\$72,139,770	\$66,235,004	\$138,374,774
Remaining (TPC) Balance:		\$719,448,730	\$543,602,496	\$1,263,051,226
Remaining Balance Change From Last Meeting				\$0

<u>Changes</u>	
<ul style="list-style-type: none"> • None 	
<p style="text-align: center;"><u>Funding Overview</u></p> <ul style="list-style-type: none"> • Original Authorized Cost: \$714M • Not applicable to Sec 902 • ARRA Funding (FY09-11): \$ 0M • Engineering & Design Cost: \$39.8M • Supervision & Admin Cost: \$ 2.5M • Mitigation: \$ 4.0M 	<p style="text-align: center;"><u>Current Status of the Project</u></p> <ul style="list-style-type: none"> • PCA amendment was executed on 8 Feb 2018, revising the construction cost-share. • MVN sent formal funding request letter for the amount owed by the Port of New Orleans on 14 Mar 18. • All funds have been released from Escrow and distributed in accordance with the final account. Construction project has been fiscally closed. • Continue Lock Replacement GRR. <p style="text-align: center;"><u>Next Steps</u></p> <ul style="list-style-type: none"> • Continue GRR for lock replacement; scheduled completion December 2019.



IHNC Lock Replacement, GIWW, LA

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Task 1- last completed	N/A	N/A	N/A	N/A	N/A
Task 2- Next or ongoing	N/A	N/A	N/A	N/A	N/A
Task 3	N/A	N/A	N/A	N/A	N/A



Project Updates

(Great Lakes and Ohio River Division)

- Olmsted Locks and Dam
- Monongahela River Locks 2, 3 and 4
- Kentucky Locks and Dam
- Chickamauga Lock and Dam
- Emsworth Locks and Dam



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	\$1,713,691,00	\$997,194,000	\$2,740,401,500
Remaining TPC 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 (1 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.



Locks and Dams 2, 3, and 4, Monongahela River, PA

Current Project Estimate* ¹ : \$1.23B (\$2.76B)	ARRA	CG	IWTF	Total
Allocations through FY2014:	\$68,402,740	\$281,175,646	\$281,175,652	\$630,754,038
FY15 Allocation:	(\$141,537)	\$28,015,000	\$28,015,000	\$55,888,463
FY16 Allocation:	NA	\$29,450,000	29,450,000	\$58,900,000
FY17 Allocation:	NA	\$41,005,000	\$41,005,000	\$82,010,000
FY18 Allocation:	NA	\$49,000,000	\$49,000,000	\$98,000,000
FY19 Budget:	NA	\$0	\$0	\$0
Total Allocations to Date:	\$68,261,203	\$428,645,646	\$428,645,652	\$925,552,501
Remaining TPC Balance:		\$154,141,253	\$154,141,247	\$308,282,499
Remaining Balance Change From Last Meeting:				\$0

Changes: Revised table to show allocations thru 2014 vice 2013. FY18 Work Plan Funding Approved for \$98 M. Not in FY19 Budget.

Funding Overview

- Original Authorized Cost: \$556M
- 902 Limit: \$1.76B
- ARRA Funding (FY09-FY15): \$68.3M
- Engineering & Design Cost: \$694M*²
- Supervision & Admin Cost: \$183M*³
- Mitigation: \$12M
- Fully Funded Estimate: \$2.76B

Next Steps

- Stilling Basin package for Award – FY18 (September)
- Award Dredging Task Order #2 – FY18 (September)
- Award RCC Option 3 Award – FY18 (September)

Current Status of the Project

- Charleroi M22 – M27 Construction – **Considering alternatives to de-conflict RCC Option 3 work area**
- Charleroi RCC Construction – **5%** behind schedule

*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. \$694M includes all Engineering & Engineering During Construction, including \$473M for the Charleroi Land Chamber, \$378 million of which is inflation.

*3. \$183M includes all construction contract Supervision and Administration, including \$120M for the Charleroi Land Chamber, \$102 million of which is inflation.



Locks and Dams 2, 3, and 4, Monongahela River, PA

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete *2	Project Benefits*3	Capitalized Cost Closeout*3
Charleroi River Wall	1-Oct-95	27-Sep-04	30-May-16	2023	2025
Charleroi Emptying Basin	1-Oct-95	30-Sep-13	11-Nov-15	2023	2025
Charleroi River Chamber (M22-M27)	1-Oct-95	15-Aug-14	FY 2020 S	2023	2025
Charleroi Dam Stilling Basin	1-Oct-95	FY 2018 S	FY 2021 S	2023	2025
Charleroi River Chamber Completion	1-Oct-95	16-Sep-15	FY 2023 S	2023	2025
L/D 3 Removal	2020	2021 S	FY 2023 S	2023	2025
Dredging	1-Oct-95	29-Sep-17	FY 2020 S	2023	2025
Municipal Relocations *1	1-Oct-95	Multiple	Multiple	NA	2025

- * 1: To complete all municipal relocations, multiple relocation agreements are required.
- * 2: Dates are achievable based on the most efficient funding profile (early schedule).
- * 3: Project benefit and close out dates are based on the most efficient funding profile & breaching of Dam 3. Early contract completion for Dam 3 removal extends into 2023.
- 4: River Chamber Completion (RCC) Option 1 and Option 2 were awarded in August, FY 2017.
- 5: Charleroi M22-M27 Construction is behind schedule but there is currently no impact on receiving project benefits.

Actual

"S"= Scheduled



Kentucky Locks & Dam, Tennessee River, KY

	ARRA	CG	IWTF	Total
Total Project Cost (TPC):				\$1,254,485,000 ¹
Allocations through FY2014:	\$88,833,626	\$175,955,288	\$141,460,987	\$406,249,901
FY15 Allocation:	\$0	\$7,350,000	\$7,350,000	\$14,700,000
FY16 Allocation:	NA	\$22,850,000	\$22,850,000	\$45,700,000
FY17 Allocation:	NA	\$18,000,000	\$18,000,000	\$36,000,000
FY18 Allocation:	NA	\$19,750,000	\$19,750,000	\$39,500,000
FY19 Budget:	NA	\$0	\$0	\$0
Total Allocations to Date:	\$88,833,626	\$243,905,288	\$209,410,987	\$542,149,901
Remaining TPC Balance:				\$712,335,099
Remaining Balance Change From Last Meeting				\$0

Note: ¹Project cost data is reflective of 03 Jan 17 certified cost at a price level adjustment (OCT 17 \$'s), Fully Funded, 2024 completion

Changes FY18 Allocation

Funding Overview

- **Authorized Cost:** \$796,318,000 (Oct16 \$)
- **902 Limit:** \$819,736,000 (Oct15 \$)
- **ARRA (FY09-13):** \$ 88,833,628
- **Engineering & Design Cost:** \$111,080,000 (Thru FY17)
- **Supervision & Admin Cost:** \$ 19,412,000 (Thru FY17)
- **Mitigation Cost:** TBD;
alternative analysis on hold pending funding

Current Status of the Project

- Downstream Cofferdam construction is **35%** complete and Site Demolition Utilities contract is **24%** complete.
- **Downstream Lock Excavation construction contract was advertised on 13 July 2018.**

Next Steps

- **Update TPCE, Economic Update, & PACR by this fall / winter.**
- **Award Downstream Lock Excavation contract by 30 Sep 18.**



Kentucky Locks & Dam, Tennessee River, KY

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete*	Project Benefits	Capitalized Cost Closeout
Task 1 – HWY / RR Superstructures	01-Oct-99	19-Sep-05	24-May-12		
Task 2 – Upstream Lock Monoliths (all Options)	01-Oct-00	29-Jan-10	30-Dec-16		
Task 3 – Upstream Miter Gate Fabrication	01-Oct-02	30-Sep-13	1-Mar-16		
Task 4 – Downstream Cofferdam	01-Oct-00	30-Sep-16	1-Mar-20		
Task 5 – Site, Demolition, & Utilities	01-Oct-00	31-Jan-18	30-Jan-19		
Task 6 – Downstream Lock Excavation	01-Oct-00	30-Sep-18	1-Mar-21		
Task 7 – Downstream Lock	01-Oct-00	30-Sep-20	12-Mar-24	12-Mar-24**	
Task 8 – Approach Walls	01-Oct-02	30-Sep-21	21-Nov-23		

*Dates are achievable based on the most efficient funding profile.

**Based on 3 Jan 17 Certified cost estimate Cost and Schedule Risk Assessment, the project has an 80% confidence level of being completed by 2028. Three of the four years of this schedule contingency is due to the risk of not receiving efficient funding.



Chickamauga Lock & Dam, Tennessee River, TN

	ARRA	CG	IWTF	Total
Total Project Cost (TPC):				\$757,666,000¹
Allocations through FY2014:	\$49,307,619	\$65,349,036	\$68,161,965	\$182,818,620
FY15 Allocation:	\$0	\$1,500,000	\$1,500,000	\$3,000,000
FY16 Allocation:	NA	\$14,800,000	\$14,800,000	\$29,600,000
FY17 Allocation:	NA	\$20,000,000	\$20,000,000	\$40,000,000
FY18 Allocation:	NA	\$38,250,000	\$38,250,000	\$76,500,000
FY19 Budget:	NA	\$0	\$0	\$0
Total Allocations to Date:	\$49,307,619	\$139,899,036	\$142,711,965	\$331,918,620
Remaining TPC Balance:				\$425,747,380
Remaining Balance Change From Last Meeting				\$(73,512,000)

Note: ¹Cost & Schedule data reflect the FY2018 risked based total project cost update, Fully Funded, assuming Dec 2024 completion.

Changes

FY18 appropriations and updated total project cost estimate certified 21 June 2018.

Funding Overview

- Authorized Cost: **\$427,443,000** (Oct 17 \$)
- 902 Limit: **\$480,876,000** (Oct 17 \$)
- ARRA Funds: \$ 49,307,619 (total FY09-12)
- Engineering & Design Cost: \$ 47,306,000 (thru FY17)
- Supervision & Admin Cost: \$ 7,338,000 (thru FY17)
- Mitigation Cost: TBD

Current Status of the Project

- Lock Chamber base contract is **55%** financially complete.
- Lock Excavation (LE) contract is **70%** financially complete.
- HQ USACE approved PACR on 19 Jul 18.

Next Steps

- Progress rock blasting/excavation activities in LE contract; **current contract completion date 6 Nov 18.**
- Exercise Lock Chamber contract options in FY18.
- **ASA(CW) & OMB review of PACR.**



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Chickamauga Lock & Dam, Tennessee River, TN

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete *	Project Benefits**	Capitalized Cost Closeout
Task 1 – Approach Walls Fabrication	30-Mar-04	05-Apr-10	08-Mar-13		
Task 2 – Cofferdam Stabilization	31-Sep-05	25-Sep-15	18-Jul-16		
Task 3 – Lock Excavation	31-Sep-05	26-Sep-16	Nov 2018		
Task 4 – Lock Chamber	11-Aug-05	28-Sep-17	May 2023		
Task 5 – Approach Walls and Decommission	11-Aug-05	30-Sep-21	Dec 2024	Sept 2023	
Task 6 – Site Restoration	11-Aug-05	30-Sep-23	Dec 2024		

*Dates are achievable based on the most efficient funding profile.

**Based on June 2018 Certified cost estimate Cost and Schedule Risk Assessment, the project has an 80% confidence level of being completed by Jan 2027. Primary driver for the 25 months of schedule contingency is the funding stream uncertainty.



Emsworth Locks & Dam, Ohio River, PA

	ARRA	CG	IWTF	Total
Total Project Cost (TPC):				\$160,000,000
Allocations through FY14:	\$33,554,348	\$73,947,000	\$48,147,000	\$155,648,348
FY15 Allocation:	-\$2,717,701	\$1,000	\$1,000	-\$2,715,701
FY16 Allocation:	NA	\$0	\$0	\$0
FY17 Allocation:	NA	\$500,000	\$500,000	\$1,000,000
FY18 Allocation:	NA	\$0	\$0	\$0
FY19 Budget:	NA	\$0	\$0	\$0
Total Allocations to Date:	\$30,836,647	\$74,448,000	\$48,648,000	*\$153,932,647
Remaining TPC Balance:		\$3,033,676	\$3,033,676	\$6,067,353
Remaining Balance Change From Last Meeting				\$ 0

*Any remaining IWTF dollars will be reallocated/transferred to other IWTF requirements and will result in a reduced draw on the IWTF, which will be reflected as an adjustment in a future apportionment.

Changes: No Change

Funding Summary

- Original Authorized Cost: \$ 160M
- 902 Limit: N/A*
- Wedge Funding (FY04-05): \$ 3.5M
- ARRA Funding (FY09-FY13): \$ 30.9M
- Engineering & Design Cost: \$ 14.1M**
- Supervision & Admin Cost : \$ 8.6M
- Mitigation: \$ 0.0M

Current Status of the Project

- Work to clean and paint 2 sets of Emergency Bulkheads to complete August 2018.

Next Steps

- 8 May 2018 DSOG review recommended change from DSAC 1 to DSAC 4.
- Project scheduled to be fiscally complete in FY19

* Actual project cost will be less than Approved Cost

** \$14.1M includes All Engineering & Engineering During Construction



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Emsworth Locks & Dam, Ohio River, PA

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
Back Channel Right Abutment	31-Jan-09	31-Aug-09	31-Dec-10	1-Jan-11	31-Oct-11
Main Channel Gate & Scour Rehab	1-Jun-07	30-Jul-08	31-Jan-14	1-Feb-14	31-Jul-15
Main Channel Service Bridge Rehab	31-Aug-10	13-Jan-12	26-May-14	27-May-14	30-Sep-14
Back Channel Scour Protection	30-Sep-09	31-Mar-10	31-Oct-14	1-Nov-14	31-Jul-15
Back Channel Dam Under Apron Grouting, Gate Bays 12-14	01-Feb-15	31-Jul-15	4-Nov-15	4-Nov-15	31-Jan-16



Questions

