

Inland Waterways Users Board

Meeting No. 89

St. Louis, MO

Financial Report & Project Summaries

Mr. Joseph Aldridge
USACE Headquarters

29 November 2018



US Army Corps of Engineers
BUILDING STRONG®



FY 18 Status of Trust Fund

30 September 2018

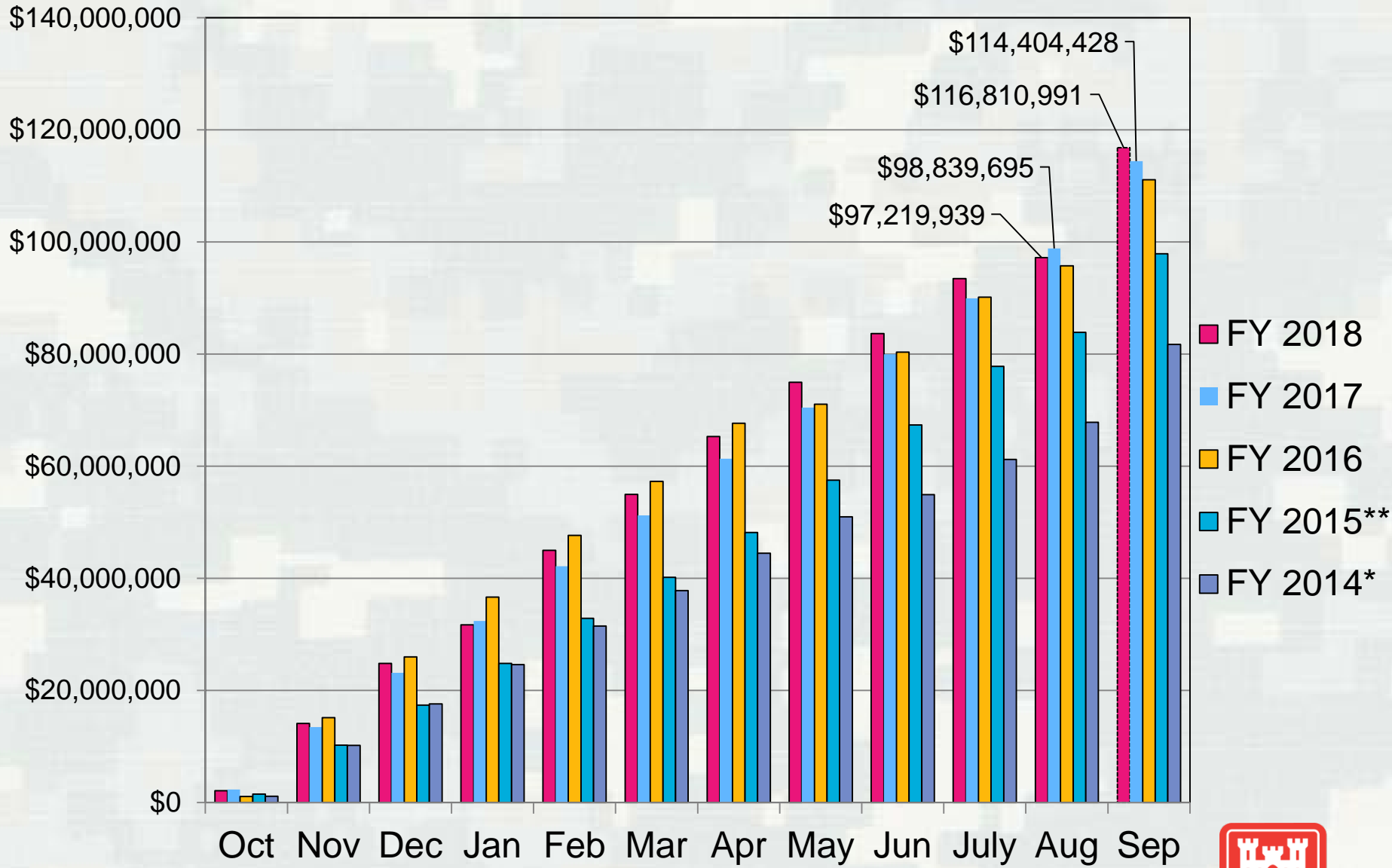
	U.S. Treasury	USACE
Revenue Collected to Date		
+ FY 18 Beginning Balance:	\$63,395,863	\$0
+ FY 18 Fuel Tax Revenue:	\$115,002,687	\$0
+ FY 18 Interest:	\$1,808,304	\$0
Total Revenues	\$180,206,854	\$0
Transfers to Date		
- Previous Transfer Authority(SEQ/ATB)	\$0	\$0
+USACE HQ IWTF (8861) to U.S. Treasury	\$0	\$0
+U.S. Treasury to USACE HQ IWTF (8861)	(\$49,273,204)	\$49,273,204
Total Transfers	(\$49,273,204)	\$49,273,204
Total Year-End U.S. Treasury Balance**		
	\$130,933,650	\$0
- Total Remaining Project Unobligations	\$(97,622,729)	\$0
Total Available Balance	\$33,310,921	\$0
FY19 Carry-Over Available Balance		
	\$33,310,921	\$0

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

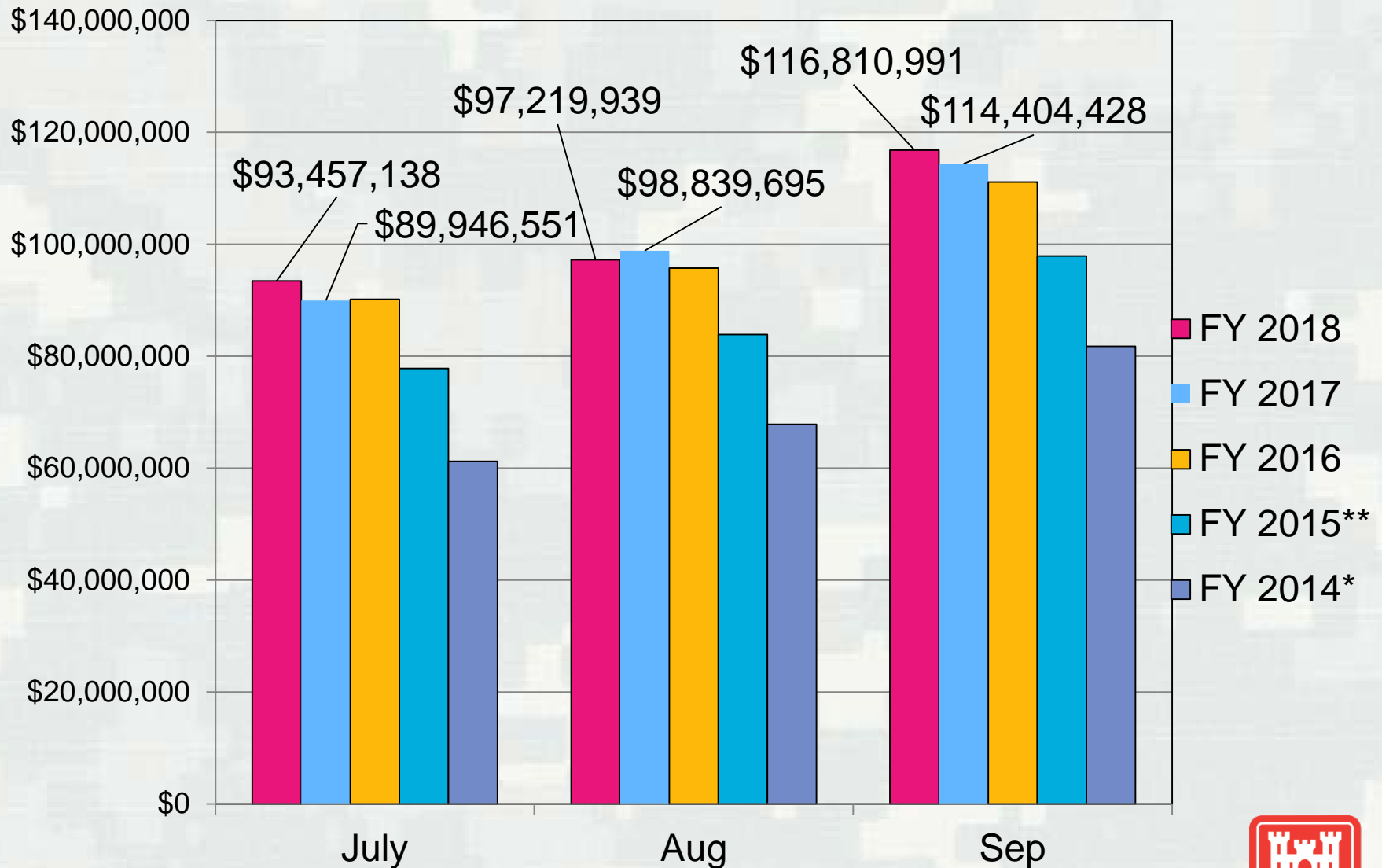


• Full year fuel tax collections @ \$0.20 / gallon.

** 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	⁸ \$250,000,000	\$175,000,000	¹¹ \$50,000,000
<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	¹² \$89,000,000
<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	¹² \$43,600,000
<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	¹² \$89,700,000
<u>LaGrange</u>	President’s Bud	\$0	\$0	\$0	\$0	\$0	\$0
	Total allocation	\$0	\$0	\$0	\$0	^{9,10} \$10,000,000	¹² \$57,500,000

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. Note deleted.
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
11. Amount includes additional \$15 million provided through the FY19 Work Plan.
12. Amount includes allocation provided through the FY19 Work Plan.



Project Updates

(Mississippi Valley Division)

- Inner Harbor Navigation Canal (IHNC) Lock Replacement
- LaGrange Lock & Dam, ILWW, IL (Major Rehabilitation)



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

Changes

- None

Funding Overview

- **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

Current Status of the Project

- 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.
- **In the process of balancing the cost share between CG and ITWF (preliminary estimates show a refund will be due to ITWF). Fiscal closeout is TBD.**
- **Continue Lock Replacement GRR; 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



LAGRANGE LOCK & DAM, ILWW, IL

	ARRA	CG	IWTF	Total
Total Project Cost (TPC):	\$0	\$33,750,000	\$33,750,000	\$67,500,000
Allocations thru FY14:	\$0	\$0	\$0	\$0
FY15 Allocation:	\$0	\$0	\$0	\$0
FY16 Allocation:	NA	\$0	\$0	\$0
FY17 Allocation:	NA	\$0	\$0	\$0
FY18 Allocation:	NA	\$5,000,000	\$5,000,000	\$10,000,000
FY 19 Allocation:	NA	\$28,750,000	\$28,750,000	\$57,500,000
Allocations to Date:		\$33,750,000	\$33,750,000	\$67,500,000
Remaining (TPC) Balance:		\$0	\$0	\$0
Remaining Balance Change From Last Meeting				-\$57,500,000

Changes

- **TPC, FY19 Budget, Remaining Balance, Remaining Balance Change, S&A, Contract Award**
- **Fully funded \$57,500,000 in FY19 Workplan**

Funding Overview

- **Original Authorized Cost: \$ 67.5M**
- **Not applicable to Sec 902**
- **ARRA Funding (FY09-11): \$ 0**
- **Engineering & Design Cost: \$ 0**
- **Supervision & Admin Cost: \$ 3.5M**
- **Mitigation: \$ 0**

Current Status of the Project

Contract Award 9-Nov-2018

Next Steps

Notice to Proceed, construction begins



LAGRANGE LOCK & DAM, ILWW, IL

Schedule of Remaining Work	Design Initiated	Contract Award	Construction Complete	Project Benefits	Capitalized Cost Closeout
LaGrange Lock Major Rehabilitation	Mar 2017	9 Nov 2018	TBD	TBD	TBD



Project Updates

(Great Lakes and Ohio River Division)

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



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
FY19 Budget:	NA	\$29,750,000	\$5,250,000	\$ 35,000,000
FY19 Allocation:		\$12,750,000	\$2,250,000	\$ 15,000,000
Total Allocations to Date:	\$29,515,929	\$1,756,162,092	\$1,004,695,094	\$2,790,373,115
Remaining TPC Balance:		\$65,384,452	\$11,528,433	\$76,922,885
Remaining Balance Change From Last Meeting				-\$50,000,000

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.

Changes

Funded \$15,000,000 in FY19 Workplan

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

Current Status of the Project

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

Next Steps

- Grout sheet pile cutoff wall
- Complete isolation pile installation(1 locations)
- Demo 53 Marine Ph II
- L&D 52 and 53 Landside demolition and property disposal
- Continue demobilization of dam contractor



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 Apr 2018.



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	\$48,150,000	\$48,150,000	\$96,300,000
FY19 Allocation:	NA	\$44,500,000	\$44,500,000	\$89,000,000
Total Allocations to Date:	\$68,261,203	\$472,295,646	\$472,295,652	\$1,012,852,501
Remaining Balance:		\$110,491,247	\$110,491,247	\$220,982,494
Remaining Balance Change From Last Meeting:				-\$89,000,000

Changes: \$1.7M FY 18 Work Plan Funds Reprogramed to Kentucky Lock and Funded \$89,000,000 in FY19 Workplan

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 – **4%** 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	30 Oct -18	FY 2022 S	2023	2025
Charleroi River Chamber Completion	1-Oct-95	16-Sep-15	FY 2023 S	2023	2025
L/D 3 Removal	2020 S	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.

Actual

"S"= Scheduled



Kentucky Lock Addition, 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 Allocation:	NA	\$21,800,000	\$21,800,000	\$43,600,000
Total Allocations to Date:	\$88,833,626	\$265,705,288	\$231,210,987	\$585,749,901
Remaining TPC Balance:				\$668,735,099
Remaining Balance Change From Last Meeting				-\$43,600,000

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

Funded \$43,600,000 in FY19 Workplan

Funding Overview

- **Authorized Cost:** \$796,318,000 (Oct16 \$)
- **902 Limit:** \$819,736,000 (Oct15 \$)
- **ARRA (FY09-13):** \$ 88,833,628
- **Engineering & Design Cost:** \$112,162,000 (Thru FY18)
- **Supervision & Admin Cost:** \$ 21,391,000 (Thru FY18)
- **Mitigation Cost:** TBD;
alternative analysis on hold pending funding

Current Status of the Project

- Downstream Cofferdam construction is **40%** complete; Site Demolition Utilities contract is **41%** complete; and Downstream Lock Excavation construction contract **<1%** completed.

Next Steps

- **Certify new TPCE by 1 January 2019.**
- **Economic Update & PACR by spring 2019.**
- **Progress Downstream Monolith P&S to 30% by summer 2019.**



Kentucky Lock Addition, 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	26-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):				\$757,666,000 ¹
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 Allocation:	NA	\$76,245,000	\$13,455,000	\$89,700,000
Total Allocations to Date:	\$49,307,619	\$216,144,036	\$156,166,965	\$421,618,620
Remaining TPC Balance:				\$336,047,380
Remaining Balance Change From Last Meeting				-\$89,700,000

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

Changes

Funded \$89,700,000 in FY19 Workplan

Funding Overview

- Authorized Cost: **\$757,666,000** (Oct 17 \$)
- 902 Limit: **\$909,199,200** (Oct 17 \$)
- ARRA Funds: \$ 49,307,619 (total FY09-12)
- Engineering & Design Cost: \$ **55,230,000** (thru FY18)
- Supervision & Admin Cost: \$ **9,153,000** (thru FY18)
- Mitigation Cost: TBD

Current Status of the Project

- Lock Chamber contract (Base & Options 1-3 & 5) valued at **\$95.7M; 18% financially complete.**
- Lock Excavation (LE) contract is **79% financially complete.**
- ASA(CW) approved PACR on 12 Oct 2018.
- Project reauthorized in America's Water Infrastructure Act of 2018.

Next Steps

- Complete rock excavation/inspection on LE contract.
- Exercise Lock Chamber contract options in FY19.
- OMB review of PACR.



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

- **Emergency Bulkheads work complete.**

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



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

