

A dynamic splash of clear blue water against a white background, with a thick blue horizontal bar at the bottom.

Capital Planning Committee

November 30, 2018

CIP Committee



Agenda

- Capital Improvement Plan 2020-2024 Update & Next Steps
- CIP Active Project Updates
 - Summary of Active Projects On-Track
 - Highlighted Projects
- CIP Program Management Scope Discussion

Capital Improvement Plan 2020-2024 Update & Next Steps

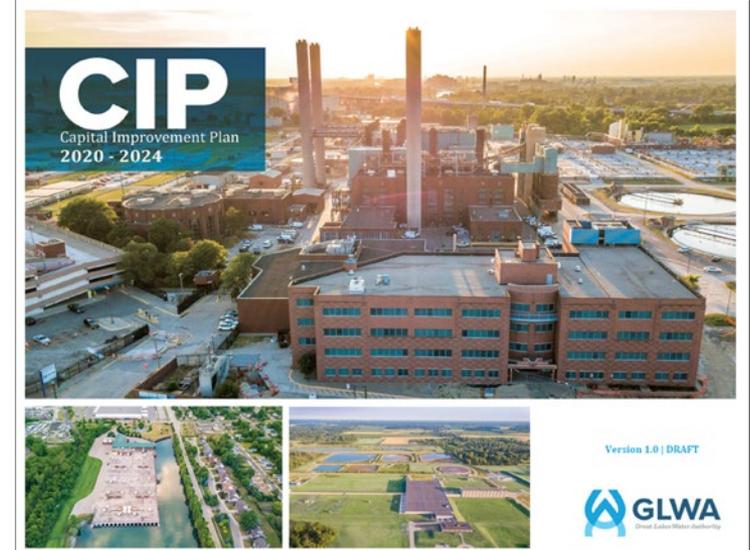
Jody Caldwell



Capital Improvement Plan – Update

2020-2024 CIP Preliminary Draft 2 – Member Partner & Board Member Feedback

1. Feedback on Preliminary Draft 1 has been received from:
 - 3 Member Partners and Directors
 - AM/CIP Work Group – Q & A
2. Responses to Member Partner & Board Member Feedback will be presented at the December 18, 2018 meetings
3. Feedback is greatly appreciated and allows our team to continuously improve and refine the plan. Thank You!



Capital Improvement Plan – Update (Continued)

2020-2024 CIP Preliminary Draft 2 – Planned Modifications

1. Based upon internal quality control and assurance, minor modifications to Phase Status, Task Schedules and general BCE information have occurred
2. Life-To-Date project information as of June 30, 2018 has been updated based upon audited information
3. Northeast Pumping Station (CIP# 232003) and North Interceptor East Arm Rehabilitation (CIP# 222003) have been accelerated

Capital Improvement Plan – Update (Continued)

2020-2024 CIP Preliminary Draft 2 – Planned Modifications

4. Further evaluation and adjustment of prioritization for:
 - Water project, Springwells WTP Powdered Activated Carbon System Improvements (CIP# 114007)
 - Wastewater project, WRRF Rehabilitation of Circular Primary Clarifier Scum Removal (CIP# 211009)

5. Projects “New to the FY2020 CIP” will now be identified with a checkbox on the BCE instead of a Phase Status of “New”. The Phase Status of these projects have been changed to either “Active” or “Future Planned”.

Capital Improvement Plan – Update (Continued)

2020-2024 CIP Preliminary Draft 2 – Planned Modifications

6. Projects in Tables VI-1(Water), VI-4 (Wastewater) & VI-14 (Centralized Services) will:
 - Have projects with status of “Closed”, “Cancelled” and “Reclassified” removed from the table. These projects will still remain in the Chapter VII. Project Descriptions and within the Appendices.
 - Now be grouped based upon projects that are “Future Planned” and projects that are “Active” (including pending close-out projects)
 - “Active” projects will be sorted (highest – lowest) by 2020-2024 5-year projected expenses
 - “Future Planned” projects will be sorted by overall priority
 - Subtotals for each category will be identified

WATER Future Planned Project Risk & Timing Discussion

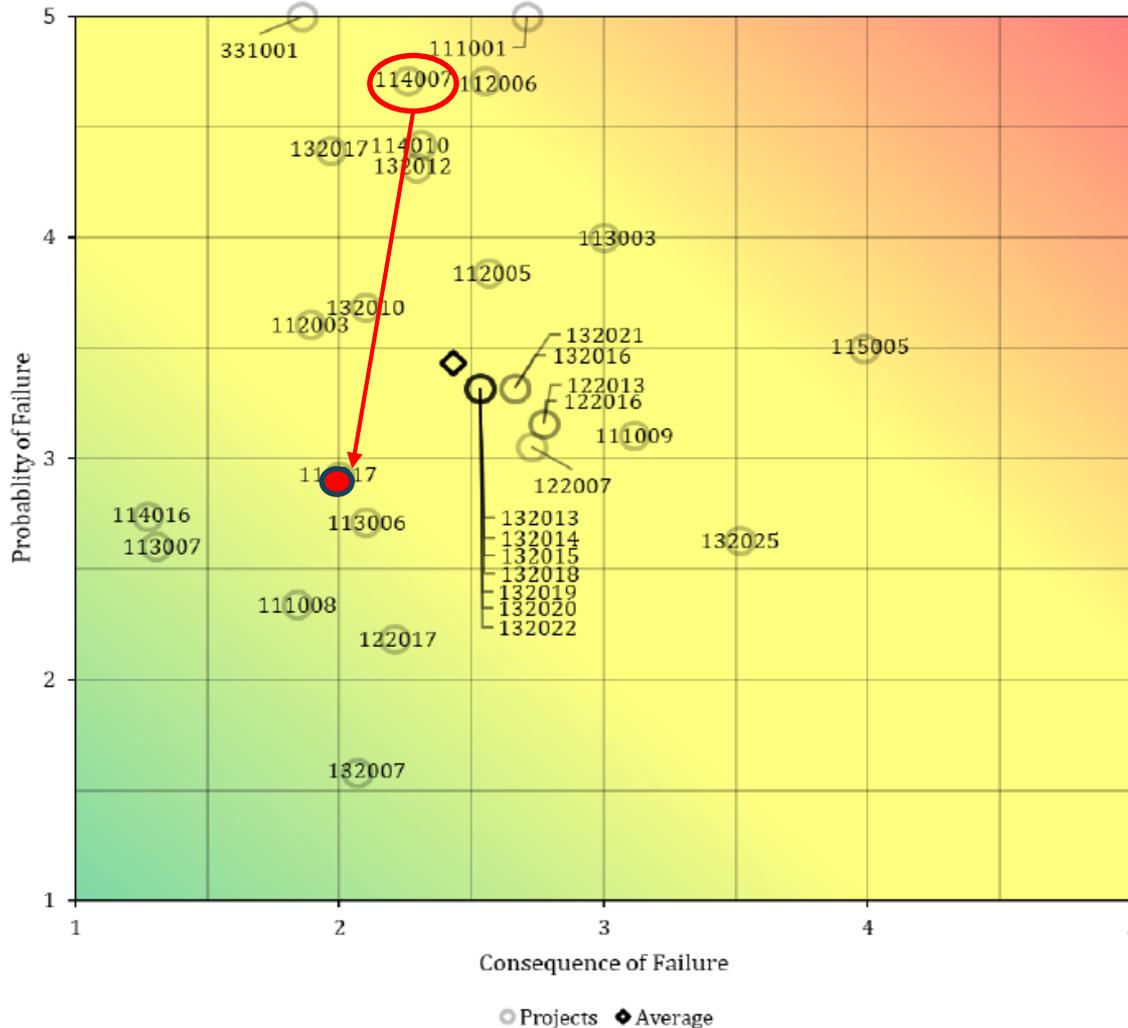
2020-2024 CIP Water Future Planned Project Prioritization & Projected Funding

CIP	Title	Score	Prioritization	CoF	PoF	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Notes
			Ranking														
115005	Emergency WWP WTP Building Ventilation Improvements	76	1	4.0	3.5	7	507	3,907	650	-	-	-	-	-	-	-	
111001	LH WTP Low and High Lift Pumping, and Filter Backwash Pumps Improvements	72	2	2.7	5.0	-	401	1,611	3,169	4,450	10,000	12,713	12,641	7,403	-	-	
113003	SW WTP Low and High Lift Pumping & Rapid Mix Chamber BFVs, Sluice Gates, Flocculation & Filtration System Improvements	68	3	3.0	4.0	-	-	-	-	-	-	1,569	2,880	4,553	7,368	10,000	Project was delayed due to Financial prioritization
112006	NE WTP Flocculator Replacement	67	4	2.5	4.7	3	1,356	1,356	3	-	-	-	-	-	-	-	
132025	Northwest Booster Station Yard Piping Improvements	64	5	3.5	2.6	-	-	50	1,700	3,750	-	-	-	-	-	-	
111009	LH-WTP Two 35-MGD High Lift Pumps, Water Production Flow Meters and Yard Piping Improvements	62	6	3.1	3.1	16	9,030	10,030	7,030	-	-	-	-	-	-	-	The 96-inch transmission main relocation project (CIP 122004) is Dependent on the completion of this project
114010	SPW WTP Yard Piping and High Lift Header Improvements	62	7	2.3	4.4	-	-	-	-	-	72	451	15,723	15,723	15,723	15,723	Project can be delayed because engineering has mitigated a portion of the risk and recent assessments indicate piping in satisfactory condition
132012	Ypsilanti PS Improvements	61	8	2.3	4.3	28	585	865	2,855	4,205	1,319	-	-	-	-	-	
112005	NE Steel Cover Replacement	61	9	2.6	3.8	-	166	647	-	-	-	-	-	-	-	-	
331001	Roofing Systems Replacement at Water Plants and Booster Pump Stations	61	10	1.9	5.0	-	-	225	375	1,625	1,825	344	344	344	344	-	
122013	14 Mile Transmission Main Loop	58	11	2.8	3.2	-	751	1,315	1,507	13,420	12,000	13,769	11,608	56	-	-	Accelerated project needed to resolve redundancy issues
122016	Downriver Transmission Main Loop	58	12	2.8	3.2	-	297	964	3,051	10,763	22,122	-	-	-	-	-	Accelerated project needed to resolve redundancy issues

(Not all Water Projects are shown above. See handout for full project list)

WATER Future Planned Project Risk & Timing Discussion (Continued)

Water Risk Matrix of Future Planned Projects



WASTEWATER Future Planned Project Risk & Timing Discussion

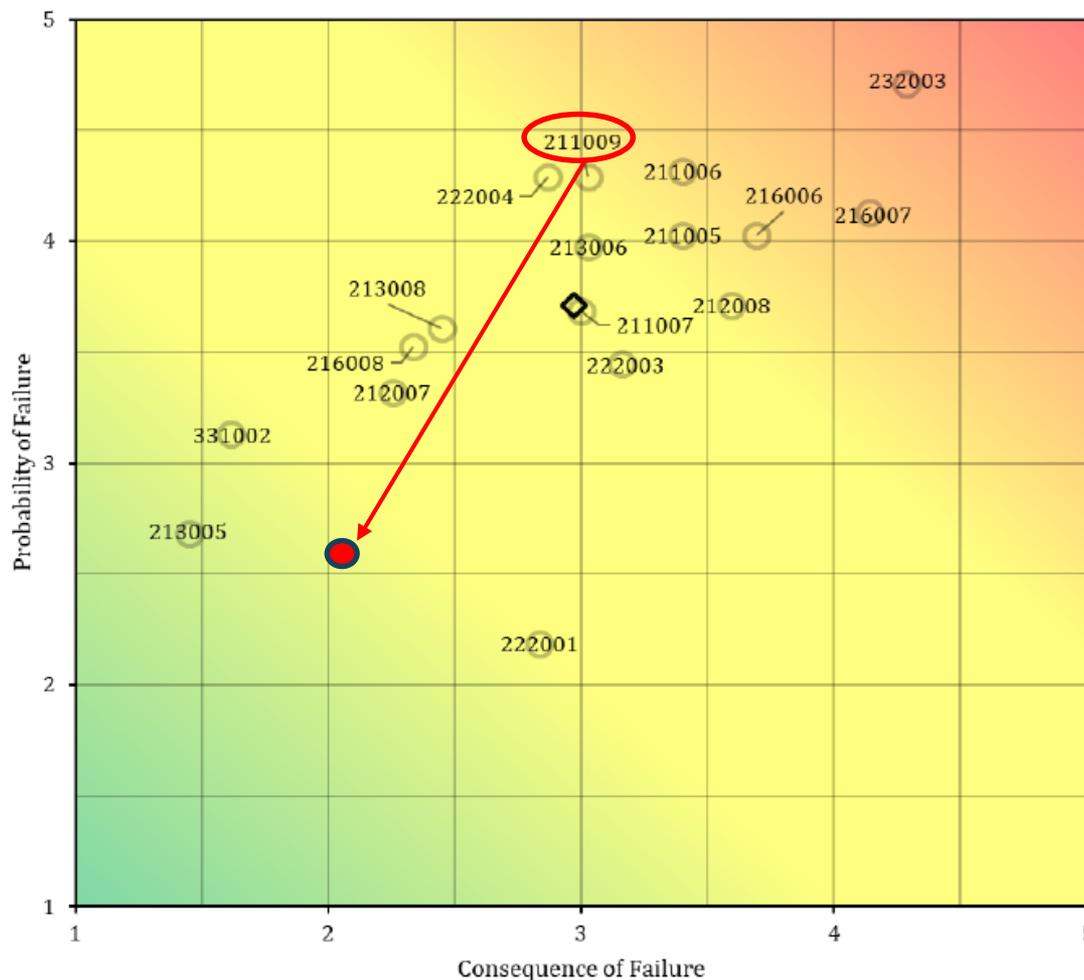
2020-2024 CIP Wastewater Future Planned Project Prioritization & Projected Funding

CIP	Title	Score	Prioritization Ranking	CoF	PoF	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Notes
232003	Northeast Pumping Station	89	1	4.3	4.7	1,000	7,000	10,500	10,500	2,500	-	-	-	-	-	-	Project has been Accelerated in Preliminary Draft 2
216007	DTE Primary Electric 3rd Feed Supply to WRRF	83	2	4.1	4.1	2,108	1,381	3,374	-	-	-	-	-	-	-	-	Project is active and will be removed from the Risk Matrix
216006	Assessment and Rehabilitation of WRRF yard piping and underground utilities	76	3	3.7	4.0	-	323	5,258	3,849	4,500	3,500	4,000	3,423	-	-	-	Project was delayed due to Financial prioritization
211006	WRRF PS No. 1 Improvements	75	4	3.4	4.3	498	1,803	2,325	8,424	8,370	811	84	-	-	-	-	
212008	WRRF Rehabilitation of Intermediate Lift Pumps (ILPs)	73	5	3.6	3.7	-	229	500	656	6,727	5,910	6,811	-	-	-	-	
211005	WRRF PS No. 2 Improvements Phase II	73	6	3.4	4.0	-	-	684	711	611	8,668	5,463	5,463	-	-	-	Project is Dependent on the completion of another project
213006	WRRF Improvements to Sludge Feed Pumps at Dewatering Facilities	68	7	3.0	4.0	-	-	-	-	24	1,366	2,000	331	-	-	-	Project was delayed due to Financial prioritization
222003	North Interceptor East Arm (NIEA) Evaluation and Rehabilitation	65	8	3.2	3.4	500	15,000	14,500	-	-	-	-	-	-	-	-	Project has been accelerated
211007	WRRF PS #2 Bar Racks Replacements and Grit Collection System Improvements	65	9	3.0	3.7	6	269	1,329	2,039	6,306	7,838	49	-	-	-	-	Project has been delayed based upon resource limitations
213008	WRRF Rehabilitation of the Ash Handling Systems	58	10	2.5	3.6	-	111	1,111	5,525	9,574	2,184	-	-	-	-	-	
216008	Rehabilitation of Screened Final Effluent (SFE) Pump Station	56	11	2.3	3.5	51	1,091	991	9,475	7,805	5,535	-	-	-	-	-	
212007	WRRF Rehabilitation of the Secondary Clarifiers	53	12	2.3	3.3	-	-	-	-	71	933	6,000	7,676	7,000	7,000	1,438	Process is Dependent on determining a better screen process prior to project execution
211009	WRRF Rehabilitation of the Circular Primary Clarifier Scum Removal System	53	13	2.6	2.7	-	-	778	619	5,237	4,725	35	-	-	-	-	Project can be delayed because operations & engineering has mitigated risk. Prioritization has been modified based upon mitigation efforts underway
222001	Oakwood District Intercommunity Relief Sewer Modification at Oakwood District	52	14	2.8	2.2	-	-	-	3,800	10,077	10,077	10,077	4,000	-	-	-	
213005	WRRF Complex I Incinerators Decommissioning and Reusability	38	15	1.5	2.7	-	-	-	-	-	-	409	4,000	-	-	-	

BOLD Indicates values and/or timing that have changed since 2020-2024 CIP Preliminary Draft #1

WASTEWATER Future Planned Project Risk & Timing Discussion (Continued)

Wastewater Risk of Future Planned Projects



2020-2024 CIP - Next Steps

FY2020 - 2024 CIP SCHEDULE (Revised 10/24/18)

Completed	Date	Meeting Type	Notes
✓	8/20/2018	NA	Distribute & Train Business Case Evaluation Database
✓	9/26/2018	NA	BCE's Due
✓	10/1/2018	Water Review Committee Meeting	Review existing project priorities, identify new project priorities and potentially adjust schedules for projects in order to align with overall CIP projected expenditures previously approved
✓	10/3/2018	Wastewater Review Committee Meeting	
✓	10/18/2018	Executive Leadership Team review of BCEs and Modifications to CIP	Review of New BCEs & CIP Modifications
✓	10/25/2018	Charges Roll-Out Mtg #1 - CIP @ AM/CIP Work Group	1st Member Partner Review of CIP - Version 1.0
✓	10/29/2018	GLWA CIP Committee	1st CIP Committee Review of CIP - Version 1.0
✓	11/19/2018	NA	Member Partner & Board Comments Due
✓	11/30/2018	GLWA CIP Committee	
	12/18/2018	AM/CIP Committee Work Group Meeting	2nd Member Partner Review of CIP - Version 2.0
	12/18/2018	GLWA CIP Committee	2nd CIP Committee Review of CIP - Version 2.0