



# CIP

CAPITAL IMPROVEMENT PLAN  
2022 - 2026



GLWA  
Great Lakes Water Authority

## GLWA's 2022 – 2026 Capital Improvement Plan

*Capital Planning Committee Meeting  
February 16, 2021, 10:00 a.m.*



# GLWA

Great Lakes Water Authority

# CIP Development and Review Process

Status	CIP Development Process	Date
✓	CIP Work Group	June 9
✓	PM/Engineers Meeting (Process/Schedule/Training)	by June 19
✓	BCE's Due (Update existing + Add New Projects)	August 28
✓	First Pass Financial Alignment Committee Mtg	September 9
✓	Water/Wastewater Review Committee Meetings	September 14 & 16
✓	New Meeting This Year- Alignment of Scoring Vs. Project Schedule	September 24 & 25
✓	ELT CIP Presentation	September 29
✓	Provide Draft #1 Data to Financial Services for Evaluation	October 8
✓	Publish Preliminary Draft #1	October 20
✓	Capital Planning Committee – Preliminary Draft #1	October 27
✓	Charge Roll-Out Meeting – Preliminary Draft #1	November 10
✓	Discussion Draft #2 Data to Financial Services	November 12
✓	<del>Capital Planning Committee Meeting</del>	<del>11/17 (canceled)</del>
✓	Questions/Comments Due	November 19
✓	Publish Discussion Draft #2	December 11
✓	Capital Planning Committee – Discussion Draft #2	December 15
✓	Present to Proposed CIP to Full Board of Directors	January 26
Today →	Capital Planning Committee Final Review of CIP and Recommendation to Board	February 16
	Board of Directors Consideration of CIP for Approval	Feb-2021

# Summary of the Review of the Draft Plan

- CIP Discussion Draft No.1 submitted to GLWA, Board, and Member Outreach 10/25/20
- No change in 5-year CIP planned spend
- Two specific questions and comments received and addressed
- Discussion Draft No. 2 released on 12/11/2020
- Feedback has been positive; the CIP has been well received
- Presented to the Board of Directors 01/27/2021

# CIP At A Glance

GLWA 2022-2026 CIP

## CIP AT A GLANCE

GLWA's Capital Improvement Plan (CIP) supports the continuation of major capital asset investments in programs and projects that will upgrade the Authority's aging water and wastewater system infrastructure, as well as the overarching centralized service infrastructure that supports both systems. The CIP is a five-year plan which identifies capital projects and programs and their respective financing options. Annually, this plan is updated to reflect changing system needs, priorities and funding opportunities.

### WATER

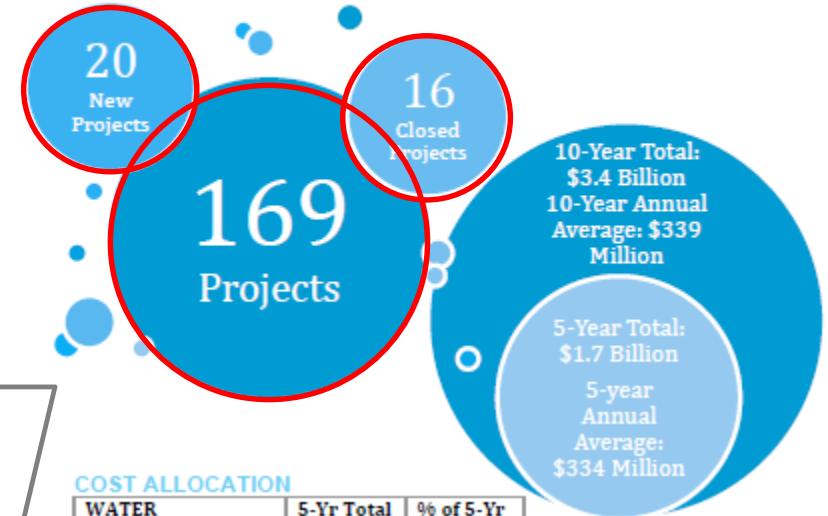
CIP Document	FY2021	FY2022	FY2023	FY2024	FY 2025	FY 2026	5-Year Total
Approved Water CIP FY 2021-2025	147,567	179,920	201,894	212,849	193,187	167,750	935,417
Draft Water CIP FY 2022-2026		179,210	200,713	199,165	170,936	182,430	932,455
Difference (\$)		(709)	(1,181)	(13,684)	(22,251)	14,679	(2,962)
Difference (%)		(0%)	(1%)	(6%)	(12%)	9%	-0.3%

(Figures are shown in \$1,000's.)

### WASTEWATER

CIP Document	FY2021	FY2022	FY2023	FY2024	FY 2025	FY 2026	5-Year Total
Approved Wastewater CIP FY 2021-2025	110,640	112,758	140,841	203,259	171,938	149,267	739,436
Draft Wastewater CIP FY 2022-2026		106,050	123,190	160,940	173,024	175,200	738,403
Difference (\$)		(6,708)	(17,652)	(42,319)	1,085	25,932	(1,034)
Difference (%)		(6%)	(13%)	(21%)	1%	17%	-0.1%

(Figures are shown in \$1,000's.)



-0.3%

### COST ALLOCATION

WATER	5-Yr Total	% of 5-Yr
CTA	911,407	97.7%
Suburban Only	21,048	2.3%
Sub-total	932,455	100.0%

WASTEWATER	5-Yr Total	% of 5-Yr
CTA	645,650	87.4%
83/17	62,778	8.5%
TBD	29,975	4.1%
Sub-total	738,403	100.0%

### PLAN SPENDING SUMMARY

5-Year Total:	\$1.7 Billion	10-Year Total:	\$3.4 Billion
5-Year Annual Average:	\$334 Million	10-Year Annual Average:	\$339 Million

-0.1%

# Spending Plan Summary

FY2022-2026 CIP Plan Spending Summary for Water and Wastewater						All Figures are in \$1,000's		
CIP Final Document	FY2022	FY2023	FY2024	FY2025	FY 2026	5-Year Total	5-year average	10-year average
Water	179,210	200,713	199,165	170,936	182,430	<b>932,454</b>	186,491	197,566
Wastewater	106,050	123,190	160,940	173,024	175,200	<b>738,404</b>	147,681	141,253
<b>TOTAL</b>	<b>285,260</b>	<b>323,903</b>	<b>360,105</b>	<b>343,960</b>	<b>357,630</b>	<b>1,670,858</b>	<b>334,172</b>	<b>338,818</b>

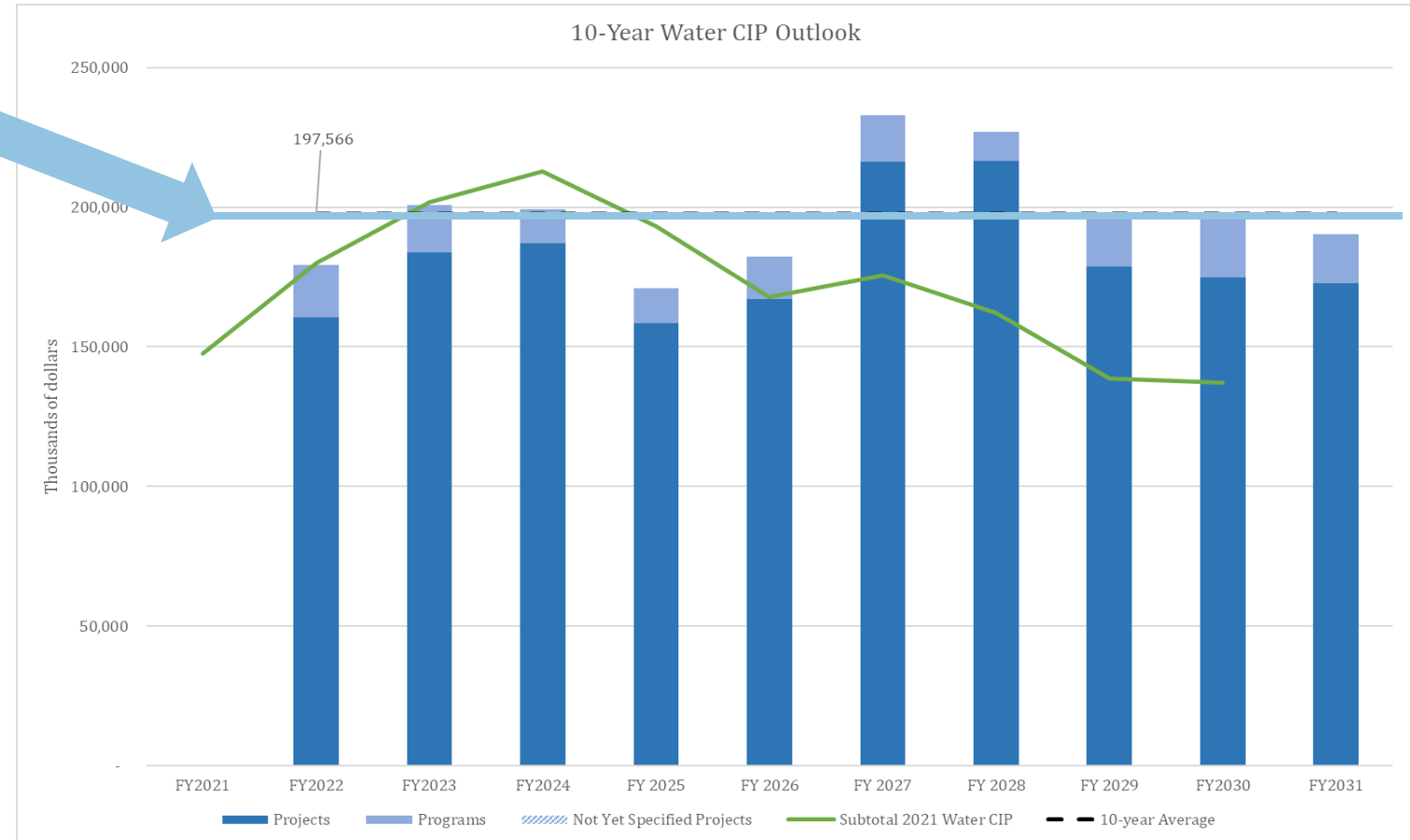
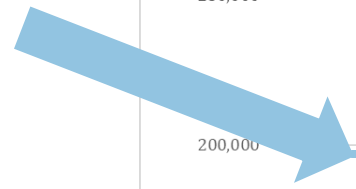
# Overview – Estimation of Water Spending

FY 2022-2026 CIP Summary- WATER		All Figures are in \$1,000's								
CIP Document	Lifetime Actual Through FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27+	5-Year Total (2022-2026)	Project Total
<b>FY 2022-2026 CIP</b>	227,313	150,740	179,210	200,713	199,165	170,936	182,430	1,043,201	932,454	2,353,708
Approved CIP FY 2021-2025		147,564	179,918	201,892	212,853	193,184				
Difference (\$)		3,176	-708	-1,179	-13,688	-22,248				
Difference (%)		2.2%	-0.4%	-0.6%	-6.4%	-11.5%				

5-Year Total of \$932M  
Annual Average \$186M

# Overview – Projected Long-Term Water Expenditures

Projecting  
Increase in Spend  
To Average  
\$197M Per Year



# Overview – Estimation of Sewer Spending

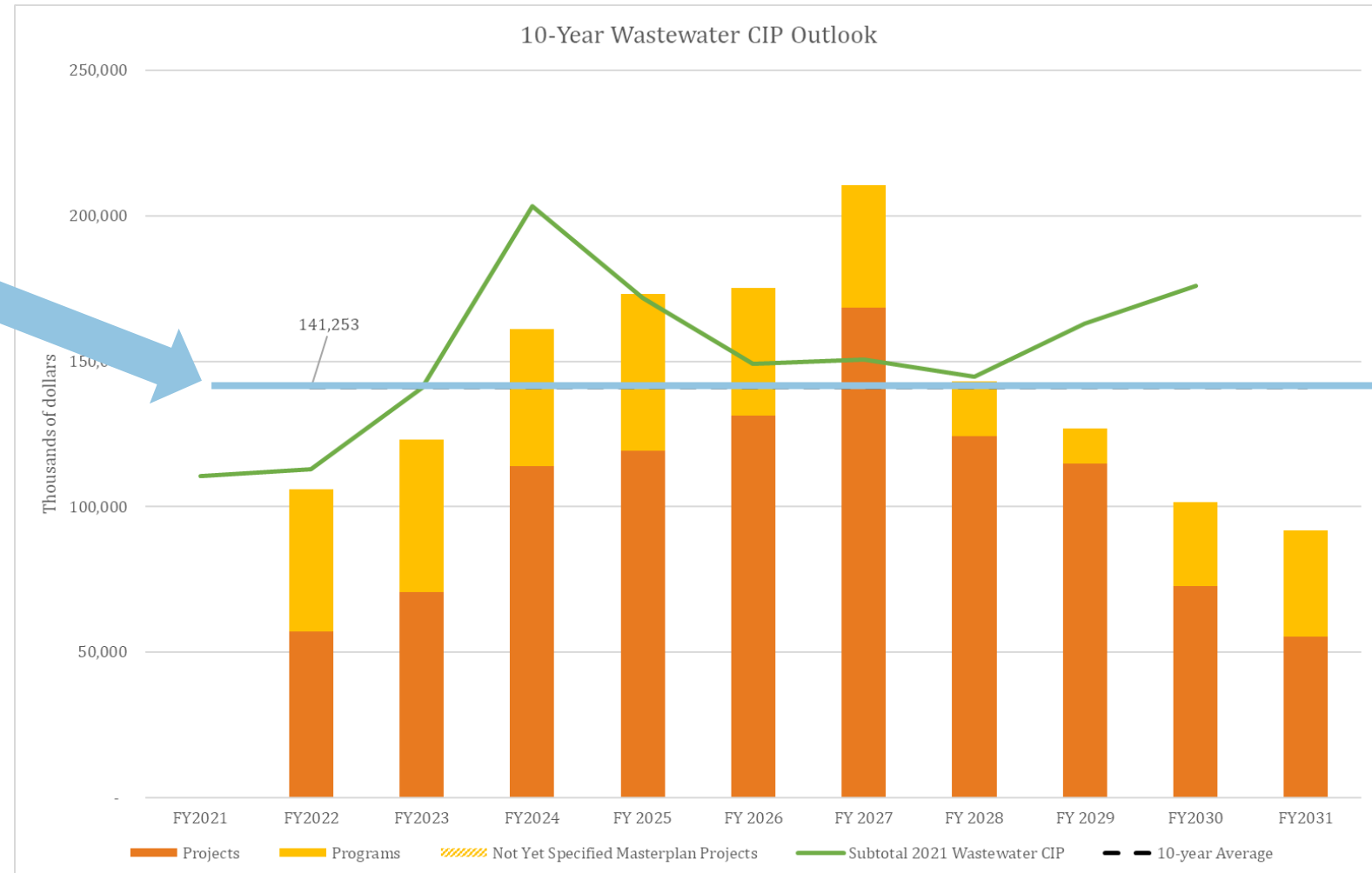
FY 2022-2026 CIP Summary - WASTEWATER			All Figures are in \$1,000's							
CIP Document	Lifetime Actual Through FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27+	5-Year Total (2022-2026)	Project Total
FY 2022-2026 CIP	242,290	127,738	106,050	123,190	160,940	173,024	175,200	674,124	738,404	1,782,556
Approved CIP FY 2021-2025		110,640	112,758	140,841	203,259	171,938				
Difference (\$)		17,098	-6,708	-17,651	-42,319	1,086				
Difference (%)		15.5%	-5.9%	-12.5%	-20.8%	0.6%				

5-Year Total of \$738M  
Annual Average \$148M



# Overview – Projected Long-Term Sewer Expenditures

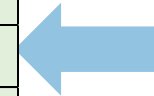
Projecting  
Increase in Spend  
To Average  
\$141M Per Year



# Overview – Totals of Number and Type of Projects

Projects	Water	Wastewater	Centralized Services
New projects	7	12	1
Total projects	86	72	7
Projects moved to active status	13	24	1
Projects moved to pending closeout status	7	5	0
Projects moved to closed Status	10	4	0
Five year project totals greater than \$30m	9	7	0
FY2022 totals greater than \$5M	8	7	0
Master Plan right-sizing Project	14	0	0
Waterwater Master Plan projects	0	9	0
Projects with potential to be innovative	11	14	2
Redundancy and reliability projects	39	34	2
Projects necessary for Northeast Water Treatment Plant repurposing	6	0	0

Grand Total  
165 Projects  
Over 5 years<sup>1</sup>



# Overview – Location of Projects

Jurisdiction	Water	Wastewater	Centralized Services
City of Detroit	18	49	1
Lapeer County	2	0	0
Macomb County	0	0	0
Oakland County	8	0	0
Saint Clair County	10	0	0
Wayne County (Outside Detroit)	31	4	0
Multiple Counties	17	19	6
Total	86	72	7

Numbers exclude cancelled and reclassified projects

# Overview – Statistical Wrap Up

	Number of Projects	Percentage of Total
Water Projects	86	52%
Sewer Projects	72	44%
Centralized Services Projects	7	4%
Overall Total*	165	100%

	Annual Average Est. Spend	Total 5-Year Est. Spend
Water Projects	\$186M	\$ 932M
Sewer Projects	\$148M	\$ 738M
Overall Total	\$334M	\$1.670B

\* Excludes 4 projects that were cancelled or reclassified

# Questions





**GLWA**

*Great Lakes Water Authority*

**Have a Great Day!**