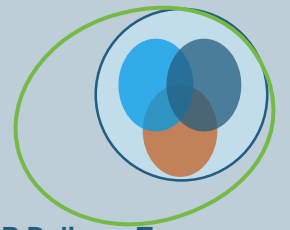


CIP Program Update Capital Planning Committee

August 9, 2022



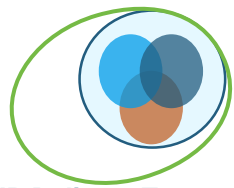
CIP Delivery Team



Jody Caldwell, Chief Planning Officer

Dima El-Gamal, PhD, PE, LEED@AP., Capital Improvement Planning Director

AGENDA

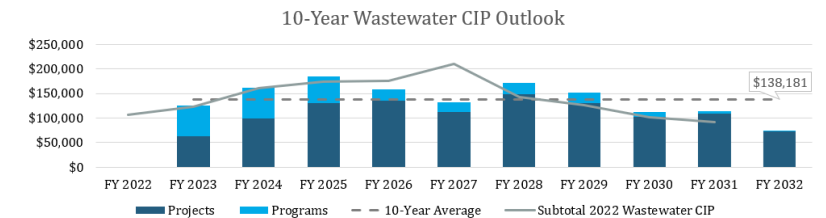
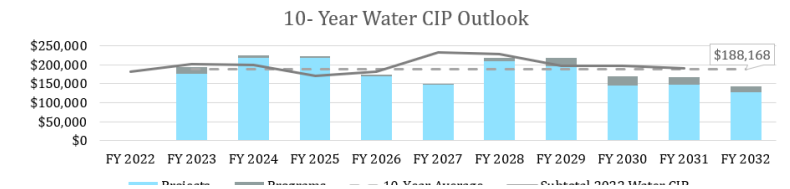


CIP Delivery Team

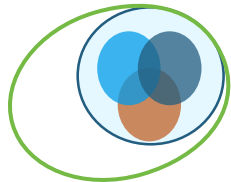
💧 CIP Plan Development FY24–FY28 Updates

💧 FY 2022 Preliminary KPI's

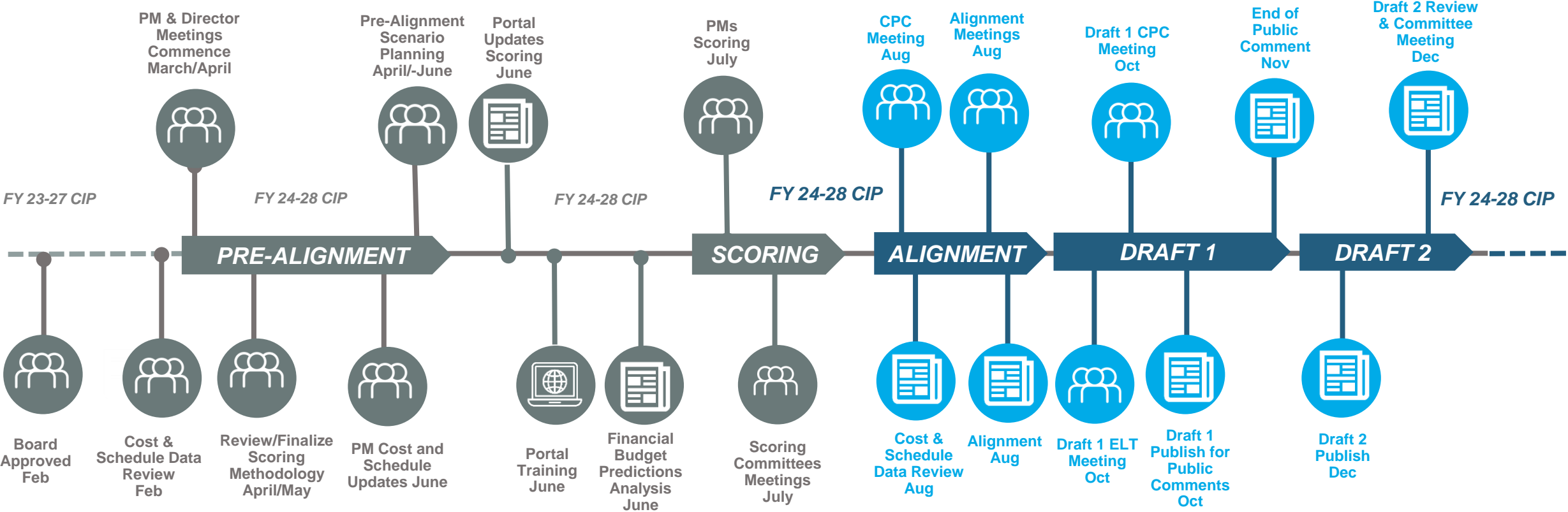
💧 CIP Program Management Updates



FY 24-28 CIP SCHEDULE



CIP Delivery Team



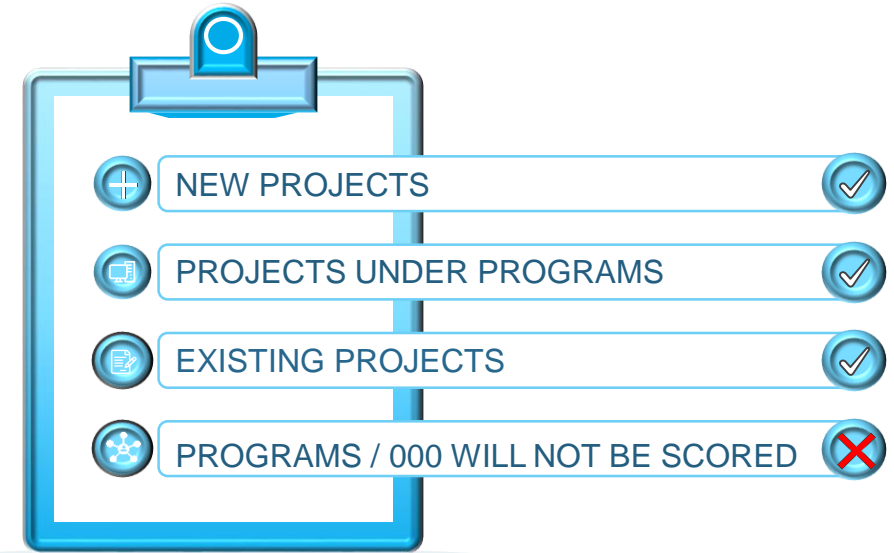
PM & REVIEW COMMITTEE SCORING



CIP Delivery Team

Water Review Committee

- 💧 Brian VanHall
- 💧 Chandan Sood
- 💧 Cheryl Porter
- 💧 Ed Haapala, WB Twp.*
- 💧 Eric Kramp**
- 💧 Erich Klun
- 💧 Pete Fromm
- 💧 Terry Daniels



Wastewater Review Committee

- 💧 Brooke Ballard**
- 💧 Chris Nastally
- 💧 Chris Wilson**
- 💧 Chandan Sood
- 💧 Dan Alford
- 💧 Kashmira Patel
- 💧 Navid Mehram
- 💧 Anil Gosine, City of Detroit*
- 💧 Phil Kora




* Member Partners Representative-Thank You

** Alternate Members

CIP PROCESS OPTIMIZATION




CIP Delivery Team

Form 0502 -New CIP Program/Project Request & Reclassification

Title *

Project Key Areas of Interest

*CSO Innovation Linear assets outside of facilities
 NE WTP Repurposing *Pumps Redundancy *St
 *Treatment Water Master Plan Right Sizing WW Master

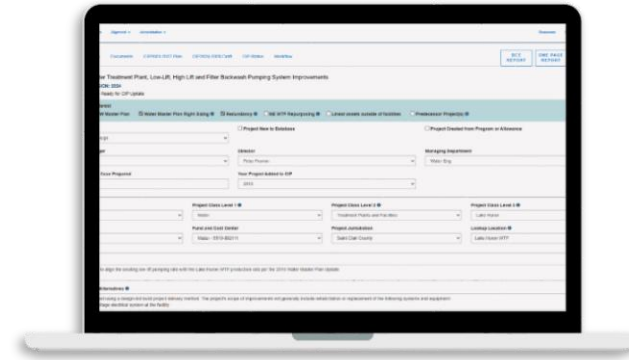
Project Status *

Type *
 Project Program

Project Manager *

Director *

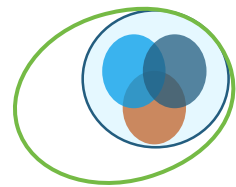
Managing Department *



| Criteria | Previous Year | Score | Score Criteria | Comment i |
|-----------|---------------|--|---|--|
| Condition | 5 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 | <input checked="" type="checkbox"/> A. Asset has exceeded its design service life <input type="checkbox"/> B. Excessive maint. levels for the equipment/process area <input checked="" type="checkbox"/> C. High risk of breakdown or imminent failure with serious impact on performance <input checked="" type="checkbox"/> D. Immediate replacement or rehabilitation required <input type="checkbox"/> E. Could initiate immediate funding request b/c "Urgent Necessity" in near term <input checked="" type="checkbox"/> F. Replace. or major rehab needed immediately | Score carried over from previous year |

| | | | | (EAC) | Change |
|--|--------------|-----------------|-----------------|------------------------|--------|
| Water Treatment Plant - High Lift Pumping, Water Production | 2059d | 12/31/18 | 08/19/24 | \$30,190,806.66 | |
| Professional Services (CS-272) | 57d | 08/05/19 | 09/30/19 | \$135,806.06 | |
| Professional Services (CS-272 - 71002A.01) | 57d | 08/05/19 | 09/30/19 | \$135,806.06 | |
| 111009: Professional Services (CS-166) | 92d | 03/31/22 | 06/30/22 | \$32,363.81 | |
| 111009: Professional Services (CS-166) | 92d | 03/31/22 | 06/30/22 | \$32,363.81 | |
| 111009: Design-Build # 1 | 2059d | 12/31/18 | 08/19/24 | \$30,022,636.79 | |
| 111009: Design - Pre-Procurement | 275d | 12/31/18 | 10/01/19 | | |
| 111009: Design - Procurement | 388d | 10/02/19 | 10/23/20 | | |

CAPITAL IMPROVEMENT VIEWER



CIP Delivery Team



Careers Financials Contact Calendar Login



ABOUT OUR SYSTEM MEMBERS VENDORS INVESTOR RELATIONS



CAPITAL IMPROVEMENT VIEWER

CAPITAL IMPROVEMENT VIEWER

GLWA Capital Improvements Viewer

Find address or place

Legend

Capital Improvement Project Areas

- Wastewater/Sewer
- Water
- Water/Sewer/Other

Political Boundaries

Dearborn

River Rouge

2mi Melvindale

-83.04048 42.32779 Degrees

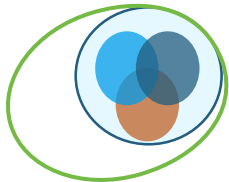
DETROIT CANADA

LIVE

[CIP - GLWA \(glwater.org\)](http://glwater.org)



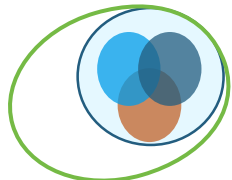
PMIS SYSTEM



CIP Delivery Team



SINGLE UNIFIED CIP DELIVERY TEAM



CIP Delivery Team

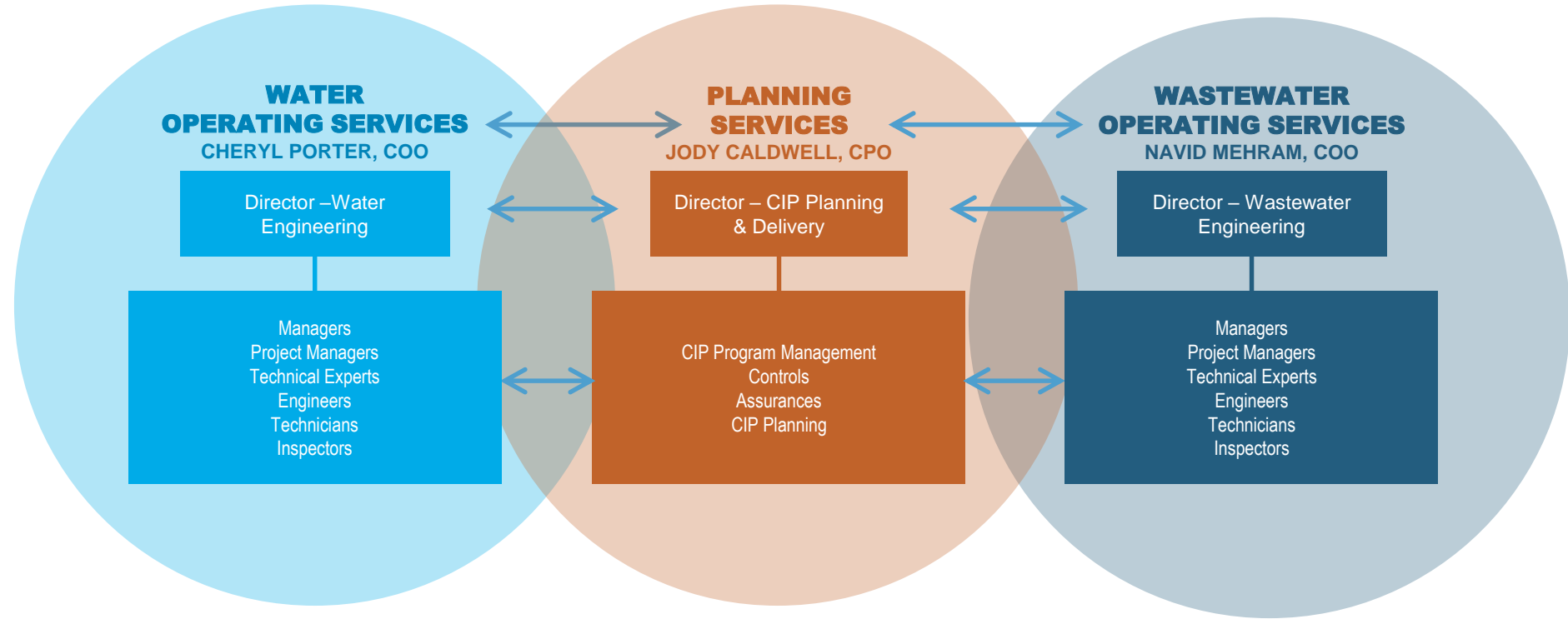
Reporting through three business units

ENGINEERING

Engineering becomes more unified and supported through standardized PMP procedures

NEW CIP CORE DELIVERY TEAM ROLES

Lifecycle Project Manager and Technical Management Leader are new CIP Delivery Team roles



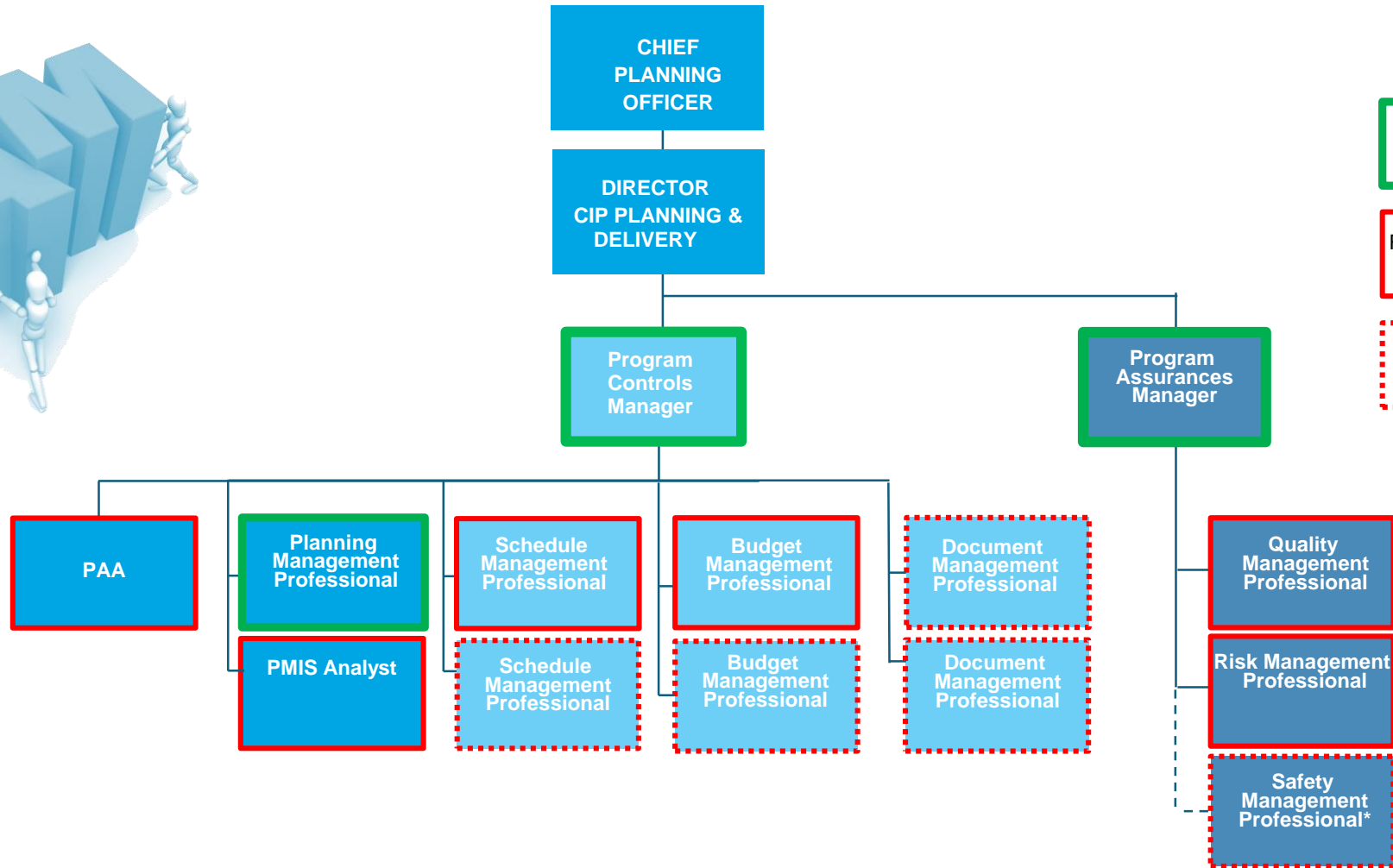
CRITICAL CIP PARTNERS:

Operations, Maintenance, Financial Services, Procurement, General Counsel, IT, and Organizational Development

CIP GROUP IS GROWING



CIP Delivery Team



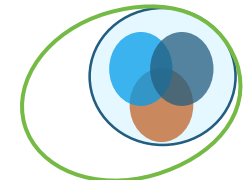
Roles outlined in solid green have been filled

Roles outlined in solid red are in the process of being filled

Roles outlined in dotted red will be filled in the future

COLOR KEY: EXISTING ROLE NEW CONTROLS NEW ASSURANCE

*This is an Enterprise Safety role

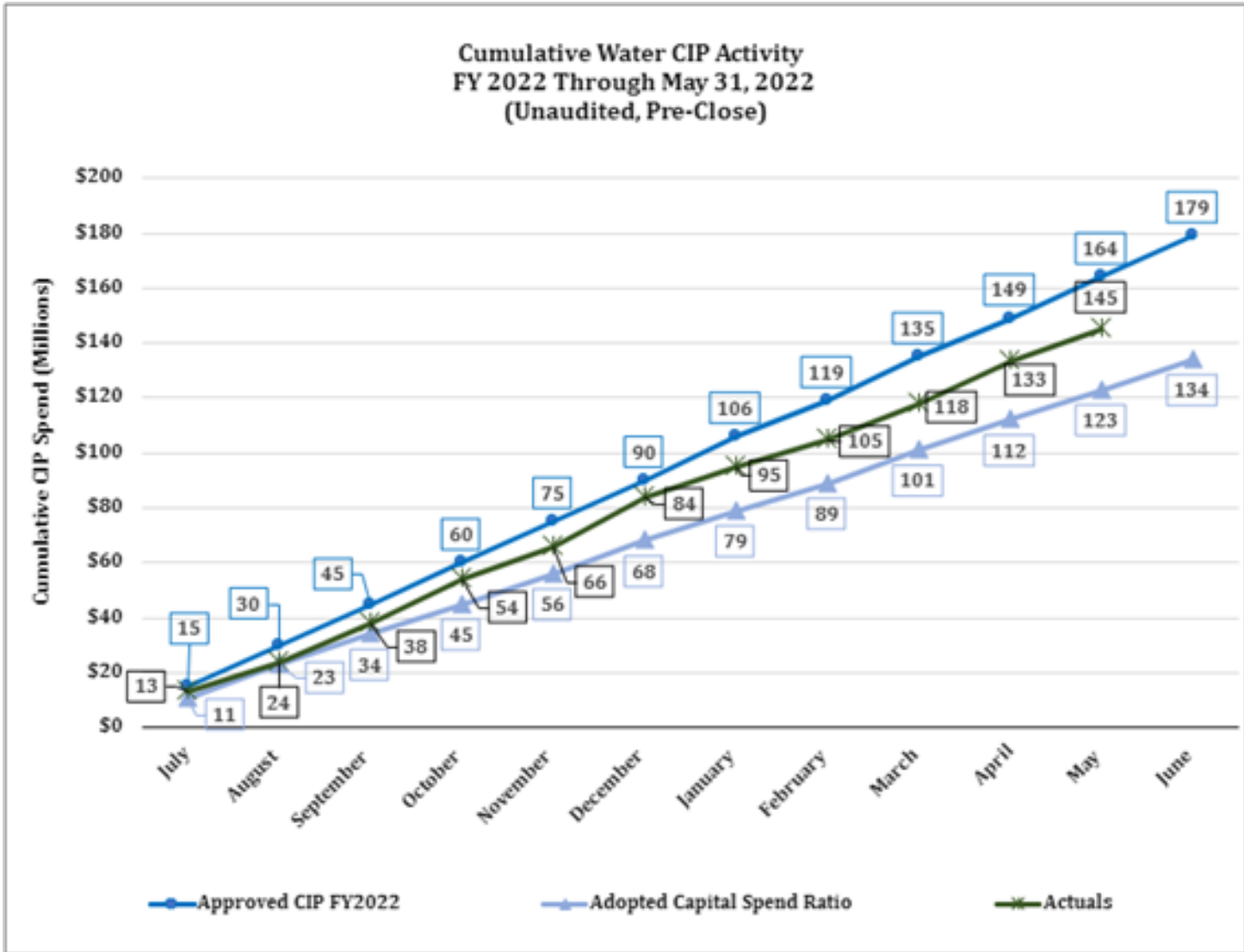


Enterprise Resiliency FY 2022 Total Water CIP Spend

Current Status:

The water system incurred \$145 million of CIP costs through May 2022.

This is 88% of the FY 2022 monthly prorated *Approved CIP* and **118%** of the *Adopted Capital Spend Ratio* amount.



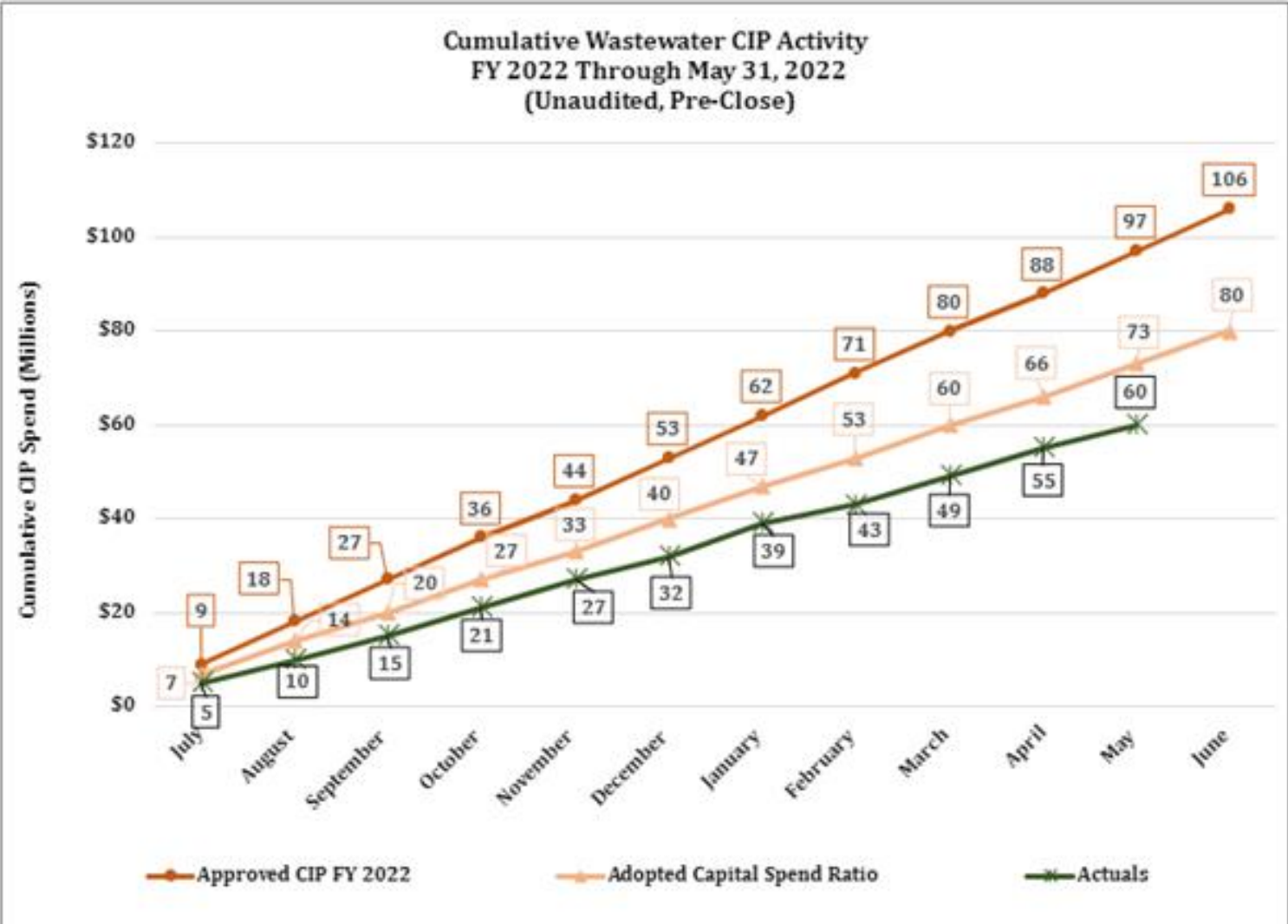


Enterprise Resiliency FY 2022 Total Sewer CIP Spend

Current Status:

The sewer system incurred \$60 million of CIP costs through May 2022.

This is 62% of the FY 2022 monthly Prorated *Approved CIP* and **82%** of the *Adopted Capital Spend Ratio* amount.



FY 24–28 PRE-ALIGNMENT CIP STATISTICS



CIP Delivery Team

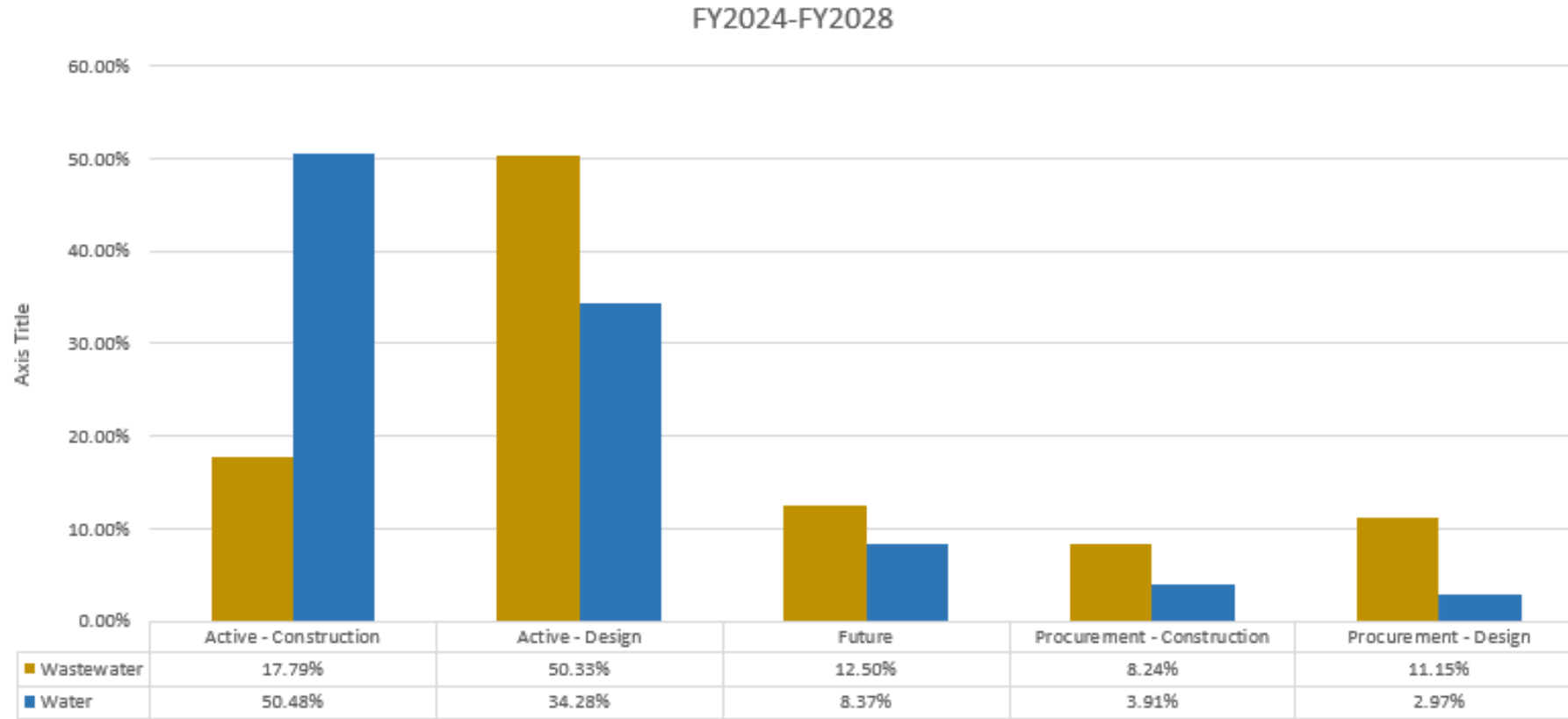
💧 Active Construction

💧 Procurement-Design

💧 Future

💧 Active Design

💧 Procurement-Construction



ALIGNMENT



CIP Delivery Team

Board Approved FY 23-27

| | Board Approved FY 23-27 | | Pre-Alignment FY 23-27* | |
|------------|-------------------------|----------|-------------------------|----------|
| | FY 23 | FY 23-27 | FY 23 | FY 23-27 |
| Water | \$ 179 M | \$965 M | \$283 M | \$1.37 B |
| Wastewater | \$ 106 M | \$762 M | \$202 M | \$1.31 B |

WHAT
NEXT?

FY 24-28 Pre-Alignment Estimates

| | Based on Target Budget | |
|------------|-----------------------------|----------------------------|
| | Target Budget FY 24-28** | Pre-Alignment FY 24-28* |
| Water | \$ 995 M | \$ 1.33 B |
| Wastewater | \$ 775 M | \$ 1.30 B |

* As of July 2022, PMs cost and schedule update

** Initial Targets

PROGRAM MANAGEMENT UPDATE

August 9, 2022



CIP Delivery Team



Donal Baron, AECOM

Program Management

Current Status

Task 2 and 5

- Published PMP Chapters 00, 01, 02, 06, 09, 10 and 14
- Finalizing PMP Chapter 15
- Completed Draft PMP Chapters 07 and 09
- Preparing for scoring and alignment workshops
- Workings with PMs on inputting data in the portal using forms
- Developed tool and step by step guide to align PMs with projects
- Working on roles transition and recruitment strategies
- Developing project cost and schedule information flow protocols

Tasks 7 and 9

- Completed Basis of Design Report (BODR) for Hubbell Southfield CSO Facility improvement project
- Completing Basis of Design Report (BODR) for Springwell WTP Header and Yard Piping Project underway
- Developing preliminary design for electrical improvements at Northeast WTP Pumping Station
- Developing engineering study for Secondary Clarifier Rehabilitation
- Front end document support progressing
- Bringing schedulers on board to work with PMs
- Assigning PM for 81" Pipeline Relocation Project



CIP Delivery Team

AECOM

Program Management

What's Next

Task 2 and 5

- Complete PMP Chapter 15 (Planning and CIP Development) toward the end of this planning cycle
- Complete PMP Chapters 11 (Permitting & Regulatory), 13 (Public Information & Stakeholders) and 12 (E, H & S)
- Detailed training on PMP
- Fill LPM and TML staff positions

Task 7 and 9

- Complete current assignments
- Support interim staff needs

PMP Progress

Chapters published:

- PMP 00 – **PMP Overview**
- PMP 01 – **CIP Program Overview**
- PMP 02 – **Org. & Governance**
- PMP 05 – **Schedule and Budget Mgt**
- PMP 06 – **Contract Change Mgt**
- PMP 09 – **Engineering & Design Mgt**
- PMP 10 – **Procurement & Contracts**
- PMP 14 – **Construction Mgt**

Note: The PMP is a living document that will be updated periodically

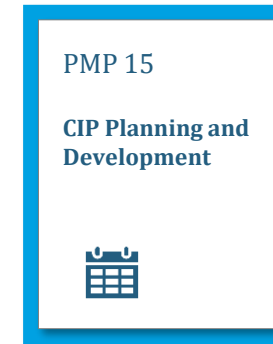
Completed in Draft:



PMP 07
Quality Management

PMP 08
Risk Management

Chapters being developed:



PMP 15
CIP Planning and Development

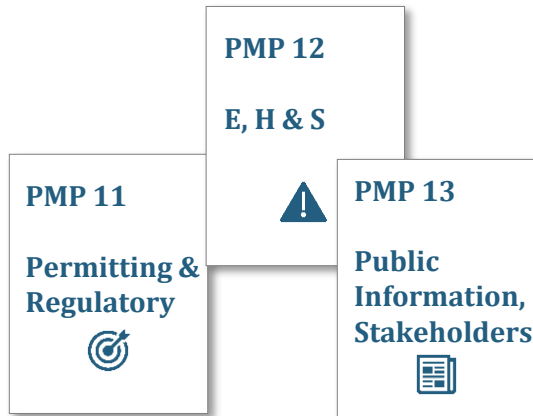


CIP Delivery Team

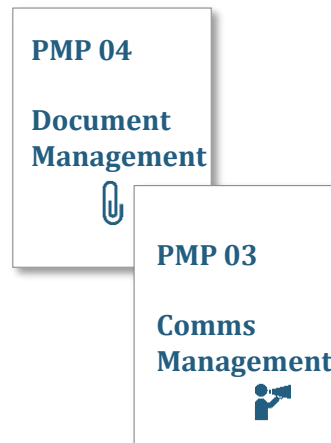


PMP Upcoming

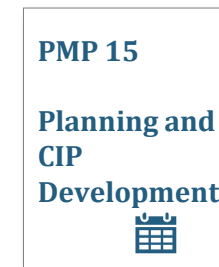
Next planned:



Coordinate with PMIS

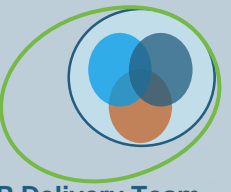


After FY 2023 Plan Complete



Program Summary

| Task # | Task Description | Type | Total Contract Budget (post MOU) | Total Billed thru 6/24/22 (Inv. 31B) | % Complete |
|--------------------------|--|------|----------------------------------|--------------------------------------|------------|
| 1 | CIP Business Process Improvements | LS | \$1,043,816 | \$1,043,816 | 100% |
| 2 | CIP Delivery Standard Operating Procedure (SOP) Development | LS | \$1,181,756 | \$843,198 | 71% |
| 3 | CIP Delivery Resource Evaluation | LS | \$676,847 | \$676,847 | 100% |
| 4 | Project Management Information System (PMIS) Selection | LS | \$1,493,744 | \$690,110 | 46% |
| 5 | Project Controls and Reporting Support | T&M | \$14,427,520 | \$12,508,322 | 87% |
| 6 | CIP Validation | LS | \$2,121,024 | \$1,970,034 | 93% |
| 7 | Engineering and Construction Staff Augmentation (Booked) | T&M | \$21,757,318 | \$13,293,083 | 61% |
| 7 | Engineering and Construction Staff Augmentation (Not booked) | T&M | \$7,992,446 | N/A | 0% |
| 8 | Advanced Facilities Planning (Hold) | LS | \$2,006,563 | \$75,787 | 4% |
| 9 | Staff Augmentation other than Construction or Engineer | T&M | \$1,534,100 | \$1,053,653 | 69% |
| Grand Total | | | \$54,235,134 | \$32,154,849 | |
| Balance Remaining | | | \$22,080,285 | | |



CIP Delivery Team

THANK YOU

