

Agenda

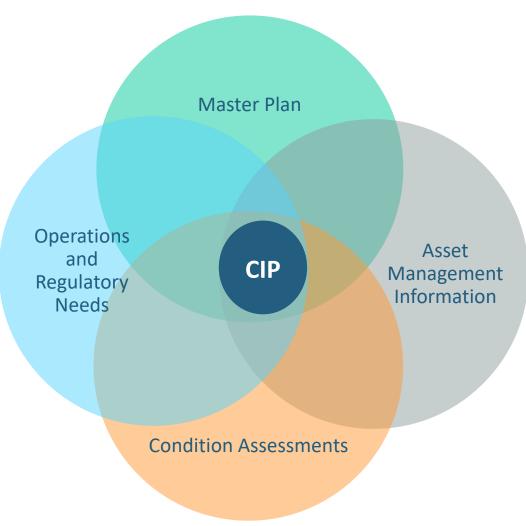
- Considerations and Initiatives that Inform the CIP
- How We Integrate and Align
- What Projects Have Been Aligned
 - Water Resource Recovery Facility Projects
 - Combined Sewer Overflow Projects
 - Field Services and Systems Control Projects
- Going Forward
- Questions



Considerations and Initiatives that Inform the CIP



Considerations in the CIP Development





Initiatives that Inform the CIP's Development

Wastewater Asset Condition Assessments

- Wastewater Interceptor System Inspections
- Pumping Station Inspections
- WRRF Scheduled Replacement Plans
- CSO Condition Assessments

Asset Management Program

- Maintenance Work Order Records
- Asset Management Plans

Wastewater Master Plan

- Long Term Planning Document
- Regional Focus
- Collaborative Approach



How We Integrate and Align



CIP Alignment with Wastewater Master Plan

Team Member	Master Plan Team	CIP Team
Suzanne Coffey, Chief Planning Officer	✓	~
Navid Mehram, Chief Operating Officer	✓	✓
Dan Alford, Director of WW Engineering and Maintenance	✓	✓
Chris Nastally, CSO Manager	✓	✓
Todd King, Director of Field Services	✓	✓
Biren Saparia, Systems Control Manager	✓	✓
Sherri Gee, Systems Planning Manager	✓	
Ali Khraizat, Director of CIP	✓	✓
Master Plan Consultant, CDM Smith	✓	
CIP Program Delivery Consultant, AECOM		✓



Key Elements that Ensure Alignment

- Master Plan consultant has considered alternatives for existing, planned, and future CIP projects that are currently in the FY20-24 CIP
- Conversely, the projects that are already in the FY2020-2024 CIP have been included in consideration alongside new ideas that have emerged in the WWMP alternatives analyses
- WWMP alternative selection is currently underway and as alternatives emerge for consideration by member partners in workshops, key GLWA team members are present to understand, comment and plan accordingly
- In-depth discussions were held with key GLWA team members on each specific component of the wastewater system to share information and ideas



Master Plan Meetings to Ensure CIP Alignment

Meeting Date	System Components and CIP Projects
November 2018	WRRF Biosolids
December 2018	Interceptors
January 2019	WRRF Preliminary Treatment
February 2019	WRRF Primary Treatment
February 2019	WRRF Secondary Treatment
March 2019	WRRF Disinfection
May 2019	CSO Control
July 2019	WRRF Biosolids
July 2019	Trunk Sewers and Interceptors
July 2019	Pumping Stations



What Has Been Aligned



Water Resource Recovery Facility

CIP No.	Project Title	PROJECT STATUS	ASSET MANAGMENT	WWMP NO CHANGE	WWMP ALIGN
211001	Rehabilitation of Primary Clarifiers Rectangular Tanks, Drain Lines, Electrical/Mechanical Building and Pipe Gallery	А	~	~	
211002	Pump Station No. 2 Pumping Improvements	Α	✓	✓	
211004	Pump Station 1 Rack & Grit and MPI Sampling Station 1 Improvements	Α	✓	✓	
211006	Rehabilitation of Main Lift Pumps at Pump Station No. 1	Α	✓	✓	
211007	Replacement of Bar Racks at Pump Station No.2	Α	✓		✓
211008	Rehabilitation of Ferric Chloride Feed Systems	Α	✓		✓
212003	Aeration System Improvements		✓		✓
212006	CS-1781 Rouge River Outfall (RRO) Disinfection (Alternative)	Α	✓	✓	
213002	Rehabilitation of Central Offload Facility	Α	✓		✓
213005	WRRF Complex I Steam heaters	Α	✓	✓	
213007	Modification to Incinerator Sludge Feed Systems at Complex -II	Α	/	/	
214001	Relocation of Industrial Waste Control Division and Analytical Lab	Α	/	/	



Water Resource Recovery Facility

CIP No.	Project Title	PROJECT STATUS	ASSET MANAGMENT	WWMP NO CHANGE	WWMP ALIGN.
216004	Rehabilitation of Various Sampling Sites and PS#2 Ferric Chloride System at WRRF	Α	/	✓	
216007	DTE Primary Electric 3rd Feed Supply to WRRF	Α		/	
216008	Rehabilitation of Screened Final Effluent (SFE) Pump Station	Α	✓	/	
211005	Pump Station No. 2 Improvements Phase II at Wastewater Treatment Plant (WRRF)	FP	✓		~
211009	Rehabilitation of the Circular Primary Clarifier Scum Removal System	FP	✓		~
212004	Chlorination and Dechlorination Process Equipment Improvements	FP	✓		~
212007	Rehabilitation of the Secondary Clarifiers	FP	✓	✓	
212008	WRRF Rehabilitation of Intermediate Lift Pumps (ILPs)	FP	✓	✓	~
213006	Improvements to Sludge Feed Pumps at Dewatering Facilities	FP	/	✓	
213008	Rehabilitation of the Ash Handling Systems	FP	/	✓	
216006	Assessment and Rehabilitation of WRRF yard piping and underground utilities	FP	/	✓	✓



CSO Facilities

CIP No.	Project Title	PROJECT STATUS	ASSET MANAGMENT	WWMP NO CHANGE	WWMP ALIGN
260600	CSO Facilities Improvement Program	А	✓	~	

CIP No.	Project Title	Project Description
260601	Oakwood Drain Valve Project	Replacing drain valves, upgrading electrical
260602	Fire Alarm Imp.	Fire alarm Improvements
260603	Conner Creek Gate Project	Improvements to Effluent Gates
260604	Baby Creek CON-219	Baby Creek Influent Meters
260605	Facility Assessment Proj (CS-299)	Defining Facility Needs & CIP for CSO Facilities
260606	Puritan Fenkell Roof Replacement	Replacing PF roof (25 years old)
260607	Leib Electrical Imp Projects	Replacing actuators and flooded conduits.
260608	7 Mile Roof Replacement	Replacing SM Roof (25 years old)
260609	7 Mile Site Improvements	Fixing site drainage and paving issues
260610	Baby Creek MAU Replacement	Replacing 2 failed Makeup Air Units
260611	Leib HVAC Improvements	Replacing failed HVAC Equipment
260612	Puritan Fenkell & 7 Mile Level Sensors	Replacing failed instrumentation @ Puritan Fenkell & 7 Mile
260613	Baby Creek HVAC Improvements	Modifying HVAC control sys, and headworks & electrical room HVAC to improve conditions for operators/equipment
260614	CSO Facility Struct. Improvement Program	Performing structural inspections & improvements
260615	Puritan Fenkell & Leib Site Improvements	Improving site drainage, paving & lighting at PF & Leib



Field Services and Systems Control

CIP No.	Project Title		ASSET MANAGMENT	WWMP NO CHANGE	WWMP ALIGN.
222002	DRI Evaluation and Rehabilitation (including NIEA cross maintenance tunnel)	Α	✓	✓	✓
222004	Collection System Elements Improvements	Α	✓		✓
232001	Fairview Pumping Station - Replace Four Sanitary Pumps	Α	✓	✓	
232002	Freud & Conner Creek Pump Station Improvements	Α	✓	~	✓
260200	Sewer and Interceptor Evaluation and Rehabilitation Program	Α	/	✓	~
260500	CSO Outfall Rehabilitation	Α	/	~	
222001	Oakwood District Intercommunity Relief Sewer Modification at Oakwood District	FP	✓		~
222003	North Interceptor East Arm (NIEA) Evaluation and Rehabilitation	FP	✓	✓	
232003	Northeast Pumping Station	FP			



Going Forward



Going Forward

- Continued collaboration between WWMP consultant, WWMP teams, member partners, and GLWA team members
- Existing CIP projects are incorporated into the WWMP considerations
- CIP's future direction will be integrated with selected alternatives of WWMP
- WWMP will be finalized this fall and winter
- FY21-26 CIP approval process will follow its standard process this fall and winter. As such, all WWMP alternative selections will not be finalized and in the upcoming CIP. Complete inclusion will be the following year
- The work to date on the CIP will result in more specificity in the year 6 through 10 CIP projections
- Focused studies will be initiated based upon WWMP recommendations



Questions







Have a Great Day!