

CIP Number: 213007
Old CIP No.: 1311
Project Title: WRRF Modification to Incinerator Sludge Feed Systems at Complex -II

Project Status: Active
Budget: Wastewater
Classification Lvl 1: Wastewater
Classification Lvl 2: WRRF
Classification Lvl 3: Residuals Management
Project Location: City of Detroit

☐ Innovation
☐ Water MP Right Sizing
☒ Reliability/Redundancy

Project Score 87.2



Picture from left to right Sludge Conveyor G Damaged by Fire and Conveyor B in the Complex – II Dewatering Building and Fire Damaged Conveyor H in Complex-II Incinerators Building

Project Significance: GLWA have an ongoing study and design of sludge cake conveyance system improvements project after the March 4, 2016 fire incident in Complex –II Incinerators building. The construction of this project will provide a cleaner, fire resistant, reliable and safe sludge feed to the incinerators.

Project Engineer/Manager: Beena Chackunkal

Manager: Ali Khraizat

Scope of Work: The restoration of sludge conveying capacity, which was lost due to the fire damage and to provide improved sludge conveyance from each dewatering facility to the incinerators. Replacement of 19 MCCs and Replacement of the Unit Substation EB-26 in Incineration Complex II.

Challenges: Maintaining the sludge conveyance capacity to meet permit requirements during the construction of these improvements, will be the most significant challenge on this project.

Phase Expenses								
PHASE	Construction				Contract No	CON-197	Phase Status	Under Procurement
Phase Title	CON-197 Modification to Incinerator Sludge Feed Systems at Complex -II							
Phase Total	FY18	FY19	FY20	FY21	FY22	FY23	FY24 and Beyond	
	100	6,685	11,305	3,477	0	0	0	
PHASE	Study and Design and Construction Assistance				Contract No		Phase Status	Active
Phase Title	Wastewater Treatment Plant, Lift Station and Wastewater Collection System Structures Allowance							
Phase Total	FY18	FY19	FY20	FY21	FY22	FY23	FY24 and Beyond	
	467	102	51	0	0	0	0	
	FY18-Proj	FY19-Proj	FY20-Proj	FY21-Proj	FY22-Proj	FY23-Proj	FY24 and Beyond	
	567	6,787	11,356	3,477	0	0	0	

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Phase Tasks and Dates

Phase Category	C
Budget	Wastewater
Phase Status	Under Procurement
Contract No	CON-197
Cost Est Class	

Construction

Task Name	Start Date	Duration	End Date
Scope Development	8/22/2016	430	10/26/2017
Procurement	10/30/2017	172	4/20/2018
Project Execution	4/21/2018	1035	2/19/2021
Project Closeout	2/20/2021	60	4/21/2021

Phase Category	S/D/CA
Budget	Wastewater
Phase Status	Active
Contract No	
Cost Est Class	

Study and Design and Construction Assistance

Task Name	Start Date	Duration	End Date
Scope Development			
Procurement			
Project Execution	8/22/2016	1642	2/19/2021
Project Closeout	2/20/2021	60	4/21/2021

Total Project Expenses (in \$1,000s) Comparison to Prior Year CIP

CIP Version	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	Total
2018		1,500	9,600	7,822						18,922
2019			567	6,787	11,356	3,477	0	0	0	22,187

Description of CIP Changes

Additional scope to the previous CIP. Construction of two Small Capital Projects, Replacement of 19 MCCs and Replacement of the unit substation EB-26, were combined with this construction project to avoid multiple shut downs in Incineration Complex II and to coordinate the works more effectively. The estimated cost has also changed.