

Northeast Water Treatment Plant - Replacement of Covers for Process Water Conduits

- Innovation
- Water MP Right Sizing
- Reliability/Redundancy
- NEWTP Repurposing

Project Status Future Planned

CIP Type Project

Project New To CIP



Project Engineer/Manager Peter Fromm

Manager Grant Gartrell

Managing Dept Water Eng

Date Original Business Case Prepared 10/1/2018

Year Project Added to CIP 2018

Budget Water

Class Lvl 1 Water

Class Lvl 2 Treatment Plants and Facilities

Class Lvl 3 Northeast

Location City of Detroit

Fund and Cost Center

Project Significance The existing steel covers that cover equipment and entry openings into settled water and filtered water conduits at the plant are significantly deteriorated to the point where they are not water-tight and require replacement. Therefore, these covers are unsafe and have been identified by the MDEQ in the most recent sanitary survey as requiring replacement. Temporary barricades are in place to prevent injury and further damage.

Scope of Work Replace steel covers, frames and associated structural support beams over the settled water and filtered water conduits.

Challenges Temporary support of sluice gate operators and partial shutdown of certain portions of the plant to facilitate replacement of embedded frames and structural supports that are located immediately above settled water and filtered water flows.

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PM Weighted Score

72

Criteria	Score	Comment
Condition	5	
Efficiency and Innovation	4	
Financial	3	
O&M	2	
Performance (Service Level/Reliability)	5	
Public Benefit	2	
Public Health & Safety	5	
Regulatory (Environmental/Legal)	2	

RC Weighted Score

61

Criteria	Score	Comment
Condition	5	
Efficiency and Innovation	1	
Financial	2	
O&M	1	
Performance (Service Level/Reliability)	5	
Public Benefit	1	
Public Health & Safety	4	
Regulatory (Environmental/Legal)	3	



Northeast Water Treatment Plant - Replacement of Covers for Process Water Conduits

Phase GLWA Employees Project management

Contract NA

Status Future Planned Start

Title GLWA Salaries

Phase Budget

Phase Status

Start Date

End Date

Cost Allocation

Funding Source

Fund

Useful Life >20Yrs?

Tot. Federal Loan Amount

Cost Estimation Information

Cost Est. Class

Cost Est. Date

Cost Est. Source

Cost Est. Prepared By

Program/Allowance Task Information

Project Manager

CIP Number

Description

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
GLWA Salaries CIP2020	FY20	\$4	2	0	2020CIP
GLWA Salaries CIP2020	FY21	\$5	2	0	2020CIP

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
		6	7					13

Phase Total Expenses By FY (All figures are in \$1,000's)



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Phase Construction

Contract TBD

Status Future Planned Start

Title NE Steel Cover Replacement

Phase Budget

Phase Status

Start Date

End Date

Cost Allocation

Funding Source

Fund

Useful Life >20Yrs?

Tot. Federal Loan Amount

Cost Estimation Information

Cost Est. Class

Cost Est. Date

Cost Est. Source

Cost Est. Prepared By

Program/Allowance Task Information

Project Manager

CIP Number

Description

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Construction	FY20	\$160			2020CIP
Construction	FY21	\$640			2020CIP

Task	Start Date	End Date	Duration
Scope Development	7/1/2019	8/15/2019	45
Procurement	8/16/2019	2/17/2020	185
Project Execution	2/18/2020	2/19/2021	367
Project Closeout	2/22/2021	5/23/2021	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
		160	640					800

Phase Total Expenses By FY (All figures are in \$1,000's)

Project Total Expenses By FY Compared to Prior CIPs (All figures are in \$1,000's)

CIP	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
2020	0	0			166	647					813