

# Springwells Water Treatment Plant, 1930 Sedimentation Basin Sluice Gates, Guides & Hoists

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

**Project Status** Active

NONE

**CIP Type** Project

**Project New To CIP** ☐



**Project Engineer/Manager** Peter Fromm

**Manager** Grant Gartrell

**Managing Dept** Water Eng

**Date Original Business Case Prepared** 6/26/2014

**Year Project Added to CIP** 2014

**Budget** Water

**Class Lvl 1** Water

**Class Lvl 2** Treatment Plants and Facilities

**Class Lvl 3** Springwells

**Location** Wayne County - Outside Detroit

**Fund and Cost Center** Water - 5519-882111

<b>Project Significance</b>	Existing sedimentation basin gates, guides and hoists are early 1930s and are in need of upgrade. Further, upgrades must result in a safer mode of gate operation.
<b>Scope of Work</b>	This project will evaluate and rehabilitate or replace the sluice gates, guides and hoists at the 1930s Filter Building at the Springwells Water Treatment Plant. These gates and appurtenances have surpassed their expected service life and require rehabilitation and/or replacement for the isolation and operation of the 1930s filters and overall maintenance of various systems at the Springwells WTP. Options for maintenance of flows are limited with current condition of these gates.
<b>Challenges</b>	Work will either require sedimentation basins to be shut down and dewatered or the work performed by divers. In either case, portions of the 1930 plant will need to be shut down to complete the work.
<b>Project History</b>	n/a
<b>Related Project</b>	none
<b>Lookup Driver</b>	5 - Public Health & Safety
<b>Other Important Info</b>	n/a
<b>Explanation</b>	The existing sluice gates are unsafe to operate. In addition, the condition of the guides is poor.

**PM Weighted  
Score**
**61.8**

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

**RC Weighted  
Score**
**52.8**

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



## Springwells Water Treatment Plant, 1930 Sedimentation Basin Sluice Gates, Guides &amp; Hoists

**Phase** Design and Build**Contract** DB-309**Status** Active**Title** 1930 Sedimentation Basin Sluice Gates, Guides & Hoists Improvements at Springwells WTP**Phase Budget** Water**Cost Allocation** CTA**Phase Status** Active**Funding Source** Bond Proceeds**Start Date****Fund** Construction Bond Fund**End Date****Useful Life >20Yrs?** Yes**Cost Estimation Information****Tot. Federal Loan Amount**

5

**Cost Est. Class**

1/1/2015

**Cost Est. Date**

GLWA

**Cost Est. Source**

GLWA

**Cost Est. Prepared By****Program/Allowance Task Information****Project Manager****CIP Number****Description**

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Design-Build	FY19	\$411			
Design-Build	FY20	\$4,123			
Design-Build	FY21	\$6,800			
Design-Build	FY22	\$5,667			

Task	Start Date	End Date	Duration
Scope Development	1/24/2018	8/23/2018	211
Procurement	8/24/2018	4/25/2019	244
Project Execution	4/26/2019	4/21/2022	1091
Project Closeout	4/22/2022	7/21/2022	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	411	4,123	6,800	5,667	0	0	0	17,001

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



## Springwells Water Treatment Plant, 1930 Sedimentation Basin Sluice Gates, Guides &amp; Hoists

Phase GLWA Employees Project management

Contract NA

Status Active

Title GLWA Salaries

Phase Budget Water

Cost Allocation CTA

Phase Status Active

Funding Source Bond Proceeds

Start Date

Fund Construction Bond Fund

End Date

Useful Life &gt;20Yrs? No

Tot. Federal Loan Amount \$0

## Cost Estimation Information

5 Cost Est. Class

1/1/2015 Cost Est. Date

GLWA Cost Est. Source

GLWA 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	FY19	\$9	4	0	
GLWA Salaries CIP2020	FY20	\$21	8	1	
GLWA Salaries CIP2020	FY21	\$21	8	1	
GLWA Salaries CIP2020	FY22	\$21	8	1	
GLWA Salaries CIP2020	FY23	\$2	1	0	

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	13	30	30	30	3	0	0	106

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



## Springwells Water Treatment Plant, 1930 Sedimentation Basin Sluice Gates, Guides &amp; Hoists

Phase Design

Contract CS-289

Status Active

Title Design 1930 Sedimentation Basin Sluice Gates, Guides, &amp; Hoists Improvements at Springwells

Phase Budget Water

Cost Allocation CTA

Phase Status Active

Funding Source Bond Proceeds

Start Date

Fund Construction Bond Fund

End Date

Useful Life &gt;20Yrs? Yes

Tot. Federal Loan Amount \$0

## Cost Estimation Information

5 Cost Est. Class

1/1/2015 Cost Est. Date

GLWA Cost Est. Source

GLWA Cost Est. Prepared By

## Program/Allowance Task Information

Project Manager

CIP Number

Description

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Engineering Services	FY19	\$18			2020CIP

Task	Start Date	End Date	Duration
Scope Development	2/28/2018	4/15/2018	46
Procurement	4/16/2018	5/29/2018	43
Project Execution	6/7/2018	8/24/2018	78
Project Closeout	8/24/2018	11/22/2018	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	18							18

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
2018			1,200	2,000	4,000	300			0	0	7,500
2019	0			424	4,153	6,830	5,697	3		0	17,107
2020	0	0		442	4,153	6,830	5,697	3	0	0	17,125