114002 CIP#

Springwells Water Treatment Plant, Low-Lift and High-Lift Pumping Station Improvements

Reliability/Redund	Innovation Water MP Right Sizing Reliability/Redundancy NEWTP Repurposing Project Status Active CIP Type Project Project New To CIP		High Lift Station viewed from Low Lift Station operating floor showin high lift pump pits ar windows to be replace	on ng nd oe		
Project Engineer/Ma	•		Budget			
Mai	nager G	rant Gartrell	Class Lvl 1	Water		
Managing	Dept W	/ater Eng	Class Lvl 2	Treatment Plants and Facilities		
Date Original Busines	ss Case I	Prepared 3/29/2004	Class Lvl 3	Springwells		
Year Project Added to CIP 2004			Location	Wayne County - Outside Detroit		
			Fund and Cost Center	Water - 5519-882111		
Project Significance	Existing low- and high-lift pumping system electrical switchgear is original (1930s) and are well beyond their useful service life. This switchgear is unsafe, not reliable and is oversized for current and projected demands. In addition, the existing pumping units are a mix of 1930s and 1950s units and are also in need of either replacement or in the case of the pumps rehabilitation. The exterior windows on the pumping plant building are also original (1930s), are in poor condition and are not well insulated. As a result, all of the exterior windows on the pumping plant building need to be replaced with new, energy efficient windows.					
Scope of Work	outdate	ctrical gear at the Springwells WTP high ed equipment also poses safety issues. I t pumping systems.		•		
Challenges	Complicated sequence of construction required to replace electrical gear while maintaining system demands throughout construction. During construction, new costly equipment will be operating next to existing equipment/facilities to be demolished					
Related Project	Contrac	ct No. CS-103 with CDM Smith Design a	nd Construction Administra	tion Services		
Lookup Driver	1 - Cond	dition				
Explanation	Not pro	vided.				



Springwells Water Treatment Plant, Low-Lift and High-Lift Pumping Station Improvements

PM	Weighted
	Score

78.6

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

RC Weighted Score

69.2

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

Springwells Water Treatment Plant, Low-Lift and High-Lift Pumping Station Improvements

hase not applicable					C	Contract	NA	\	Sta	tus Clo	sed Out			
itle Prior Year Actu	ual Expe	enses												
Phase Budget Wa	Phase Budget Water				Cost Allocation CTA									
Phase Status Clo	sed Ou	ı†							Funding S	ource				
Start Date										Fund				
End Date	nd Date						Us	eful Life >2	20Yrs?					
Cost E	Estimatio	on Inform	ation				Tot. Fe	eder	al Loan Ar	nount				
	5	Cost	Est. C	lass		Program/Allowance Task Information								
1/1,	/2016	Cost	Est. Do	ate	Project Manager									
GLWA		Cost	Cost Est. Source			IP Nu	mber							
GLWA		Cost	Est. Pr	epared By	D	escri	otion							
Cost Type		Fiscal Y	'ear	Expens	e	Fringe	e Benefit	Non	Personne	(Commer	n†		
Engineering Service	es	FY18-			\$468				F	Y18				
Unknown		FY18-			\$22				F	Y17				
GLWA Salaries CIP2020 FY18-			\$7		1		O F	Y18						
Prior Yr Actuals	FY1	9 F	Y20	FY21	FY2	22	FY23		FY24	FY25+	Total			
498											4	198		

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

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Springwells Water Treatment Plant, Low-Lift and High-Lift Pumping Station Improvements

Phase Construction Contract NA Status Future Planned Start

Title SPW WTP - Low Lift and High Lift Pump Station

Phase Budget	Water
Phase Status	Future Planned Start
Start Date	
End Date	

Cost Estimation Information							
5	Cost Est. Class						
1/1/2016	Cost Est. Date						
GLWA	Cost Est. Source						
GLWA	Cost Est. Prepared By						

	Cost Allocation	CTA
	Funding Source	Bond Proceeds
	Fund	Construction Bond Fund
Us	eful Life >20Yrs?	Yes
Tot. Feder	al Loan Amount	
Prog	ram/Allowance	Task Information
Project Manager		
CIP Number		
Description		

Cost Type	Fiscal Year	Expense	Fringe Benefit	VonPersonne	Comment
Construction	FY20	\$3,590			2020CIP
Construction	FY21	\$8,157			2020CIP
Construction	FY22	\$13,079			
Construction	FY23	\$13,079			
Construction	FY24	\$25,000			
Construction	FY25+	\$40,000			2020CIP

Task	Start Date	End Date	Duration
Scope Development	9/29/2020	12/28/2020	90
Procurement	12/29/2020	7/2/2021	185
Project Execution	7/6/2021	6/1/2026	1791
Project Closeout	6/2/2026	8/31/2026	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	0	3,590	8,157	13,079	13,079	25,000	40,000	102,905



Springwells Water Treatment Plant, Low-Lift and High-Lift Pumping Station Improvements

Phase Study and Design and Construction Assistance Contract CS-103 Status Under Procurement

Title CS-103, SPW WTP - Low Lift and High Lift Pump Station

Phase Budget	Water
Phase Status	Under Procurement
Start Date	
End Date	

Cost Estimation Information										
5	Cost Est. Class									
1/1/2016	Cost Est. Date									
GLWA	Cost Est. Source									
GLWA	Cost Est. Prepared By									

	Cost Allocation	CTA
	Funding Source	Bond Proceeds
	Fund	Construction Bond Fund
Us	eful Life >20Yrs?	Yes
Tot. Feder	al Loan Amount	
Prog	ram/Allowance	Task Information
Project Manager		
CIP Number		
Description		

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Engineering Services	FY19	\$2,462			
Engineering Services	FY20	\$2,250			
Engineering Services	FY21	\$1,000			
Engineering Services	FY22	\$500			
Engineering Services	FY23	\$500			
Engineering Services	FY24	\$1,000			
Engineering Services	FY25+	\$2,686			2020CIP

Task	Start Date	End Date	Duration
Scope Development	11/2/2016	1/31/2017	90
Procurement	2/1/2017	2/1/2018	365
Project Execution	2/2/2018	6/1/2026	3041
Project Closeout	6/2/2026	8/31/2026	90

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	2,462	2,250	1,000	500	500	1,000	2,686	10,398



Springwells Water Treatment Plant, Low-Lift and High-Lift Pumping Station Improvements

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

Phase GLWA Employee itle GLWA Salaries	es Projec	ct managen	nent		Contract	NA	A	Sta	tus Active		
Phase Budget Water							Cost Alloc	cation CTA			
Phase Status Active							Funding So	ource Bond	d Proceeds		
Start Date								Fund Cons	struction Bo	nd Fund	
End Date						Us	seful Life >2	OYrs? No			
Cost Estir	nation Ir	nformation			Tot. F	ede	ral Loan An	nount		\$0	
	5	Cost Est. C	ass			Prog	gram/Allow	ance Task	Information	1	
1/1/20	16	Cost Est. Do	ate	Р	roject Manag	er					
GLWA		Cost Est. So	ource	C	CIP Number						
GLWA		Cost Est. Pr	epared By	D	escription						
Cost Type	Fi	iscal Year	Expens	e	Fringe Benefi	Nor	Personne	(Comment		
GLWA Salaries CIP2020			•	\$100	40		5				
GLWA Salaries CIP2020	FY2	20		\$100	40)	5				
GLWA Salaries CIP2020	FY2	21		\$100	40)	5				
GLWA Salaries CIP2020				\$100	40		5				
GLWA Salaries CIP2020				\$100	40		5				
GLWA Salaries CIP2020				\$100	40		5	0000010			
GLWA Salaries CIP2020	FY2	25+		\$100	40)	5 2	2020CIP			
Prior Yr Actuals	FY19	FY20	FY21	FY:	22 FY23		FY24	FY25+	Total		
	145	145	145		145 1	45	145	145	1,015		
		Ph	nase Total Ex	(pense	es By FY (All fig	gure	s 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			1,500	2,000	12,500	22,000	21,500	26,500	0	0	86,000



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CIP	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
2019	0	22	463	1,433	2,481	1,453	11,228	8,675	59,748	0	85,503
2020	0	0	498	2,607	5,985	9,302	13,724	13,724	26,145	42,831	114,816