Clarifier #2 - Replace	ment Ch	nains an	d Flygt	e	s 180. <sup>-</sup>	Priority Score: 60.	40
Project Type:	Rehabilitat	ion				Priority Level: High	
Growth Related?:	No					Department: Public Works and End	ineerina
Estimated Useful Life (vears):	10					Staff Contact: Matt Prentice	
				1			
Cash Flow Projection:	2022	2023	2024+		Description and Ra	tionale:	
Studies				-	The Clarifier Chai	ns and Flygtes at the WWTP are hig	gh-wear
				$\left  \right $	mechanical eleme	ents which require frequent maintena	ance and have a
Communication / Signage				1	lindoor sonvice me	ompared to items such as pumps, va	aives and other
Construction / Contractor	\$ 100,000			1	end of their useful	Llife and frequent downtime will be i	incurred if they are
Materials	. ,			1	not replaced.		
Equipment/Misc				]			
Contingency							
Total	\$ 100,000	\$ 0	\$ 0				
Costs Incurred to 2022 Year End							
Impact on Operating Budget	\$ 0	\$ 0	\$ 0				
Total Project Budget:	\$ 100,000			]			
Schedule:							
Construction Start Date:	05/01/2022	2					
Substantial Completion or purchase date:	09/30/2022	2					
Funding Sources:				]			
Waste Water Rates		\$ 100,000					
Please Select		\$ 0					
Please Select		\$ 0					
Please Select		\$ O				Attach/View Images	
Please Select Capital Reserve		0¢ ¢0					
		ψΟ		1			



Clarifier #2 -	Replacement	Chains and	Flygtes
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Justification for Matrix V	alues Sco	re	0 - 5	Justification / Rationale for Rating		
People	How many people will be directly impacted by the project?	5	This can affect the wastew City	vater treatment train which affects the entire		
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	3	This poses a risk to prope	r sewage treatment		
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources	Act		
Asset Management	Is the project a high priority for replacement in the asset management plan.	4	These are identified on the	e 10 year plan		
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	3	A failure of a clarifier woul time while repairs are com concurrent with high flows	d decrease capacity by 25%, for an exended pleted, which would be a concern if		
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No			
Environment	Does the project address needs impacted by climate change?	3	Wet weather flows are now	<i>w</i> more frequent		
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A			
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None			
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A: Core Service			
Public Input	Has the project been identified through public engagement?	1	None			

<b>Clarifier Mecha</b>	nical N	Mainte	enance	e 220.1 Priority Score: 60.40
Project Type:	Rehabilitat	ion		Priority Level: High
Growth Related?:	No			Department: Public Works and Engineering
Estimated Useful Life (years):	15			Staff Contact: Matt Prentice
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:
Studies				
In House Engineering				
Design or Engineering				Clarifier Mechanical Maintenance is required on an as-needed basis as
Communication / Signage				wear and tear on the components progresses, but typically significant
Construction / Contractor	\$ 50,000		\$ 50,000	work is required every 3 to 5 years.
Materials				
Equipment/Misc				The budget for 2022 is for purchasing and replacing specific worn items,
Contingency	\$ 50,000	¢ 0	¢ 50.000	strips)
	φ 50,000	φU	φ 50,000	
Costs Incurred to 2022 Year End				
Impact on Operating Budget	\$0	\$ 0	\$ 0	
Total Project Budget:	\$ 100,000			
Schedule:				
Construction Start Date:	05/01/2022	2		
Substantial Completion or		_		
purchase date:	09/30/2022	2		
Funding Sources:				
Waste Water Rates		\$ 50,000		
Please Select		\$ 0		
Please Select		\$ 0		
Please Select		\$ 0		Attach/View Images
Please Select		\$ 0		
Capital Reserve		\$0		





#### Clarifier Mechanical Maintenance 220.1

60.40 Priority Score:

Justification for Matrix Values		re	<b>90-5</b> Justification / Rationale for Rating		
People	How many people will be directly impacted by the project?	5	This can affect the wastewater treatment train which affects the entire City		
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	3	This poses a risk to proper sewage treatment		
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act		
Asset Management	Is the project a high priority for replacement in the asset management plan.	4	These are identified on the 10 year plan		
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	3	A failure of a clarifier would decrease capacity by 25%, for an exended time while repairs are completed, which would be a concern if concurrent with high flows		
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No		
Environment	Does the project address needs impacted by climate change?	3	Wet weather flows are now more frequent		
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A		
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None		
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N:A : Core Service		
Public Input	Has the project been identified through public engagement?	1	None		

Storage Tank E	Biosolio	ds Cle	eanout	230.2 Priority Score: 69.30
Project Type:	Rehabilitat	ion		Priority Level High
Growth Related?	No			Department: Public Works and Engineering
Estimated Useful Life (years):	50			Staff Contact: Matt Prentice
Estimated Oseful Life (years).	50			
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:
Studies				The biosolids storage tank (pictured) at the Wastewater Treatment Plant
In House Engineering				receives digested biosolids after treatment, and stores them for
Design or Engineering				seasonal land application.
Communication / Signage		<b>*</b> 450.000		
Construction / Contractor		\$ 150,000		In time the tank accumulates sediment and debris and requires a
				cleaning for proper operation; especially mixing and pumping.
Equipment/Misc				At this time, it is expected that by 2022 this will be required again
Contingency	¢ 0	¢ 150.000	<u> </u>	At this time it is expected that by 2023 this will be required again.
	\$0	\$ 150,000	\$0	
Costs Incurred to 2022 Year End				
Impact on Operating Budget	\$ 0	\$0	\$ 0	
Total Project Budget:	\$ 150,000			
Schedule:				
Construction Start Date	05/31/2023	3		
Substantial Completion of	r	_		
purchase date	09/01/2023	3		
Funding Sources:				
Waste Water Rates		\$ 150.000		
Please Select		\$ 0		
Please Select		\$ 0		
Please Select		\$ 0		Attach/View Images
Please Select		\$ 0		
Capital Reserve		\$ 0		



#### Storage Tank Biosolids Cleanout 230.2

Justification for Matrix Values		re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	5	This is the biosolids storage for the entire City
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	5	Storage tank mixing or pumping failure could create adverse reactions in the tank, which could create dangerous and oderous gases.
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	3	This is a recurring requirement for asset maintenance
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	4	This is a necessary regular activity in order to allow proper operation of the biosolids treatment train.
Financing	Can the cost of investment be leveraged or are there partnership funds available?	2	Reserves
Environment	Does the project address needs impacted by climate change?	1	Increased flows do not necessarily translate to increased biosolids production.
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	No public spaces adversely impacted
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	3	Prevent a possible severe odour problem.
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	0	None

Digestor Bio-Solids Cle	ear	nout					240 3	Priority Level:	B - high
Project Type:	N	/laint	er	nance	•		240.5	Department:	Public Works and
Growth Related?						No		Staff Contact:	Matt Prenctice
Cash Flow Proiection:		2022		2023		2024	Description and rationale:		
Studies	Ś		Ś		Ś		The digestor, with a capacity of	about 2000 cubic m	netres receives the biosolids frc
In House Engineering	\$	-	\$	-	\$	-	the clarifiers at the WWTP, and	provides additional	treatment, and produces bioga
Design or Engineering	\$	-	\$	-	\$	-	prior to being stored on site in t	he two storage tan	ks, then land applied.
Communication/Signage	\$	-	\$	-	\$	-	Approximately every five years	deletrious materials	s in the digestor must be cleane
Construction	\$	-	\$	-	\$	-	out to allow for proper tank ope	eration, especially t	he biosolids pumps and mixing
Materials	\$	-	\$	-	\$	-	system. Otherwise rags and oth	er materials begin t	o clog those components, which
Equipment/Misc	\$	-	\$	-	\$	300,000	could result in digestor failure.	Currently such clog	ging events are accelerating in
Internal Staff Time/Equipment	\$	-	\$	-	\$	-	frequency.		
Contingency	\$	-	\$	-	\$	-			
Total	\$	-	\$	-	\$	300,000			
Total Project Budget:	Ş	\$			30	0,000			
Schedule:									and the second second
Design Start Date:							2.40		John wheel
Construction Start Date:				July					
Substantial Completion or purchase date:				August					
Current Year Funding Sou	urc	ces:							
Waste Water Rates	\$			300,000	)				and the second
Select from List				,					
Select from List									
Select from List									
Select from List									
Taxation	\$			-					

240.3 Digestor Cleanout

Air Header Rec	onstru	ction		200.2 Priority Score: 63.80
Project Type:	Rehabilitati	on		Priority Level: High
Growth Related?:	No			Department: Public Works and Engineering
Estimated Useful Life (years):	15			Staff Contact: Matt Prentice
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:
Studies				The inlet channel air header piping at the wastewater plant is aged and
In House Engineering				requires replacement. The purpose of the air header is to aerate the
Design or Engineering				sewage enough to prevent the clarifers from going septic, and therefore
Communication / Signage				prevent sludge lifting and odour problems. The headers were originally
Construction / Contractor				intended to be replaced as part of the WWTP Secondary Upgrade
Materials	\$ 40,000			project but were removed from the scope for budget reasons. The
Equipment/Misc			operators intend to purchase the new material and make rep	operators intend to purchase the new material and make repairs with
Contingency				own forces. The cost for a contractor to repair was previously
Total	\$ 40,000	\$ 0	\$ 0	estimated at \$160,000.
Costs Incurred to 2022 Year End				Due to supply chain issues, the equipment and parts were ordered in
Impact on Operating Budget	\$0	\$ 0	\$ 0	2021 but were received in December 2021 and January 2022. The Operators intend to purchase some additional parts (piping) and install
Total Project Budget:	\$ 40,000			In the summer of 2022.
Schedule:				
Construction Start Date:	05/01/2022			
Substantial Completion or purchase date:	09/30/2022			
Funding Sources:				
Waste Water Rates		\$ 40,000	)	
Please Select		\$ (	)	
Please Select		\$ (	)	
Please Select		\$ C	)	Attach/View Images
Please Select		\$ C		
Capital Reserve		\$ 0	)	



#### **Air Header Reconstruction**

Justification for Matrix V	/alues Sco	re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	5	This can affect the wastewater treatment train which affects the entire City
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	3	This poses a risk to proper sewage treatment
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	4	These are identified on the 10 year plan
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	4	The failure of the aeration system can cause a clarifier to go "septic" which can create odour issues, and pass excess solids and other contaminants on to the secondary treatment.
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No
Environment	Does the project address needs impacted by climate change?	2	Wet weather flows are now more frequent but this is not as relevant a factor for this project
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N:A : Core Service
Public Input	Has the project been identified through public engagement?	1	None

WWTP Site Building	HVAC a	and Roo	f Repai	irs 230.3 Priority Score: 62.90
Project Type:	Rehabilitat	ion		Priority Level High
Growth Related?:	No			Department: Public Works and Engineering
Estimated Useful Life (years):	50			Staff Contact: Matt Prentice
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:
Studies		2025	20241	
In House Engineering				In 2020 a facility asset assessment for building-related items was
Design or Engineering				the roofs at the Wastewater Treatment Plant
Communication / Signage				
Construction / Contractor		\$ 105,000	\$ 20,000	It was identified that the locations with the greatest roofing needs were
Materials				the gas room roof, and the old bar screen building roof, shown on the
Equipment/Misc				attached pictures. As part of a rehabilitation schedule, it was proposed
Contingency				to undertake that work in 2023.
Total	\$ 0	\$ 105,000	\$ 20,000	
Costs Incurred to 2022 Year End				]
Impact on Operating Budget	\$ 0	\$0	\$0	]
Total Project Budget:	\$ 125,000			]
Schedule:				
Construction Start Date:	05/31/2023	3		
Substantial Completion or		2		
purchase date:		,		∃
Funding Sources:				
Waste Water Rates		\$ 105,000		
Please Select		\$ 0		
Please Select		\$ 0		
Please Select		\$ 0		Attach/View Images
Please Select		\$ 0		
Capital Reserve		\$ 0		



Justification for Matrix V	/alues Sco	re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	5	This is the biosolids storage for the entire City
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	4	A roof leak could create a health and safety risk to staff, especially if electrical equipment were affected
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	3	This is a recurring requirement for asset maintenance
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	3	Roof leakage can damage equipment and disrupt operations
Financing	Can the cost of investment be leveraged or are there partnership funds available?	2	Reserves
Environment	Does the project address needs impacted by climate change?	2	Increased rainfall
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	No public spaces adversely impacted
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	2	Existing roofs aesthetically displeasing but relatively minor issue here.
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	0	None

WWTP Instrum	entati	on/SC	ADA	220.2 Priority Score: 66.40
Project Type:	Rehabilitat	tion		Priority Level: High
Growth Related?:	No			Department: Public Works and Engineering
Estimated Useful Life (years):	5			Staff Contact: Matt Prentice
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:
Studies				There is a need to replace electrical and SCADA equipment which have
In House Engineering				a short lifespan.
Design or Engineering				
Communication / Signage				The equipment that was installed in 2016 and 2017 which requires
Construction / Contractor				replacement: the Uninterrupted Power Supplies (UPS's; 18 units) for the
Materials	\$ 40,000		\$ 40,000	Programmable Logic Controllers (PLC's), as well as some SCADA View
Equipment/Misc				Nodes.
Contingency				
Total	\$ 40,000	\$ 0	\$ 40,000	
Costs Incurred to 2022 Year End				
Impact on Operating Budget	\$ 0	\$0	\$0	
Total Project Budget:	\$ 80,000			
Schedule:				
Construction Start Date:	05/01/202	2		
Substantial Completion or		n		
purchase date:	09/30/202	Ζ		
Funding Sources:				
Waste Water Rates		\$ 40.000	)	
Please Select		\$ 0	)	
Please Select		\$ C	)	
Please Select		\$ C	)	Attach/View Images
Please Select		\$ C		
Capital Reserve		\$ C	)	



#### WWTP Instrumentation/SCADA

Justification for Matrix V	/alues Sco	re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	5	This can affect the wastewater treatment train which affects the entire City
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	4	PLC failure poses a considerable risk to proper sewage treatment
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	4	These are identified on the 10 year plan
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	4	PLC failure would result in the plant control system "Crashing" and sewage treatment could partially or entirely cease, (There are alarms in place to alert the operators of this outcome)
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No
Environment	Does the project address needs impacted by climate change?	2	Wet weather flows are now more frequent but this is not as relevant a factor for this project
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N:A : Core Service
Public Input	Has the project been identified through public engagement?	1	None

Process Mechanica	I I/C Bio	ogas Eo	quipme	nt 220	.3 Priority Score: 68.40
Project Type:	Rehabilitat	ion			Priority Level: <sup>High</sup>
Growth Related?:	No				Department: Public Works and Engineering
Estimated Useful Life (years):	5				Staff Contact: Matt Prentice
Cash Flow Projection:	2022	2023	2024+	Description and	Rationale:
Studies					
In House Engineering				In 2022 and 202	23 it is intended to perform needed work on some of the
Design or Engineering				biogas system o	components. It is necessary to replace worn digester
Communication / Signage				gas safety devic	ces, and rehabilitate the methane boiler system. (Biogas
Construction / Contractor				lis harder on boi	lers than utility-supplied gas.)
Materials	\$ 100,000	\$ 40,000			
Equipment/Misc					
Contingency					
Total	\$ 100,000	\$ 40,000	\$ 0		
Costs Incurred to 2022 Year End					
Impact on Operating Budget	\$ 0	\$0	\$0		
Total Project Budget:	\$ 140,000				
Schedule:					
Construction Start Date:	05/01/2022	2			
Substantial Completion or					
purchase date:	09/30/2022	2			
Funding Sources:					
Waste Water Rates		\$ 100,000	)		
Please Select		\$ 0	)		
Please Select		\$ 0	)		
Please Select		\$ 0			Attach/View Images
Please Select		\$ 0			
Capital Reserve		\$ 0	)		



Process M	echanical	I/C Biogas	Equipment
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Justification for Matrix V	/alues Sco	re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	5	This can affect the wastewater treatment train which affects the entire City
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	5	Components to be replaced include very significant pressure relief valves on the Digester. Failure could pose a significant risk.
Legislation	Is the project required for legislative/regulatory compliance?	5	Technical Standards and Safety Act (TSSA)
Asset Management	Is the project a high priority for replacement in the asset management plan.	4	These are identified on the 10 year plan
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	4	Failure of a portion of the biogas system could result in an unsafe condition, or improper operation of the boiler system and subsequent failure to heat the biosolids for digestion, and digestion failure.
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No
Environment	Does the project address needs impacted by climate change?	1	Wet weather flows are now more frequent but this is not a relevant factor for this project
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	1	None

Process Electric	al i/c G	as De	etectio	n 230.	<b>1</b> Priority Score:	73.50
Project Type:	Rehabilitati	on			Priority Level: Very High	
Growth Related?:	No				Department: Public Works a	and Engineering
Estimated Useful Life (years):	50				Staff Contact: Matt Prentic	e
Cash Flow Projection:	2022	2023	2024+	Description and R	ationale:	
Studies				Regular inspection	on and preventative maintenar	nce of the WWTP
In House Engineering				transformer is re	quired. It is also proposed to r	elocate the BAF influent
Design or Engineering				on-line analyzers	s from the outside roof-top, to i	ndoors of the BAF
Communication / Signage		¢ 70.000		wet-well. This is	primarily an electrical project.	Performing analyzer
Construction / Contractor		\$70,000		maintenance at t	the current location is a safety	concern, and not always
Fauipment/Misc				possible in the w	inter. It is also undesirable for	
Contingency						
Total	\$ 0	\$ 70,000	\$ 0			
Costs Incurred to 2022 Year End						
Impact on Operating Budget	\$ 0	\$0	\$ 0			
Total Project Budget:	\$ 70,000					
Schedule:						
Construction Start Date	05/31/2023					
Substantial Completion or purchase date	09/01/2023					
Funding Sources:						
Waste Water Rates		\$ 70,000				
Please Select		\$ C				
Please Select		\$ C				
Please Select		\$ 0			Attach/View Images	
Please Select		\$ U ¢ ∩				
		φU	'			



Process Electrical i/	c Gas Detection
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Justification for Matrix V	/alues Sco	re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	5	This is the only transformer for the WWTP and thereby affects the entire City.
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	5	A transformer failure could create a serious health and safety issue, and the rooftop work is specifically to address a health and safety issue.
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	3	The transformer work is a recurring requirement for asset maintenance, and the other instruments will have useful life extended if relocated.
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	5	A properly operating transformer is necessary for plant operation, and the analyzers identified track important process variables.
Financing	Can the cost of investment be leveraged or are there partnership funds available?	2	Reserves
Environment	Does the project address needs impacted by climate change?	2	Necessary work on the transformer, and other works, required to ensure uninterrupted wastewater treatment.
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	No public spaces adversely impacted
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	2	No adverse impact on aesthetic value
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	0	None

#### Intermediate Bar Screens 220.4 64.40 **Priority Score:** Priority Level: High **Project Type:** New Asset Department: Public Works and Engineering Growth Related?: No Estimated Useful Life (years): 25 Staff Contact: Matt Prentice **Cash Flow Projection: Description and Rationale:** 2024+ 2022 2023 Studies The existing Bar Screens at the Wastewater Treatment Plant provide In House Engineering pre-treatment removal of coarse materials before grit removal and Design or Engineering \$ 80,000 clarification. Materials removed include rags, sticks, and other debris, Communication / Signage which would damage downstream components if not removed. The \$ 900,000 Construction / Contractor biosolids removed in the clarifiers are pumped to the digester for further treatment, and then to storage tanks. However, because initial Materials Equipment/Misc screening does not remove 100% of the coarse material, over time, rags and other items build up in the digester and storage tanks and need to Contingency be removed in a cleanout, which is an expensive process; \$150,000 + \$ 80,000 \$ 900.000 Total \$0 for a storage tank and \$300,000 + for the digester. Costs Incurred to 2022 Year End In 2021 the digester cleanout which was undertaken confirmed that Impact on Operating Budget \$ () \$0 \$0 excess materials are passing through the screening process, affecting the digestion process, and impacting cleanout costs Total Project Budget: \$ 980,000 New Intermediate fine screening equipment, located between the grit Schedule: building and the clarifiers, would pay for itself by reducing frequency of expensive tank cleanouts. Even more importantly, it would reduce the Construction Start Date: 11/30/2022 risk to the BAF process which could result in environmental Substantial Completion or non-compliance and requiring replacement of expensive BAF media. purchase date: 05/01/2023 **Funding Sources:** Waste Water Rates \$80.000 Please Select \$0 \$0 Please Select \$0 Please Select **Attach/View Images** \$0 Please Select \$0 **Capital Reserve**



#### **Intermediate Bar Screens**



Justification for Matrix Values		re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	5	This can affect the wastewater treatment train which affects the entire City
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	3	Failure of the bar screen system can have a significant environmental and health ans safety impact if treatment failures result
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act, Nutrient Management Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	4	These are identified on the 10 year plan
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	4	Failure of the bar screen system poses a risk to both biological processes at the plant; digestion, and the BAF.
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No
Environment	Does the project address needs impacted by climate change?	3	Wet weather flows are now more frequent; this is a relevant factor for this project since higher flows carry a higher debris load
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	1	None

Wastewater Gra	ant Pr	ojects	•	220.5,6,7 Priority Score: 72.80
Project Type:	Rehabilitat	ion		Priority Level: Very High
Growth Related?:	No			Department: Public Works and Engineering
Estimated Useful Life (years):	50			Staff Contact: Matt Prentice
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:
Studies				In December 2021 the Ministry of the Environment, Conservation, and Parks notified
In House Engineering				the City that a new program was being implemented entitled "Improved Monitoring
Design or Engineering				total of \$192.284 under the program.
Communication / Signage	¢ 100.000			
Construction / Contractor	\$ 190,000			The stated purpose of the program is to provide support to municipalities to continue or start work to improve monitoring/modelling and real-time public reporting of sewage
Fauipment/Misc				overflows and bypasses.
Contingency				The following is a list of grain stand high group he aligible for funding and sould be
Total	\$ 190,000	\$ 0	\$ 0	included in the workplan.
Costs Incurred to 2022 Year End				- Replacing and improving the current real-time overflow monitoring units which are
Impact on Operating Budget	\$ 0	\$ 0	\$ 0	due to the environment and age.
Total Project Budget:	\$ 190,000			- Improving the City's existing computer sewer model to include wet weather modelling.
Schedule:				- Equipment to improve real time precipitation data gathering. This would help the
Construction Start Date:	06/01/2022	2		City more accurately characterize storms as 10-year, 25-year, or 100 year, etc., which is an important part of defence in flooding and other claims such as sewer backups.
Substantial Completion or purchase date:	12/31/2022	2		Staff intends to bring the draft workplan to the Operations Committee prior to submission to the Province.
Funding Sources:				
Waste Water Rates		\$ 0		
Grant		\$ 190,000		
Please Select		\$ 0		
Please Select		\$ 0		Attach/View Images
Please Select		\$0 ¢0		
		φΟ		



#### Wastewater Grant Projects

220.5,6,7

Priority Score: 72.80

Justification for Matrix V	/alues Sco	re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	5	This monitoring and reporting piece would affect the entire City
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	5	Combined Sewer Overflows are a continuing issue and have resulted in beach closures in the past
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	2	These had been identified in the capital program in the past but never implemented in current year
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	3	These projects can have a positive impact on operational performance with respect to ease of reporting as well as accuracy and precipitation data usage for defence against claims
Financing	Can the cost of investment be leveraged or are there partnership funds available?	5	Fully Funded by province
Environment	Does the project address needs impacted by climate change?	5	Very relevant factor for this project
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	1	None

4th Ave West 28th	St Apa	rtment	s Sewe	er 220.10 Priority Score: 59.80
Project Type:	Rehabilitati	ion		Priority Level: High
Growth Related?:	No			Department: Public Works and Engineering
Estimated Useful Life (years):	50			Staff Contact: Matt Prentice
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:
Studies				This project is to upgrade 70m of sanitary sewer along 4th Avenue West
In House Engineering				in the 2900 Block. This sewer upgrade is to accommodate a new
Design or Engineering				apartment development on 28th Street West in the 500 Block.
Communication / Signage				
Construction / Contractor	\$ 100,000			The capacity and condition of a portion of the existing sewer are
Materials				marginal for the proposed development.
Equipment/Misc				
Contingency				
Total	\$ 100,000	\$0	\$0	
Costs Incurred to 2022 Year End				
Impact on Operating Budget	\$0	\$0	\$ 0	
Total Project Budget:	\$ 100,000			
Schedule:				
Construction Start Date:	06/01/2022	2		
Substantial Completion or				
purchase date:	12/31/2022	2		
Funding Sources:				
Waste Water Rates		\$ 100,000		
Please Select		\$ 0		
Please Select		\$ 0		
Please Select		\$ 0		Attach/View Images
Please Select		\$ 0		
Capital Reserve		\$0		



#### 4th Ave West 28th St Apartments Sewer 220.10

Justification for Matrix Values		re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	3	This would affect the local serviced area
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	4	Sewer backups could result
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	2	Sewer replacement and lining is an ongoing program
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	4	Sewer backups and their after effects consume significant staff and private sector resources
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No
Environment	Does the project address needs impacted by climate change?	3	Wet weather flows are now more frequent; this is a somewhat relevant factor for this project
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	3	Land use development planning process

Stormwater Se	paratic	n Pro	gram	160.4 Prio	ority Score: 65.60
Project Type:	Rehabilitati	on		Priority Leve	el: High
Growth Related?:	No			Department:	Public Works and Engineering
Estimated Useful Life (years):	50			Staff Contac	<b>:</b> Matt Prentice
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:	
Studies				Inflow and infiltration reduction w	vorks (aka stormwater separation) are
In House Engineering				undertaken with the funds set as	side for this program and can include
Communication / Signage	+			separation of stormwater catchba	asins, public or private, which contribute
Construction / Contractor	\$ 70,000	\$ 50,000	\$ 50,000	other works selected on a priority	v basis to reduce inflow and infiltration
Materials			. ,	etter werke beleeted en a prierk	
Equipment/Misc				Currently, this years budget is te	entatively focused on removing large
Contingency				roof areas and catchbasins direc	ctly connected to the sanitary sewer.
Total	\$ 70,000	\$ 50,000	\$ 50,000		
Costs Incurred to 2022 Year End					
Impact on Operating Budget	\$ 0	\$0	\$ 0		
Total Project Budget:	\$ 170,000				
Schedule:					
Construction Start Date	06/01/2022				
Substantial Completion or purchase date:	12/31/2022				
Funding Sources:					
Waste Water Rates		\$ 70,000			
Please Select		\$0			
Please Select		\$ 0			
Please Select		\$0 ¢0		Attach/View	Images
Capital Reserve		\$0 \$0			



#### Stormwater Separation Program 160.4

Justification for Matrix V	/alues Sco	re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	3	This would affect the local serviced area
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	4	Combined Sewer Overflows are a consequence of stormwater connections
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	3	This is an ongoing program in the 10 year plan
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	5	Combined Sewer Overflows are a result of stormwater connections, but also very high flows in the system can result in surcharging of the system which results in sewer backups during very high-flow events.
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No
Environment	Does the project address needs impacted by climate change?	4	Wet weather flows are now more frequent; this is a very relevant factor for this project
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	1	None

PLC and Commu	unicatio	ons Up	ograde	S 180.3 Priority Score: 67.60
Project Type:	Rehabilitati	on		Priority Level: High
Growth Related?:	No			Department: Public Works and Engineering
Estimated Useful Life (years):	50			Staff Contact: Matt Prentice
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:
Studies				The existing Westside Pumping Station PLC requires replacement and
In House Engineering				integration into the overall Wastewater Scada network as the PLC is
Design or Engineering				aged and replacement parts are impossible to find, and the program is
Communication / Signage				obsolete and will need to be transferred and recoded.
Construction / Contractor	\$ 75,000			
Materials				This project was carried over from 2021.
Equipment/Misc				
Contingency				
Total	\$ 75,000	\$ 0	\$ 0	
Costs Incurred to 2022 Year End				
Impact on Operating Budget	\$ 0	\$0	\$0	
Total Project Budget:	\$ 75,000			
Schedule:				
Construction Start Date	06/01/2022	2		
Substantial Completion or	-			
purchase date	12/31/2022	-		
Funding Sources:				
Waste Water Rates		\$ 70,000	)	
Please Select		\$ 0	)	
Please Select		\$ 0	)	
Please Select		\$ 0		Attach/View Images
Please Select		\$ 0		
Capital Reserve		\$ 0	)	



#### PLC and Communications Upgrades

Justification for Matrix V	alues Sco	re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	4	This would affect the serviced area for the Westside Sewage Pumping Station which is a quarter of the City
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	4	Combined Sewer Overflows could result from station failure
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	3	This has been identified in the 10 year plan
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	5	If the PLC fails and the station had to be run on manual mode, it is not clear how that would be possible without constant supervision.
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No
Environment	Does the project address needs impacted by climate change?	4	Wet weather flows are now more frequent; this is a very relevant factor for this project
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	1	None

Collection System	Capita	l Reinv	vestme	nt 210.	Priority Score:	67.60
Project Type:	Rehabilitat	ion			Priority Level: High	
Growth Related?:	No				Department: Public Works a	and Engineering
Estimated Useful Life (years):	50				Staff Contact: Matt Prentic	e
Cash Flow Projection:	2022	2023	2024+	Description and R	ationale:	
Studies				This project is to	continue with the rehabilitation	n of the sanitary sewer
In House Engineering				infrastructure wit	h a focus on sanitary sewer m	ains. This rehabilitation
Design or Engineering				will be conducted	d through "cured in place pipe"	(CIPP) technology. The
Communication / Signage				city is currently ir	n 2nd year of a 3 year contract	to rehabilitate
Construction / Contractor	\$ 350,000	\$ 350,000	\$ 350,000	approximately 5k	km of sanitary sewer.	
Materials					-	
Equipment/Misc				The budget show	vn includes an allotment for de	ferred payment for work
Contingency				done in 2021,as	well as the above mentioned p	preparation work.
Total	\$ 350,000	\$ 350,000	\$ 350,000			
Costs Incurred to 2022 Year End						
Impact on Operating Budget	\$ 0	\$0	\$ 0			
Total Project Budget:	\$ 1,050,00	)0				
Schedule:						
Construction Start Date:	06/01/2022	2				
Substantial Completion or						
purchase date:	12/31/2022	2				
Funding Sources:						
Waste Water Rates	\$	1,050,000	)			
Please Select		\$ C	)			
Please Select		\$ C	)			
Please Select		\$ C	)		Attach/View Images	
Please Select		\$ 0				
Capital Reserve		\$ C	)			



#### Collection System Capital Reinvestment

#### 210.1

Justification for Matrix Values Score 0 - 5 Justification / Rationale for Rating How many people will be directly This would typically affect people in the project area which is usually People 5 impacted by the project? one block at a time. But the program is City-wide What is the risk to the health and Sewer bypasses from collapsed sewer have resulted Health and Safety safety of the public or Staff if the 5 project does not proceed? Is the project required for Ontario Water Resources Act Legislation 5 legislative/regulatory compliance? Is the project a high priority for This has been identified in the 10 year plan, as part of a multi-year Asset Management 3 replacement in the asset program management plan. If the project proceeds (or fails to Sewer backups consume considerable public sector and private sector proceed), what will be the impact on resources operational performance? Comment 4 **Operational Performance** on any impact on operating costs, staff time and maintenance. Can the cost of investment be No Financing leveraged or are there 1 partnership funds available? Does the project address needs Wet weather flows are now more frequent; this is a somewhat relevant Environment 3 impacted by climate change? factor for this project To what degree does the project N/A Socio-Economic Factors support diversity and inclusion 1 Initiatives? To what degree is the aesthetic None **Aesthetic Value** value of the asset improved? 1 N/A : Core Service Does the project help to meet a Strategic Plan 1 Key Result in the Strategic Plan? Has the project been identified None Public Input through public engagement? 1

Sydenham Crea	scent	SPS		210.2 Priority Score: 61.00			
Project Type:	Rehabilitat	ion		Priority Level: High			
Growth Related?:	No			Department: Public Works and Engineering			
Estimated Useful Life (years):	50			Staff Contact: Matt Prentice			
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:			
Studies				The Sydenham Crescent Sewage Pumping Station has a number of			
In House Engineering				issues which need to be addressed through considerable rehabilitation:			
Design or Engineering				(1) it is the only single-pump station in the City, with no backup pump.			
Communication / Signage				This increases the risk of by-passes when the pump fails (2) it is prone			
Construction / Contractor	\$ 300,000		\$ 200,000	to clogging due to recurring wipe and rag issues, which a grinder style			
Materials				pump would avoid and (3) the electrical, and control panel, have serious			
Equipment/Misc				issues that need to be addressed. The existing control panel is			
Contingency	<b>.</b>		<b>.</b>	back-mounted on a handmade lumber mount, which heeds replaced.			
	\$ 300,000	\$0	\$ 200,000	the wet well, which is supposed to be an explosion-proof location			
Costs Incurred to 2022 Year End							
Impact on Operating Budget	\$0	\$ 0	\$ 0	This project was tendered in 2021 but only one courtesy bid was received. It is to be re-tendered in 2022.			
Total Project Budget:	\$ 500,000			The attached photo shows the ideal pumping station configuration; it			
Schedule:				does not represent the existing station, which has only one pump and substandard electrical.			
Construction Start Date:	06/01/2022	2					
Substantial Completion or purchase date:	12/31/2022	2					
Funding Sources:							
Waste Water Rates		\$ 300,000	)				
Please Select		\$ C	)				
Please Select		\$ C	)				
Please Select		\$ C	)	Attach/View Images			
Please Select		\$ C	)				
Capital Reserve		\$ C	)				



#### Sydenham Crescent SPS

Justification for Matrix V	/alues Sco	re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	2	This would typically affect people in the project area
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	5	Sewer bypasses and backups from failed pumps
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	3	This has been identified in the 10 year plan, as part of a multi-year program
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	4	This station requires frequent callouts to pull the pump for maintenance; since there is only one pump, any issue must be addressed quickly and often on overtime.
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No
Environment	Does the project address needs impacted by climate change?	2	Wet weather flows are now more frequent; this is only a somewhat relevant factor for this project
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	1	None

Private Communal Sewer Services 230.4 Priority Score: 53.00								
Project Type:	Rehabilitat	ion		Priority Level: High				
Growth Related?:	No			Department: Public Works and Engineering				
Estimated Useful Life (years):	50			Staff Contact: Matt Prentice				
Cash Flow Projection:	2022	2023	2024+	Description and Rationale:				
Studies				In some cases in the City, due to inconsistent construction practices				
In House Engineering				primarily in the early to mid 20th century, sanitary sewer laterals from				
Design or Engineering				some private properties cross other private properties before connecting				
Communication / Signage				to the public sewer on public land.				
Construction / Contractor		\$ 40,000	\$ 40,000					
Materials				Often a number of homes are hooked up to one sewer which crosses				
Equipment/Misc				multiple properties.				
Contingency		<b>*</b> 40.000	<b>*</b> 40.000	In these seese, when a server issue grisse, it has may very difficult for				
l otal	\$ 0	\$ 40,000	\$ 40,000	The property owners because in many cases the property owner facing				
Costs Incurred to 2022 Year End				the problem is suffering the consequence of a pipe failure on another				
Impact on Operating Budget	\$ 0	\$ 0	\$0	case of limited resources on the part of the property owners.				
Total Project Budget:	\$ 80,000			This issue was identified and reported to committee in the past, and a				
Schedule:				brief capital program existed to address some of these locations but the program ceased due to other priorities.				
Construction Start Date	06/01/2022	2		It is proposed to begin this program again to address several locations				
Substantial Completion or	40/04/0000	<b>`</b>		of this nature which have recently been identified. Typically this just				
purchase date:	12/31/2022	2		involves constructing a new sewer connection to property line but there				
Funding Sources:				has been no prior formal program or mandate to assign costs.				
Waste Water Rates		\$ 360,000						
Please Select		\$ 0						
Please Select		\$ 0						
Please Select		\$ 0		Attach/View Images				
Please Select		\$ 0						
Capital Reserve		\$ 0						



#### Private Communal Sewer Services 230.4

Justification for Matrix V	alues Sco	re	0 - 5 Justification / Rationale for Rating
People	How many people will be directly impacted by the project?	2	This would typically affect people in the project area
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	5	Sewer backups on one or more properties are typically what alert the owner and City the underlying issues
Legislation	Is the project required for legislative/regulatory compliance?	5	Ontario Water Resources Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	3	This had been identified in the capital program in the past but ceased due to prioritization reasons
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	2	This does not have great impact on operational performance except for at that one location.
Financing	Can the cost of investment be leveraged or are there partnership funds available?	1	No
Environment	Does the project address needs impacted by climate change?	2	Wet weather flows are now more frequent; this is only a somewhat relevant factor for this project
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	N/A
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	None
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A : Core Service
Public Input	Has the project been identified through public engagement?	1	None

East Bayshore Road SPS Upgrade						100 0		D bich
						180.8	Priority Level:	B - nign
Project Type:	New	As	sset				Department:	Public Works and
Crowth Delated 2					Part	ial	Staff Contact:	Matt Pronetice
Growth Related?							-	
Cash Flow Projection:	Year 1		Year 2	Ye	ear 3+	Description and rationale:		
Studies	\$	-	\$-	\$	-	Upgrading of Goodyear Sewage	Pumping station to	support Northridge RCA
In House Engineering	\$ 7,0	000	\$-	\$	-	development, and replace two a	iged stations, one o	of which experiences bypassing on
Design or Engineering	\$ 60,0	000	\$-	\$	-	occasion. The existing pumping	station does not ha	ave adequate capacity to support
Communication/Signage	\$	-	\$-	\$	-	development. \$100,000 will be	used for upgrading	the Hydro requirments for the
Construction	\$ 1,893,0	000	\$-	\$	-	new pumping station.		
Materials	\$	-	\$ -	\$	-			
Equipment/Misc	\$	-	\$-	\$	-			
Internal Staff Time/Equipment	\$	-	\$-	\$	-			
Contingency	\$	-	\$ -	\$	-			
Total	\$ 1,960,0	000	\$ -	\$	-			
Total Project Budget:	\$		1,96	0,00	00.00	]		
Schedule:							- The second	
Design Start Date:	January 2	Lst 2	020					Reason and the second s
Construction Start Date:		A	pril 1st 202	20				
Substantial Completion or purchase								
date:	[	Dece	ember 30th	2020				
Current Year Funding Sou	irces:							A
Waste Water Rates						10 - Martin - Martin - Martin - Martin - Martin - Martin Martin		
Select from List								Marine Contraction
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Taxation						and the second s	*	