

City of Brockville

2018 Budget

November 7, 2017

PROPOSED 2018 CAPITAL PROJECTS



EMPLOYMENT LANDS

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3.1 - Employment Land Services

Project Description & Rationale

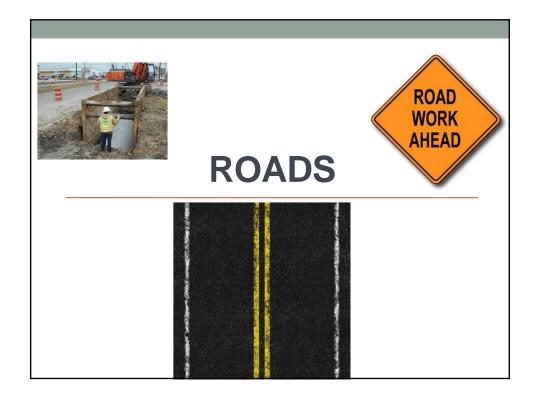
Project Description:

The proposed work for the construction of services at the West End Employment Lands site includes extending sanitary and storm sewers as well as watermains. The proposed work also includes improvements to the Laurier Boulevard and Stewart Boulevard intersection and the extension of Laurier Blvd westerly to the rear property line of Home Hardware.

Project Rationale:

There is currently no infrastructure that would entice any potential employers from constructing on this site. Implementing the proper infrastructure will be a significant step forward for the employment lands.

3.1 – Employment Land Services				
Pro	ject Budget			
	2018	2019	2020 onward	
Funding:				
Grants	\$900,000	\$0	\$0	
Total Funding	<u>\$900,000</u>	<u>\$0</u>	<u>\$0</u>	
Expenditures:				
Construction	\$900,000	<u>\$0</u>	<u>\$0</u>	
Total Expenditures	\$900,000	<u>\$0</u>	<u>\$0</u>	



6.2 - Garden St. Reconstruction

Project Description & Rationale

Project Description:

The proposed work includes the reconstruction of storm sewers, sanitary sewers, water mains and service laterals. The existing roadway will be reconstructed including granular material, asphalt pavement, concrete curb and gutter, concrete sidewalks and restoration work.

Project Rationale:

The underground infrastructure on Garden Street is quite old. The watermain on the street was constructed in the 1890's and the storm and sanitary sewers in the late 1920's. The 100mm diameter watermain is made of cast iron while the sanitary and storm sewers are constructed of vitrified clay. With infrastructure of this age and material, there are inherited health and safety problems. Older cast iron watermains are known to be susceptible to interior encrustation which leads to low chlorine residuals. As well, through daily operations, the interior encrustation becomes loose and released into the system. This causes high levels of suspended solids and undesirable water colour. Over the years the encrustation gradually increases to the point where the hydraulic capacity of the pipe is limited. The ability of the system to provide sufficient water for fire fighting is compromised putting the public at risk. The sanitary and storm sewers are to be replaced with new pipe and the road surface and base are to be constructed to current design standards.

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6.2- Garden St. Reconstruction

	Project Budge	et	
	<u>2018</u>	<u>2019</u>	2020 onward
Funding:			
Water Fund	\$45,000	\$0	\$0
Wastewater Fund	30,000	0	0
OCIF	135,116	0	0
Water & WW Reserve	130,000	0	0
Federal Gas Tax	49,884	<u>0</u>	<u>0</u>
Total Funding	<u>\$390,000</u>	<u>\$0</u>	<u>\$0</u>
Expenditures:			
Construction	\$308,500	\$0	\$0
Engineering (Design & Admin)	50,000	0	0
Contingency	30,000	0	0
Advertising	<u>1,500</u>	<u>0</u>	<u>0</u>
Total Expenditures	<u>\$390,000</u>	<u>\$0</u>	<u>\$0</u>

6.3 - Bying Avenue Reconstruction

Project Description & Rationale

Project Description:

The proposed work includes the reconstruction of storm sewers, sanitary sewers, water mains and service laterals. The existing roadway will be reconstructed including granular material, asphalt pavement, concrete curb and gutter, concrete sidewalks and restoration work.

Project Rationale:

The underground infrastructure on Byng Avenue is quite old. The watermain on the street was constructed in the 1920's and the storm and sanitary sewers in the mid 1950's. The 100mm diameter watermain is made of cast iron and has been decommissioned as it is pitted with holes, while the sanitary and storm sewers are constructed of vitrified clay. With infrastructure of this age and material, there are inherited health and safety problems. Older cast iron watermains are known to be susceptible to interior encrustation which leads to low chlorine residuals. As well, through daily operations, the interior encrustation becomes loose and released into the system. This causes high levels of suspended solids and undesirable water colour. Over the years the encrustation gradually increases to the point where the hydraulic capacity of the pipe is limited. The ability of the system to provide sufficient water for fire fighting is compromised putting the public at risk. The sanitary and storm sewers are to be replaced with new pipe and the road surface and base are to be constructed to current design standards.

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6.3- Bying Avenue Reconstruction

	Project Budg	et	
	<u>2018</u>	<u>2019</u>	2020 onward
Funding:			
Water Fund	\$80,000	\$0	\$0
Wastewater Fund	45,000	0	0
Water and WW Reserve	130,000		
OCIF	128,372	0	0
Federal Gas Tax	56,628	<u>0</u>	<u>0</u>
Total Funding	<u>\$440,000</u>	<u>\$0</u>	<u>\$0</u>
Expenditures:			
Construction	\$345,000	\$0	\$0
Engineering (Design & Admin)	60,000	0	0
Contingency	35,000	<u>0</u>	<u>0</u>
Total Expenditures	<u>\$440,000</u>	<u>\$0</u>	<u>\$0</u>

WASTEWATER PROJECTS





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8.3 – Pre-Engineering Services

Project Description & Rationale

Project Description:

This work would include geotechnical services if necessary, camera inspection or other work to be completed by a consultant used in determining the condition of the infrastructure for projects proposed to be included in the capital budget.

Project Rationale:

A camera inspection would confirm the existing condition of the City's sewers and determined whether or not the sewers need replacing. This would provide staff with the necessary information to complete the detail design, tender documents and obtain the necessary approvals in advance of a project so that projects could proceed immediately upon approval of the Capital Budget. This would allow the City to take advantage of low tender prices traditionally received on projects tendered early in the calendar year, schedule projects throughout the year and distribute staff work assignment accordingly.

8.3 – Pre-Engineering Services

Pr	oject Budge	t	
	<u>2018</u>	<u>2019</u>	<u>2020</u> <u>onward</u>
Funding:			
Wastewater Fund	\$10,000	<u>\$15,000</u>	<u>\$125,000</u>
Total Funding	<u>\$10,000</u>	<u>\$15,000</u>	<u>\$125,000</u>
Expenditures:			
Engineering (Design & Admin)	<u>\$10,000</u>	<u>\$15,000</u>	<u>\$125,000</u>
Total Expenditures	<u>\$10,000</u>	<u>\$15,000</u>	<u>\$125,000</u>

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8.4 – Water/Wastewater Meter Replacement – Phase 7 of 7

Project Description & Rationale

Project Description:

To replace all water meters in the City of Brockville to radio transmitter technology so that the meters may be read by drive-by technology.

Project Rationale:

Work on this project began in 2013, and to date 7,048 meters have been changed out of the 8,500 meters in the City.

When this project is completed, efficiencies will have been created within the meter reading department. Through a recommendation from the Internal Service Delivery Review, Council approved reducing the meter reading staff by one, from three meter readers to two. The efficiencies created by the new meters will allow the current two meter readers to perform service related tasks more timely.

8.4 – Water/Wastewater Meter Replacement

	Project Budget			
	<u>2018</u>	<u>2019</u>	<u>2020 onward</u>	
Funding:				
Water Fund	\$162,500	\$0	\$0	
Wastewater Fund	162,500	<u>0</u>	<u>0</u>	
Total Funding	<u>\$325,000</u>	<u>\$0</u>	<u>\$0</u>	
Expenditures:				
Contracted Services	\$325,000	<u>\$0</u>	<u>\$0</u>	
Total Expenditures	<u>\$325,000</u>	<u>\$0</u>	<u>\$0</u>	

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8.5 - WPCC Equipment Program

Project Description & Rationale

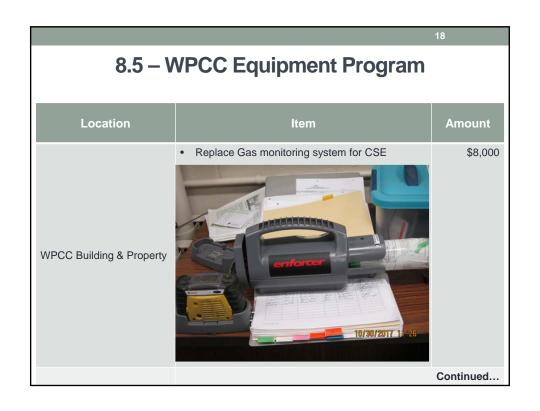
Project Description:

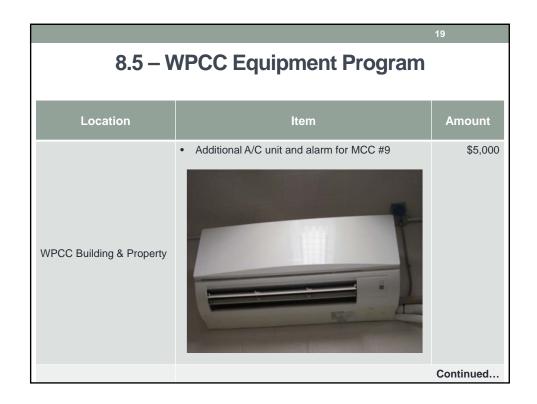
Replacement of Capital Equipment for the Water Pollution Control Centre and associated structures and pumping stations. This is to be accomplished from the Wastewater Fund.

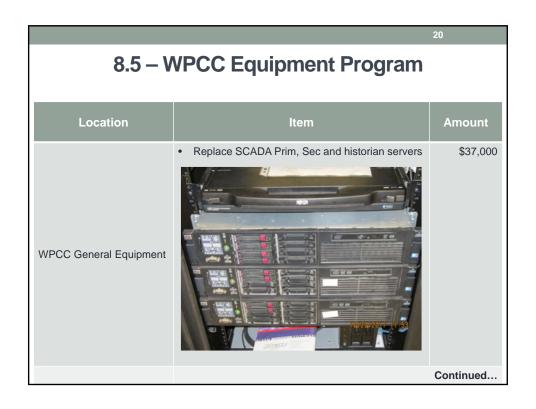
Project Rationale:

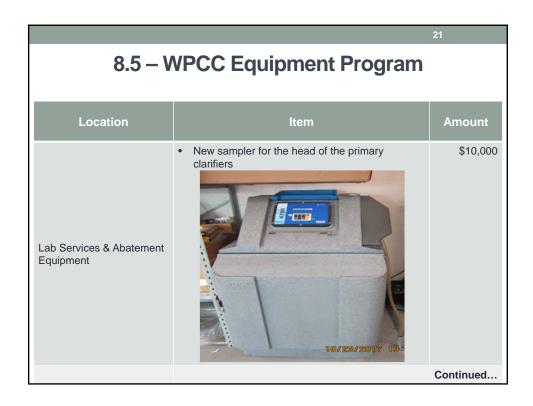
Routing such purchases through the Wastewater Fund provides the opportunity to account for all capital costs associated with the Water Pollution Control Centre in one place and to finance such work through the Wastewater Use Rate User Fee. As well it allows the expenditure to take place while keeping the tax rate smooth.

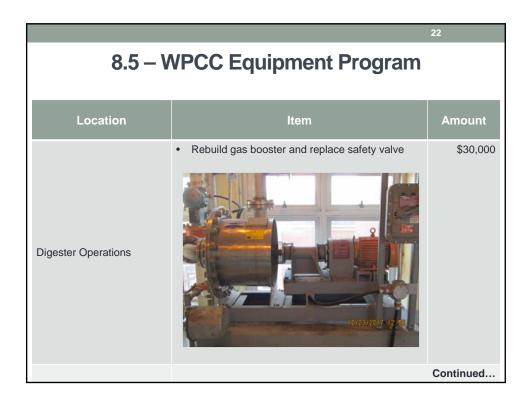
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8.5 – WPCC Equipment Program			
	Project Budo	get	
	<u>2018</u>	<u>2019</u>	2020 onward
Funding:			
Wastewater Fund	<u>\$376,500</u>	\$373,500	\$3,466,000
Total Funding	<u>\$376,500</u>	<u>\$373,500</u>	<u>\$3,466,000</u>
Expenditures:			
Equipment	<u>\$376,500</u>	\$373,500	\$3,466,000
Total Expenditures	<u>\$376,500</u>	<u>\$373,500</u>	<u>\$3,466,000</u>

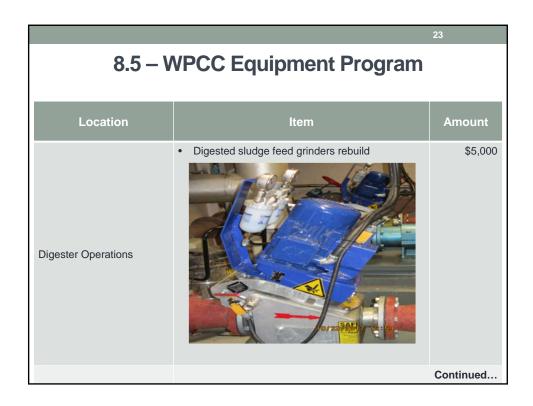






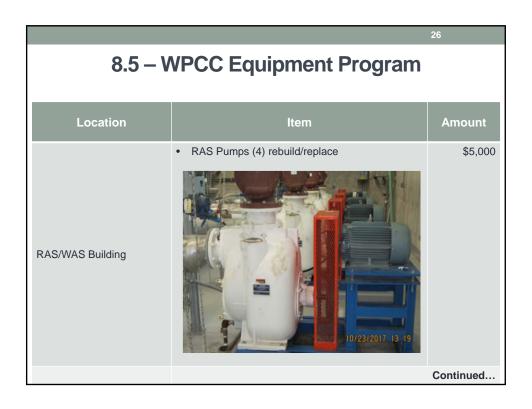


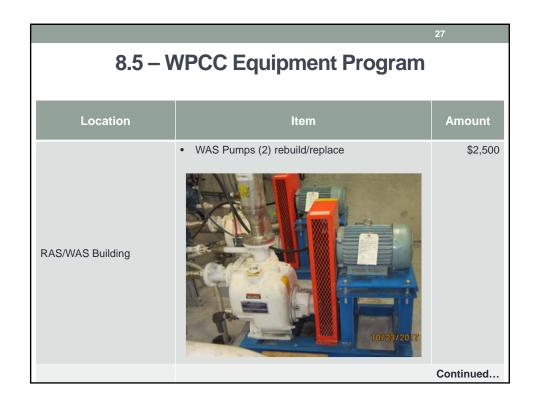




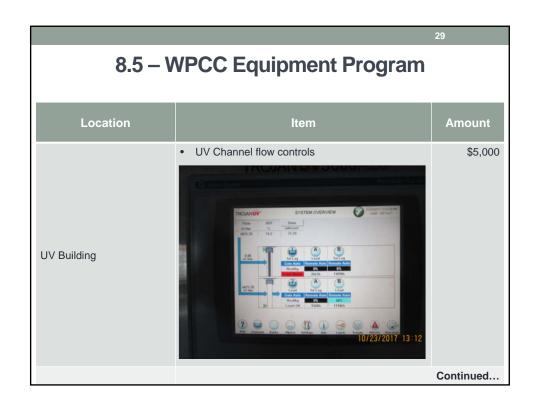


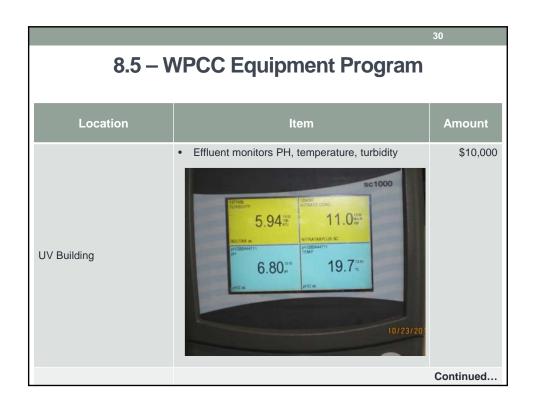


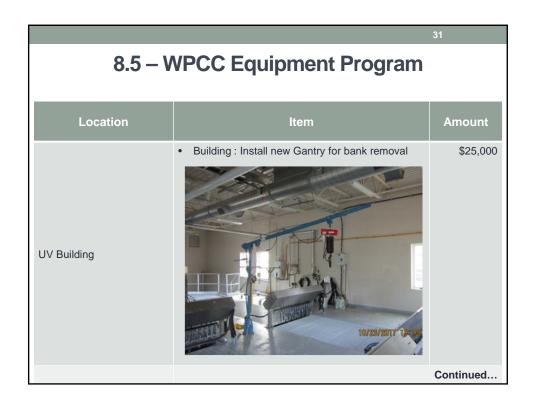


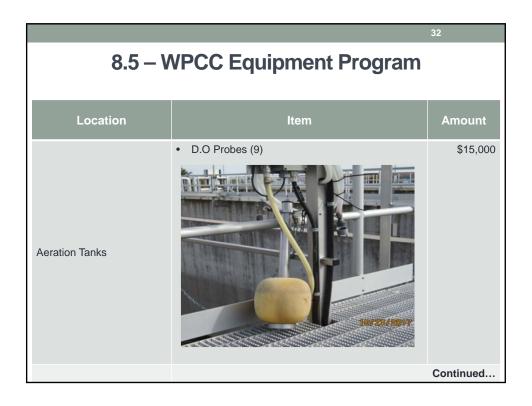


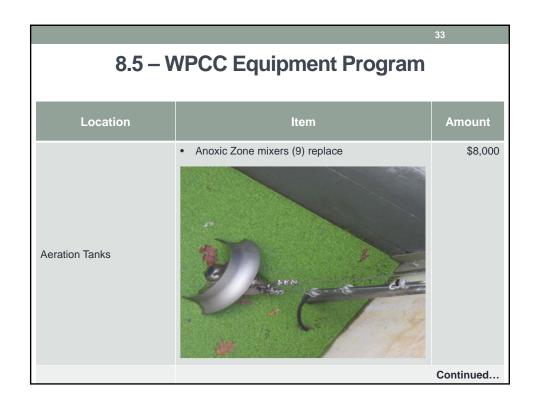




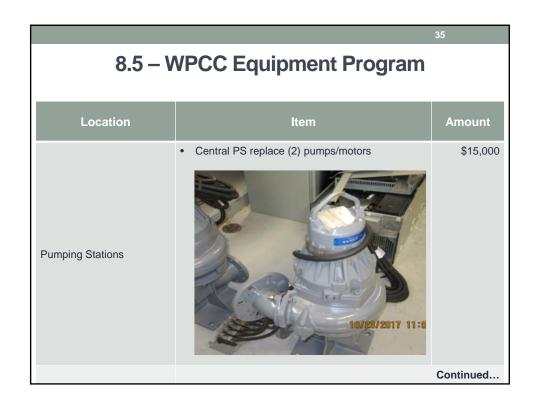


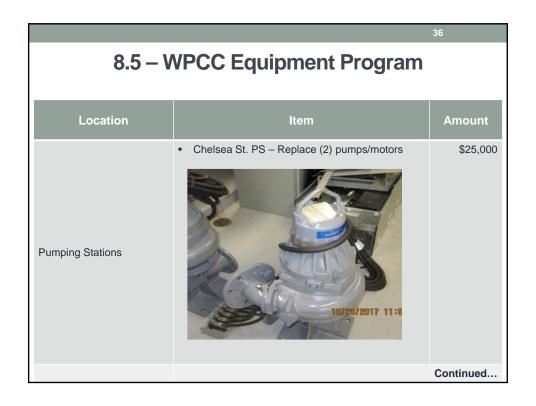


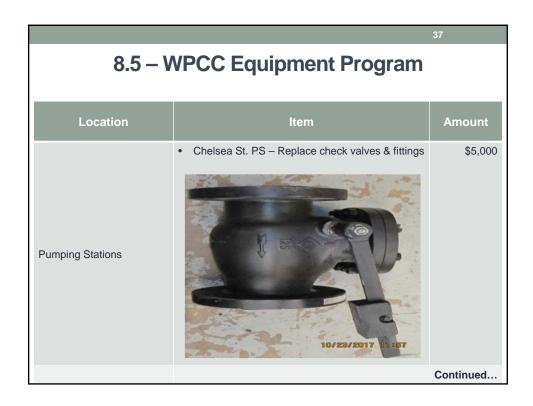


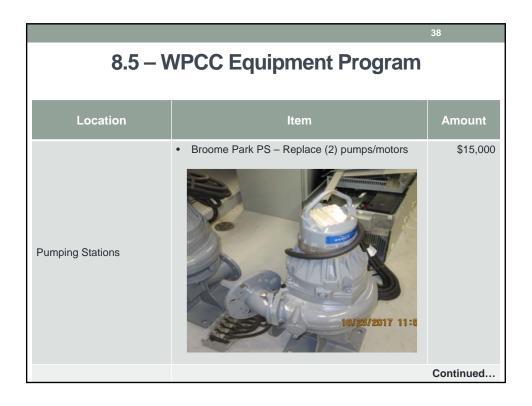


















42	VPCC Equipment Program	8.5 – V
Amount	ltem	Location
\$15,000		Contingency
<u>\$376,500</u>	Total	

WATER PROJECTS



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9.3 - Water Distribution projects

Project Description & Rationale

Project Description:

Provides for the capital needs for the local water distribution system. Funding is provided through water revenues.

Project Rationale:

Allows for coordinated planning of the capital requirements needed to meet the needs of the Water Distribution System through the Water Fund. This also ensures that all costs are being captured and financed through the water rates.

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9.3 – Water	Distributi	on project	S
P	roject Budge	2 †	
	<u>2018</u>	<u>2019</u>	<u>2020 onward</u>
Funding:			
Water Fund	\$425,000	\$455,000	\$3,910,000
Total Funding	<u>\$425,000</u>	<u>\$455,000</u>	<u>\$3,910,000</u>
Expenditures:			
Contracted Services	<u>\$425,000</u>	<u>\$455,000</u>	\$3,910,000
Total Expenditures	<u>\$425,000</u>	<u>\$455,000</u>	<u>\$3,910,000</u>

P.3 – Water Distribution projects Location Amount Hydrant Replacement \$30,000 First Ave. (Valving) 80,000		46
Hydrant Replacement \$30,000 First Ave. (Valving) 80,000	9.3 – Water Distribution projec	cts
First Ave. (Valving) 80,000	Location	Amount
	Hydrant Replacement	\$30,000
045,000	First Ave. (Valving)	80,000
Front Ave. – Perth St. to Convey 315,000	Front Ave. – Perth St. to Convey	315,000
Total <u>\$425,000</u>	Tota	<u>\$425,000</u>

9.4 - Water Equipment

Project Description & Rationale

Project Description:

Provides for the capital needs of the Water Treatment Plant, Trunk Distribution System and Booster Stations. Funding is provided through water revenues.

Project Rationale:

Allows for coordinated planning of the capital requirements required to meet the needs of the Water Treatment system through the Water Fund. This also ensures that all costs are being captured and financed through the water rates.

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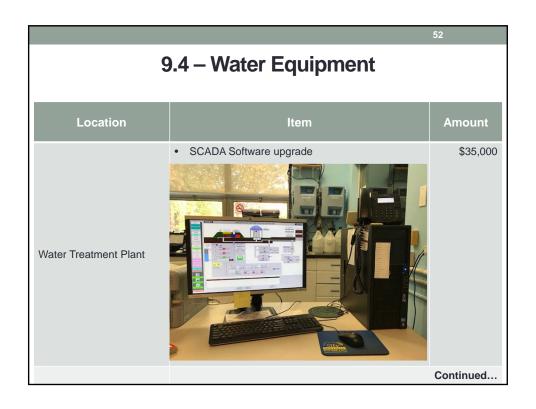
9.4 - Water Equipment

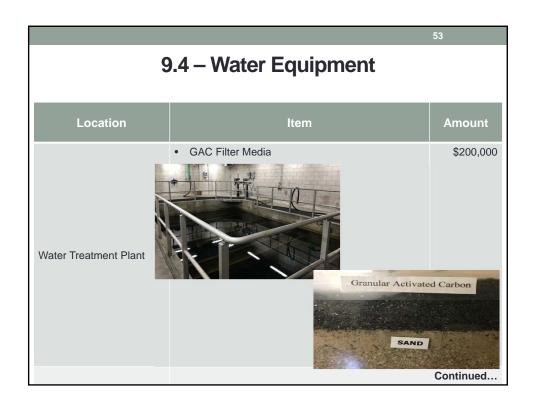
P	roject Budge	et	
	<u>2018</u>	2019	2020 onward
Funding:			
Water Fund	<u>\$624,000</u>	\$398,320	\$8,005,400
Total Funding	<u>\$624,000</u>	<u>\$398,320</u>	<u>\$8,005,400</u>
Expenditures:			
Contracted Services	<u>\$624,000</u>	\$398,320	\$8,005,400
Total Expenditures	<u>\$624,000</u>	<u>\$398,320</u>	<u>\$8,005,400</u>



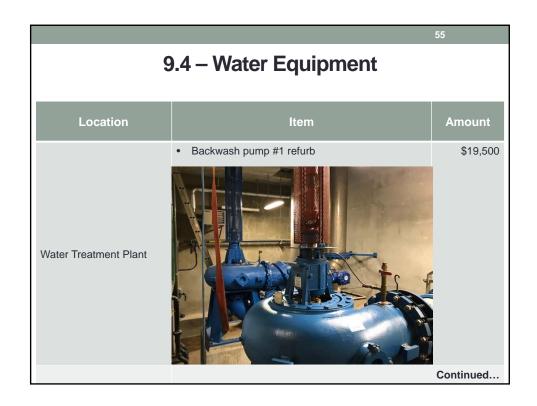






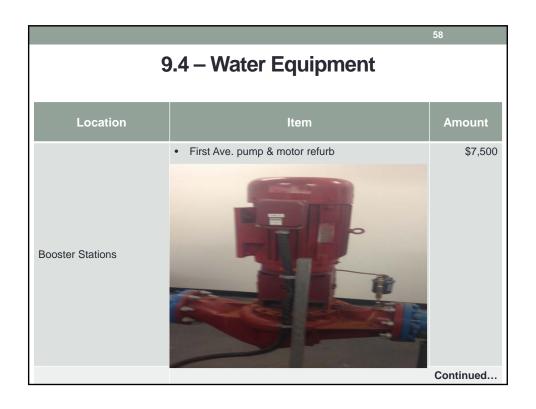


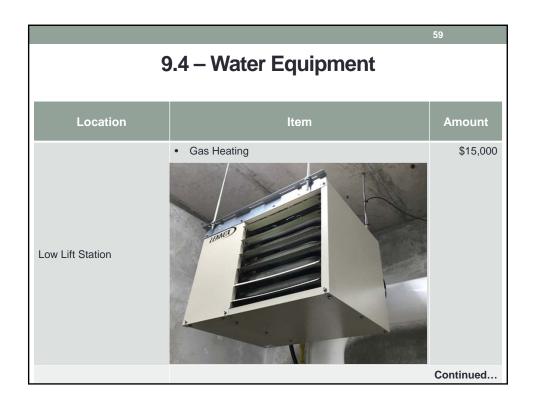


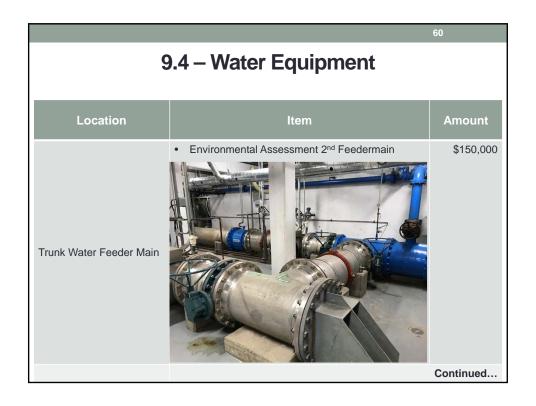












	9.4 – Water Equipment	1
Location	Item	Amount
Contingency		\$24,000
	Total	<u>\$624,000</u>

	10.4 - Minor Capital Projects	
Department / Board	Description	Amount
Env. Services - Solid Waste	Compost site pad rehabilitation (clean up, grade and level with new stone)	15,000