

**TOWN OF COBOURG
CAPITAL BUDGET 2018 - 2020**

5 YEAR CAPITAL BUDGET JUSTIFICATION

ACCOUNT # 174001 2/3/4

DIVISION: Public Works	3. PROJECT DETAIL & JUSTIFICATION: SCADA will provide automation to the sewage treatment process. It will monitor / control the entire treatment process and store all information electronically. Installation of a SCADA system at Plant #1 will permit facilities (ie Plant #1 & #2) to be operated, remotely, from either location, via fiber optic computer link allowing emergency situations to be handled more efficiently with fewer staff. Public Consultation Process No		
DEPARTMENT: Environmental Services			
1. PROJECT NAME & DESCRIPTION SCADA - Plant #1			
2. COMMITMENTS MADE:	4. EFFECTS ON FUTURE OPERATING BUDGETS:		
	2018	2019	2020
5. EXPENDITURES CONTRACTUAL CAPS BASED ON \$ DIRECT REVENUES GRANTS & SUBSIDIES OTHER	300,000		
6. NET REQUIREMENTS:	300,000	0	0
TO BE FINANCED FROM: DEBENTURES OWNERS RESERVES - Sewer OTHER	-300,000		
7. ANNUAL TAX REQUIREMENT	0	0	0

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5 YEAR CAPITAL BUDGET JUSTIFICATION

ACCOUNT # 174002 2/3/4

DIVISION: Public Works	3. PROJECT DETAIL & JUSTIFICATION: The 2017 Capital Budget included \$50,000 for a new pump however due to high inflows at Plant #2 the existing pumps were not able to be taken offline for long enough for replacement. Instead of replacing one of the existing pumps, a third pump will be purchased as a backup to the existing pumps (Plant #2 has two spare expansion slots) so that maintenance can be conducted regularly and to help keep up with high flows. In 2019/2020, the existing pump components will be upgraded. Public Consultation Process No		
DEPARTMENT: Environmental Services			
1. PROJECT NAME & DESCRIPTION Raw Sewage Pump - Plant #2			
2. COMMITMENTS MADE:	4. EFFECTS ON FUTURE OPERATING BUDGETS:		
	2018	2019	2020
5. EXPENDITURES CONTRACTUAL CAPS BASED ON \$ DIRECT REVENUES GRANTS & SUBSIDIES OTHER	300,000	50,000	50,000
6. NET REQUIREMENTS:	300,000	50,000	50,000
TO BE FINANCED FROM: DEBENTURES OWNERS RESERVES - Sewer OTHER	-300,000	-50,000	-50,000
7. ANNUAL TAX REQUIREMENT	0	0	0

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5 YEAR CAPITAL BUDGET JUSTIFICATION

ACCOUNT # 1740033

DIVISION: Public Works	3. PROJECT DETAIL & JUSTIFICATION: This item was approved for 2017 but was not able to be completed due to lack of parts. The Clarifier mechanism was installed in 1984 (33 years old) and parts are becoming difficult to find. If an OEM part cannot be located, the gearbox will need to be reverse engineered by a metal fabricator.		
DEPARTMENT: Environmental Services			
1. PROJECT NAME & DESCRIPTION Clarifier Gearbox - Plant #2	Public Consultation Process No		
2. COMMITMENTS MADE:	4. EFFECTS ON FUTURE OPERATING BUDGETS:		
	2018	2019	2020
5. EXPENDITURES CONTRACTUAL CAPS BASED ON \$ DIRECT REVENUES GRANTS & SUBSIDIES OTHER	50,000		
6. NET REQUIREMENTS:	50,000	0	0
TO BE FINANCED FROM: DEBENTURES OWNERS RESERVES - Sewer OTHER	-50,000		
7. ANNUAL TAX REQUIREMENT	0	0	0

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ACCOUNT # 1740043

DIVISION: Public Works	3. PROJECT DETAIL & JUSTIFICATION: The design of the Tertiary Filter at Plant #1 is such that, the sludge vacuumed from the filter disks, is pumped back to the Aeration Tanks. Removing sludge in this manner does not remove the sludge, but rather, recirculates back into the filter. The proper method is to pump the sludge and debris back to the headworks building where the fine screen and grit vortex will completely remove it from the process. Public Consultation Process No		
DEPARTMENT: Environmental Services			
1. PROJECT NAME & DESCRIPTION Sanitary Sewer Line from Tertiary Filter to New Headworks			
2. COMMITMENTS MADE:	4. EFFECTS ON FUTURE OPERATING BUDGETS:		
	2018	2019	2020
5. EXPENDITURES CONTRACTUAL CAPS BASED ON \$ DIRECT REVENUES GRANTS & SUBSIDIES OTHER	75,000		
6. NET REQUIREMENTS:	75,000	0	0
TO BE FINANCED FROM: DEBENTURES OWNERS RESERVES - Sewer OTHER	-75,000		
7. ANNUAL TAX REQUIREMENT	0	0	0

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5 YEAR CAPITAL BUDGET JUSTIFICATION

ACCOUNT # 1740053

DIVISION: Public Works	3. PROJECT DETAIL & JUSTIFICATION: The Brook Road Pump Station piping is badly corroded and needs to be replaced. The pipes are 33 years old. The C.N. Watson Full Cost Recovery Report recommended replacement of pipes in 2014, but was deferred. The corrosion on these pipes is now severe and it is highly unlikely that they will last another year without failing. Public Consultation Process No		
DEPARTMENT: Environmental Services			
1. PROJECT NAME & DESCRIPTION Brook Road Pump Station Piping			
2. COMMITMENTS MADE:	4. EFFECTS ON FUTURE OPERATING BUDGETS:		
	2018	2019	2020
5. EXPENDITURES CONTRACTUAL CAPS BASED ON \$ DIRECT REVENUES GRANTS & SUBSIDIES OTHER	50,000		
6. NET REQUIREMENTS:	50,000	0	0
TO BE FINANCED FROM: DEBENTURES OWNERS RESERVES - Sewer OTHER	-50,000		
7. ANNUAL TAX REQUIREMENT	0	0	0

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ACCOUNT # 1740063

DIVISION: Public Works	3. PROJECT DETAIL & JUSTIFICATION:		
DEPARTMENT: Environmental Services	Over 100 manholes in the Town reside within the flood plain of the three local creeks. The current manhole covers are metal, with 2 holes in them to allow removal using a pick. During periods of heavy rain and / or melting snow, these creeks overflow their banks and pour thousands of cubic meters of water into the sanitary sewer. Replacing the old style manhole covers with water-tight equivalents, will significantly reduce the infiltration into the Town's sewer system. Due to the large number of manhole covers needing to be replaced, \$50,000/year will be allotted annually until all are replaced.		
1. PROJECT NAME & DESCRIPTION	Public Consultation Process No		
Water-Tight Manhole Covers			
2. COMMITMENTS MADE:	4. EFFECTS ON FUTURE OPERATING BUDGETS:		
	2018	2019	2020
5. EXPENDITURES			
CONTRACTUAL	50,000	50,000	50,000
CAPS BASED ON \$			
DIRECT REVENUES			
GRANTS & SUBSIDIES			
OTHER			
6. NET REQUIREMENTS:	50,000	50,000	50,000
TO BE FINANCED FROM:			
DEBENTURES			
OWNERS			
RESERVES - Sewer	-50,000	-50,000	-50,000
OTHER			
7. ANNUAL TAX REQUIREMENT	0	0	0

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ACCOUNT #

DIVISION: Public Works	3. PROJECT DETAIL & JUSTIFICATION: The SBR at Plant #2 runs 24/7, 365 days/yr, pre-treating septic waste/landfill leachate. The constant delivery of liquid waste makes it impossible to take the SBR out of service for routine maintenance. A second SBR will allow preventative maintenance to be carried out without an interruption of the pre-treatment process. The SBR generates in excess of \$500,000 annually, through processing fees. This revenue stream is currently restricted by the SBR's capacity limitations. The Town will require a commitment from the County that leachate will continue to be hauled to Plant #2 for a pre-determined number of years. Public Consultation Process No		
DEPARTMENT: Environmental Services			
1. PROJECT NAME & DESCRIPTION Sequence Batch Reactor - Plant #2			
2. COMMITMENTS MADE:	4. EFFECTS ON FUTURE OPERATING BUDGETS:		
	2018	2019	2020
5. EXPENDITURES CONTRACTUAL CAPS BASED ON \$ DIRECT REVENUES GRANTS & SUBSIDIES OTHER	100,000	100,000	1,800,000
6. NET REQUIREMENTS: TO BE FINANCED FROM: DEBENTURES OWNERS RESERVES - Sewer OTHER	100,000	100,000	1,800,000
	-100,000	-100,000	
7. ANNUAL TAX REQUIREMENT	0	0	1,800,000

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ACCOUNT #

DIVISION: Public Works	3. PROJECT DETAIL & JUSTIFICATION: Tying in all Pumping Stations to the SCADA system will allow computer control of the entire Sanitary Collection and Treatment systems within the Town. During emergency situations, a single operator would be able to correct problems at either Treatment Plant and any Pump Station, by inputting commands into a computer at whichever facility he is currently located.		
DEPARTMENT: Environmental Services			
1. PROJECT NAME & DESCRIPTION SCADA Installation Pumping Station	Public Consultation Process No		
2. COMMITMENTS MADE:	4. EFFECTS ON FUTURE OPERATING BUDGETS:		
	2018	2019	2020
5. EXPENDITURES CONTRACTUAL CAPS BASED ON \$ DIRECT REVENUES GRANTS & SUBSIDIES OTHER		75,000	
6. NET REQUIREMENTS:	0	75,000	0
TO BE FINANCED FROM: DEBENTURES OWNERS RESERVES - Sewer OTHER		-75,000	
7. ANNUAL TAX REQUIREMENT	0	0	0

**TOWN OF COBOURG
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5 YEAR CAPITAL BUDGET JUSTIFICATION

ACCOUNT # 174007 2/3/4

DIVISION: Public Works	3. PROJECT DETAIL & JUSTIFICATION: Ozone destroys pathogens 300 times faster than chlorine and leaves no harmful chemical residues afterward. Eliminating chlorine as a disinfectant will provide more efficient disinfection with zero risk to the aquatic environment. Ozone has already been introduced as a pilot project at Plant #1. Upon successful completion of the pilot project and when the system is fully functional and reliable, implementation at Plant #2 should be considered.		
DEPARTMENT: Environmental Services			
1. PROJECT NAME & DESCRIPTION Ozone Disinfection - Plant #2	Public Consultation Process No		
2. COMMITMENTS MADE:	4. EFFECTS ON FUTURE OPERATING BUDGETS:		
	2018	2019	2020
5. EXPENDITURES CONTRACTUAL CAPS BASED ON \$ DIRECT REVENUES GRANTS & SUBSIDIES - CWWF OTHER			750,000
6. NET REQUIREMENTS:	0	0	750,000
TO BE FINANCED FROM: DEBENTURES OWNERS RESERVES - Sewer OTHER			-750,000
7. ANNUAL TAX REQUIREMENT	0	0	0