

JOINT BOARD OF MANAGEMENT

Wednesday, January 16, 2019
9:00 AM
Kingsville Community Room
Kingsville Arena
1741 Jasperson Road, Kingsville

AGENDA

- A. Call to Order:
- B. Election of Chair for the UWSS Joint Board of Management

UW/01/19 - 2019 Election of the UWSS Joint Board of Management Chair and Vice Chair dated January 9, 2019
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- C. Election of Vice-Chair for the UWSS Joint Board of Management
- D. Disclosures of Pecuniary Interest:
- E. Approval of Minutes:

Minutes of the meeting of the Union Water Supply System Joint Board of Management Meeting held Wednesday, November 21, 2018 Pages 7 - 12

- F. Business Arising Out of the Minutes
- G. Items for Consideration:
 - UW/02/19 dated January 11, 2019 re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to January 11, 2019 Pages 13 - 15
 - UW/03/19 dated January 9, 2019 re: Draft 2019 UWSS Operations & Capital Budget Report Pages 16 - 40
 - UW/04/19 dated January 11, 2019 re: CO2 pH Adjustment/Chlorine Improvements Project Tender Result Pages 41 - 46
 - UW/05/19 dated January 11, 2019 re: Payments from November 16, 2018 to January 11, 2019 Pages 47 - 59

- H. New Business:
- I. Adjournment:
- J. Date of Next Meeting: Wednesday, February 20, 2019, 9:00 am, Kingsville Community Room, 1741 Jasperson Road, Kingsville Arena

/kmj

UW/01/19

TO: CHAIR AND MEMBERS OF THE UNION WATER

SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT

FROM: RODNEY BOUCHARD, UNION WATER MANAGER

DATE: JANUARY 9, 2019

RE: PROCEDURE FOR THE ELECTION OF THE UWSS CHAIR AND VICE

CHAIR

AIM:

To inform the Board of the procedure for the election of a Chair and Vice-Chair of the Board for a term ending on December 31, 2019.

BACKGROUND

The Transfer Order which established the Joint Board of Management of the Union Water Supply System sets out certain rules for the Board. The following are among the items specified in the Transfer Order regarding the Chair and Vice-Chair:

- That the Board members are appointed by the municipalities for a term of one year.
- That there is to be a Chair and Vice-Chair elected from amongst the members of the Board.
- That the Chair and Vice-Chair must be from different municipalities.
- That the Chair and Vice-Chair are elected for a term of one year.

DISCUSSION:

Functions of a Chair and Vice-Chair

The Chair and Vice-Chair are positions that are prescribed in the UWSS Transfer Order. The Chair is responsible for the following duties under the Transfer Order:

- 1. Chairing of meetings of the Joint Board of Management.
- 2. Calling meetings of the Joint Board of Management.
- 3. Executing agreements and conveyances entered into by the Joint Board of Management. The Chair co-signs with another member of the Board.

The Vice-Chair is designated under the Transfer Order to act as Chair in the absence of the Chair.

In addition to the functions that are set out in the Transfer Order, the Chair and Vice-Chair undertake the following tasks which have been determined by the Board over the 10 years of its existence.

- The Chair and Vice-Chair have signing authority on the UWSS bank accounts along with the UWSS Manager and the Learnington Director of Finance. Account transfers require two signatures, one of the Chair or Vice-Chair and one of the Manager or the Finance Director.
- 2. The Chair and Vice-Chair meet once a month with the Manager to review the proposed agenda for the next Board meeting.
- 3. The Chair and Vice-Chair conduct an annual performance appraisal of the Manager.

Under the Transfer Order the Chair and Vice-Chair are elected for a one (1) year term and must be from different municipalities. These requirements are intended to ensure that the Board acts in the overall system's interest and in the interest of all of the municipal owners. In some of the other Joint Boards of Management set up under the same legislation, the position of Chair is required to rotate annually or biannually among the municipal owners.

This memorandum is intended to allow the Board members to prepare for the election. Any questions regarding the procedure should be given to the Manager before the meeting if possible.

Election Procedure

The established procedure for the election of the Chair and Vice-Chair of the Joint Board of Management should be as follows:

The Manager will chair the meeting until the election of the new Chair.

The Manager will call the meeting to order.

The first order of business is the election of the Chair.

The Transfer Order under section 1 (g) says that the Chair and Vice-Chair may not be from the same municipality. This means that the election of the Chair must be completed before the Board can determine which members are eligible to be elected as Vice-Chair.

The Manager will ask for nominations from the Board for the position of Chair. Nominees must have a proposer and a seconder (neither of which can be the nominee) and the

nominee will be asked if they are willing to accept the nomination. The list of candidates will be made up of those nominees who accept their nomination.

If there is only one (1) successful nomination, that candidate will be acclaimed as Chair.

If there are two (2) or more nominations, there will be an election. The Manager will state the names of the nominees in alphabetical order by surname. After each name is announced there will be a show of hands by those wishing to vote for that candidate. Board members shall only vote for one candidate. Candidates can vote for themselves.

The Administrative Assistant will record the number of votes for each candidate. The nominee with the most votes will be declared to be the Chair for the year to December 31, 2019.

If there is a tie for the most votes cast, the name of each nominee who is tied will be written on a slip of paper by the Manager and the slips will be placed in a hat or box. The Administrative Assistant will draw one slip and the name on that slip will be declared as the new Chair.

The Manager will ask for a motion confirming the appointment of the successful candidate as Chair.

The new Chair will then take charge of the meeting.

The Chair will then proceed with the election of the Vice-Chair. If the Chair is from a municipality with more than one member on the Board, no Board member from that municipality is eligible to serve as Vice-Chair.

The Chair will ask for nominations from the Board for the post of Vice-Chair. Again, nominees must have a proposer and a seconder and the nominee will be asked if they are willing to accept the nomination. The list of candidates will be made up of those nominees who accept their nomination.

If there is only one (1) nomination, that candidate will be acclaimed as Vice-Chair.

If there are two (2) or more nominations, there will be an election by show of hands. The Chair will say the names of the nominees in alphabetical order by surname. After each name is announced there will be a show of hands by those wishing to cast a vote for that candidate. Board members shall only vote for one candidate. Candidates are allowed to vote for themselves.

The Administrative Assistant will record the number of votes for each candidate. The candidate with the most votes will be declared to be the new Vice-Chair.

If there is a tie for the most votes cast, the name of each candidate who is tied will be written on a slip of paper by the Manager and the slips will be placed in a hat. The

Administrative Assistant will draw one slip and the name on that slip will be declared as the new Vice-Chair.

The Chair will ask for a motion confirming the appointment of the successful candidate as Vice-Chair.

Immediately after the election of the Vice-Chair, the meeting will proceed with the rest of the business on the Agenda.

Respectfully submitted,

Rodney Bouchard, General Manager

Union Water Supply System Joint Board of Management

rb/kmj

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JOINT BOARD OF MANAGEMENT

Wednesday, November 21, 2018
9:00 AM
Kingsville Community Room
Kingsville Arena
1741 Jasperson Road, Kingsville

MINUTES

Members Present: Deputy Mayor MacDonald (Chair); Mayor Paterson, Councillors

Hammond, Jacobs, Verbeke - Leamington

Mayor Nelson Santos (Vice-Chair); Deputy Mayor Queen,

Councillors Gaffan, Neufeld, Patterson - Kingsville

Mayor McDermott - Essex

Members Absent: Councillor Dunn - Leamington

Councillor Diemer - Lakeshore

Staff Present: Andy Graf - Essex

Andrew Plancke - Kingsville Shannon Belleau - Leamington

OCWA Staff Robin Kind, Terry Bender, Susan Budden, Dave Jubenville

Present: Dale Dillen, Ken Penney

Call to Order: 9:01 am

Disclosures of Pecuniary Interest: none

Adoption of Council Minutes:

No. UW-47-18

Moved by: Councillor Verbeke

Seconded by: Councillor Gaffan

That Minutes of the UWSS Joint Board of Management meeting of September 27, 2018 be received.

Carried

Business Arising Out of the Minutes:

There was none.

Report UW/24/18 dated November 16, 2018 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to November 16, 2018

The Manager notes that there has been a two (2) month window since the last meeting and therefore a lot of projects have been moving along since that time.

An arc flash occurred on August 28th in the electrical MCC for the Low Lift pump #3. Inspection of the pump noted that most of the components require repairs. Phasor Electric has been hired to develop a repair plan. OCWA staff is hoping to have back in service by early December.

The Manager informs the board that the operations staff have switched back to DelPAC coagulant as the colder weather has arrived and this type works better with cold water. The switch took place on October 21st.

The Manager reminds members of the board about the leak in Meter Chamber #2 on Road 2 and Union Avenue. Upon further inspection the leak was occurring at a service connection and air relief valve. The work was lead by the Town of Kingsville and all repairs have been made. The Manager expressed his appreciation to the town staff for taking the lead on this repair.

The residual pile, located on the WTP property, has been reduced this year further by DiMenna Excavating. DiMenna was able to remove almost 2000 tons, which was then taken to the EWSWA landfill, to be used as day cover. This project came in well under budget. The Manager anticipates that within the next two (2) years most of the pile will have been removed. He feels that the MOE Inspector will be pleased as this item was flagged each year during inspection.

Low Lift pump #2 soft start failed and required a new soft start. This work was completed November 9th. Cathodic inspections recently took place on the water towers.

Continental Carbon Group (CCG) has been retained to complete the filter media replacement for filters #6 and #8. Once this work has been completed all eight (8) filters will have fresh media. The media replacement is scheduled to be completed prior to the end of 2018.

Stantec Consulting has been retained to assist with project management for the Cottam Booster Station (CBS) reservoir soil cover regrading. The budget for this project was approved in the summer of 2018. Various tenders came back with some high and the low bid was Rudak Excavating Inc., of South Woodslee, for \$37,653. This work is scheduled to be completed prior to the end of 2018. There was a brief discussion at this point over the large gap between the high and low tenders received. The Manager noted that Stantec was very confident with the company chosen and the Manager is putting his faith in this information. He further notes that the budget is \$100,000 so if there are any slight changes to be made the funds are there to cover it, however, he doesn't anticipate anything major.

The Manager notes that as part of the ongoing Drinking Water Quality Management System (DWQMS) that UWSS and OCWA staff have attended the management review meeting. There were no outstanding action items to be addressed. As part of the management review the manager notes there was a discussion regarding the number of complaints received this year about water taste and odour. July and August complaints were consisting of complaints of "dirt" tasting water. The Manager explains that the summer was very hot, dry and stagnant, which translated to the water. Since the end of October complaints have consisted of high chlorine smell/taste. The Manager further explains that several things have been occurring at the same time. The switch to winter coagulant, lake inversion, reduced flows and reduction of carbon (taste control additive). Therefore, all of these items could factor in the taste/odour complaints. He feels that once the changes make their way through the system the complaints should subside. He also notes that this is why the UWSS is doing a full year of free chlorine to analyze whether free chlorine is best for the entire system. He further notes extra sampling is occurring and a map of all complaints has been generated, however, there are no clusters of complaints that are of concern. All testing has come back within standards.

The Manager updates members on the CO2 pH Adjustment project. He explains that following this meeting there is a mandatory pre-bid meeting taking place at the WTP. Tender closes December 7th.

Councillor Jacobs left at 9:13 and returns at 9:14.

The SCADA consultant has completed all drawings and it is anticipated that a workshop will take place December 11th to review the proposed design and then tendering should take place in January, with construction anticipated to commence in March of 2019.

The Manager reminds members that the updated Financial Plan should be completed by Watson & Associates in December. This is necessary so that UWSS/OCWA can apply for a new Municipal Drinking Water Licence (MDWL), which is due mid-January. The Manager states that UWSS and OCWA will be working together to complete this task.

The Manager explains that flows are up this year, which has helped the budget. More information on the budget will be coming during the January meeting and the following report.

The Board then asks the Manager for further explanation regarding the number of complaints that have been received. They ask what the turn around time is for answering a customer complaint. The Administrative Assistant explains that the call is normally dealt with in a matter of hours, depending on the time of day received. She indicated that normally the complaint is handed over to OCWA staff for either same day follow up call or follow up in home testing. She did note that depending on the testing completed lab results can take a few days or up to two (2) weeks for results and then the customer is notified.

The Board asks for confirmation that testing is occurring at the far reaching areas of the system. The Manager confirms that this is true.

The Board also asks about the Low Lift down time during the recent power outage. The Manager confirms that there is an on site generator and if need be a portable generator that can be brought down.

There is a brief discussion regarding boil water advisories (BWA) of the past. The Manager explains that testing procedures have changed and now often if there is a poor sample the WECHU calls for re-sampling rather than a BWA.

No. UW-48-18

Moved by: Councillor Jacobs

Seconded by: Mayor McDermott

That report UW/24/18 dated November 16, 2018 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to November 16, 2018 is received.

Carried (UW/24/18))

Report UW/25/18 dated November 16, 2018 re: Update on Operations & Capital Budgets

The Manager explains that this is the last meeting with the current board members and he wants to provide them with a budget update, prior to their departure. He notes that 3.4 billion gallons of water had been sold this year, which translates to almost 200 million gallons over the budget. He explains that this number could be less as flows tend to be lower in December. This increase in flow has translated into approximately \$300,000 increase in revenue.

He asks members to look at page 12 of the agenda package to look at studies and capital works. He explains that some items that were pervious under "studies" have been moved to operations side.

He also explains that the budget set aside for the Operations & Maintenance (OM) contract has not been used, but he is meeting with Senior OCWA staff this afternoon and the following day to discuss the new contract.

Some of the anticipated projects for 2018 have started later in the year and will therefore carry over into 2019. He does confirm that the Essex Water Tower (EWT) came in slightly under budget and then reviews some projects that will be moved over to 2019. By moving the projects forward not as much money needs to be taken from the Reserves. He explains that UWSS is financially in good shape. The rate stabilization reserve is working well for UWSS and there is \$17.5 million in the bank accounts at the moment.

The Board is concerned that these projects are not getting completed during the current year and some of the projects coming up in 2019 are fairly labour intensive and will prices go up by moving the projects to 2019 and beyond. The Manager explains that he does not anticipate dramatically rising prices. He also indicates that these large projects tend to incur delays due to design and tendering related issues. He also feels that the projects will be using good engineering firms and contractors and labour won't be an issue.

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No. UW-49-18

Moved by: Councillor Patterson

Seconded by: Councillor Neufeld

That report UW25/18 dated November 16, 2018 re: Update on Operations and Capital Budgets is received.

Carried (UW25/18)

Verbal update on Operations & Maintenance Contract

The Manager reminds members of the Board that he has been working with OCWA senior staff to create a new Operations & Maintenance (OM) agreement. He confirms that he has participated in a number of meetings and discussions and feels that UWSS and OCWA are almost where they want to be in order to complete the contract. He then invites Susan Budden, OCWA Account Manager, to speak to members of the UWSS Board.

Ms. Budden reviews what is working well for UWSS/OCWA relationship and notes that any staff concerns have been taken into consideration for the new OM Contract. She explains to the Board that there is potential for new staff and the increase of compliance and staff succession at the WTP. She also notes that there is potential for team leaders as well as specialized positions coming forward.

She confirms that OCWA staff will be meeting with the Manager the following day to firm up some of the lingering details of the possible new contract.

The Board is concerned about the new positions that are possibly being suggested. The Manager reminds members that this contract will be a fixed fee contract for 10 years, which provides stability on both sides.

No. UW-50-18

Moved by: Deputy Mayor Queen

Seconded by: Councillor Jacobs

That the verbal update on the Operations & Maintenance Contract is received.

Carried

Report UW/26/18 dated November 16, 2018 re: Payments from September 21 to November 16, 2018

No. UW-51-18

Moved by: Mayor Santos

Seconded by: Councillor Hammond

That report UW/26/18 dated November 16, 2018 re: Payments from September 21 to November 16, 2018 is received.

Carried (UW/26/18)

New Business:

The Manager introduces the guests in the audience. OCWA senior staff Robin Kind, Executive Vice President, and Terry Bender, VP of Operations, to members of the Board. OCWA wanted to thank the UWSS for allowing OCWA to be part of UWSS for the last 25 years. They presented the Manager with a plaque commemorating the occasion.

The Manager then thanks the members of the Board for the last four (4) years of working together with him to continue to make UWSS run smoothly. He thanks the departing members for all of their service and input and appreciates everything they have contributed.

The Board then asks the Manager if there is a trend in watermain breaks and would like an evaluation brought back to the board to provide further information. The Manager notes that 12" watermain to Cottam Booster Station is a concern, but is part of the six (6) year capital plan. He also feels that County Road 20 (Seacliff Drive) should also be looked at.

Adjournment:

Moved by: Deputy Mayor Queen

Seconded by: Councillor Jacobs

That the meeting adjourn at 9:46 am

Carried

Date of Next Meeting: January 16, 2019, 9 am, Kingsville Community Room of the Kingsville Arena

/kmj

UW/02/19

To: Chair and Members of the Union Water Supply

System Joint Board of Management

From: Rodney Bouchard, Union Water Manager

Date: January 11, 2019

Re: Status Update of UWSS Operations & Maintenance Activities and Capital

Works to January 11, 2019



To inform the UWSS Board about operational and maintenance activities and capital works projects for the Union Water Supply System since the last Board meeting on.

Discussion:

The UWSS Manager conducts regular meeting with OCWA Operations staff in regards to on-going operations and maintenance programs for the UWSS facilities. The following provides an update on UWSS operations, regular maintenance and major maintenance and Capital Works at UWSS facilities:

- 1. Regular Maintenance on all process equipment and analyzers continue to be completed through OCWA's Workplace Maintenance Management System.
- 2. Continental Carbon Group (CCG) was retained to supply and install new sand and anthracite filter media for Filters #6 and #8. CCG also removed and disposed of existing filter media. This work was completed the week of December 3rd, 2018. These filters have since been disinfected and returned to service. All other filters are being shut down individually for their annual maintenance.
- Cottam Booster Reservoir soil cover rehabilitation project has been delayed due to abnormally warm and wet weather in December 2018 which resulted in the ground being too wet and soft to work on. The contractor, Rudak Excavating, will resume work once weather and ground conditions are satisfactory.
- 4. Watson & Associates have completed a draft Water Rate Study for UWSS. The preliminary results were presented to UWSS at a meeting on December 5, 2018. Watson and Associates are finalizing the Water Rate Study report, which will be presented to the UWSS Board at the February 2019 or March 2019 UWSS Board meeting. Watson & Associates is currently updating the Ontario Regulation 451 Financial Plan for UWSS using the Water Rate Study information. It is anticipated that a draft Financial Plan Report will be provided to UWSS by January 14, 2019 for review and a Final Financial Plan Report will be provided in time for submittal as part of the UWSS' Municipal Drinking Water License (MDWL) renewal application that is due for submittal to the Ministry of Environment, Conservation and Parks (MOECP) on January 19th, 2019.

- 5. An MOECP annual inspection for the UWSS was started on January 8th, 2019. It is anticipated that the inspection and associated report will be completed the first week of February 2019.
- 6. ASL Rotech was retained to inspect and refurbish Low Lift pump #1. ASL Rotech was on site on December 4th and 5th, 2018 to remove the pump and bring it to their shop for refurbishment. This pump is scheduled to be reinstalled and returned to service by the end of January 2019.
- 7. UWSS purchased four new drain valves for Filters #2 and #7. These valves were installed by OCWA maintenance staff.
- 8. A vibration has been detected in High Lift pump #4 has a vibration. Nevtro Pumps and Mechanical of London, Ontario has retained to investigate the issue.
- 9. A new clamp-on flow meter for Clarifier #2 raw water line has been purchased, installed and tested to replace some older pressure differential flow meters on the raw water lines in preparation for the new CO2 system. Two more flow meter will be purchased for raw water lines for Clarifiers #1 and #3.
- 10.A new pH probe has been installed at the low lift station to monitor the pH of the raw water at intake #1. Another one will be installed on intake #2. These will be tied into the SCADA system by OCWA electrical staff.
- 11. SCADA Upgrade Project Update: A workshop was held on December 3rd, 2018 with UWSS and OCWA operations staff to present and review the Program Control Narratives (PCNs) and other completion of PLC design is ongoing. The PCNs for all processes are currently being completed based on the feedback and results from the workshop. Quotes for construction of the physical aspects of the new SCADA system will be requested in February once the design components are complete. The new Wonderware System Platform software and Reporting components have been purchased and received.
- 12. CO2 pH Adjustment/ Chlorine System Improvements Project Update: The project consultant engineer, Associated Engineering, issued a tender on November 12, 2018 for construction services for the CO2 pH adjustment system and Chlorine System Improvements project. The results of the tendering process and recommendation are provided in report UW04-19 CO2 pH Adjustment/ Chlorine System Improvements Project Tender Result

Comparative Flows for 2015 through 2019 in Millions of Imperial Gallons (for the period 1 January to January 10, 2019)

	2015	2016	2017	2018	2019
Flow to Date (MG)	53.40	51.28	58.84	62.66	61.74
Max Day (MGD)	6.67	6.17	6.59	7.69	7.09
Min Day (MGD)	3.79	4.29	4.56	5.18	4.43
Average Day (MGD)	5.34	5.13	5.88	6.27	6.17
No of Days	10	10	10	10	10

Flows to date are down 0.92 MIG or 1.47% from last year. The 2019 flows to date are up 9.19% over the previous 4 year average.

Recommendation:

A.R.A.

That this report be received by the UWSS Board for information purposes.

Respectfully submitted,

Rodney Bouchard, Manager

Union Water Supply System Joint Board of Management

/kmj

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UW/03/18

TO: Chair and Members of the Union Water Supply System

Joint Board of Management

FROM: Rodney Bouchard, Union Water Manager

DATE: January 9th, 2019

RE: Draft 2019 UWSS Operations and Capital Budget Report



FOR INFORMATION

Since this is the first meeting of the newly appointed UWSS Board, this Draft 2019 UWSS Operations and Capital Budget Report is being provided to the UWSS Board for review purposes. At this time, the UWSS General Manager anticipates seeking approval of the draft 2019 UWSS Budget at the next regular meeting of the UWSS Board on February 20th, 2019.

REPORT HIGHLIGHTS

- Potable water demand from UWSS is anticipated to be approximately 3,430,000,000 imperial gallons (15,591,000 m3) for 2019. This is roughly based on the average annual demand for the previous 3 years.
- UWSS Revenue for 2019 is estimated at \$10,144,000. This includes estimated wholesale rate revenue of \$9,673,000, investment income of \$450,000 and sundry revenue of \$21,000.
- Operational and Debt Service Expenditures for 2019 are estimated at \$7,979,000. This includes \$5,647,000 for Operational Expenses and \$2,332,000 for Debt Service.
- 2019 Revenue versus Operational and Debt Service Expenditures are anticipated to result in a surplus of approximately \$2,165,000 for 2019 Fiscal Year;
- A Capital Program of \$5,735,000 is proposed for 2019. This includes a large expenditure for SCADA system upgrades (\$1,035,000), which is a previously approved project that is ongoing. The capital budget also includes a revised budget of \$3,100,000 for construction and implementation of a CO2 gas based raw water pH adjustment system, installation of a chlorine gas scrubber, expansion of the chlorine storage building, and modification of the chlorine gas delivery system.
- The proposed Capital Program for 2019 will result in a budgeted <u>net deficit</u> of \$3,570,000 for 2019 fiscal year. The deficit will be funded using UWSS Reserves.
- An increase of \$0.05 per 1000 gallons (\$0.0109/m3) is proposed for the UWSS Wholesale Rate. The new proposed Rate 1 wholesale Rate would be \$2.82 per 1000 gallons (\$0.611/m3) to take effect on April 1, 2019.

BACKGROUND:

Since the Transfer Order of January 2001, the Board is responsible for considering and approving an annual budget for the Union Water Supply System. The format of the budget is generally the same as that previously prepared for 2018.

This proposed budget is being presented to the UWSS board for consideration. The proposed 2019 budget is outlined to provide details in regards to the following:

- Anticipated revenue for 2019 from wholesale of water to the partner municipalities;
- Anticipated operating expenditures for 2019 including estimated costs for operation of the system by the Ontario Clean Water Agency (OCWA), under its contract with UWSS;
- Proposed Capital Works program for 2019 for UWSS;
- Forecasted Operational Expenditures and Capital Works program for 2019-2024.

DISCUSSION:

The Proposed 2019 Budget documents have been prepared based on the discussions with the contracted operator, OCWA, in regards to operational budget, major maintenance needs, and existing operational issues that would require implementation of capital works to resolve. The Budget documents reflect the following:

- The operations and maintenance costs associated with the 5-Year Fixed Fee Operations Agreement between UWSS and OCWA that came into effect on January 1, 2014 and was to end on December 31st, 2018. This agreement has been extended to December 31st, 2019 to allow further time for UWSS and OCWA to negotiate a new long-term operations agreement;
- The large proposed capital budget for 2019 that includes projects with large expenditures such as the construction and implementation of a carbon dioxide gas (CO2) based raw water pH adjustment system, installation of a chlorine gas scrubber for emergency purposes, expansion of the chlorine building, and upgrades to the chlorine gas delivery system. Other large projects include ongoing SCADA system replacement, Low Lift main electrical upgrades, and proposed installation of new high lift pump.

Details regarding the budget components are discussed below.

OPERATING EXPENDITURES

Expenditures for the Union Water Supply System (UWSS) consist of a) *Fixed Expenditures*, which includes the OCWA operations contract, UWSS Administration and debt service; and b) *Programs and Studies* that are proposed for 2019. The total projected expenditures for 2019 is budgeted at approximately at \$7,452,000.

Fixed Expenditures

Fixed expenditures for the budget process include the OCWA Operations Budget, UWSS Administrative Budget, Electricity and Heating costs, Carbon Dioxide (for proposed raw water pH adjustment system, Operations/Maintenance/Upgrades-General (which includes residuals maintenance, watermain repairs & facility enhancements) and Debt Service. The total estimated fixed expenditures budget for 2019 is \$7,839,441. The fixed expenditures consist of the following components:

OCWA Operations Budget:	\$3,265,000
UWSS Administrative Budget:	\$ 547,000
Electricity and Natural Gas:	\$1,250,000
CO2 Liquefied Gas Procurement:	\$ 175,000
Operational/Maintenance/Upgrades-General:	\$ 270,000
Total Operations, Administrative, Energy:	\$5,507,000

Debt Service:

Sunlife Debt (MFP Debt):	\$2,332,441
Woodslee Credit Union Loan:	\$0
OSIFA (municipal debentures):	\$0
Leamington Debt Repayment:	\$0
Total Debt Service:	\$2,332,441

Total Fixed Costs: \$7,839,441

It should be noted that CO2 Liquefied Gas Procurement is a new Fixed Expenditure Category that is being added to the 2019 UWSS Budget. This item relates to the purchase and use of CO2 Liquefied gas for the operation of the CO2 Raw Water pH adjustment system that is to be constructed and put into operation in 2019. The proposed CO2 Liquefied gas procurement budget amount of \$175,000 is based on the design capacity of the CO2 Raw Water pH Adjustment system, the anticipated raw water flow for 2019 and the CO2 price agreement with the CO2 liquefied gas supplier.

It should also be noted that UWSS Administration Budget includes an increase in 2019 to accommodate the reclassification of the UWSS Administrative Assistant position to UWSS Office Coordinator position.

Programs and Studies

A number of Programs and Studies are included in the 2019 Budget. These studies are designed to achieve one of the following goals:

- Assess and improve operational processes to improve cost efficiencies potentially resulting in decrease of fixed operations costs such as electricity costs and chemical costs;
- Evaluate water demand and water usage by various sectors including residential, commercial, industrial, and food processing/greenhouse industry;
- Evaluate water quality for potential issues such as toxic algae in raw water, nitrification and/or corrosion related issues in larger distribution systems, etc.

For the 2019 budget year, \$140,000 has been allocated to Programs and Studies. The following studies are proposed or currently in place:

<u>Water Demand/Usage/Quality Initiatives:</u> This work is being conducted with assistance from various partners (OCWA, Canadian Water Network, Universities, and Consultants, local municipalities) to evaluate water demand/usage from residential, commercial, industrial and agri-food sectors, to assess water loss throughout the extended distribution system and to evaluate water quality issues such as nitrification, corrosion, and algal toxins.

A budget of \$60,000 is being proposed in the 2019 UWSS Budget for this work.

New Ruthven WTP Reservoir #3 Study

For the 2019 Budget year, a study is being proposed to evaluate the need for increased reservoir capacity at the Ruthven Water Treatment Plant. Existing reservoir capacity at the Ruthven WTP is 5 million gallons, which is thought to be insufficient especially during high water demand days that can reach over 18 million gallons per day.

A budget of \$40,000 is being proposed in the 2019 UWSS Budget for this work.

<u>Backup Power Generation/ Energy Study:</u> A study is being proposed to evaluate the existing backup power generation capacity and equipment at the UWSS facilities. Available backup power generating capacity varies at each of the UWSS facilities (i.e. low lift, water treatment plant, Cottam Booster, etc.) and is likely not optimal. Further, existing diesel backup power generators are old and may require upgrades. This study would also look at solar energy power options for UWSS.

A budget of \$40,000 is proposed in the 2019 budget to complete this work.

Operating Expenditure Summary

Fixed Expenditures: \$7,839,441

Programs and Studies: \$140,000

Total Operating Expenditures for 2017: \$7,979,441

REVENUE

Revenue for the budget process is mainly based on wholesale billings from the sale of potable water to the 4 municipal owners. A smaller component of revenue is based on miscellaneous revenue such as investment income and sundry income. The total estimated revenue for 2019 is \$10,143,600

Wholesale Water Revenue Summary

Wholesale water revenue is based on annual water usage by the 4 owner municipalities and the wholesale water rates.

Water Usage

The projected water "usage" by municipal owners for 2019 is 3,430,000,000 imperial gallons (15,591,000 m3) of potable water. This usage estimate is based on the average water demand for the 3 previous years.

Figure 1 depicts the total UWSS water usage trend from 1998-2018.

Figure 1

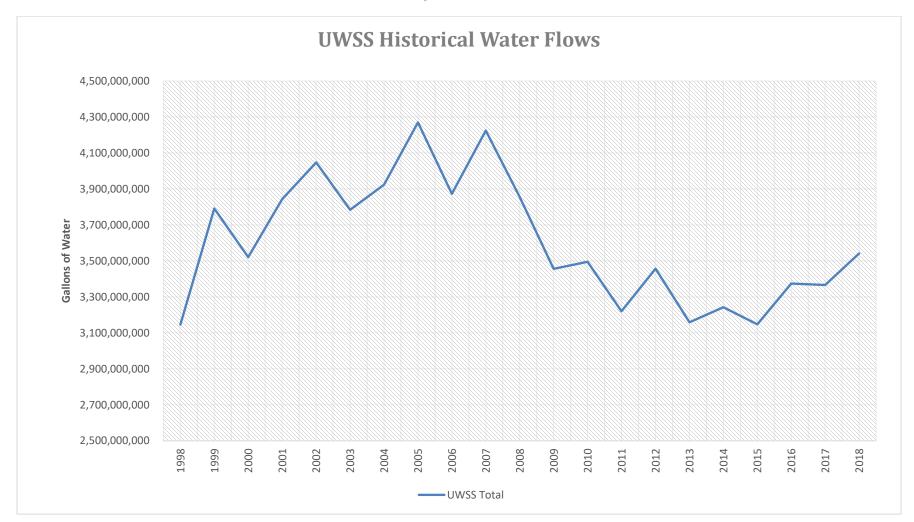
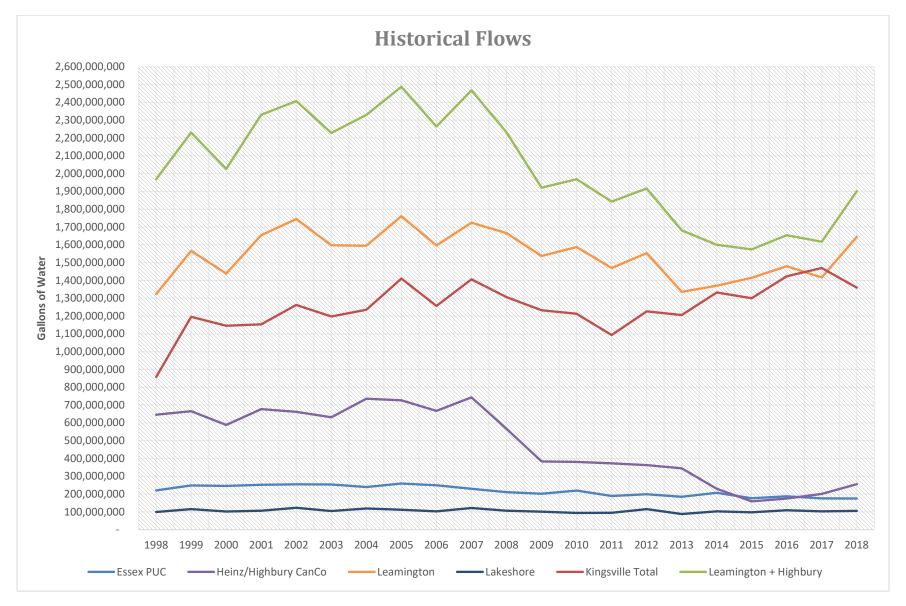


Figure 2 depicts the water usage trend by each municipal partner from 1998-2018.

Figure 2



Wholesale Water Rates

For the 2019 budgeting process, it is proposed that an increase of \$0.05 per 1000 gallon (\$0.0109/m3) be applied to the UWSS wholesale rate. This would result in a 2019 UWSS wholesale rate of \$2.82 per 1000 gallons (\$0.6211/m3). It is proposed that the increase for these rates be applied at the start of the 2nd quarter 20189, thus on April 1, 2019.

Based on a projected water demand of 3.43 billion Imperial Gallons of potable water in 2019, the anticipated wholesale water rate revenue for 2019 is \$9,672,600

Miscellaneous Revenue

Miscellaneous revenue includes income from investments and sundry income.

Investment (interest) income: \$ 450,000

Sundry revenue: \$ 21,000

Total Misc. Revenue: \$ 471,000

Sundry revenue is revenue received from various sources such as lease of space on water towers for telecommunications equipment. The estimated sundry revenue for 2019 is \$21,000 and is roughly based on 2018 revenue.

Revenue Summary

Wholesale Rate Revenue: \$9,672,600

Miscellaneous Revenue: \$\\\471,000\$

Total Estimated Revenue for 2019: \$10,143,600

REVENUE VERSUS OPERATING EXPENDITURES

A comparison of Revenue versus Expenditures for 2019 budget is as follows. It should be noted that the total estimated expenditures also include the proposed budget for operational Programs and Studies of \$140,000.

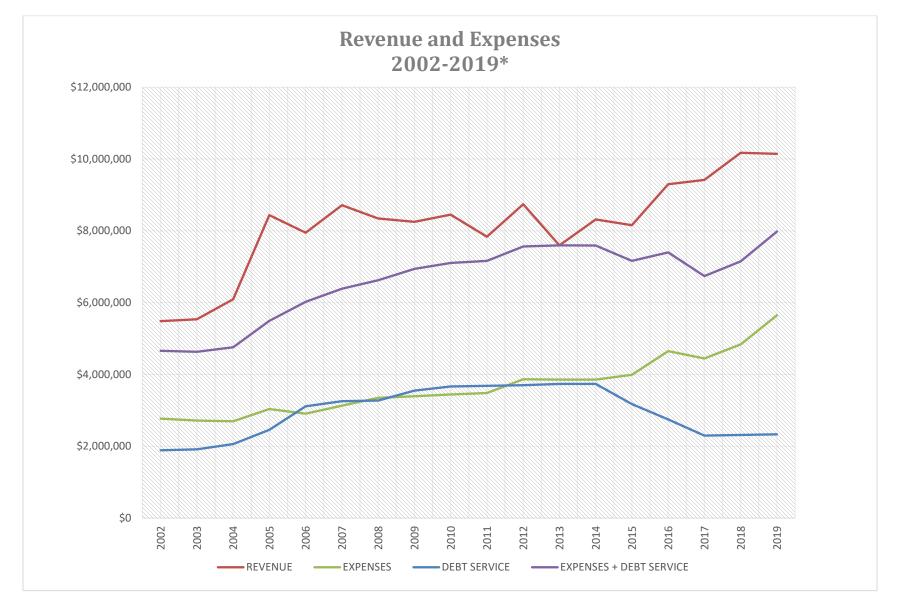
Total Estimated Revenue: \$10,143,600

Total Estimated Expenditures: \$7,979,441

Surplus/(Deficit): \$2,164,159

Table 3 provides a historical comparison of UWSS Revenue versus expenses from 2002-2018

Figure 3



CAPITAL PROGRAM

The proposed Capital Program for 2019 is budgeted at \$5,735,000. This includes major Capital Equipment Purchases (e.g. vehicles, heavy equipment) and major Capital Works.

The following major capital works projects are proposed for 2019:

CO2 Raw Water pH Adjustment System:	\$1	,550,000
Chlorine Gas System Improvements/New Scrubber:	\$1	,550,000
SCADA System Replacement (continued from 2018):	\$1	,035,000
High Lift Pump No. 10 - New:	\$	250,000
Low Lift Main Electrical System Upgrades:	\$	200,000
DAF System Design - Clarifier #2 :	\$	150,000
Laboratory Upgrades:	\$	100,000
Upside Down Valve Corrosion Protection:	\$	100,000
Distribution System Components:	\$	75,000
Cottam Booster Reservoir Regrading:	\$	60,000
Security System Install:	\$	60,000
Master Water Meter Communication System:	\$	50,000
Power Factor Capacitor Upgrades:	\$	50,000
Carbon Scrubber System Upgrade:	\$	50,000
Grounds Improvements	\$	50,000
Low Lift Surge Tanks - Ladders & New Compressors:	\$	40,000
Low Lift #5 Pump Rehab	\$	35,000
Energy Monitoring and Management System - WTP	\$	35,000
Filter Meter Replacements -Filters 5,6,7,8	\$	35,000
Blue Green Algae Probe - Low Lift Well	\$	30,000
Carbon Feed Pump Upgrade	\$	30,000
Filters #2 & #4 Inlet Gate Replacement	\$	30,000
Rechlorination System Upgrades - Cottam Booster:	\$	30,000
Treatment Plant Building-Admin Area Improvements:	\$	30,000
Flow Meters & Control Valves - Clarifiers #1 & #3:	\$	25,000
Chlorine Analyzers - 5 new units:	\$	25,000
UWSS Communication System Upgrades:	\$	20,000

Wastewater Pumps Rehabilitation		000
Lighting Upgrades - Exterior:		000
Lighting Opgrades - Exterior.	\$5.735.	·

BUDGET SUMMARY

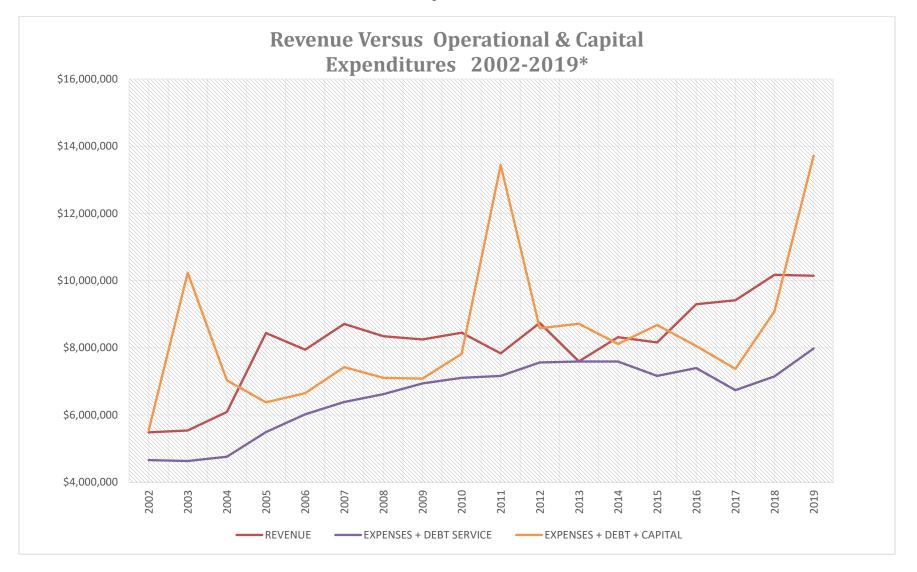
The proposed 2019 budget is summarized as follows:

Total Estimated Revenue: (includes wholesale rate revenue and miscellaneous revenue)	\$10,143,600
Total Estimated Operating Expenditures: (includes Operations Contract, UWSS Admin, Programs & Studies)	(\$7,979,441)
Revenue versus Operating Expenditures: Surplus/ (Deficit)	\$2,164,159
Capital Program: (includes Capital Purchases and Capital Works)	(\$5,735,000)
NET SURPLUS/ (DEFICIT): (Operating surplus/deficit less Capital Program)	(\$3,570,841)

Figure 4 below provides a chart that compares historical UWSS Revenue versus Operating and Capital Expenditures.

Appendix A to this report includes worksheets and tables that provide details on the 2018 Operations and Capital Budgets including a Budget Summary worksheet, Operations and Debt Detail worksheet, 2018 Capital Budget Details worksheet, and a Water Flow and Revenue worksheet.

Figure 4



CASH /RESERVES VERSUS DEBT

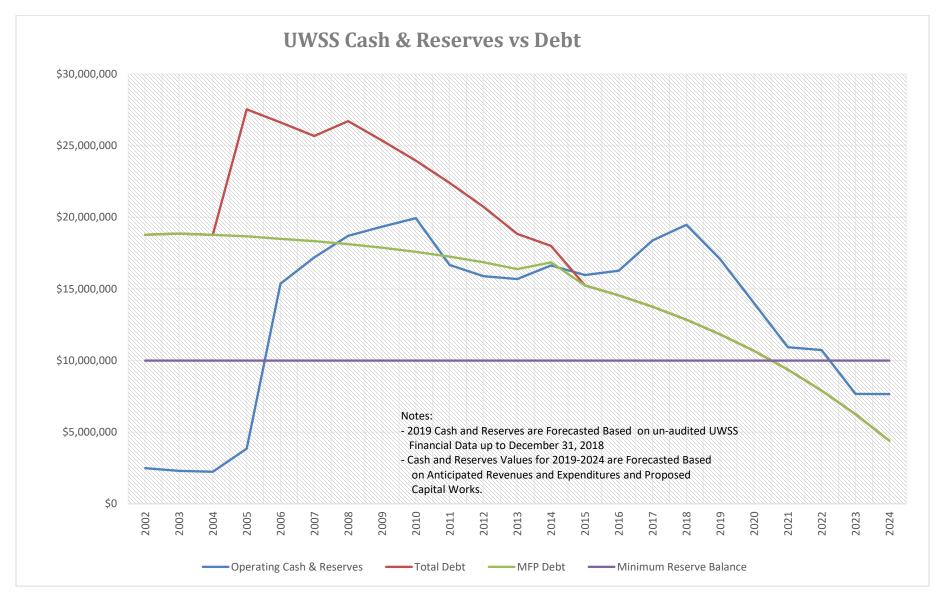
Cash and Reserves for UWSS for fiscal year-end 2018 are forecasted to be approximately \$19,476,000. It should be noted that of the estimated \$19,255,000 in available cash and reserves, \$10,000,000 is currently invested in a GIC until April 2022. Thus, approximately \$9,476,000 in cash and reserves are available for use to fund UWSS operations and capital works.

The 2019 Operating and Capital Budget projects a Net Deficit of (\$3,570,841) for 2019 year end. Thus, it is anticipated that UWSS cash and equivalents at the end of 2019 will decrease to approximately \$5,905,000.

Based on debt repayment schedules, the total UWSS long term debt balance as of December 31, 2018 is \$12,854,535 and consists solely of the Sunlife Debt (MFP Debt).

Figure 5 presents a graph comparing Total Debt and MFP Debt versus Cash Equivalents. It should be noted that "Cash & Reserves" for 2019-2024 are projected based on anticipated Revenues, Expenditures, and proposed Capital Works and are subject to significant changes.

Figure 5



PROPOSED 6-YEAR CAPITAL WORKS PLAN

The UWSS General Manager, with assistance and input from OCWA Operations Staff has developed a proposed 6-year Capital Works Plan (2019-2024) for the UWSS. This Plan reflects the UWSS General Manager's intention to undertake upgrades and improvements to the UWSS to address lifecycle replacement/upgrade issues and to improve water treatment, storage and transmission efficiencies.

The following large capital works are included in the 6-Year Capital Plan:

	Proposed Capital Works	Estimated Cost	Proposed Year of Implementation
- Clarif (DAF)		\$2,000,000	2020-2021
- Kings	ville Tower Rehabilitation	\$1,100,000	2020
- UV D	isinfection System in Primary Reservoir	\$5,500,000	2021
- Seco	nd Clarifier Retrofit to DAF	\$2,000,000	2022
- Repla Boost	cement of 12-inch watermain to Cottam ter	\$6,000,000	2020-2023
- Admii	nistration Building Expansion/Elevator	\$1,100,000	2023-2024
- Partia	l Residuals Management System	\$1,500,000	2024

The large capital items identified in the Table above are currently included as "placeholders" and undertaking of such works would be subject to thorough technical and financial evaluation and approval by the UWSS Board. Costs associated with these future capital works are preliminary and are included for Capital Planning and Finance purposes and are subject to change. The Proposed 6-Year Capital Plan is included as Appendix B to this Report. The Plan identifies the proposed works for each year and the anticipated value of the works.

It is the UWSS Manager's opinion that the Budget presented in this report provides a Budget for UWSS that is fiscally prudent while also providing for the major maintenance and lifecycle replacements needed to ensure that UWSS facilities and operations are effective and sustainable for the future.

Respectfully submitted,

Rodney Bouchard, General Manager

Union Water Supply System Joint Board of Management

rb/kmj

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2019 UWSS DRAFT OPERATIONS AND CAPITAL BUDGET TABLES AND DETAILS

UNION WATER SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT 2019 Draft Budget Flows and Revenue

	2018	2018	2019	2020	2021	2022	2023	2024
Flow Metering Location	Approved Budget	As of Dec 31st, 2018	\$0.05/1000 Gallon Rate Increase	\$0.11/1000 Gallon Rate Increase	\$0.12/1000 Gallon Rate Increase	\$0.12/1000 Gallon Rate Increase	\$0.12/1000 Gallon Rate Increase	\$0.13/1000 Gallon Rate Increase
Essex PUC	175,000,000	175,078,860	175,000,000	175,000,000	176,000,000	177,000,000	178,000,000	179,000,000
Gosfield N. Twsp	135,000,000	141,449,220		137,500,000	140,250,000	142,500,000	145,000,000	147,500,000
Gosfield S. Twsp	1,100,000,000	1,076,306,340	1,105,000,000	1,115,000,000	1,125,000,000	1,135,000,000	1,145,000,000	1,155,000,000
Highbury CanCo	220,000,000	255,926,660	215,000,000	225,000,000	235,000,000	245,000,000	255,000,000	265,000,000
Kingsville PUC	140,000,000	141,674,060	145,000,000	145,000,000	146,000,000	147,000,000	148,000,000	149,000,000
Leamington PUC	1,525,000,000	1,645,388,580	1,550,000,000	1,580,000,000	1,610,000,000	1,640,000,000	1,670,000,000	1,700,000,000
Lakeshore	<u>105,000,000</u>	<u>105,550,060</u>	<u>105,000,000</u>	<u>105,000,000</u>	<u>106,000,000</u>	<u>107,000,000</u>	<u>108,000,000</u>	<u>109,000,000</u>
Total Flow:	3,400,000,000	3,541,373,780	3,430,000,000	3,482,500,000	3,538,250,000	3,593,500,000	3,649,000,000	3,704,500,000
Rate 1 Flow	2 100 000 000	2 205 447 120	2 215 000 000	2 100 000 000	2 100 000 000	2 100 000 000	2 100 000 000	2 100 000 000
Rate 1 Flow Rate 1	3,180,000,000 \$2.77	3,285,447,120 \$2.77		3,190,000,000 \$2.93	3,190,000,000 \$3.05	3,190,000,000 \$3.17	3,190,000,000 \$3.29	3,190,000,000 \$3.42
Rate 1 Revenue	\$8,808,600	·	·	\$9,346,700	\$9,729,500	\$3.17 \$10,112,300	\$3.29 \$10,495,100	\$10,909,800
Rate 1 Revenue	\$0,000,000	φ9,100,009	\$9,000,300	\$3,5 1 0,700	\$9,729,300	\$10,112,500	\$10,733,100	\$10,909,000
Rate 2 Flow	0	0	0	0	0	0	0	0
Rate 2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Rate 2 Revenue	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	
	7	7 3 3 3	70.00	τ	7	7	7	7
Rate 3 Flow	0	0	0	0	0	0	0	0
Rate 3 Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
rate 5 revenue	ΨΟ	Ψ0	ΨΟ	ΨΟ	ΨΟ	Ψ0	Ψ0	ΨΟ
Highbury CanCo Flow	220,000,000	255,926,660	215,000,000	225,000,000	235,000,000	245,000,000	255,000,000	265,000,000
Highbury CanCo Rate	\$2.05	\$2.05		\$2.93	\$3.05	\$3.17	\$3.29	\$3.42
Highury CanCo Revenue	\$451,000	\$524,650	· ·	\$659,250	\$716,750	\$776,650	\$838,950	\$906,300
,	,	,	. , , , , , , , ,	,	,	,	,	, ,,,,,,,
Lifecycle Rate	\$0.24	\$0.24	\$0.36	\$0.36	\$0.36	\$0.36	\$0.36	\$0.36
	\$816,000	\$849,930	\$1,234,800	\$1,253,700	\$1,273,770	\$1,293,660	\$1,313,640	\$1,333,620
Total Davisson	40 250 600	40 625 220	40.673.600	440 005 050	440 446 270	440,000,000	444 224 250	444.046.400
Total Revenue	\$9,259,600	\$9,625,338	\$9,672,600	\$10,005,950	\$10,446,250	\$10,888,950	\$11,334,050	\$11,816,100

UNION WATER SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT

2019 Draft Budget Budget Summary

	2018	2018 Projected to	2019 Rate Increase -	2020 Rate Increase -	2021 Rate Increase -	2022 Rate Increase -	2023 Rate Increase -	2024 Rate Increase -
	Approved Budget	Dec. 31st, 2018	\$0.05/1000	\$0.11/1000	\$0.12/1000	\$0.12/1000	\$0.12/1000	\$0.13/1000
Water Flows								
<u>REVENUE</u>								
Senior Government Grants	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wholesale Rate Billings	\$9,259,600	\$9,625,338	\$9,672,600	\$10,005,950	\$10,446,250	\$10,888,950	\$11,334,050	\$11,816,100
Investment Income	\$400,000	\$503,173	\$450,000	\$459,000	\$468,180	\$477,544	\$487,094	\$496,836
Sundry revenue	\$24,000	\$44,344	\$21,000	\$21,420	\$21,848	\$22,285	\$22,731	\$23,186
TOTAL REVENUES	\$9,683,600	\$10,172,855	\$10,143,600	\$10,486,370	\$10,936,278	\$11,388,779	\$11,843,876	\$12,336,122
OPERATING EXPENDITURE								
General Administration	\$501,750	\$473,090	\$502,000	\$506,865	\$511,827	\$516,889	\$522,052	\$527,318
Miscellaneous Legal/Professional fees	\$75,000	\$77,460	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000
OCWA Operating Contract	\$2,876,500	\$2,799,837	\$3,265,000	\$3,330,300	\$3,396,906	\$3,464,844	\$3,534,141	\$3,604,824
Programs and Studies	\$326,000	\$165,500	\$140,000	\$310,000	\$210,000	\$185,000	\$185,000	\$185,000
Operational/Maintenance/Upgrades - General	\$285,000	\$128,620	\$270,000	\$270,000	\$270,000	\$270,000	\$305,000	\$270,000
CO2 Liquifed Gas Procurement	\$0	\$0	\$175,000	\$178,500	\$182,070	\$185,711	\$189,426	\$193,214
Electricity and Natural Gas	\$1,250,000	\$1,190,953	\$1,250,000	\$1,275,000	\$1,300,500	\$1,326,510	\$1,353,040	\$1,380,101
TOTAL OPERATING EXPENDITURES	\$5,314,250	\$4,835,460	\$5,647,000	\$5,915,665	\$5,916,303	\$5,993,954	\$6,133,658	\$6,205,457
	ψ0,014,200	ψ+,000,+00	ψο,οπι,οσο	ψο,ο το,οοο	ψο,ο το,οοο	ψο,οοο,οο-	ψο, 100,000	ψ0,200,401
Debt Service	\$2,313,441	\$2,313,441	\$2,332,441	\$2,351,279	\$2,370,377	\$2,389,596	\$2,408,934	\$2,428,392
TOTAL DEBT SERVICE EXPENDITURES	\$2,313,441	\$2,313,441	\$2,332,441	\$2,351,279	\$2,370,377	\$2,389,596	\$2,408,934	\$2,428,392
CAPITAL EXPENDITURE								
Capital Repair, Maintenance & Upgrade Works	\$3,393,000	\$1,790,092	\$2,485,000	\$1,620,000	\$570,000	\$955,000	\$265,000	\$1,710,000
New Capital Works	\$2,020,000	\$142,395	\$3,250,000	\$3,000,000	\$5,150,000	\$2,250,000	\$6,100,000	\$2,000,000
Contingency			•	4 .	4-			<u> </u>
TOTAL CAPITAL EXPENDITURES	\$5,413,000	\$1,932,487	\$5,735,000	\$4,620,000	\$5,720,000	\$3,205,000	\$6,365,000	\$3,710,000
NET OURRE HOWRESOIT	(20.000 55.1)	A. 	/ A === 0	(40.400 == :)	(40.000.100)	/A.A ::	(40.000 - :)	(4= ===)
NET SURPLUS/(DEFICIT)	(\$3,357,091)	\$1,091,468	(\$3,570,841)	(\$2,400,574)	(\$3,070,402)	(\$199,771)	(\$3,063,717)	(\$7,727)

UNION WATER SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT 2019 Draft Budget Operations and Debt Detail

		2018	2018	2019	2020	2021	2022	2023	2024
			As of Dec 31st,	Budget- Rate	Budget- Rate	Budget- Rate	Budget- Rate	Budget- Rate	
		Approved Budget	2018	Increase of	Increase of	Increase of	Increase of	Increase of	Budget- Rate Increase
<u>Number</u>	Account Description	, and the second		\$0.05/1000 Gallons	\$0.11/1000 Gallons	\$0.12/1000 Gallons	\$0.12/1000 Gallons	\$0.12/1000 Gallons	of \$0.13/1000 Gallons
REVENUE ACCOUNTEES REVENUE	NTS								
0700-3700	Wholesale Rate Billings	\$9,259,600	\$9,625,338	\$9,672,600	\$10,005,950	\$10,446,250	\$10,888,950	\$11,334,050	\$11,816,100
	9	\$9,259,600	\$9,625,338	\$9,672,600		\$10,446,250	\$10,888,950	\$11,334,050	
MISCELLANEOUS F									
0700-4100	Investment Income (Operations)	\$400,000	\$503,173	\$450,000		\$468,180	\$477,544	\$487,094	
0700-3999	Sundry revenue	\$24,000	\$44,344	\$21,000	\$21,420	\$21,848	\$22,285	\$22,731	\$23,186
	•	\$424,000	\$547,517	\$471,000	\$480,420	\$490,028	\$499,829	\$509,826	\$520,022
	TOTAL REVENUES :	\$9,683,600	\$10,172,855	\$10,143,600		\$10,936,278	\$11,388,779	\$11,843,876	
EXPENDITURE ACC	COUNTS								
WAGES AND BENE									
0700-5000	Salaried	\$175,000	\$169,931	\$180,000		\$187,272	\$191,017	\$194,838	
0700 5000 to 5040	Part time	\$0	\$0	\$0		\$0	\$0 \$07.404	\$0	
0700-5200 to 5210	Benefits - Full time Benefits - Part time	\$62,000 \$0	\$65,500 \$0	\$63,250 \$0		\$65,805 \$0	\$67,121 \$0	\$68,464 \$0	
	Deficites - Fart time	\$237,000	\$235,431	\$243,250		\$253,077	\$258,139	\$263,302	
OFFICE OVERHEAD	D, RENTS AND SERVICES	+=3.,000	+=00, .31			+====	+ ===,.00	7200,002	+=00,000
0700-7010	Office supplies	\$2,000	\$1,346			\$2,000	\$2,000	\$2,000	
0700-7015	Board expenses	\$1,500	\$0	\$0		\$0	\$0	\$0	
0700-7020	Dues, Memberships, Subsc	\$5,000	\$3,254	\$5,000		\$5,000	\$5,000	\$5,000	
0700-7030 0700-7040	Travel & Mileage Training	\$2,000 \$6,000	\$2,930 \$361	\$2,500 \$6,000		\$2,500 \$6,000	\$2,500 \$6,000	\$2,500 \$6,000	
0700-7040	Conferences	\$6,000	\$4,936	\$6,000		\$6,000	\$6,000	\$6,000	
0700-7052	Meeting Expenses	\$2,000	\$733	\$2,000		\$2,000	\$2,000	\$2,000	
0700-7070	Uniforms/Clothing	\$500	\$0	\$500		\$500	\$500	\$500	
0700-7950	Legal/Professional fees	\$75,000	\$77,460	\$45,000		\$45,000	\$45,000	\$45,000	
0700-7959-002070	Audit Fees	\$7,000	\$5,877	\$6,500 \$4.47,500		\$6,500	\$6,500	\$6,500 \$4.47.500	
0700-6750 0700-7080 & 7085	Property Taxes Operational Purchases/Maint.	\$145,000 \$20,000	\$146,283 \$15,319	\$147,500 \$17,500		\$147,500 \$17,500	\$147,500 \$17,500	\$147,500 \$17,500	
0700-7080 & 7083	Sundry	\$250	\$15,319	\$17,300 \$250		\$250	\$250	\$250	
0700-7090	Leamington Assistance	\$30,000	\$30,000	\$30,000		\$30,000	\$30,000	\$30,000	
0700-7110	Communications	\$1,500	\$606	\$1,500		\$1,500	\$1,500	\$1,500	
0700-7120	Postage & Courier	\$500	\$98	\$500		\$500	\$500	\$500	•
0700-7130	Advertising & Promotion	\$9,000	\$5,778	\$7,000		\$7,000	\$7,000	\$7,000	
0700-7140 0700-7130	Insurance Donations & Grants	\$15,000 \$4,000	\$14,837 \$3,000	\$15,000 \$4,000		\$15,000	\$15,000	\$15,000 \$4,000	
0700-7130 0700-7230 to 7290	Office equipment Purchases/Maint.	\$7,500 \$7,500	\$2,300	\$4,000 \$5,000		\$4,000 \$5,000	\$4,000 \$5,000	\$4,000 \$5,000	
0.00.1200.0.1200	omos equipment arendees, maint	\$339,750	\$315,119	\$303,750		\$303,750	\$303,750	\$303,750	
0700 6700	OCIMA Operating Union								
0700-6720 0700-7410 & 7420	OCWA Operating Union Electricity and Natural Gas	\$2,876,500 \$1,250,000	\$2,799,837 \$1,190,953	\$3,265,000 \$1,250,000		\$3,396,906 \$1,300,500	\$3,464,844 \$1,326,510	\$3,534,141 \$1,353,040	
0700-7410 & 7420	CO2 Gas Bulk Purchase	\$0	\$0			\$182,070	\$185,711	\$189,426	
		\$4,126,500	\$3,990,790	\$4,690,000		\$4,879,476	\$4,977,066	\$5,076,607	
0700 7000 000070	Operational Programs 9 Studies					\$210,000	\$185.000		
0700-7989-002070	Operational Programs & Studies Residuals Ponds Maintenance	\$326,000 \$150,000	\$165,500 \$65,186			\$150,000 \$150,000	\$150,000	\$185,000 \$150,000	
	Watermain Repairs	\$100,000	\$31,934			\$100,000	\$100,000	\$100,000	
	Municipal DW License Renewal	\$15,000	\$12,500			\$0	\$0	\$35,000	
	Facility Enhancements - General	\$20,000	\$19,000			\$20,000	\$20,000	\$20,000	
то	TAL OPERATIONAL EXPENDITURES:	\$5,314,250	\$4,835,460	\$5,647,000	\$5,915,665	\$5,916,303	\$5,993,954	\$6,133,658	\$6,205,457
NET OPERATIONAL	L SURPLUS/(DEFICIT)	\$4,369,350	\$5,337,395	\$4,496,600	\$4,570,705	\$5,019,975	\$5,394,825	\$5,710,217	\$6,130,665
DEBT SERVICE 0700-6000 & 6100	Sun Life Debt Obligation	\$2,313,441	\$2,313,441	\$2,332,441	\$2,351,279	\$2,370,377	\$2,389,596	\$2,408,934	\$2,428,392
0700-6000 & 6100 0700-6000 &6100 0700-6010 &6110	Woodslee Credit Union OSIFA Leamington WM								
	TOTAL DEBT SERVICE:	\$2,313,441	\$2,313,441	\$2,332,441	\$2,351,279	\$2,370,377	\$2,389,596	\$2,408,934	\$2,428,392
SURPLUS/(DEFICIT) AFTER DEBT	\$2,055,909	\$3,023,955	\$2,164,159	\$2,219,426	\$2,649,598	\$3,005,229	\$3,301,283	
•		. , ,	. , . , . , . ,	. , . ,	. , .,	. ,,	. ,, =-	. , ,	. , . , -

Union Water Supply System 2019 Draft Budget Capital Budget Details

	CATEGORY	•							FUNDING SOL	JRCE
<u>Item Description</u>	Studies	Treatment Plant Upgrades & Renewals	Low Lift Upgrades	Cottam Booster Upgrades	SCADA / Communication/ Security System Upgrades	Electrical Systems	Transmission Facilities	TOTAL	Revenue	Reserves
STUDIES/PROGRAMS										
Water Demand/usage/quality initiatives	\$60,000							\$60,000	\$60,000	\$0
New Ruthven WTP Reservoir #3 Study	\$40,000							\$40,000		\$0
Backup power generation/ energy study	\$40,000							\$40.000		\$0
Total Studies/Programs	\$140,000							\$140,000	\$140,000	\$0
CAPITAL WORKS/ MAJOR MAINTENANCE	ψ. 13,500							, ,	φ. 13,5000	7.
Low Lift Pump #5 Rehab			\$35,000					\$35,000	\$35,000	\$0
Blue Green Algae/ Chlorophyll Probe - Low lift well			\$30,000					\$30,000		\$C
Low Lift Surge Tanks - Ladders and new compressors			\$40,000					\$40,000		\$0
Low Lift Main Electrical-Transformer/Feed/Switch Gear/Breaker Upgrades			Ţ.5,000			\$200,000		\$200,000		\$0 \$0
Flow Meters and Control Valves - Clarifier #1 and #3	1	\$25,000				, ,,,,,,,,		\$25,000		\$0 \$0
Carbon Feed Pumps (2)	1	\$30,000			†			\$30,000		\$0 \$0
Carbon Recirculation Pump Rehab		\$10,000						\$10,000		\$0 \$0
Carbon Scrubber System Upgrade		\$50,000						\$50,000		\$0 \$0
Turbidity Meters for Clarifier #3 and #4		\$10,000						\$10,000		\$0
Filter #2 and #4 Inlet Gate Replacement		\$30,000						\$30,000		\$0
Filter Meter Replacements - Filters 5,6,7 &8		\$35,000						\$35,000		\$0
Chlorine Analyzers - 5 units		\$25,000						\$25,000		\$0
Highlift Pump #10 - New		\$250,000						\$250,000		\$0
Upside Down Valve Corrosion Protection		\$100,000						\$100,000		\$0
Wastewater Pumps Rehab		\$10,000						\$10,000		\$0
Lighting Upgrade - Exterior Areas		\$10,000						\$10,000		\$0
Laboratory Upgrades		\$100,000						\$100,000		\$0
Power Factor Capacitor Upgrades - Low Lift and High Lift						\$50,000		\$50,000		\$0
Energy Monitoring and Management System - High Lift						\$35,000		\$35,000		\$0
SCADA System Upgrades (continued from 2018)		\$1,035,000						\$1,035,000		\$320,000
Security System Install					\$60,000			\$60,000		\$0
UWSS Wide Communication Upgrades	1				\$20,000			\$20,000		\$0
Cottam Booster Reservoir Regrading/Drainage				\$60,000	1			\$60,000	• • • • • • • • • • • • • • • • • • • •	\$0
Rechlorination System Upgrades				\$30,000	ľ			\$30,000	•	\$0
Distribution System Components					İ		\$75,000	\$75,000	\$75,000	\$0
Master Water Meters Upgrades					İ		\$50,000	\$50,000		\$0
Treatment Plant Bldg Improvements - Admin Area/New offices		\$30,000						\$30,000		\$0
Grounds Improvements		\$50,000			<u> </u>			<u>\$50,000</u>		<u>\$0</u>
										\$0
Total Capital Works/ Major Maintenance		\$1,800,000	\$105,000	\$90,000	\$80,000	\$285,000	\$125,000	\$2,485,000	\$2,165,000	\$320,000
NEW CAPITAL WORKS										
DAF System Design		\$150,000						\$150,000	\$0	\$150,000
Chlorine Gas System Improvements and New Scrubber		\$1,550,000						\$1,550,000		\$1,550,000
CO2 pH Adjustment System Construction		\$1,550,000						\$1,550,000		\$1,550,000
Total New Capital Works		\$3,250,000	\$0	\$0	\$0	\$0	\$0	\$3,250,000	\$0	\$3,250,000
TOTAL MAJOR MAINTENANCE and CAPITAL		\$5,050,000		\$90,000		\$285,000				

UWSS 6-YEAR CAPITAL PLAN TABLES AND DETAILS

UNION WATER SUPPLY SYSTEM Six Year Recommended Capital / Major Maintenance January 9, 2019

DRAFT

Salidary 9, 2019							<u> </u>	NAI	<u></u>						
		2019		2020		2021		2022		2023		2024		otal Capital nditures 2018- 2024	Comments
Union Area Water Supply System															
Studies and Programs															
													\$	-	Smart Water Study, etc.
Water Demand/Usage/Quality Initiatives	\$	60,000	\$	60,000	\$	60,000	\$	35,000	\$	35,000	\$	35,000	\$	285,000	CWN Algae Study, Corrosion Monitoring
New Ruthven WTP Reservoir #3 Study	\$	40,000											\$	40,000	M&T System installation in 2017 for Low Lift
Backup power generation / energy study	\$	40,000											\$	40,000	
Cottam 12-inch main replacement- EA & Prelim Eng			\$	250,000									\$	250,000	Evaluation of Options and Prelim Engineering for Replacement of 12-inch WM to Cottam
Master Plan Update													\$	-	
Contingency (un-identified future studies)					\$	150,000			\$	150,000		150,000		600,000	
Subtotal Studies and Programs	\$	140,000	\$	310,000	\$	210,000	\$	185,000	\$	185,000	\$	185,000	\$	1,215,000	
Low Lift															
Intake #1 & 2* (Note 5)			\$	30,000							\$	30,000		60,000	Maintenance
Intake # 2 (See Item 16 for more detail)							\$	30,000					\$	30,000	Maintenance
Intake # 3, shoreline intake			\$	100,000									\$	100,000	Improvements needed to make fully functional
Coarse Bar Screen (2)													\$	-	maintenance not required
Travelling Screen #1													\$	-	replaced in 2008 \$110,000.
Travelling Screen #2													\$	-	Replaced in 2012
Travelling Screen #3			\$	120,000									\$	120,000	installed in 1994; upgrades planned for 2020
Pump Wells(2)													\$	-	cleaned & inspected annually
Low Lift Pump 1 *(Note 1)					\$	30,000					ļ		\$	30,000	rebuilt in 2018
Low Lift Pump 2									\$	35,000			\$	35,000	rebuilt in 2017
Low Lift Pump 3							\$	30,000	_	22.222			\$	30,000	rebuilt in 2016
Low Lift Pump 4		05.000							\$	30,000	1	00.000	\$	30,000	rebuilt in 2007
Low Lift Pump 5	\$	35,000	•	05.000							\$	30,000	\$	65,000	ashed this 0000
Low Lift Pump 6			\$	35,000	•	05.000					ļ		\$	35,000	rebuilt in 2008
Low Lift Pump 7					\$	35,000					1		3	35,000	rebuilt in 2008
Zebra Mussel Control System					\$	50,000	1				ļ		\$	50,000	Zebra mussel intake upgrades
Pump discharge line Low Lift Surge Tanks (2) and Compressor System *(Note 6)	\$	40,000											\$	40,000	Ladder/safety system; 2 new compressors needed
Low Lift Diesel Generator					\$	50,000							\$	50,000	O & M Contracted to Genrep
Low Lift transformer, feed, switch gear, breaker upgrades	\$	200,000			Ψ	30,000							\$	200,000	Electrical Transformer, switchgear etc is obsolete Needs to be upgraded
General Building Maintenance & Equipment	Ψ	200,000											Ψ	200,000	be apgraded
Roadway upgrades to Maintenance Area -							\$	75,000					\$	75,000	upgrade of roadway to rear plant area
Asphalt Pavement Sealing - Low lift, treatment plant, CBS							T T	-,			1		\$	-	, , , , , , , , , , , , , , , , , , , ,
New Maintenance Shop Building	1										Ī		\$	-	
Building/Grounds -	\$	50,000	\$	50,000	\$	50,000	\$	100,000					\$	250,000	Concrete pad for maint. Shop; tree removal low lift
Upgrades to Pole Barn - Roof, electric, etc.		, -				,		, -					\$	-	
Clarification Custom													\$	-	
Clarification System		40 =0=											\$	-	N. El
Clarifier 1 -	\$	12,500									L		\$	12,500	New Flow meter and control valve
Clarifier 2 -													\$	-	To be retrofitted to DAF in 2020
Clarifier 3	\$	12,500											\$	12,500	New Flow meter and control valve
Clarifier 4													\$	-	
Chemical System													\$	-	
Coagulant Feed System					\$	30,000		38 of 5					\$	30,000	Upgraded in 2013
			_				age	<u> २० ०। २</u> १	9						

Coagulant Storage	ı				\$	30,000	<u> </u>						\$	30,000
			\$	20,000	Ф	30,000							\$	20,000
Coagulant Aid System			Ф	20,000									φ Φ	20,000
Carbon Feed System													\$	
Carbon Flushing Lines													\$	-
Tank Mixers (3) Recirc. Pump	ď	10.000											\$	- 40,000
	\$	10,000											\$	10,000
Slurry Transfer Pumps (2)	Φ.	00.000					Φ.	40.000					Ψ	70,000
Carbon Feed Pumps (4)	\$	30,000					\$	40,000					\$	70,000 L
Carbon Scrubber System	\$	50,000											\$	50,000 r
Filtration													\$	-
Filter 1													\$	- F
Filter 2	\$	15,000											\$	15,000 r
Filter 3													\$	- F
Filter 4	\$	15,000											\$	15,000 r
Filter 5													\$	- 1
Filter 6													\$	- r
Filter 7													\$	- 1
Filter 8													\$	- r
Turbidity Meters for Filter Backwash													\$	- 1
Filter Meter Replacements	\$	35,000											\$	35,000
Valves		•											\$	- (
Removal of Microstrainers/ Install of Flooring													\$	- N
Pumps														
Backwash Pump 1 - Actuator upgrade													\$	- r
Backwash Pump 2							\$	100,000					\$	100,000 r
High Lift Pump 1 *(Note 2) Diesel Pump							Ψ	100,000					\$	- r
High Lift Pump 2													\$	- F
High Lift Pump 3													\$	- r
High Lift Pump 4													\$	- r
High Lift Pump 5													\$	- r
High Lift Pump 6													Ψ	
nigh Lift Pullip 6													\$	- r
High Lift Pump 7													_	
riigh Eilt i dhip i													¢	
High Lift Dump 0													\$	
High Lift Pump 8							ď	105.000					\$	- r
High Lift Pump 9	Φ.	250,000					\$	125,000					\$	125,000 r
High Lift Pump No. 10	\$	250,000			Φ.	F0 000			Φ.	50.000			\$	250,000
High Lift Reservoirs and components	\$	100,000			\$	50,000			\$	50,000			\$	200,000
Wastewater Pumps (2)	\$	10,000					\$	10,000					\$	20,000 F
Diesel Generator 1 (170 kW)													\$	-
Diesel Generator 2 (750 kW)													\$	-
Diesel Generator Upgrades											\$	1,500,000	\$	1,500,000
HL Compressor 1											Ť	, ,	\$	- F
HL Compressor 2			\$	15,000									\$	15,000 F
HL Compressor 3			<u> </u>	.0,000	\$	15,000	\$	15,000					\$	30,000 F
Main Plant Electrical					Ψ	10,000	ų.	10,000					_	1
Electrical/Lighting Upgrades	\$	10,000	\$	_									•	10,000
Power Factor Capacitors for Energy Management	\$	50,000											\$	50,000
													\$	35,000
Energy Monitoring and Management System - High Lift	\$	35,000											т	
Generator B Transfer Switch Automation													\$	- (
Disinfection Debuggith and the second													•	
Dehumidification													\$	
Chlorine Feed System													\$	
Ammonia Feed System							ļ						\$	<u>-</u> <u> </u> i
Scrubber System													\$	<u>-</u> r
SCADA /Communication/Security														
Security System Install	\$	60,000											\$	60,000 k
System upgrade and Maintenance		1,035,000		30,000		30,000		30,000		30,000		30,000		1,185,000
	\$	20,000	\$	20,000	\$	20,000	\$	50,000	\$	20,000	\$	20,000	\$	150,000 i
UWSS Wide Communication System Improvements	Ψ		Ψ		Ψ				Ψ	=0,000	Ψ		_ T	
UWSS Wide Communication System Improvements Monitoring Equipment	Ψ			20,000		20,000					*			

	Page 39 of 59
System upgraded 2015	
nspection and refurburbishme	ent needed
argar numna raguirad	
_arger pumps required requires upgrade	_
equires apgrade	
Fully upgraded in 2012	
new media/air scour in 2014;	new inlet gate needed
Fully upgraded in 2013	
new media/air scour in 2014;	new inlet gate needed
New Media in 2017	
new media in 2018 New Media in 2017	
new media in 2018	
New items to optimize backwa	ash process
New Filter meters for Filters 6	
Completed in 2016-2017	
Microstrainer No. 2 to be reme	oved
new actuator	
new in 1996 motor repairs 2018	_
Replaced 2013	
rebuilt 2006	
rebuilt 2007	
ebuilt 2008	
new pump 2013	
new in 1996, rebuilt 2015	
new in 1996	
<u>New pump needed in newer h</u> Jpside down valve/piping cor	nigh lift bay
	rosion protection
RSP #2 replacement	
Replacement	
Replacement	
Replacement	
Jpgrades for lighting in exterr	
Capacitors are failing. Upgra	des needed
Completed in 2014	
Completed in 2014	
nstalled new in 2002	
new acid pump installed in 20	09
, i	
Keyless entry security system	
New SCADA System in 2018/	/2019; maintenance after
	/2019; maintenance after nmunication system

Chlorine Analyzer Replacements	Φ	25 000				ı						ı	¢	25,000	14 new units needed Page 40 of 59
· ·	\$	25,000											ф Ф		The training risease
Blue Green Algae Monitoring Probe	\$	30,000											Þ	30,000	2 new units needed
Building Maintenance	-												œ.		
Facility Enhancements - General	+												\$		Doof Looking and North to be Dook
Maintenance Shop Roof Replacement	+				<u> </u>				-				Þ		Roof Leaking and Needs to be Replaced
Windows & Doors Replacement													\$		asbestos like material present in window caulking, portion to
Admin Building	\$	30,000											\$	30,000	
Laboratory Upgrade	\$	100,000											\$	100,000	Laboratory to be moved to old microstrainer room and
New Equipment															
Portable Backup Generator for Low Lift, Water Towers, Emergency													\$		Purchased in 2016
Cottam Reservoir & Booster PS															
Reservoir - 2 water mixers															repairs to isolation valves, and installation of 2 mixer pumps
													\$		Completed 2013
Booster Pump 1													\$	-	new in 1996
Booster Pump 2													\$	-	new in 1996
Booster Pump 3													\$		new in 1996
Booster Pump 4					\$	35,000							\$	35,000	new in 1996
Surge Tanks (2)													\$	-	Insurance inspected in 2009, needs internal inspection
Compressor					\$	15,000							\$	15,000	Replaced 2012
Reservoir Cover Regrading/Repairs	\$	60,000											\$	60,000	Started in Dec. 2018/to be completed in 2019
Rechlorination system upgrades	\$	30,000											\$	30,000	Rechlorination system is old and obsolete; needs upgrade
Cottam MCC PLC Upgrade	1												\$	-	Completed 2014
Distribution System															
Leamington Tower	1												\$	-	New Cathodic System installed in 2018
Albuna Tower							\$	250,000					\$	250,000	New Control Valve on 42inch for Albuna Control
Kingsville Tower	1		\$	1,100,000									\$	1,100,000	Safety Upgrades and Painting (2020)
Essex Tower				, ,	\$	30,000							\$	30,000	recoated and upgraded in 2018; new cathodic system 2020
Distribution System Maintenance	\$	75,000	\$	100,000	\$	100,000	\$	100,000					\$	375,000	New valves/actuators/etc.
Master Water Meter Replacement/Upgrades	\$	50,000	Ψ	100,000	Ψ	100,000	Ψ	100,000					\$	50,000	Meter 21; communication systems
Wastewater Treatment System	1 4	30,000											Ψ	30,000	Weter 21, communication systems
Wastewater Lagoon Upgrades	_								\$	100,000	\$	100,000	\$	200,000	Clay liner improvements
Residuals Management system (see new capital works)	+								Ψ	100,000	Ψ	100,000	\$	-	Glay infor improvements
residuals management system (see new capital works)	+												\$		
NEW CAPITAL WORKS			l										\$		
													\$	-	
CO2 pH Adjustment System Install	\$ 1	,550,000											\$	1,550,000	New CO2 based pH adjustment system/pretreatment
UV Disinfection - In-reservoir UV vault			\$	1,000,000	\$	4,500,000							\$	5,500,000	New UV Disinfection System.
Dry Scrubber - Chlorine Gas system upgraded	\$ 1	,550,000		•		·							\$	1,550,000	Chlorine Building Expansion and Dry Scrubber Install
Pre-Treatment/clarification upgrades (DAF) design		150,000	\$	2,000,000	\$	150,000	\$	2,000,000					\$	4,300,000	Conversion of Clarifiers No 1 and 2 to DAF
Residuals management Polymer system waste system upgrades	1	,		, -,	\$	500,000		, -,			\$	1,000,000			Residuals staging/ dewatering area and Polymer/thickening
					•	,					*	, : : : ; : : 0	\$	1,500,000	process for residuals
Admin Building upgrades, expansion and elevator									\$	100,000	\$	1,000,000	\$	1,100,000	Office Admin area expansion and new elevator
Replacement of 12-inch Cottam Water Main	1						\$	250,000	\$	6,000,000			\$	6,250,000	New 18-inch watermain to cottam
Cubtotal Capital and Major Major		10E 000	I	\$4.600.000	<u> </u>	¢570,000		\$055,000	<u> </u>	\$26E 000			•		
Subtotal Capital and Major Maintenance		485,000		\$1,620,000		\$570,000		\$955,000		\$265,000		\$1,710,000		7,605,000	
Total New Capital Works	3 \$3,	250,000		\$3,000,000		\$5,150,000		\$2,250,000		\$6,100,000		\$2,000,000	\$	21,750,000	
TOTAL CAPITAL	_ \$5 ,	735,000		\$4,620,000		\$5,720,000		\$3,205,000		\$6,365,000		\$3,710,000	\$	29,355,000	
													\$	-	
Subtotal Studies and Programs	s \$	140,000		\$310,000		\$210,000		\$185,000		\$185,000		\$185,000	\$	1,215,000	
Contingency		,		. ,		. , , 3		. ,		. ,		. ,	\$	_	
		75 000	ø	4.000.000	ø	E 020 000	ø	2 200 000	ø	6 EE0 000	ø	2 005 000	φ	20 F70 000	
TOTAL CAPITAL, STUDIES AND NEW CAPITAL	. \$ 5,8	5/5,000	\$	4,930,000	\$	5,930,000	*	3,390,000	*	6,550,000	\$	3,895,000	\$	30,570,000	

UW/04/19

Report

To: Chair and Members of the Union Water

Supply System Joint Board of Management

From: Rodney Bouchard, Union Water Manager

Date: January 11, 2019

Re: CO2 pH Adjustment/ Chlorine System Improvements Project Tender

Result



That the UWSS Board approves a budget of \$3,100,000 for the CO2 pH Adjustment/ Chlorine System Improvements Project to be funded from the UWSS Reserves Fund; and,

That the UWSS Board authorizes the UWSS General Manager to award the Tender for the <u>Union Water Supply System Ruthven Water Treatment Plant CO2 Injection and Chlorine Gas System Implementation Project</u> to Maple Reinders Constructors Limited in the amount of \$2,937,000 (\$2,437,000 plus a Contingency Allowance of \$500,000) not including HST.

Background:

In August 2017, UWSS retained Associated Engineers to complete preliminary Engineering and Design for a Carbon Dioxide Injection System for Raw Water pH Adjustment. A budget of \$125,000 was approved by the UWSS Board at the August 2, 2017 Board meeting to complete this work. At the July 18, 2018 UWSS Board meeting, the UWSS Board approved to undertake the Design, Engineering and Construction for Primary Chlorine Disinfection System Improvements. This design work was to be completed by Associated Engineering in conjunction with the CO2 pH adjustment system design work.

Discussion:

Associated Engineering completed the 90% design package for the project in October 2018. This was reviewed with UWSS and OCWA operations staff and approved for Tendering to pre-selected qualified contractors. Five contractors with experience in this type of work were contacted to ascertain their interest in the project. Three contractors

(Kingdom Construction, Kenaidan Contracting Ltd, and Maple Reinders Constructors) indicated their interest in tendering on the work.

Associated Engineering issued the tender on November 12, 2018. A mandatory site meeting was held at the UWSS Ruthven Water Treatment Plant on November 21, 2018. Two contractors, Kingdom Construction and Maple Reinders Constructors, attended the mandatory site meeting. The third interested contractor, Kenaidan Construction was disqualified from the tendering process due to not being present at the mandatory site meeting.

The initial tender closing date of December 7th, 2018 was extended to December 14th, 2018 due to the number of addendums that were issued to the tender. Two tenders were received from general contractors in response to the invitation-only Tender Call. Associated Engineering reviewed the received tenders to ensure accuracy and compliance with the issued tender documents. A summary of the reviewed Tenders is provided below:

Proponent	Reviewed Tender Price (including Contingency Allowance)	Proposed Contract Time (weeks)
Maple Reinders Constructors Ltd.	\$2,937,000.00	40
Kingdom Construction Ltd.	\$3,120,184.17	36

Based on a review of the tenders submitted, Associated Engineering provided a Contractor Award Recommendation in a letter to UWSS General Manager dated December 21, 2018. A copy of this letter is attached to this report. In their contractor award recommendation letter, Associated Engineering recommended award of the tender to Maple Reinders Constructors Ltd in the amount of \$2,937,000.00 (not including HST) comprising of a lump sum bid price of \$2,437,000.00 and a contingency allowance of \$500,000.00. In the letter, it is also noted that as per the tender Bid Form, payment of the Contingency Allowance or portions thereof will only be made for approved changes as per the General Conditions of the Bid Form. Any unused portion of the Contingency Allowance would be retained by UWSS.

Financial Implications:

The UWSS General Manager requests a budget of \$3,100,000 for the proposed works. This budget would accommodate the tender amount for construction services by Maple Reinders Construction, contract management, engineering and inspection services by Associated Engineering and any other incidentals. This budget would be funded from UWSS Reserves Funds.

Closing Comments:

Based on the results of the Tendering for CO2 pH Adjustment/ Chlorine System Improvements Project, it is recommended that the contract be awarded to the low bidder, Maple Reinders Constructors, in the amount of \$2,937,000.00 and that a budget of \$3,100,000 to be funded from UWSS Reserves be approved to accommodate this work.

Respectfully submitted,

A R. An

Rodney Bouchard, P. Geo., Manager

Union Water Supply System Joint Board of Management

rb/kmj

Filename: T:\Union Wtr\Reports to Board\2019\UW04-19 -CO2 pH Adjustment & Chlorine System Improvements Tender

Results.January 11, 2019.docx



Page 44 of 59 Associated Engineering (Ont.) Ltd. Suite 200, 165 Commerce Valley Drive West Markham, Ontario, Canada L3T 7V8

TEL: 416.622.9502 FAX: 416.622.6249 www.ae.ca

December 21, 2018 File: 20175156

Rodney R. Bouchard General Manager Union Water Supply System 1615 Union Ave., Box 340 Ruthven, Ontario NOP 2G0

Re: UNION WATER SUPPLY SYSTEM RUTHVEN WTP CO₂ INJECTION AND CL₂ GAS SYSTEMS IMPLEMENTATION - CONTRACTOR AWARD RECOMMENDATION

Dear Mr. Bouchard:

Two (2) Tenders were received from General Contractors in response to the subject invitation-only Tender Call. A summary of the reviewed Tenders (In Alphabetical order) is provided below:

Proponent	Tender Price Recorded at Tender Opening	Corrected Tender Price	Proposed Contract Time (weeks)
Kingdom Construction Ltd.	\$3,120,184.17	\$3,120,184.17	36
Maple Reinders Constructors Ltd.	\$2,937,000.00	\$2,937,000.00	40

A mathematical check of the Lump Sum Price Breakdown Form for each of the submitted Tenders was performed. No rounding or mathematical errors were found in either submission by the Proponents and the low price received is confirmed to be from Maple Reinders Constructors Ltd. as shown above.

Associated Engineering's pre-tender estimate included base scope items at a value of \$2,656,500.00 with a Contingency Allowance of \$500,000.00 for an estimated total lump sum bid price of \$3,156,500.00 (excluding H.S.T.). The pre-Tender estimate was 8% higher than the lowest received Tender Price. This is within the expected accuracy of +/- 10% for a pre-Tender estimate.

Upon review of Lump Sum Price Breakdown from both Proponents, it was observed that there was a significant price difference between Proponent's prices in Items #1, 5, 11, 13, 15 and 16. The differences of prices in these items may be attributed to the following:





December 21, 2018 Rodney R. Bouchard Union Water Supply System - 2 -

- Maple Reinders opted to carry Selectra as Electrical Subcontractor whereas Kingdom Construction opted to utilize its own Forces. This would account for Maple Reinders price difference in Items No. 13 and No. 16 when compared to Kingdom Construction.
- Maple Reinders distributed what accounts for the difference in price for Items No.11 through No. 16 to Item No.1 – General Requirements, Mobilization
- During the Tender Period, Significant additions were made to scope of work under Item No. 5, such as the addition of bollards, ladders and hatches.

The distribution of approximately \$400,000.00 from Items No.11 through No.16 to Item No.1 in Maple Reinders's bid would be a form of warranting a pro-rated cash flow distribution tied to schedule for the duration of the Contract. To mitigate any concerns of a loaded front end or back end payment by Union Water Supply System, the Contract Specifications constraint a maximum cost of 2.5% of the Total Contract Value charged for Mobilization and Demobilization activities.

The proposed Contract Time for both Tenders exceeds the 26-week time period provided in the Tender Documents. The difference from the estimated Contract Time and proposed Contract Time may be caused by the 20-week lead time for the CO_2 equipment and the effect of such on testing and commissioning of all equipment; additionally, the field investigation of existing utilities may contribute to the additional Contract Time to mitigate risk to existing infrastructure. As the implementation of the CO_2 and CI_2 system is not expected to reduce water production due to shut downs/integration, the Proposed Contract Time of 36-40 weeks is not expected to have a severe impact on the overall Project.

AE has reviewed the mandatory requirements and Supplement to Bid Forms submitted by all Bidders. Both Contractors have satisfactorily complied with Tender requirements in submitting the following:

- Bid Form Section 00410
- Bid Bond Section 00433
- Substitution List Section 00436
- Subcontract List Section 00437
- Lump Sum Price Breakdown Section 00438
- Force Account Rates Section 00439
- Bidder's Qualifications Section 00451
- Consent of Surety Company Section 00611

Kingdom Construction Ltd. however, did not submit a letter of intent from a Surety Company outlining their requirements under this Contract as outlined in Specification Section 00710 – Insurance.



December 21, 2018 Rodney R. Bouchard Union Water Supply System - 3 -

Based on the review of the tenders submitted by the above two (2) Proponents, Associated Engineering recommends that Union Water Supply System proceed with the award of the Tender to Maple Reinders Constructors Ltd. in the amount of \$3,318,810.00 (including H.S.T.) comprising of a lump sum bid price of \$2,437,000.00, a contingency allowance of \$500,000.00 plus H.S.T. of \$381,810.00 for a total project duration of 40 weeks. As noted in the tender Bid Form, payment of the Contingency Allowance or portions thereof will only be made in the event that Changes are implemented as provided for in the General Conditions. Any unused portion of the Contingency Allowance will be retained by the Owner.

thereof will only be made in the event that Changes are implemented as provided for in the General Conditions. Any unused portion of the Contingency Allowance will be retained by the Owner.
If you have any questions, please do not hesitate to contact the undersigned.
Yours truly,

Vincent Laplante, P. Eng. Project Manager

VL/cb

UW/05/19

To: Chair and Members of the Union Water Supply

System Joint Board of Management

From: Rodney Bouchard, Union Water Manager

Date: January 11, 2019

Re: Payments for the UWSS from November 16, 2018 to January 11, 2019



Aim:

To provide the Board with a copy of payments made by the Union Water Supply System from November 16, 2018 to January 11, 2019.

Recommendation:

A.R.A.

For information purposes.

Respectfully submitted,

Rodney Bouchard, Manager

Union Water Supply System Joint Board of Management

rb/kmj

Filename: T:\Union Wtr\Reports to Board\2019\UW05-19 Payments from Nov 2018 to January 11, 2019.docx

Council/Board Report By Dept-(Computer)



0011450 To PT00000163

Batch :

ΑII

Department :



AP5130 Date:

19-Nov-2018

Cheque Print Date:

Nov 30, 2018

To 30-Nov-2018

Bank: 07 To 08

Class:

Vendor

Vendor Name

Description Invoice

G.L. Account

CC2

CC3

GL Account Name

Batch Invc Date

628 19-Nov-2018

Invc Due Date

Amount

DEPARTMENT 0700

Union Water System

020120

BELL MOBILITY CELLULAR

51487718-NOV MONTHLY CELL PHONE CHARGES 70-5-0700-7110

002070 002083

Telecommunications Usage

620 01-Nov-2018 29-Nov-2018

68.16

030004

C3 WATER INC

29-Nov-2018

201810-288 70-5-0700-7989

WATER MODELING UPDATES 002075

Operational Programs & Studies

6,596.94

030410 E10166 **COLASANTI'S RESTAURANT**

NOV BOARD MEETING 70-5-0700-7052

002070

Meeting Expenses

628 21-Nov-2018 29-Nov-2018

40.30

140135

4635

NEVTRO SALES (2004) LTD

700052

MAIN WASH ONE - BACKWASH PUMP

Pumps

628 05-Nov-2018 29-Nov-2018

15,537.26

230089

WATSON & ASSOCIATES ECONOMISTS LTD

0024712 70-5-0700-7950

70-7-0700-8740

FINANCIAL PLAN 2018 002070

Professional Services

628 31-Oct-2018

29-Nov-2018

980.28

Department Totals:

23,222,94

Council/Board Report By Dept-(EFT)

Vendor:

0011450 To PT00000163

Batch : Department:

Vendor Code

Invoice No.

ΑII

Αtl



AP5130 Date:

Class:

Nov 30, 2018 age 49 of 59

EFT Paid Date:

19-Nov-2018

Batch Invc Date

To 30-Nov-2018

Bank: 07 To 08 All

Vendor Name

Description **G.L. Account**

CC1

CC2

CC3 **GL Account Name**

Invc Due Date

Amount

DEPARTMENT 0700

70-5-0700-7420

Union Water System

080250 HYDRO ONE NETWORKS INC

200141677460-I OCT HYDRO - RUTHVEN WATER TREATMENT PLANT

002073

Electricity

Electricity

Electricity

Electricity

Electricity

Electricity

Electricity

200141680692-(OCT HYDRO - LOW LIFT

70-5-0700-7420 002073

002073 70-5-0700-7420 200152134969-(OCT HYDRO - METER#17

70-5-0700-7420 70-5-0700-7420

70-5-0700-7420

70-5-0700-7420

70-5-0700-7410

210120

002073

002073

200208899066-(OCT/18 HDYRO - METER #16

002073 002073

UNION GAS LTD

1929770177678 408.673M3 GAS - COTTAM BOOSTER STN Gas 002073

21-Nov-2018 617 07-Nov-2018

61,163.83

21-Nov-2018 617 07-Nov-2018

> **-4**.16 32,730.35

617 07-Nov-2018 21-Nov-2018

619 14-Nov-2018

619 12-Nov-2018

-2,35 33,20

29-Nov-2018

-6.56 92.63

130.44

29-Nov-2018

Department Totals:

94.137.38

MUNICIPALITY OF LEAMINGTON AP5130 Page: 39 Council/Board Report By Dept-(Computer) Date: Dec 13, 2018 0011450 To PT00000163 Vendor: Cheque Print Date : 03-Dec-2018 То 13-Dec-2018 Batch : All Bank: 07 To 08 Department : Class: All Vendor **Vendor Name** Invoice Description **Batch Invc Date Invc Due Date** G.L. Account CC1 CC2 CC3 **GL Account Name** Amount DEPARTMENT 0700 Union Water System 010103 ASSOCIATED ENGINEERING (ONT) LTD 525024 SCADA UPGRADES - NOV9 13-Dec-2018 647 26-Nov-2018 2,375.94 70-7-0700-8780 SCADA System 525027 CO2 WATER PH ADJ. SYSTEM - NOV9 647 26-Nov-2018 13-Dec-2018 70-7-0700-8745 700200 Treatment Plant 24.237.71 030443 **CONTINENTAL CARBON GROUP INC** 2804 MEDIA REPLACEMENT - FILTER #6 & 8 647 10-Dec-2018 13-Dec-2018 70-7-0700-8730 700016 **Filters** 65,234.90 70-7-0700-8730 700018 **Filters** 65,234.90 050003 E.L.K. ENERGY INC 40010915-NOV 1039KWH - ESSEX WATER TOWER 643 01-Dec-2018 06-Dec-2018 002073 142.57 70-5-0700-7420 Electricity 70-5-0700-7420 002073 Electricity -10.09 40047150-NOV 107KWH - METER#9 643 01-Dec-2018 06-Dec-2018 70-5-0700-7420 002073 Electricity -2 23 70-5-0700-7420 002073 Electricity 31.51 51976611-NOV NOV/18 HYDRO - KINGSVILLE WATER TOWER 643 01-Dec-2018 06-Dec-2018 70-5-0700-7420 002073 Electricity -13.8670-5-0700-7420 002073 Electricity 195.85 90006300-NOV 12960KWH - COTTAM BOOSTER STATION 643 01-Dec-2018 06-Dec-2018 70-5-0700-7420 002073 Electricity 2,155.32 997507 JDC.CA INC 8911 FIBER OPTICS 643 31-Aug-2018 06-Dec-2018 5,840.73 70-7-0700-8775 Communication System **ONTARIO CLEAN WATER AGENCY** 150365 INV000108746 NOV/18 OPER & MTCE 647 30-Nov-2018 13-Dec-2018 70-5-0700-6720 002071 **OCWA Operating Contract** 227.203.56 INV000108801 EWT - MGMT FEES 647 04-Dec-2018 13-Dec-2018 70-7-0700-8705 **Essex Water Tower** 1,966.20 INV000108891 DEC/18 OPER&MTCE 647 01-Dec-2018 13-Dec-2018 70-5-0700-6720 002071 **OCWA Operating Contract** 227,203.56 **RICOH CANADA INC** 180325 SCO92196599 OCT4-NOV30 COPIER CONTRACT 647 30-Nov-2018 13-Dec-2018 70-5-0700-7010 002070 Office Supplies 96.72 190635 STANTEC CONSULTING LTD PROF. SERV. - DRAWINGS - NOV16 1330512 647 20-Nov-2018 13-Dec-2018 002070 **Professional Services** 263.61 70-5-0700-7950 WTP ADMIN. AREA - CONSULTANTS - NOV16 1330934 647 21-Nov-2018 13-Dec-2018 70-5-0700-7950 002070 1,474.85 **Professional Services** COTTAM BOOSTER STN - RESERVOIR COVER 647 22-Nov-2018 13-Dec-2018 1331285 70-7-0700-8725 700040 Cottam Booster Station 5.632.64 **SUMMA ENGINEERING LIMITED** 190751 PC#2 114297 PMT#2 SCADA UPGRADES 647 20-Nov-2018 13-Dec-2018

DEC-18 DEC/18 UNION WATER LOAN 3724:1 647 06-Dec-2018 13-Dec-2018 70-5-0700-6000 002020 006901 Debenture Principal 25,611.58 70-5-0700-6100 002010 006901 Debenture Interest age 50 of 59

18.421.03

SCADA System

SUN LIFE ASSURANCE COMPANY OF CANADA

70-7-0700-8780

190755

MUNICIPALITY OF LEAMINGTON AP5130 Page: 40 Council/Board Report By Dept-(Computer) Date: Dec 13, 2018 Vendor : 0011450 To PT00000163 Cheque Print Date: 03-Dec-2018 **To** 13-Dec-2018 Batch : ΑII Bank: 07 To 08 Department : Class: ΑII ΑII Vendor **Vendor Name Invc Due Date** Invoice Description **Batch Invc Date** G.L. Account CC1 CC2 CC3 **GL Account Name** Amount DEPARTMENT 0700 Union Water System

Department Totals:

MUNICIPALITY OF LEAMINGTON Council/Board Report By Dept-(EFT)

0011450 To PT00000163

All

200141683726-I NOV/18 HYDRO - METER#15

002073

002073

70-5-0700-7420

70-5-0700-7420

Vendor :

Batch :

AP5130 Date:

Page : 77

642 23-Nov-2018 06-Dec-2018

-2.40

33.91

EFT Paid Date: 03-Dec-2018 To 13-Dec-2018

Bank: 07 To 08

Department :	All		Class: All		
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DEPARTMENT	0700 Union Water	System			
030405	COLLABRIA				
CWWA NOV4-6 70-5-0700-7050	2018 WATER&WASTEWATER CO 002070	ONF. Conferences	639	13-Oct-2018	05-Dec-2018 1,006.03
HOTEL BONAVI 70-5-0700-7050	ROOM - CWWA CONF. 002070	Conferences	639	12-Nov-2018	05-Dec-2018 1,071.33
I-4530007181 70-5-0700-7030	CAR RENTAL - MEETING EXPEN 002070	ISES Travel & Mileage	639	17-Oct-2018	05-Dec-2018 63.66
MONTREAL TA: 70-5-0700-7050	TAXI - CWWA CONF. 002070	Conferences	639	11-Mar-2018	05-Dec-2018 49.20
STAPLES-00270 70-5-0700-7010	PRINTER CABLE 002070	Office Supplies	639	02-Nov-2018	05-Dec-2018 33.89
	TAXI - CWWA CONF. 002070	Conferences	639	03-Nov-2018	05-Dec-2018 11.45
	MEAL - CWWA CONF. 002070	Conferences	639	07-Nov-2018	05-Dec-2018 26.22
	PARKING - NOV3-7 - CWWA CON 002070		639	03-Dec-2018	05-Dec-2018 50.00
050195	ESSEX POWERLINES CORPO				
70-5-0700-7420 70-5-0700-7420	22KWH - METER#4 002073 002073	Electricity Electricity	642	22-Nov-2018	06-Dec-2018 -3.27 46.21
080250	HYDRO ONE NETWORKS INC				
200141677460- 70-5-0700-7420	NOV/18 HDYRO - RUTHVEN WT 002073	P Electricity	652	06-Dec-2018	13-Dec-2018 47,396.33
200141680692-l 70-5-0700-7420 70-5-0700-7420	NOV/18 HYDRO - LOW LIFT 002073 002073	Electricity Electricity	652	06-Dec-2018	13-Dec-2018 -4.65 24,369.59
200141680894- 70-5-0700-7420 70-5-0700-7420	NOV/18 HYDRO - LEAM. WATER 002073 002073	TOWER Electricity Electricity	642	29-Nov-2018	06-Dec-2018 -25.13 354.97
200141681706- 70-5-0700-7420 70-5-0700-7420	NOV/18 HYDRO - METER#2 002073 002073	Electricity Electricity	642	27-Nov-2018	06-Dec-2018 -2.80 40.01
200141682009-l 70-5-0700-7420 70-5-0700-7420	NOV/18 HYDRO - ALBUNA WATE 002073 002073	R TOWER Electricity Electricity	652	30-Nov-2018	13-Dec-2018 -15.60 220.21
200141683019-l 70-5-0700-7420 70-5-0700-7420	NOV/18 HYDRO - METER#3 002073 002073	Electricity Electricity	642	29-Nov-2018	06-Dec-2018 -2.57 36.41
200141683120-l 70-5-0700-7420 70-5-0700-7420	NOV/18 HYDRO - METER#5 002073 002073	Electricity Electricity	652	30-Nov-2018	13-Dec-2018 -2.72 38.42
200141683423- 70-5-0700-7420 70-5-0700-7420	NOV/18 HYDRO - METER#6 002073 002073	Electricity Electricity	642	29-Nov-2018	06-Dec-2018 -2.58 36.46
200141683524- 70-5-0700-7420 70-5-0700-7420	NOV/18 HYDRO - METER#8 002073 002073	Electricity Electricity	642	27-Nov-2018	06-Dec-2018 -2.49 35.56

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Electricity

Electricity

Council/Board Report By Dept-(EFT)

0011450 To PT00000163



AP5130 Date:

Page: 78

EFT Paid Date : 03-Dec-2018 To 13-Dec-2018

Bank: 07 To 08

Class: ΑII

Vendor Code **Vendor Name** Invoice No. Description

ΑII

ΑII

Vendor :

Batch : Department:

G.L. Account

70-5-0700-7420

70-5-0700-7420

70-5-0700-7420

70-5-0700-7420

DEPARTMENT 0700

200141687362-| NOV/18 HYDRO - METER#22

CC1

CC3 CC2

GL Account Name

Union Water System

Electricity Electricity

Electricity

Electricity

Electricity

Electricity

Electricity

Electricity

Electricity

Electricity

Operational Programs & Studies

Operational Programs & Studies

Operational Programs & Studies

Operational Programs & Studies

200141687766-I NOV/18 HYDRO - METER#29 002073 Electricity 002073 Electricity

200141687867-| NOV/18 HYDRO - METER#24 70-5-0700-7420 002073 002073

002073

002073

70-5-0700-7420 200141690190-| NOV/18 HYDRO - METER#26 70-5-0700-7420 002073

002073 70-5-0700-7420 200152134969-| NOV/18 HYDRO - METER#17 70-5-0700-7420 002073

002073 70-5-0700-7420 200220161473-| NOV/18 HYDRO - METER#14 70-5-0700-7420 002073

70-5-0700-7420 002073 SGS CANADA INC. ENVIRONMENTAL SERVICES 190185

WATER QUALITY STUDIES CORROSION-LAKESHORE 11202165 70-5-0700-7989 002075

WATER QUALITY STUDIES CORROSION-ESSEX 11202211 002075

70-5-0700-7989 11202234 WATER QUALITY STUDIES CORROSION-LEAMINGTON 70-5-0700-7989 002075

11202352 WATER QUALITY STUDIES CORROSION-UWSS 70-5-0700-7989 002075 **UNION GAS LTD** 210120

1929770208308 12563.865M3 GAS - WATER TREATMENT PLANT 70-5-0700-7410 002073

1929770217397 542.202M3 GAS - LOW LIFT 70-5-0700-7410 002073

Gas

Batch Invc Date

Invc Due Date

Amount

-2.28

32.61

-2.75

39.31

-2.28

32.59

36.37

642 27-Nov-2018 06-Dec-2018

642 27-Nov-2018 06-Dec-2018 642 27-Nov-2018 06-Dec-2018

642 26-Nov-2018 06-Dec-2018 -3.5850.48 652 06-Dec-2018 13-Dec-2018 -2.58

642 22-Nov-2018 06-Dec-2018 -2.48 35.00

647 29-Nov-2018 13-Dec-2018 98.31 647 29-Nov-2018 13-Dec-2018

98.31 647 29-Nov-2018 13-Dec-2018 98.31

29-Nov-2018 13-Dec-2018 1,143.56

642 21-Nov-2018 06-Dec-2018 3,265.99 642 23-Nov-2018 06-Dec-2018

Department Totals:

79,934.16

163.62

MUNICIPALITY OF LEAMINGTON Council/Board Report By Dept-(Computer)

0011450 To PT00000163

AP5130

Date: Dec 21, 2018 Page:

Cheque Print Date: 19-Dec-2018

To 21-Dec-2018

27

Bank: 07 To 08

Class: All

Vendor **Vendor Name**

Invoice Description

All

G.L. Account CC1

CC2

CC3

GL Account Name

SCADA System

Treatment Plant

Batch Invc Date

Invc Due Date Amount

DEPARTMENT 0700 Union Water System

ASSOCIATED ENGINEERING (ONT) LTD 010103

SCADA UPGRADES - DEC7

525064 70-7-0700-8780

020120

10045

Vendor:

Batch:

Department :

525068

CO2 PH ADJUSTMENT SYSTEM

70-7-0700-8745

700200

514877178-DE MONTHLY CELL PHONE CHARGES

70-5-0700-7110 002070 002083

997507

JDC.CA INC

KWT/EWT/V9/V26 COMMUNICATIONS UPGRADE

70-7-0700-8775

LOW LIFT COMMUNICATION UPGRADES 10047

70-7-0700-8775

230089

24784

70-5-0700-7950

WATSON & ASSOCIATES ECONOMISTS LTD

WATER RATE STUDY - FIN. PLAN OREG453/07 002070

BELL MOBILITY CELLULAR

Telecommunications Usage

Communication System

Communication System

Professional Services

670 11-Dec-2018 19-Dec-2018 2,375.94

670 11-Dec-2018 19-Dec-2018 9,681.84

19-Dec-2018

669 01-Dec-2018

670 30-Nov-2018

19-Dec-2018 5,256.66

670 30-Nov-2018 19-Dec-2018

384.37

21.96

670 30-Nov-2018 19-Dec-2018

Department Totals: 29,606.19

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MUNICIPALITY OF LEAMINGTON AP5130 Page: 3 Council/Board Report By Dept-(Manual) Date: Jan 11, 2019 Manual Paid Date: 02-Jan-2019 **To** 11-Jan-2019 Vendor : 0011450 To PT00000164 Batch : ΑII Bank: 07 To 08 Department : ΑII Class: ΑII Vendor **Vendor Name** Invoice No. Description **Invc Due Batch Invc Date** Date G.L. Account CC1 CC2 CC3 **GL Account Name** Amount DEPARTMENT 0700 Union Water System 090053 INNOVYZE 181259917 2019 INFOWATER RENEWAL 3 12-Dec-2018 04-Jan-2019 4,972.50 70-5-0700-7260 002070 002131 Software Licensing & Support

Department Total : 4,972.50

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Council/Board Report By Dept-(Computer)

Department :

Vendor:

Batch:

030458

0011450 To PT00000164 All



AP5130

Date:

Jan 11, 2019

Page:

Cheque Print Date: 02-Jan-2019 To 11-Jan-2019

Bank: 07 To 08

Class: All

Vendor **Vendor Name** Invoice Description G.L. Account CC1 CC2 CC3 **GL Account Name**

Batch Invc Date

Department Totals :

Amount

119,984.32

32

Invc Due Date

DEPARTMENT 0700 Union Water System

CORRPRO CANADA INC

020120 **BELL MOBILITY CELLULAR**

514877178-JAI MONTHLY CELL PHONE CHARGES

14 01-Jan-2019 10-Jan-2019

66.73 70-5-0700-7110 002070 002083 Telecommunications Usage

200348 CORPORATION OF THE TOWN OF KINGSVILLE

DEC-18 PERMIT - 1615 UNION AVE 691 21-Dec-2018 04-Jan-2019

70-7-0700-8745 700200 Treatment Plant 1,552.50

536231 **RECTIFIER - LEAM WATER TOWER** 699 27-Dec-2018 10-Jan-2019

70-7-0700-8715 Leamington Water Tower 3,180.95

050003 **E.L.K. ENERGY INC**

40010915-DEC 995KWH - ESSEX WATER TOWER 699 31-Dec-2018 10-Jan-2019

Electricity 70-5-0700-7420 002073 -12.17

70-5-0700-7420 002073 Electricity 171.97

40047150-DEC 126KWH - METER#9 699 31-Dec-2018 10-Jan-2019

70-5-0700-7420 002073 Electricity -2.71

70-5-0700-7420 002073 Electricity 38.26

51976611-DEC DEC/18 HYDRO - KINGSVILLE WATER TOWER 699 31-Dec-2018 10-Jan-2019 002073

70-5-0700-7420 -18.36 Electricity 70-5-0700-7420 002073 Electricity 259.46

90006300-DEC 16080KWH - COTTAM BOOSTER STATION 699 31-Dec-2018 10-Jan-2019 70-5-0700-7420 002073 Electricity 3,282.23

230698 **WONDERWARE CANADA EAST**

00418341 SOFTWARE - SCADA UPGRADES 699 31-Dec-2018 10-Jan-2019

70-7-0700-8780 SCADA System 111,465.46

All

Vendor :

Batch :

70-5-0700-7420

70-5-0700-7420

002073

002073

Council/Board Report By Dept-(EFT)

0011450 To PT00000164



AP5130 Date :

Page: 72

Jan 11, 2019

Page: 57 of 15

-4.41

62.20

EFT Paid Date: 02-Jan-2019 **To** 11-Jan-2019

Bank: 07 To 08

batch :	All				Dank :	07 10 00)		
Department :	All				Class:	All			
Vendor Code Invoice No. G.L. Account	Vendor Name Description CC1 CC2	CC3	GL Account Name			Batch	Invc Date	Invc Due Dat	te Amount
DEPARTMENT	0700	Union \	Vater System						
030405	COLLABRIA		·						
48075	AMCTO - MAFP - U	JNIT 2				5	12-Dec-2018	07-Jan-2019	
70-5-0700-7040		51111 2	Training			Ü	12 200 2010	07 0411 2010	406.80
CHUCKS-NOV1	I BUSINESS LUNCH	H - NOV1				692	16-Nov-2018	07-Jan-2019	
70-5-0700-7052			Meeting Exper	ises					16.76
ZEHRS-NOV21	SUPPLIES - MEET	ING NO	/21			692	21-Nov-2018	07-Jan-2019	
70-5-0700-7052	002070		Meeting Exper	ises					38.33
050160	ESRI CANADA L	IMITED							
90129227	2019 ESRI MTCE					2	30-Nov-2018	04-Jan-2019	
70-5-0700-7260	002070	002131	Software Licer	ising & Support					1,841.90
050195	ESSEX POWERI	LINES CO	PRPORATION						
220651-DEC18	34KWH - METER#	4				695	19-Dec-2018	10-Jan-2019	
70-5-0700-7420	002073		Electricity						-3.34
70-5-0700-7420	002073		Electricity						47.25
080250	HYDRO ONE NE	TWORK	SINC						
200141680894-	DEC/18 HYDRO -	LEAM WA	ATER TOWER			695	28-Dec-2018	10-Jan-2019	
70-5-0700-7420			Electricity						-33.89
70-5-0700-7420	002073		Electricity						478.67
	DEC/18 HYDRO - I	METE#2				695	27-Dec-2018	10-Jan-2019	
70-5-0700-7420			Electricity						-3.43
70-5-0700-7420			Electricity						48.44
200141682009- 70-5-0700-7420	DEC/18 HYDRO - / 002073	ALBUNA				695	31-Dec-2018	10-Jan-2019	-89.46
70-5-0700-7420 70-5-0700-7420			Electricity Electricity						1,263.69
	DEC/18 HYDRO -	METED#	•			605	28-Dec-2018	10-Jan-2019	1,200.00
70-5-0700-7420		IVIL I LIX#	Electricity			095	20-Dec-2010	10-3411-2019	-3.04
70-5-0700-7420			Electricity						42.92
200141683120-	DEC/18 HYDRO -	METER#	5			695	31-Dec-2018	10-Jan-2019	
70-5-0700-7420			Electricity						-3.12
70-5-0700-7420	002073		Electricity						44.09
200141683423-	DEC/18 HYDRO -	METER#	3			695	28-Dec-2018	10-Jan-2019	
70-5-0700-7420			Electricity						-3.02
70-5-0700-7420	002073		Electricity						42.60
	DEC/18 HYDRO - I	METER#				695	27-Dec-2018	10-Jan-2019	
70-5-0700-7420			Electricity						-3.05
70-5-0700-7420			Electricity						43.10
200141683726- 70-5-0700-7420	DEC/18 HYDRO - 1	METER#				695	21-Dec-2018	10-Jan-2019	0.00
70-5-0700-7420 70-5-0700-7420			Electricity Electricity						-2.69 38.03
	DEC/18 HYDRO -	METED#	•			605	27-Dec-2018	10-Jan-2019	00.00
70-5-0700-7420		IVIL I LI \# 2	Electricity			095	27-Dec-2010	10-3411-2019	-2.28
70-5-0700-7420			Electricity						32.15
	DEC/18 HYDRO - I	METER#	•			695	27-Dec-2018	10-Jan-2019	
70-5-0700-7420			Electricity			555		=0.0	-3.02
70-5-0700-7420	002073		Electricity						42.66
200141687867-	DEC/18 HYDRO -	METER#	24			695	27-Dec-2018	10-Jan-2019	
70-5-0700-7420			Electricity						-2.28
70-5-0700-7420	002073		Electricity						32.15
	DEC/18 HYDRO -	METER#			_	695	26-Dec-2018	10-Jan-2019	
70 5 0700 7420	002073		Flactricity	Dogo 57 of 50	()				_/ / / 1

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Electricity

Electricity

Council/Board Report By Dept-(EFT)

0011450 To PT00000164



AP5130 Date:

Page: 73

EFT Paid Date : 02-Jan-2019 **To** 11-Jan-2019

07 To 08 Bank:

Class: ΑII

Vendor Code **Vendor Name** Invoice No.

ΑII

ΑII

Vendor :

Batch :

Department:

G.L. Account

70-5-0700-7420

70-5-0700-7950

160530

210120

Description

CC1 CC3 CC2

GL Account Name

Union Water System

Batch Invc Date

Invc Due Date Amount

DEPARTMENT 0700 200220161473-I DEC/18 HYDRO - METER#14 70-5-0700-7420

002073 Electricity 002073 Electricity

PRICEWATERHOUSE COOPERS LLP TR139100413 RESTRUCTURING CONSULTANT - DEC/18

002070 **Professional Services**

190185 SGS CANADA INC. ENVIRONMENTAL SERVICES 11209253 WATER QUALITY STUDIES CORROSION-LEAMINGTON

70-5-0700-7989 002075 Operational Programs & Studies 11209259 WATER QUALITY STUDIES CORROSION-ESSEX

70-5-0700-7989 002075 Operational Programs & Studies 11209274 WATER QUALITY STUDIES CORROSION-LAKESHORE

70-5-0700-7989 002075 Operational Programs & Studies 11209276 WATER QUALITY STUDIES CORROSION-KINGSVILLE 002075 Operational Programs & Studies

70-5-0700-7989 11209304 WATER QUALITY STUDIES CORROSION-UWSS 70-5-0700-7989 002075 Operational Programs & Studies

UNION GAS LTD 1929770208308 16181.377M3 GAS - RUTHVEN WATER TREATMENT PLANT

70-5-0700-7410 002073 1929770217397 1762.161M3 GAS - LOW LIFT

70-5-0700-7410 002073 Gas

695 20-Dec-2018 10-Jan-2019

-2.5836.45

695 31-Dec-2018 10-Jan-2019

9,459.38

695 27-Dec-2018 10-Jan-2019 98.31 695 27-Dec-2018 10-Jan-2019

98.31 695 27-Dec-2018 10-Jan-2019 98.31

695 27-Dec-2018 10-Jan-2019 196.62 695 27-Dec-2018 10-Jan-2019

621.50 695 19-Dec-2018 10-Jan-2019

4,157.91 10-Jan-2019 695 21-Dec-2018

471.88 **Department Totals:**

Page 58 of 59

MUNICIPALITY OF LEAMINGTON Council/Board Report By Dept-(EFT)

0011450 To PT00000163



AP5130 Date:

Page: 66

EFT Paid Date: 19-Dec-2018 To 21-Dec-2018

07 To 08 Bank: Class: ΑII

Department : Vendor Code Invoice No.

G.L. Account

Vendor :

Batch :

Vendor Name

ΑII

ΑII

Description

CC1 CC3 CC2

GL Account Name

Batch Invc Date

Invc Due Date Amount

DEPARTMENT 0700

Union Water System

ESSEX-WINDSOR SOLID WASTE AUTHORITY

27305 - 5030 O(RESIDUAL MGMT 2018 LANDFILL FEES

70-5-0700-8133 002074 Residuals Ponds Maintenance

667 31-Oct-2018 20-Dec-2018

667 12-Dec-2018 20-Dec-2018

20,052.40

080250

050230

HYDRO ONE NETWORKS INC

200208899066-I NOV/18 HYDRO - METER#16

002073 Electricity 002073 Electricity

-9.44 133.31

160530 PRICEWATERHOUSE COOPERS LLP

TR138197709 RESTRUCTURING CONSULTANT - FINANCIAL **Professional Services**

70-5-0700-7950 002070 667 06-Dec-2018 20-Dec-2018

14,599.88

210120

70-5-0700-7420

70-5-0700-7420

UNION GAS LTD

1929770177678 919.264M3 GAS - COTTAM BOOSTER STATION

70-5-0700-7410 002073 667 10-Dec-2018 20-Dec-2018

258.58

Department Totals:

35,034.73