THE UNION WATER SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT AGENDA

WEDNESDAY, DECEMBER 20, 2017 COMMENCING AT 9:00 AM IN THE COMMUNITY ROOM - KINGSVILLE ARENA

- (A) Call to Order:
- (B) Disclosures of Pecuniary Interest:
- (C) Adoption of Minutes:

Minutes of the meeting of the Union Water Supply System Joint Board of Management Meeting held Wednesday, October 18, 2017 Pages 3 - 6

- (D) Business Arising Out of the Minutes:
- (E) Items for Consideration:
 - UW/31/17 dated December 15, 2017 re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to December 15, 2017 Pages 7 - 9
 - 2. UW/32/17 dated December 8, 2017 re: Proposed 2018 UWSS Operations and Capital Budget

Pages 10 - 23 - Draft Proposed 2018 UWSS Operations and Capital Budget Report Pages 24 - 28 - 2018 UWSS Draft Operations & Capital Budget Tables and Details Pages 29 - 32 - UWSS 6 year Capital Plan Tables and Details

- Dates for Union Water Supply System Joint Board of Management 2018
 For information
 Page 33
- UW/33/17 dated December 15, 2017 re: Payments from October 13 to December 15, 2017 Pages 34 - 41

- (F) New Business:
- (G) Adjournment:
- (H) Date of Next Meeting: January 17, 2018 at 9:00 am in the Kingsville Community Room of the Kingsville Arena

/_{kmj}

THE UNION WATER SUPPLY SYSTEM

JOINT BOARD OF MANAGEMENT

MINUTES OF MEETING

HELD OCTOBER 18, 2017 AT 9 AM IN KINGSVILLE COMMUNITY ROOM – KINGSVILLE ARENA

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

Dunn, Hammond, Jacobs, Verbeke – Leamington

Mayor Nelson Santos (Vice-Chair); Councillors Gaffan, Neufeld,

Patterson – Kingsville Mayor McDermott – Essex Councillor Diemer – Lakeshore

UWSS Staff: Rodney Bouchard, Manager, Union Water Supply System

Khristine Johnson, Recording Secretary

Municipal

Staff Present: Shannon Belleau - Leamington

OCWA Staff

Present: Ken Penney, Susan Budden

Call to Order: 9:03 am

Disclosures of Pecuniary Interest: none

Adoption of Council Minutes:

No. UW-52-17

Moved by: Mayor Paterson

Seconded by: Councillor Patterson

That Minutes of the UWSS Joint Board of Management meeting of September 20, 2017 is received.

Carried

Business Arising Out of the Minutes:

There was none.

Reports and Correspondence

Report UW/28/17 dated October 13, 2017 Status Update of the UWSS Operations & Maintenance Activities and Capital Works to September 13, 2017

The Manager explains to the members of the Board that a new Low Lift Pump #2 has been received. The old pump has been removed and the new pump will be installed next week. He hopes to salvage or recycle the old pump and anticipates that the new pump will provide 20 years of service.

He then discusses several billing meters; Meter #8 has been removed and replaced with a magnetic flow meter, while Meter #27 is scheduled for closer to the end of October for replacement. He anticipates that once all of the meter replacements are complete UWSS will have communication capabilities for all of its meters.

The Manager reminds members of his statement last month regarding the change of coagulant from DelPAC 2020 to Hyperion 1090. He indicates that this change is still in place and this has allowed for the reduction of the aluminum residual. He feels that this process will remain in place until cooler waters prevail in Lake Erie. Once the waters cool UWSS will switch back to its regular coagulant of DelPAC 2020 as it works best in cooler water.

The Manager then reports on an Adverse Water Quality Incident (AWQI) of October 10^{th.} He notes that a coagulant pump malfunctioned and was off for approximately one hour. However, as per regulations coagulant pumps are to run continuously. The Manager notes that a new, mechanically inexperienced operator was working that weekend. The proper alarms sounded and alerted the operator, but other staff had to be called in to make the pump change and this accounted for the time the pump was off. He also confirms that there were no adverse effects to the water quality from this incident. Finally, he confirms that the MOECC has been informed of this incident.

The SCADA system upgrade Request for Proposals (RFP) draft documents have been received and the actual RFP document will be released this Friday. This release will be inviting four (4) or five (5) firms (that have been pre-qualified) to submit their offers. The Manager will be reporting back to the Board once all information is received. He reminds members that there is a budget of \$1.2 million, however the submittals could come in higher or lower. He is not sure where the submittals will come in as this is very specialized work. The RFPs will remain open for approximately one month.

The Manager then reports on updates on the restructuring of the UWSS. He reminds members of last month's meeting with Tom Garner and reports that since then a few things have been achieved in terms of progress. He confirms that a draft financial proposal has been received but a review has not been completed. He also confirms that he has since met with the legal team and they are revising their report that had been prepared in June of 2015. He also states that he met with all four (4) CAOs earlier this week to discuss the UWSS restructuring and while there was some hesitation, due to misinformation, he is hopeful that all members will be satisfied once they receive and

review all of the expert reports. The Manager notes that UWSS can become incorporated immediately leaving everything exactly as it is and work out any policies and such at a later date.

The Manager reported on the flows, noting that they are just above the four (4) year average and still above the budget for the year, so he feels UWSS is in good shape.

There was a brief discussion regarding the new pumps that were put in at the Low Lift and the Coagulant pump that had to be changed out. The Manager explains all of the reasons for making these changes.

No. UW-53-17

Moved by: Councillor Jacobs

Seconded by: Councillor Verbeke

That report UW/28/17 dated October 13, 2017 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to October 13, 2017 is received.

Carried (UW/28/17))

Report UW/29/17 dated October 12, 2017 re: CDWI Report for Ontario 2016-2017 and Minister's Annual Report on Drinking Water 2016

The Manager reviews this yearly report, noting that the Chief Drinking Water Inspector's Report is out earlier than usual. He further explains that this is a report that provides a report card on municipal drinking water system, and contained within the report is information on all four (4) municipalities and their testing results. He confirms that over the years of this report municipalities in general are improving their testing results and the same can be said for the four (4) partner municipalities.

The Manager then explains that the Minister's report for 2016 is more a recap on drinking water systems performances over the last year. He confirms that both reports are available through Union Water's website and links were provided to all members.

The Board asks the Manager if there should be some form of press release regarding the good news that UWSS's municipalities have continually improved and continually met that testing standards. The Manager indicates that the information is posted on the UWSS website.

No. UW-54-17

Moved by: Councillor Dun

Seconded by: Mayor Santos

That report UW/29/17 dated October 12, 2017 re: CDWI Report for Ontario 2016-2017 and Minister's Annual Report on Drinking Water 2016 is received.

Page 4

Report UW/30/17 dated October 13, 2017 re: Payments from September 15 to October 13, 2017

There is a brief discussion regarding the cost of electricity. The Manager explains that UWSS has been working hard to reduce electrical costs. There was then a general discussion regarding industrial class of electricity use in Ontario and how to save money. He notes that Co-Generation is still an option and does plan on reporting to the board at some point on a potential project, perhaps once the potential UV system is in place.

No. UW-55-17

Moved by: Councillor Neufeld

Seconded by: Councillor Hammond

That the report UW/30/17 dated October 13, 2017 re: Payments from September 15 to October 13, 2017 is received.

Carried (UW/30/17)

Adjournment

No. UW-56-17

Moved by: Mayor McDermott

Seconded by: Councillor Diemer

That the meeting adjourn at 9:26 am.

Carried

Date of Next Meeting: Wednesday, November 15, 2017 Kingsville Community Room, Kingsville Arena

/kmj

UW/31/17

To: Chair and Members of the Union Water Supply

System Joint Board of Management

From: Rodney Bouchard, Union Water Manager

Date: December 15, 2017

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

Works to December 15, 2017



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 October 18th, 2017.

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:

- Regular Maintenance on all process equipment and analyzers continue to be completed through OCWA's Workplace Maintenance Management System.
- The new Low lift pump #2 purchased from ASL Roteq has been installed. However, a vibration was noted recently during operation of the pump. ASL Roteq will send an engineer in early January 2018 to evaluate the vibration source and complete any necessary adjustments and/or repairs.
- 3. As of December 1st, 2017, master meter #27 was upgraded to a new state of the art magnetic flow meter.
- 4. On November 6th, 2017 water treatment plant operations ceased using Hyperion 1090 as the temporary coagulant and returned to DelPAC 2020 as the primary coagulant. This change was enabled due to the decrease in raw temperature and pH. The plant effluent aluminum residual has remained below the objective guidelines since the coagulant change.
- 5. The Microstrainer #1 decommissioning and floor enclosure has been completed.
- 6. Annual maintenance on Clarifiers#1, #2 and #4 was completed in November 2017. Clarifier #2 needed a new blow off valve actuator and a new sump pump installed. These repairs have been completed.

Re: UW/31/17 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to December 15, 2017

- 7. Security cameras have been installed at the Albuna Water tower due to an attempted break in at the water tower during the November 11-12, 2017 weekend. This water tower is in a fenced but remote area or the Windsor Essex Solid Waste Authority property on County Rd 31. Unauthorized entry into this tower is dangerous as people could try and climb the internal ladder without safety equipment. These cameras will be monitored 24 hrs by operational staff at the plant.
- 8. MOE Inspection reports were received in October 2017 for Kingsville and Leamington. Leamington received a 100% rating and Kingsville received a 97.52 % rating.
- 9. Annual maintenance on the filters was started at the beginning of December 2017 and will be completed in January 2018.
- 10. The Request for Proposal Document (RFP) for SCADA System Upgrade closed on December 13th, 2017. Proposals were received at the Associated Engineering office in Markham, Ontario. The proposals are currently being reviewed and evaluated by a team that consists of UWSS, OCWA (Union) and Associated Engineering representatives.
- 11. The Associated Engineering Preliminary Design report for the CO2 raw water pH adjustment system dated October 6th, 2017 was reviewed and revised in an updated report dated November 24th, 2017. UWSS and OCWA (Union) operations staff are currently reviewing and evaluating the options presented in the Nov 24th report. The construction of a CO2 pH raw water adjustment system has been included in the proposed 2018 UWSS Capital Budget with a proposed budget of \$950,000. A more detailed report on the CO2 pH adjustment system will be provided to the Board once the detailed review of AE report is completed.

Comparative Flows for 2013 through 2017 in Millions of Imperial Gallons (for the period 1 January to December 14. 2017)

	2013	2014	2015	2016	2017
Flow to Date (MG)	3038.47	3161.14	3077.20	3284.15	3256.66
Max Day (MGD)	15.30	15.70	15.36	16.75	16.62
Min Day (MGD)	4.65	4.19	3.79	4.29	4.56
Average Day (MGD)	8.73	9.08	8.84	9.41	9.36
No of Days	348	348	348	349	348

Flows to date are down 27.49 MIG or 0.83% from last year. The 2017 flows to date are up 3.71% over the previous 4 year average

3

UW/31/17 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to December 15, 2017

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

rb/kmj

Re:

Filename: t:\union wtr\reports to board\2017\uw31-17 operations report for december 2017.revised.docx

"DRAFT" UW/32/17

TO: Chair and Members of the Union Water Supply System

Joint Board of Management

FROM: Rodney Bouchard, Union Water Manager

DATE: December 8th, 2017

RE: Proposed 2018 UWSS Operations and Capital Budget Report



RECOMMENDATION

That the Union Water Supply System Joint Board of Management (UWSS Board) adopts the Draft 2018 Operational and Capital Budget for the Union Water Supply System;

And further, that the UWSS Board endorses an increase of \$0.05 per thousand gallons (\$0.0109 per cubic metre) for UWSS wholesale Rate 1 from \$2.72 per thousand gallons (\$0.5978 per cubic metre) to \$2.77 per thousand gallons (\$0.6088 per cubic metre) to be put into effect on April 1, 2018.

REPORT HIGHLIGHTS

- Potable water demand from UWSS is anticipated to be approximately 3,300,000,000 imperial gallons (15,015,000 m3) for 2018. This is roughly based on the average annual demand for the previous 4 years.
- UWSS Revenue for 2018 is estimated at \$9,378,000. This includes estimated wholesale rate revenue of \$9,004,000, investment income of \$350,000 and sundry revenue of \$24,000.
- Operational and Debt Service Expenditures for 2018 are estimated at \$7,452,000. This includes \$5,139,000 for Operational Expenses and \$2,313,000 for Debt Service.
- 2018 Revenue versus Operational and Debt Service Expenditures are anticipated to result in a surplus of approximately \$1,926,000 for 2018 Fiscal Year;
- A Capital Program of \$3,905,000 is proposed for 2018. This includes large expenditures for Essex Water Re-coating (\$1,025,000) and complete upgrade of SCADA system (\$1,220,000) that were initially approved for 2017 UWSS capital budget but were delayed to 2018 for various reasons. The capital budget also includes a proposed \$950,000 budget for construction and implementation of a CO2 gas based raw water pH adjustment system.
- The proposed Capital Program for 2018 will result in a budgeted <u>net deficit</u> of \$1,979,000 for 2018 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 \$2.77 per 1000 gallons (\$0.6088/m3) to take effect on April 1, 2018.

2

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 2017.

This proposed budget is being presented to the UWSS board for consideration. The proposed 2018 budget is outlined to provide details in regards to the following:

- Anticipated revenue for 2018 from wholesale of water to the partner municipalities;
- Anticipated operating expenditures for 2018 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 2018 for UWSS;
- Forecasted Operational Expenditures and Capital Works program for 2018-2023.

DISCUSSION:

The Proposed 2018 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;
- The large proposed capital budget for 2018 that includes projects with large expenditures such as the construction and implementation of a carbon dioxide gas (CO2) based raw water pH adjustment system, and large projects that were initially approved and planned for 2017 (i.e. Essex Water Tower re-coating project and Upgrades to the SCADA System) but were delayed for various reasons.

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 2018. The total projected expenditures for 2018 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, Residuals Ponds Maintenance, Carbon Dioxide (for proposed raw water pH adjustment system) and Debt Service. The total estimated fixed expenditures budget for 2018 is \$7,242,491. The fixed expenditures consist of the following components:

OCWA Operations Budget:	\$2,876,500
UWSS Administrative Budget:	\$ 502,250
Electricity and Natural Gas:	\$1,250,000
Residuals Pond Maintenance:	\$ 150,000
Carbon Dioxide (CO2):	\$ 150,000
Total Operations, Administrative, Energy:	\$4,928,750

Debt Service:

Sunlife Debt (MFP Debt):	\$2,313,441
Woodslee Credit Union Loan:	\$0
OSIFA (municipal debentures):	\$0
Leamington Debt Repayment:	\$0
Total Debt Service:	\$2,313,441

Programs and Studies

Total Fixed Costs:

A number of Programs and Studies are included in the 2018 Budget. These studies are designed to achieve one of the following goals:

\$7,242,191

- 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 issues in larger distribution systems, etc.

For the 2018 budget year, \$210,000 has been allocated to Programs and Studies. The following studies are proposed or currently in place:

<u>Water Demand/Loss:</u> This work is being conducted with assistance from various partners (OCWA, Universities, Consultants, local municipalities) to evaluate water demand/usage from residential, commercial, industrial and agrifood sectors and to assess water loss throughout the extended distribution system. The data will be used to refine the UWSS' Master Plan and the UWSS hydraulic water model, and to help plan future water transmission/distribution main works.

A budget of \$100,000 is being proposed in the 2018 UWSS Budget for this work.

<u>Water Quality Investigations:</u> This work included a continuation of a partnership with Canadian Water Network for work associated with the assessment and evaluation of source water related impacts to the UWSS drinking water system. It also includes collection and evaluation of water quality data from UWSS to help support research of toxic algae effects on drinking water through studies with University of Toronto and University of Montreal.

A budget of \$35,000 is being proposed in the 2018 UWSS Budget for this work

Operations Contract Assessment For the 2018 Budget year, \$25,000 is being proposed for evaluation of the existing operations contract between UWSS and OCWA that is scheduled to end on December 31st, 2018. The assessment will focus on what works with the existing contract and identify areas of improvement. This assessment would also include a cursory evaluation of alternatives to the existing contracting arrangement for UWSS operations.

<u>Dechlorination System Evaluation and Preliminary Engineering:</u> As part of the UWSS Municipal Drinking Water License (MDWL) and Drinking Water Works Permit (DWWP) renewal that was completed in 2017, the UWSS is required to ensure that all water treatment process water discharged to the environment is free of chlorine. Currently, a manual system that includes dechlorination "pucks" are used to dechlorinate residuals pond water that eventually discharges to Lake Erie

via discharge pipe. The purpose of this evaluation is to identify a more permanent process to dechlorinate residuals pond discharge water.

A budget of \$50,000 is proposed in the 2018 budget to complete this work.

Operating Expenditure Summary

Fixed Expenditures: \$7,242,191 Programs and Studies: \$ 210,000 \$7,452,191 Total Operating Expenditures for 2017:

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. estimated revenue for 2018 is \$9,378,200

Wholesale Water Revenue Summary

Wholesale water revenue is based on annual water usage by the 4 owner municipalities and the wholesale water rates. This also includes wholesale water revenue to Highbury CanCo, which started operations in late June 2014 at the former HJ Heinz Plant facility in Leamington, Ontario.

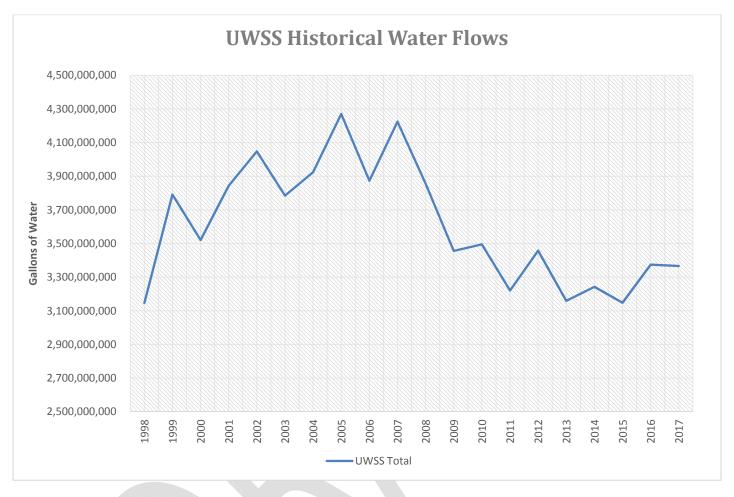
Water Usage

The projected water "usage" by municipal owners for 2018 is 3,300,000,000 imperial gallons (15,015,000 m3) of potable water. This usage estimate is based on the average water demand for the 4 previous years.

Figure 1 depicts the total UWSS water usage trend from 1998-2017.

Figure 2 depicts the water usage trend by each municipal partner from 1998-2017.

Figure 1



Wholesale Water Rates

For the 2018 budgeting process, it is proposed that an increase of \$0.05 per 1000 gallon (\$0.0109/m3) be applied to the UWSS wholesale rate and to the rate provided to Highbury Canco. This would result in a 2018 UWSS wholesale rate of \$2.77 per 1000 gallons (\$0.6088/m3) and Highbury Canco preferred rate of \$2.05 per 1000 gallons (\$0.4505/m3). It is proposed that the increase for these rates be applied at the start of the 2nd quarter 2018, thus on April 1, 2018.

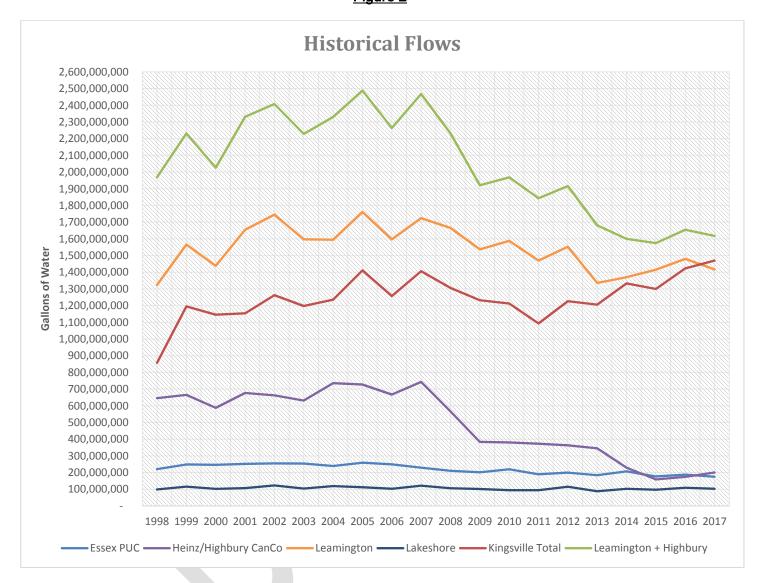
The following provides 2018 estimates for water rate revenue:

Municipal wholesale: 3,110,000,000 lmp. Gals @ \$2.77/1000 gals = \$8,617,700

Highbury Canco: 190,000,000 Imp Gals @ \$2.00/1000 gals = \$389,500

Total Water Rate Revenue Total: \$9,004,200

Figure 2



Miscellaneous Revenue

Miscellaneous revenue includes income from investments and sundry income.

Investment (interest) income: \$ 350,000 Sundry revenue: \$ 24,000 Total Misc. Revenue: \$ 374,000 Sundry revenue is revenue received from various sources such as lease of space on water towers for telecommunications equipment. The estimated sundry revenue for 2018 is \$24,000 and is roughly based on 2017 revenue.

Revenue Summary

Wholesale Rate Revenue: \$9,004,200

Miscellaneous Revenue : \$ 374,000

Total Estimated Revenue for 2018: \$9,378,200

REVENUE VERSUS OPERATING EXPENDITURES

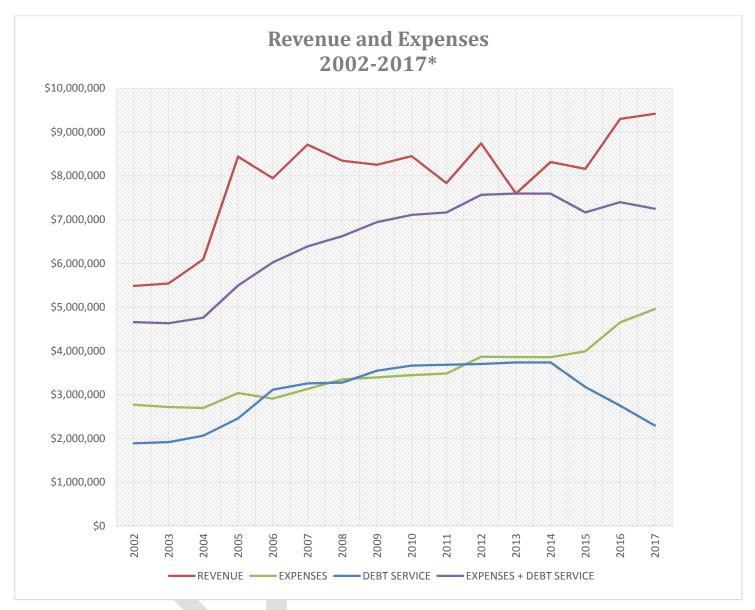
A comparison of Revenue versus Expenditures for 2018 budget is as follows. It should be noted that the total estimated expenditures also include the proposed budget for operational Programs and Studies of \$210,000.

Total Estimated Revenue: \$9,378,200

Total Estimated Expenditures: \$7,452,191

Surplus/(Deficit): \$1,926,009

Figure 3



CAPITAL PROGRAM

The proposed Capital Program for 2018 is budgeted at \$3,905,000. This includes major Capital Equipment Purchases (e.g. vehicles, heavy equipment) and major Capital Works.

\$3,905,000

Capital Works:

The following major capital works projects are proposed for 2018:

SCADA System Upgrade - New SCADA System:	\$1	,220,000
Essex Water Tower Re-Coating:	\$1	,025,000
CO2 Raw Water pH Adjustment System:	\$	950,000
Filter Media Replacement - Filters #6 & #8:	\$	140,000
Distribution System Maintenance:	\$	100,000
High Lift Pump #7 Install:	\$	85,000
Master Water Meter Communication System:	\$	50,000
Laboratory Upgrades:	\$	50,000
Security System Install:	\$	45,000
Turbidity Meters for Filter Backwash:	\$	45,000
Low Lift Pump #1 Major Maintenance:	\$	35,000
Maintenance Shop Roof:	\$	30,000
Lighting Upgrades:	\$	30,000
Microstrainer #2 Floor:	\$	30,000
Kitchen Upgrades:	\$	25,000
Blue-Green Algae Chlorophyll Instrument - Low Lift	\$	25,000
Cathodic Protection System - Leamington Tower:	\$	20,000

BUDGET SUMMARY

The proposed 2018 budget is summarized as follows:

Total Capital Works for 2018:

Total Estimated Revenue: (includes wholesale rate revenue and miscellaneous revenue)	\$3,004,200
Total Estimated Operating Expenditures: (includes Operations Contract, UWSS Admin, Programs & Studies)	(\$7,452,191)
Revenue versus Operating Expenditures: Surplus/ (Deficit)	\$1,926,009

December 8, 2017 - UW/32/17

Re: Proposed 2018 UWSS Operations and Capital Budget

Capital Capital	Program: (inclu Works)	<u>(\$3,905,000)</u>		
NET surplus	SURPLUS/ /deficit less Cap	` '	(Operating	(\$1,978,991)

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.

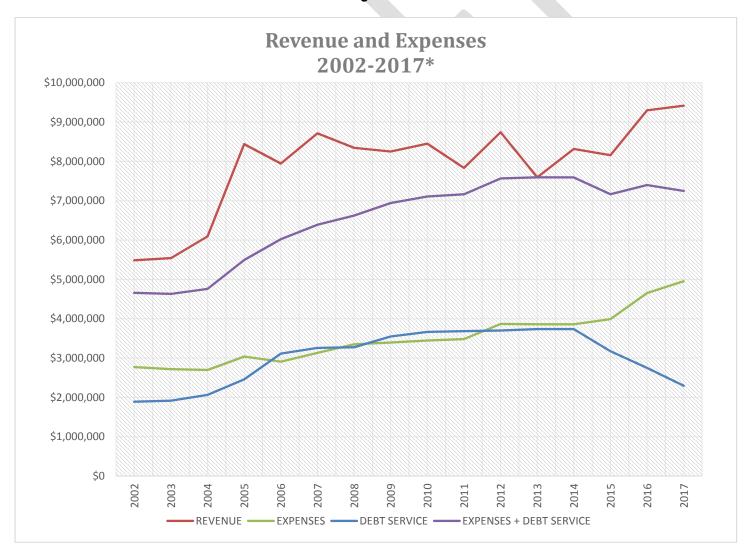


Figure 4

CASH /RESERVES VERSUS DEBT

Cash and Reserves for UWSS for fiscal year-end 2017 are forecasted to be approximately \$18,500,000. It should be noted that of the estimated \$18,500,000 in available cash and reserves, \$10,000,000 is currently invested in a GIC until April 2022. Thus, approximately \$8,500,000 in cash and reserves are available for use to fund UWSS operations and capital works.

The 2018 Operating and Capital Budget projects a Net Deficit of (\$1,978,991) for 2018 year end. Thus, it is anticipated that UWSS cash and equivalents at the end of 2018 will decrease to approximately \$6,500,000.

Based on debt repayment schedules, the total UWSS long term debt balance as of January 2018 is \$13,756,544 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 2017-2020 are projected based on anticipated Revenues, Expenditures, and proposed Capital Works and are subject to significant changes.

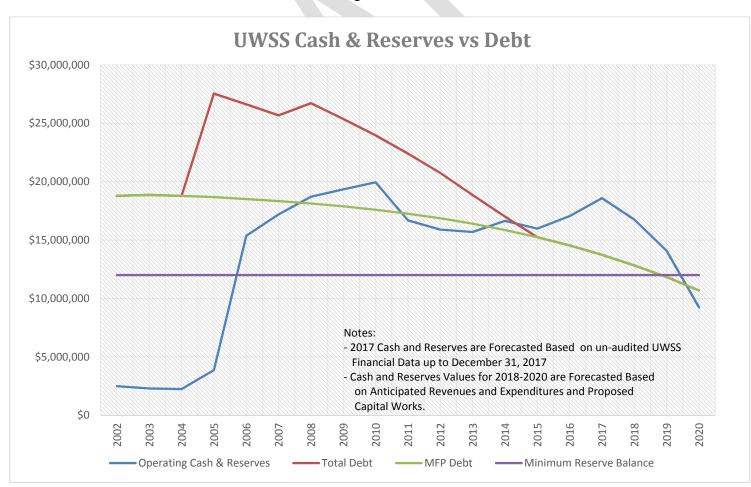


Figure 5

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 (2018-2023) for the UWSS. This Plan reflects the UWSS 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:

Year		Proposed Capital Works	Estimated Cost
2019	- Clarifier F	Retrofit to Dissolved Air Floatation (DAF)	\$2,000,000
	- Chlorine (Gas System Retrofit with Dry Scrubber	\$1,000,000
	- Kingsville	Tower Re-coating	\$1,100,000
2020	- UV Disinf	ection System in Primary Reservoir	\$5,500,000
2021	- Second C	Clarifier Retrofit to DAF	\$2,000,000
	- Residuals	s Management System Upgrades	\$1,750,000
2022	- Replacem	nent of 12-inch watermain to Cottam Booster	\$6,000,000

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.

CONCLUSIONS:

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,

Al R. An

Rodney Bouchard, General Manager

Union Water Supply System Joint Board of Management

rb/kmj

Filename:

t:\union wtr\reports to board\2017\uw32-17 draft 2018 uwss operations and capital budget report.nov 14

2017.docx

2018 UWSS DRAFT OPERATIONS AND CAPITAL BUDGET **TABLES AND DETAILS**

UNION WATER SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT 2018 Draft Budget Flows and Revenue

	2017	2017	2017	2017	2018	2019	2020
Flow Metering Location	Approved Budget	As of Dec. 5, 2017	Percent of Budgeted Demand	Projected to Dec. 31, 2017	\$0.05/1000 Gallon Rate Increase on Rate 1	\$0.05/1000 Gallon Rate Increase on Rate 1	\$0.05/1000 Gallon Rate Increase on Rate 1
Essex PUC	175,000,000	165,218,900	94.4%	<i>175,461,482</i>	175,000,000	175,000,000	175,000,000
Gosfield N. Twsp	120,000,000	<i>132,344,190</i>	110.3%	<i>138,856,850</i>	135,000,000	135,000,000	135,000,000
Gosfield S. Twsp	1,070,000,000	<i>1,124,382,860</i>	<i>105.1%</i>	1,189,999,300	1,150,000,000	1,150,000,000	1,150,000,000
Highbury CanCo	165,000,000	<i>191,261,580</i>	115.9%	200,591,960	190,000,000	190,000,000	190,000,000
Kingsville PUC	140,000,000	<i>132,888,360</i>	94.9%	<i>141,126,642</i>	140,000,000	140,000,000	140,000,000
Leamington PUC	1,430,000,000	<i>1,346,658,540</i>	94.2%	<i>1,416,895,560</i>	1,410,000,000	1,410,000,000	1,410,000,000
Lakeshore	<u>100,000,000</u>	<u>97,053,550</u>	<u>97.1%</u>	<u>103,070,288</u>	<u>100,000,000</u>	<u>100,000,000</u>	<u>100,000,000</u>
Total Flow:	3,200,000,000	3,189,807,980	99.7%	3,366,002,082	3,300,000,000	3,300,000,000	3,300,000,000
Rate 1 Flow	3,035,000,000	2,998,546,400	98.8%	3,165,410,122			3,110,000,000
Rate 1	\$2.72	\$2.72		\$2.72		\$2.82	\$2.87
Rate 1 Revenue	\$8,255,200	\$8,156,046	98.8%	\$8,609,916	\$8,614,700	\$8,770,200	\$8,925,700
Rate 2 Flow	0	0		0	0	0	0
Rate 2	\$0.00	\$0.00		\$0.00	\$0.00		\$0.00
Rate 2 Revenue	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
Rate 3 Flow	0	0		0	0	0	0
Rate 3 Revenue	\$0	\$0		\$0	\$0	\$0	\$0
Highbury CanCo Flow	165,000,000	191,261,580	115.9%	200,591,960	190,000,000	165,000,000	165,000,000
Highbury CanCo Rate	\$2.00	\$2.00		\$2.00		\$2.10	\$2.15
Highury CanCo Revenue	\$330,000	\$382,523	115.9%	\$401,184	\$389,500	\$346,500	\$354,750
Lifecycle Rate	\$0.24	\$0.24		\$0.24	\$0.24	\$0.24	\$0.24
_	\$768,000	\$765,554	99.7%	\$807,840			\$792,000
Total Revenue	\$8,585,200	\$8,538,569	99.5%	\$9,011,099	\$9,004,200	\$9,116,700	\$9,280,450

UNION WATER SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT

2018 Draft Budget Budget Summary

	2017	2017	2017	2017	2018	2019	2020
	Approved Budget	As of Dec 5, 2017	Percent of Approved Budget	Projected to December 31st, 2017	Rate 1 Increase - \$0.05/1000 gallons	Rate 1 Increase · \$0.05/1000 gallons	Rate 1 Increase - \$0.05/1000 gallons
Water Flows							
REVENUE							
Senior Government Grants	\$0	\$0	-	\$0	\$0	\$0	\$0
Wholesale Rate Billings	\$8,585,200	\$8,538,569	99.5%	\$9,011,099		\$9,116,700	\$9,280,450
Investment Income	\$232,000	\$321,700	138.7%	\$382,000			\$290,000
Sundry revenue	\$24,000	\$20,621	85.9%	\$24,500	, ,		\$24,970
TOTAL REVENUES	\$8,841,200	\$8,880,890	100.4%	\$9,417,599	\$9,378,200	\$9,431,180	\$9,595,420
OPERATING EXPENDITURE							
General Administration	\$476,946	\$428,120	89.8%	\$458,290			\$501,733
Miscellaneous Legal/Professional fees	\$20,000	\$9,926	49.6%	\$11,000		· ·	\$20,000
OCWA Operating Contract	\$2,766,240	\$2,535,720	91.7%	\$2,766,240			\$2,992,711
Programs and Studies	\$507,575	\$339,349	66.9%	\$507,575		· · ·	\$285,000
Residuals Ponds Maintenance	\$0	\$0	0.0%	\$0			
Electricity and Natural Gas	\$1,250,000	\$1,018,282	81.5%	\$1,211,000	\$1,250,000	\$1,300,000	\$1,325,000
TOTAL OPERATING EXPENDITURES	\$5,020,762	\$4,331,398	86.3%	\$4,954,105	\$4,988,750	\$4,920,925	\$5,124,444
Debt Service	\$2,294,701	\$2,157,019	94.0%	\$2,294,701	\$2,313,441	\$2,332,441	\$2,379,089
TOTAL DEBT SERVICE EXPENDITURES	\$2,294,701	\$2,157,019	94.0%	\$2,294,701	\$2,313,441	\$2,332,441	\$2,379,090
CAPITAL EXPENDITURE Capital Repair, Maintenance & Upgrade Works New Capital Works Contingency	\$3,095,000 \$0	\$602,119 \$0	19.5% -	\$631,487 \$0	\$2,955,000 \$950,000		\$570,000 \$6,355,000
TOTAL CAPITAL EXPENDITURES	\$3,095,000	\$602,119	19.5%	\$631,487	\$3,905,000	\$4,865,000	\$6,925,000
NET OUDDLING (DEFIOIT)		A					
NET SURPLUS/(DEFICIT)	-\$1,569,263	\$1,790,354	-	\$1,537,306	-\$1,828,991	-\$2,687,186	-\$4,833,114

UNION WATER SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT 2018 Draft Budget Operations and Debt Detail

		2017	2017	2017	2017	2018	2019	2020
				Percent of	Projected to	Budget- Rate 1	Budget- Rate 1	Budget- Rate 1
		Approved	As of	Approved	December 31st,	Increase of	Increase of	Increase of
<u>Number</u>	Account Description	Budget	Dec 5, 2017	Budget	2017	\$0.05/1000 Gallons	\$0.05/1000 Gallons	\$0.05/1000 Gallons
REVENUE ACCOUN			•	J			•	•
FEES REVENUE	<u> </u>							
0700-3700	Wholesale Rate Billings	\$8,585,200	\$8,538,569	99.5%	\$9,011,099	\$9,004,200	\$9,116,700	\$9,280,450
0700-3700	Wholesale Nate Billings	\$8,585,200	\$8,538,569	99.5%	\$9,011,099	\$9,004,200	\$9,116,700	\$9,280,450
MISCELLANEOUS F	DEVENITES	ψ0,303,200	ΨΟ,ΟΟΟ,ΟΟΟ	33.370	ψ5,011,055	ψ0,004,200	ψ5,110,700	ψ3,200,430
0700-4100	Investment Income (Operations)	\$232,000	\$321,700	138.7%	\$382,000	\$350,000	\$25,000	\$25,000
0700-3100	Sundry revenue	\$24,000	\$20,621	85.9%	\$24,500	\$24,000	\$24,000	\$24,000
0700-3333	oundry revenue	Ψ24,000	Ψ20,021	03.570	Ψ24,500	Ψ24,000	\$80,000	\$80,000
		\$256,000	\$342,321	133.7%	\$406,500	\$374,000	\$129,000	\$129,000
	TOTAL REVENUES :	\$8,841,200	\$8,880,890	100.4%	\$9,417,599	\$9,378,200	\$9,245,700	\$9,409,450
		+ 0,011,200	**,****		40,111,000	+	¥*,= :=,: **	40,100,100
EXPENDITURE ACC								
WAGES AND BENE								
0700-5000	Salaried	\$166,500	\$149,139	89.6%	\$167,300	\$170,500	\$173,910	\$177,388
	Part time	\$0	\$0	-	\$0	\$0	\$0	\$0
0700-5200 to 5210	Benefits - Full time	\$47,696	\$42,076	88.2%	\$48,336	\$49,500	\$50,490	\$51,500
	Benefits - Part time	\$0	\$0	<u> </u>	\$0	\$0	\$0	\$0
		\$214,196	\$191,215	89.3%	\$215,636	\$220,000	\$224,400	\$228,888
	D, RENTS AND SERVICES	00.000	0000	40.401	0.4.000	40.555	40.000	***
0700-7010	Office supplies	\$2,000	\$868	43.4%	\$1,000	\$2,000	\$2,000	\$2,000
0700-7015	Board expenses	\$1,000	\$0	0.0%	\$0	\$1,500	\$1,500	\$1,500
0700-7020	Dues, Memberships, Subsc	\$3,500	\$5,675	162.1%	\$5,900	\$5,000	\$3,500	\$3,500
0700-7030	Travel & Mileage	\$2,500	\$1,222	48.9%	\$1,500	\$2,000	\$1,500	\$1,500
0700-7040	Training	\$5,000	\$3,100	62.0%	\$4,700	\$6,000	\$6,000	\$6,000 \$6,000
0700-7050 0700-7052	Conferences	\$5,000 \$2,000	\$3,680 \$1,905	73.6% 95.3%	\$4,900 \$2,050	\$6,000 \$2,000	\$6,000 \$2,000	\$6,000 \$2,000
0700-7032	Meeting Expenses Uniforms/Clothing	\$500	\$1,905 \$153	30.6%	\$153	\$500	\$2,000 \$500	\$2,000 \$500
0700-7070	Legal/Professional fees	\$20,000	\$9,926	49.6%	\$11,000	\$20,000	\$20,000	\$20,000
0700-7959-002070	Audit Fees	\$15,000	\$5,233	34.9%	\$7,000	\$7,000	\$15,000	\$15,000 \$15,000
0700-7959-002070	Property Taxes	\$145,000	\$143,276	98.8%	\$141,819	\$145,000	\$140,000	\$140,000
0700-7080 & 7085	Operational Purchases/Maint.	\$15,000	\$15,621	104.1%	\$15,621	\$20,000	\$15,000	\$15,000
0700-7090	Sundry	\$1,000	\$0	0.0%	\$0	\$250	\$250	\$250
0700-7090	Leamington Assistance	\$30,000	\$30,000	100.0%	\$30,000	\$30,000	\$30,000	\$30,000
0700-7110	Communications	\$1,500	\$830	55.3%	\$1,100	\$1,500	\$1,500	\$1,500
0700-7120	Postage & Courier	\$500	\$132	26.4%	\$200	\$500	\$500	\$500
0700-7130	Advertising & Promotion	\$7,000	\$0	0.0%	\$1,500	\$6,500	\$7,000	\$7,000
0700-7140	Insurance	\$15,000	\$14,603	97.4%	\$14,603	\$15,000	\$15,000	\$15,000
0700-7130	Donations & Grants	\$4,000	\$3,000	75.0%	\$3,000	\$4,000	\$4,000	\$4,000
0700-7230 to 7290	Office equipment Purchases/Maint.	\$7,250	\$7,608	104.9%	\$7,608	\$7,500	\$5,000	\$5,000
		\$282,750	\$246,831	87.3%	\$253,654	\$282,250	\$276,250	\$276,250
0700 0700	OCIMA Operation Haira	\$2,766,240	\$2,535,720	91.7%	#0.700.040	\$0.070.500	#0.004.000	₽0,000,744
0700-6720 0700-7410 & 7420	OCWA Operating Union Electricity and Natural Gas	\$2,766,240	\$2,535,720	91.7% 81.5%	\$2,766,240 \$1,211,000	\$2,876,500 \$1,250,000	\$2,934,030 \$1,250,000	\$2,992,711 \$1,350,000
0700-7410 & 7420	Electricity and Ivalural Gas		\$3,554,002		\$3,977,240			\$1,250,000
		\$4,016,240	\$3,334,002	88.5%	\$3,977,240	\$4,126,500	\$4,184,030	\$4,242,711
0700-7989-002070	Operational Programs & Studies	\$507,575	\$339,349	66.9%	\$507,575	\$210,000	\$175,000	\$285,000
	Residuals Ponds Maintenance	\$0	\$0	0.0%	\$0	\$150,000	\$175,000	\$120,000
Un-Budgeted Expense	<u>nditures</u>							
то	TAL OPERATIONAL EXPENDITURES:	\$5,020,761	\$4,331,397	86.3%	\$4,954,105	\$4,988,750	\$5,034,680	\$5,152,849
NEI OPERATIONAL	L SURPLUS/(DEFICIT)	\$3,820,439	\$4,549,493	119.1%	\$4,463,494	\$4,389,450	\$4,211,020	\$4,256,601
DEBT SERVICE								
0700-6000 & 6100	Sun Life Debt Obligation	\$2,294,701	\$2,157,019	94.0%	\$2,294,701	\$2,313,441	\$2,332,441	\$2,379,089
0700-6000 & 6100	Woodslee Credit Union							
0700-6000 &6100	OSIFA							
0700-6010 &6110	Leamington WM							
	TOTAL DEBT SERVICE:	\$2,294,701	\$2,157,019	94.0%	\$2,294,701	\$2,313,441	\$2,332,441	\$2,379,089
SURPLUS/(DEFICIT) AFTER DEBT	\$1,525,738	\$2,392,474	-	\$2,168,793	\$2,076,009	\$1,878,579	\$1,877,512
	•	, . ,	, ,,		, -,,	7-,,	F-,,3. •	, -,,

Union Water Supply System 2018 Draft Budget Capital Budget Details

CATEGORY FUNDING SOURCE

	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 Quality (i.e. CWN, Corrosion Monitoring)	\$35,000							\$35,000	\$35,000	\$0
Water Demand/ Loss Study	\$100,000							\$100,000	\$100,000	\$0 \$0
UWSS Operations Contract Assessment	\$25,000							\$25,000	\$25,000	\$0
Dechlorination System Evaluation and Preliminary Engineering	\$50,000							\$50,000	\$50,000	<u>\$0</u>
								_		
Total Studies/Programs	\$210,000							\$210,000	\$210,000	\$0
CAPITAL WORKS/ MAJOR MAINTENANCE										
Low Lift Pump #1 Major Maintenance			\$35,000					\$35,000	\$35,000	\$0
Blue Green Algae/ Chlorophyll Probe - Low lift well			\$25,000					\$25,000	\$25,000	\$0
Microstrainer Floors - Microstrainer #2		\$30,000						\$30,000	\$30,000	\$0
Filter Media Replacement -Filters 6 and 8		\$140,000						\$140,000	\$140,000	\$0
Turbidity Meters for Filter Backwash (8 new units)		\$45,000						\$45,000	\$45,000	\$0
High Lift Pump #7 New Pump and Motor		\$85,000						\$85,000	\$85,000	\$0
Kitchen Upgrades		\$25,000						\$25,000	\$25,000	\$0
Laboratory Upgrades		\$50,000						\$50,000	\$50,000	\$0
Maintenance Shop Roof		\$30,000						\$30,000	\$30,000	\$0
Lighting Upgrades		\$20,000	\$10,000					\$30,000	\$30,000	\$0
Essex Water Tower Rehabilitation (interior and exterior)		Ψ20,000	Ψ10,000				\$1,025,000	\$1,025,000	\$1,025,000	\$0
Distribution System Maintenance							\$100,000	\$100,000	\$100,000	\$0
Cathodic Protection System for Leamington Water Tower							\$20,000	\$20,000	\$20,000	\$0
Master Water Meter Communication System Improvements					\$50,000		Ψ20,000	\$50,000	\$50,000	\$0 \$0
Security System Install					\$45,000			\$45,000	\$45,000	\$0 \$0
SCADA System Upgrade - Complete new system					\$1,220,000			\$1,220,000	\$341,000	\$879,000
CONDITION OPGITUDE COMPLETE NEW SYSTEM					<u> </u>			<u> </u>	<u> </u>	<u> </u>
Total Capital Works/ Major Maintenance		\$425,000	\$70,000	\$0	\$1,315,000	\$0	\$1,145,000	\$2,955,000	\$2,076,000	\$879,000
		, ,,,,,,	P 2/2 2 2		, , , , , , , , , , , , , , , , , , ,		, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , ,	, , , , ,
NEW CAPITAL WORKS										
CO2 pH Adjustment System Detailed Design and Construction		\$950,000						<u>\$950,000</u>	<u>\$0</u>	\$950,000
Total New Capital Works		\$950,000	\$0	\$0	\$0	\$0	\$0	\$950,000	\$0	\$950,000
TOTAL MAJOR MAINTENANCE and CAPITAL		\$1,375,000	\$70,000	\$0	\$1,315,000	\$0	\$1,145,000	\$3,905,000	\$2,076,000	\$1,829,000
TOTAL MAINTENANCE CAPITAL and STUDIES		ψ1,010,000	ψ. 5,000	ΨΟ	ψ1,510,000	Ψ	¥1,1 10,000	\$4 115 000		\$1,829,000

TOTAL MAINTENANCE, CAPITAL and STUDIES

\$4,115,000 \$2,286,000 \$1,829,000

UWSS 6-YEAR CAPITAL PLAN TABLES AND DETAILS

UNION WATER SUPPLY SYSTEM Six Year Recommended Capital / Major Maintenance December 7, 2017

<u>DRAFT</u>

		2018		2019		2020	2021		2022	2023	tal Capital aditures 2017 2022
Union Area Water Supply System											
Studies and Programs											
Water Demand/Usage Study											\$ -
Water Quality Investigations	\$	35,000	\$	35,000	\$	35,000	\$ 35,000	\$	35,000	\$ 35,000	\$ 210,000
Energy Optimization Study											\$ -
Residuals Management Studies	\$	-	\$	40,000							\$ 40,000
Water Loss/Leak Detection Study	\$	100,000									\$ 100,000
Operations Contract Assessment	\$	25,000									\$ 25,000
De-Chlorination System Evaluation	\$	50,000									\$ 50,000
Cottam 12-inch main replacement- EA & Prelim Eng					\$	250,000					\$ 250,000
Master Plan Update			\$	100,000		,					\$ 100,000
Contingency (un-identified future studies)				,	Ī		\$ 150,000	\$	150,000	\$ 150,000	\$ 450,000
Subtotal Studies and Programs	\$	210,000	\$	175,000	\$	285,000	\$ 185,000	\$	185,000	185,000	1,225,000
Low Lift						·	·		·		
Intake #1 & 2* (Note 5)						\$30,000					\$ 30,000
Intake # 2 (See Item 16 for more detail)						· ·		Ç	\$30,000		\$ 30,000
Intake # 3, shoreline intake	Î				(\$100,000			,		\$ 100,000
Coarse Bar Screen (2)						,					\$ -
Travelling Screen #1											\$ -
Travelling Screen #2											\$ -
Travelling Screen #3						\$120,000					\$ 120,000
Pump Wells(2)											\$ -
Low Lift Pump 1 *(Note 1)	\$	35,000					\$ 30,000	\$	30,000		\$ 95,000
Low Lift Pump 2											\$ -
Low Lift Pump 3											\$ -
Low Lift Pump 4											\$ -
Low Lift Pump 5			\$	35,000							\$ 35,000
Low Lift Pump 6					\$	35,000					\$ 35,000
Low Lift Pump 7							\$ 35,000				\$ 35,000
Zebra Mussel Control System							\$ 50,000				\$ 50,000
Pump discharge line											\$ -
Low Lift Surge Tanks (2) and Compressor System *(Note 6)						\$20,000					\$ 20,000
Low Lift Diesel Generator							\$50,000				\$ 50,000
Low Lift Electrical Transformer Upgrade											
				\$50,000							\$ 50,000
General Building Maintenance & Equipment											
Roadway upgrades to Maintenance Area -								\$	75,000		\$ 75,000
Asphalt Pavement Sealing - Low lift, treatment plant, CBS											\$ -
New Maintenance Shop Building			\$	250,000							\$ 250,000
Building/Grounds -					\$	50,000	\$ 50,000	\$	100,000		\$ 200,000
Upgrades to Pole Barn - Roof, electric, etc.			\$	50,000							\$ 50,000
Elevator for Treatment Plant Building										\$ 150,000	\$ 150,000
Clarification System											\$ -
Clarifier 1 -											\$ -
Clarifier 2 -											\$ -
Clarifier 3			L					\$	150,000		\$ 150,000

	Comments
	Commission
	Water Study, etc.
	Algae Study, Corrosion Monitoring ystem installation in 2017 for Low Lift
ivia i o	yotom motanation in 2017 for Low Lin
Operat	ions Contract Evaluation
Evalua	tion of Options and Prelim Engineering for
	ement of 12-inch WM to Cottam
Mainte	nance
Mainte	
	ements needed to make fully functional
	nance not required
replace	ed in 2008 \$110,000.
	ed in 2012
	d in 1994; upgrades planned for 2020
	d & inspected annually in 2005
	in 2017
rebuilt	in 2016
rebuilt	in 2007
robuilt	in 2008
	in 2008
	mussel intake upgrades
Genera	al maintenance
O & M	Contracted to Genrep
	cal Transformer is old and undersized. Needs to be
upgrad	ea
ungrad	e of roadway to rear plant area
apgrad	o or roadway to roar plant aroa
new m	aintenance/vehicle storage area
Genera	al improvements
Access	sibility Requirements
, 10003	noncy requirements
To be i	retrofitted to DAF in 2019
To be i	retrofitted to DAF in 2020
	Maintenance and Painting

Clarifier 4	T										\$	150,000	\$	150,000
Chemical System											Ť		\$	-
Coagulant Feed System	-						\$	30,000					\$	30,000
Coagulant Storage	1						\$	30,000					\$	30,000
Coagulant Aid System	t		1		\$	20,000	<u> </u>	20,000					\$	20,000
Carbon Feed System					*								\$	
Carbon Flushing Lines	$\overline{}$												\$	-
Tank Mixers (3)	1												\$	_
Recirc. Pump	t		\$	20,000			1						\$	20,000
Slurry Transfer Pumps (2)	 		\$	30,000									\$	30,000
Carbon Feed Pumps (4)	 		<u> </u>	00,000					\$	50,000			\$	50,000
Carbon Scrubber System	 				\$	50,000			Ψ	00,000			\$	50,000
Filtration					Ψ	50,000							\$	-
Filter 1	-												\$	-
Filter 2	+		1				1						\$	-
Filter 3	+												\$	_
Filter 4	+												\$	
Filter 5	\vdash										-		\$	
Filter 6	\$	70,000									-		\$	
	Ψ_	10,000	 				\vdash				-		\$	70,000
Filter 7	Φ.	70.000					1						\$	70,000
Filter 8 Turbidity Meters for Filter Backwash	\$ \$	70,000 45,000	 				\vdash				-		\$	45,000
	φ	45,000											Ψ	·
Filter Meter Replacements	—										-		\$	-
Valves													\$	-
Removal of Microstrainers/ Install of Flooring	\$	30,000											\$	30,000
Pumps													•	
Backwash Pump 1 - Upgrade with VFD													\$	-
Backwash Pump 2	<u> </u>								\$	100,000			\$	100,000
High Lift Pump 1 *(Note 2) Diesel Pump	<u> </u>												\$	-
High Lift Pump 2	<u> </u>												\$	-
High Lift Pump 3	<u> </u>												\$	-
High Lift Pump 4	<u> </u>												\$	_
High Lift Pump 5			\$	35,000									\$	35,000
High Lift Pump 6														
W. J. 176 D		0= 000											\$	-
High Lift Pump 7	\$	85,000												
													\$	85,000
High Lift Pump 8			\$	125,000									\$	125,000
High Lift Pump 9	<u> </u>								\$	125,000			\$	125,000
High Lift Pump No. 10											\$	400,000	\$	400,000
High Lift Reservoirs (2)							\$	50,000				\$50,000	\$	100,000
Wastewater Pumps (2)	 				\$	10,000			\$	10,000			\$	20,000
Diesel Generator 1 (170 kW)	 				Ψ	10,000			Ψ	10,000			\$	-
Diesel Generator 2 (750 kW)	\vdash										\$	100,000	\$	100,000
Diesel Generator Upgrades	\vdash										Ψ	100,000	\$	- 100,000
HL Compressor 1	+												\$	
HL Compressor 2	+		1		\$	15,000	1						\$	15,000
HL Compressor 3	+				Ψ	13,000	\$	15,000	\$	15,000			\$	30,000
Main Plant Electrical							Ψ	13,000	Ψ	13,000			Ψ	30,000
Electrical/Lighting Upgrades	\$	30,000			\$								¢	30,000
Power Factor Capacitors for Energy Management	Ψ	50,000	\$	50,000		-	1				1		\$	50,000
Generator B Transfer Switch Automation			φ	50,000	 		1				 		\$	30,000
													Ψ	_
Disinfection Debumidification													\$	
Dehumidification Chloring Food System	┼──		 				\vdash				-		Ą	-
Chlorine Feed System													¢	
Ammonia Food System	₩		-				_	20.000			-		\$	20.000
Ammonia Feed System	₩				ļ			30,000			-		\$	30,000
Scrubber System	_						\$	30,000					\$	30,000
SCADA /Communication/Security		5.000											*	45.000
Security System Install		5,000	A-	20.000	*	0.000	_	200 000		20.000		# 00.000	\$	45,000
System upgrade and Maintenance		20,000		30,000		0,000		30,000		30,000		\$30,000	\$	1,370,000
UWSS Wide Communication System Improvements	\$5	0,000	\$2	20,000	\$2	0,000		20,000		50,000		\$20,000	\$	180,000

Page 31 of 41 12 Major Maintenance and Painting Upgraded in 2013 System upgraded 2015 New in 2015 requires upgrade Fully upgraded in 2012 Upgrades in 2014 Fully upgraded in 2013 Upgrades in 2014 New Media in 2017 installed in 1996 New Media in 2017 installed in 1996 New items to optimize backwash process Completed in 2016-2017 Completed in 2016-2017 Microstrainer No. 2 to be removed Replaced in 2014 - VFD 2015 new in 1996 rebuild in 2016 Replaced 2013 rebuilt 2006 rebuilt 2007 rebuilt 2008 new pump 2013 requires replacement,on hold until new pump curves are determined new in 1996, rebuilt 2015 new in 1996 New pump needed in newer high lift bay; with VFD Upgrades RSP #2 replacement Replacement Replacement Replacement Upgrades needed in High Lift bays; external areas Capacitors are failing. Upgrades needed Completed to review once filter repairs completed Evaluation of Conversion to On-Site Hypo Generation (2016). Upgrades to On-Site Hypo (2017) installed new in 2002 new acid pump installed in 2009 Keyless entry security system New SCADA System in 2018; maintenance after improvements to existing communication system

Page 31 of 41

Monitoring Equipment									Page 32 of 41
Turbidity Meter Replacement -							\$	-	Old equipment. All need to be updated
Chlorine Analyzer Replacements	+						\$	-	Old Equipment: 7th field to be apacted
Blue Green Algae Monitoring Probe	\$25,000						\$	25,000	Old equipment. All need to be updated
Building Maintenance	Ψ20,000						1	20,000	Old Equipment. All need to be apaated
Facility Enhancements - General		\$20,000	\$20,000	\$150,000	\$150,000		\$	340,000	Elevator Needed for Access
Maintenance Shop Roof Replacement	\$30,000	\$20,000	\$20,000	\$150,000	\$150,000		Ψ	340,000	Roof Leaking and Needs to be Replaced
	\$30,000								
Windows & Doors Replacement							\$	-	asbestos like material present in window caulking, portion to be completed each year until finished
Laboratory Upgrade	\$50,000						\$	50,000	
Kitchen Upgrade	\$25,000							25,000	Front Foyer entry Roof Structure leaking badly. Structure to be removed and upgraded
No Factor and							\$	25,000	o i i i i i i i i i i i i i i i i i i i
New Equipment									Demokratik 0040
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	T						\$	-	new in 1996
Booster Pump 2	1						\$	_	new in 1996
Booster Pump 3	1						\$	_	new in 1996
Booster Pump 4	+			\$35,000			\$	35,000	new in 1996
Surge Tanks (2)	 			ψ55,000			\$	-	Insurance inspected in 2009, needs internal inspection
				¢45,000			\$	15,000	Replaced 2012
Compressor				\$15,000					
Emergency Disinfection System							\$	-	Completed 2014
Cottam MCC PLC Upgrade							\$	-	Completed 2014
Distribution System									
Leamington Tower	\$20,000						\$	20,000	New Cathodic System
Albuna Tower					\$250,000		\$	250,000	New Control Valve on 42inch for Albuna Control
Kingsville Tower		\$1,100,000					\$	1,100,000	Safety Upgrades and Painting (2017)
Essex Tower	\$1,025,000						\$	1,025,000	Painting (2016)
Distribution System Maintenance	\$100,000	\$50,000	\$50,000	\$50,000	\$50,000		\$	300,000	For water main breaks, etc.
Master Water Meter Replacement/Upgrades							\$	-	Completed 2017
Wastewater Treatment System									
Wastewater Lagoon Upgrades	1					\$100,000	\$	100,000	Clay liner improvements
Residuals Management system (see new capital works)						Ψ.00,000	\$	-	City mist improvement
							\$	-	
NEW CAPITAL WORKS							\$	-	
							\$	-	
CO2 pH Adjustment System Install	\$950,000								
UV Disinfection - In-reservoir UV vault			\$5,500,000				\$	5,500,000	New UV Disinfection System.
Dry Scrubber - Chlorine Gas system	1	\$1,000,000	,				\$	1,000,000	Chlorine Building Expansion and Dry Scrubber Install
Pre-Treatment/clarification upgrades (DAF)	1	\$2,000,000		\$2,000,000			\$	4,000,000	Conversion of Clarifiers No 1 and 2 to DAF
Residuals management Polymer system waste system upgrades		\$2,500,000		\$1,750,000			1	1,750,000	Polymer/thickening process for residuals
Replacement of 12-inch Cottam Water Main	+				\$6,000,000		\$ \$	6,000,000	
Subtotal Capital and Major Maintenance	\$2,955,000	\$1,865,000	\$570,000	\$700,000	\$1,215,000	\$1,000,000	\$	8,305,000	
Total New Capital Works	\$950,000	\$3,000,000	\$5,500,000	\$3,750,000	\$6,000,000	0.2	\$	19,200,000	
·									
TOTAL CAPITAL AND STUDIES	\$3,905,000	\$4,865,000	\$6,070,000	\$4,450,000	\$7,215,000	\$1,000,000	\$	27,505,000	
Subtotal Studies and Programs Contingency		\$175,000	\$285,000	\$185,000	\$185,000	\$185,000	\$	1,225,000	
TOTAL CAPITAL, STUDIES AND NEW CAPITAL		\$ 5,040,000	\$ 6,355,000	\$ 4,635,000	\$ 7,400,000	\$ 1,185,000	\$	28,730,000	

Dates for the Union Water Supply System Joint Board of Management Meetings for the 2018 Year

January 17, 2018

February 21, 2018

March 21, 2018

April 18, 2018

May 16, 2018

June 20, 2018

July 18, 2018

August 15, 2018

September 19, 2018

October 17, 2018

November 21, 2018

December 19, 2018

All meetings will take place at the Kingsville Arena – Community Room, upstairs, commencing at 9:00 a.m., unless otherwise notified.

UW/33/17

To: Chair and Members of the Union Water Supply

System Joint Board of Management

From: Rodney Bouchard, Union Water Manager

Date: December 15, 2017

Re: Payments for the UWSS from October 13, 2017



Aim:

To provide the Board with a copy of payments made by the Union Water Supply System from October 13 to December 15, 2017.

Recommendation:

KR.K

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\2017\uw33-17 payments october 13 to december 15, 2017.docx

Council/Board Report By Dept-(Computer)

Vendor :

Batch:

ΑII

001410 To PT00000141

Page: Date: Oct 19, 2017

55

Cheque Print Date : 10-Oct-2017 To 19-Oct-2017

Bank: 07 To 08

AP5130

Department :	All					Class :	All			
	Vendor Na Descriptio							Batch Invc Date	Invc Due Da	ate
G.L. Account		CC1	CC2	CC3	GL Account Name					Amount
DEPARTMENT	0700		Union	Water Sy	stem					
	ASSOCIAT	TED ENG								
	SCADA UF			, ,	Operational Programs & Studies			560 13-Oct-2017	19-Oct-2017	, 7,274.38
523214 70-5-0700-7989	CO2 PH P	RELIMIN 002070	ARY DES	SIGN	Operational Programs & Studies			560 13-Oct-2017	19-Oct-2017	6,979.49
020120	BELL MO	BILITY C	ELLULA	₹						
514877178-OC 70-5-0700-7110		CELL PI 002070		IARGES	Telecommunications Usage			550 01-Oct-2017	19-Oct-2017	, 58.76
514877178-SE 70-5-0700-7110		CELL PI 002070		IARGES	Telecommunications Usage			550 01-Sep-2017	19-Oct-2017	58.76
030515	CUETS FII	NANCIAL	-							
PHO SAIGON- 70-5-0700-7052 70-5-0700-7052	?	S LUNCH 002070 002070	- SEP28		Meeting Expenses Meeting Expenses			560 28-Sep-2017	19-Oct-2017	30.51 5.49
ZEHRS-SEP19 70-5-0700-7052	FRUIT PLA		PLATES,	NAPKINS				560 19-Sep-2017	19-Oct-2017	
ZEHRS-SEP20 70-5-0700-7052		COOKIE 002070	S, JUICE	E, CREAN				560 20-Sep-2017	19-Oct-2017	, 19.78
050003	E.L.K. EN	ERGY IN	С							
40010915-AUG 70-5-0700-7420 70-5-0700-7420)	- ESSEX 002073 002073	WATER	TOWER	Electricity Electricity			553 01-Oct-2017	12-Oct-2017	-16.10 227.42
40047150-AUG 70-5-0700-7420 70-5-0700-7420)	METER# 002073 002073	‡ 9		Electricity Electricity			553 01-Oct-2017	12-Oct-2017	-5.63 79.50
51976611-AUG 70-5-0700-7420 70-5-0700-7420)	LE WATE 002073 002073	R TOWE	R	Electricity Electricity			553 01-Oct-2017	12-Oct-2017	-14.02 197.98
90006300-AUG 70-5-0700-7420	20640KWH		АМ ВОО	STER ST	,			553 01-Oct-2017	12-Oct-2017	
050070	ELECTRIC	AL WHO	DLESALE	SUPPLY	•					
1209166 70-7-0700-8750		C/W BA0 002205	CK PLAT	E&HAND	LE METER#27 Watermains			560 18-Sep-2017	19-Oct-2017	, 1,322.21
070070	GILLETT S	SHEET N	IETAL LT	D						
24332-l 70-7-0700-8745	MICROST	RAINER 700130	FLOOR		Treatment Plant			560 29-Sep-2017	19-Oct-2017	22,577.40
080250	HYDRO O	NE NETV	VORKS I	NC						
200141677460 70-5-0700-7420		/DRO - R 002073	UTHVEN	I WATER	TREATMENT Electricity			560 06-Oct-2017	19-Oct-2017	, 85,924.63
200141680692 [.] 70-5-0700-7420 70-5-0700-7420)	/DRO - L 002073 002073	OW LIFT		Electricity Electricity			560 06-Oct-2017	19-Oct-2017	47,008.19 -5.31

130620 MONARCH OFFICE SUPPLY INC

200152134969 SEP/17 HYDRO - METER#17

200208899066 SEP/17 HYDRO - METER#16

002073

002073

002073

002073

70-5-0700-7420

70-5-0700-7420

70-5-0700-7420

70-5-0700-7420

Page 35 of 41

Electricity

Electricity

Electricity

Electricity

34.19 -6.48

91.47

-2.42

19-Oct-2017

19-Oct-2017

560 06-Oct-2017

560 13-Oct-2017

Council/Board Report By Dept-(Computer)

001410 To PT00000141 Vendor:

ΑII Batch:



AP5130 Date:

Oct 19, 2017

Page: 56

To 19-Oct-2017

98.31

Cheque Print Date: 10-Oct-2017

Bank: 07 To 08

Department :	All					Class: All			
Vendor Invoice G.L. Account	Vendor N Descripti		CC2	CC3	GL Account Name		Batch Invc Date	Invc Due Date Amou	 int
									—
DEPARTMENT	0700		Union	Water Sy	rstem				
043573	PENS, PA	PER, FL	AGS, HIG	HLIGHTE	ERS		560 06-Sep-2017	19-Oct-2017	
70-5-0700-7010)	002070			Office Supplies			93.	73
150365	ONTARIO	CLEAN	WATER A	AGENCY					
INV000097331	SEP/17 C	PER&MT	CE				560 30-Sep-2017	19-Oct-2017	
70-5-0700-6720)	002071			OCWA Operating Contract			223,405.	71
INV000097616		ATER TO	WER - F	REHAB.			560 25-Sep-2017	19-Oct-2017	
70-7-0700-8705	5				Essex Water Tower			21,244.	00
180325	RICOH C	ANADA II	NC						
SCO91704643			CT AUG2	2-SEP30			560 29-Sep-2017	19-Oct-2017	
70-5-0700-7010		002070			Office Supplies			101.	21
190185	SGS CAN	IADA INC	. ENVIR	ONMENT	AL SERVICES				
			STUDIES	-CORRO	SION-UWSS		560 28-Sep-2017	19-Oct-2017	
70-5-0700-7989		002075			Operational Programs & Studies			1,984.	28
11095881 70-5-0700-7989)UALITY : 002075	STUDIES	S-CORRO	SION-KINGSVILLE Operational Programs & Studies		560 28-Sep-2017	19-Oct-2017 98.	31
11095886	WATER C	QUALITY	STUDIES	-CORRO	SION-ESSEX		560 28-Sep-2017	19-Oct-2017	
70-5-0700-7989)	002075			Operational Programs & Studies			196.	62
11095889	WATER C	QUALITY	STUDIES	-CORRO	SION-LEAMINGTON		560 28-Sep-2017	19-Oct-2017	
70-5-0700-7989)	002075			Operational Programs & Studies			98.	31
11095907	WATER C	QUALITY	STUDIES	-CORRO	SION-LAKESHORE		560 28-Sep-2017	19-Oct-2017	

002075 190755 SUN LIFE ASSURANCE COMPANY OF CANADA

OCT-17 UNION WATER LOAN 3724:1 560 16-Oct-2017 19-Oct-2017

Operational Programs & Studies

70-5-0700-6000 002020 006901 Debenture Principal 61,844.44

70-5-0700-6100 002010 006901 Debenture Interest 121,731.61

UNION GAS LTD 210120

70-5-0700-7989

SEP-OCT17 17 SEP/17 GAS - COTTAM BOOSTER STN 560 12-Oct-2017 19-Oct-2017

70-5-0700-7410 002073 23.73

Department Totals: 607,515.08

All

Vendor:

Batch:

70-5-0700-7989

002075

Council/Board Report By Dept-(Computer)

001410 To PT00000145

AP5130 Date:

Nov 02, 2017

То

32

02-Nov-2017

-4.35

61.44

2,260.00

Page:

Cheque Print Date: 20-Oct-2017

Bank: 07 To 08

Class: All

Department: 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 010094 **ASL ROTEQ LTD** LOW LIFT PUMP #2 REPLACEMENT 592 31-Aug-2017 4336 02-Nov-2017 70-7-0700-8735 Low Lift Station 700050 51.144.93 LOW LIFT PUMP#2 - SHIPPING 592 28-Sep-2017 02-Nov-2017 4336A 70-7-0700-8735 700050 Low Lift Station 1.356.00 030410 **COLASANTI'S RESTAURANT** E06971 **DONUTS** 592 19-Oct-2017 02-Nov-2017 70-5-0700-7052 002070 Meeting Expenses 14.00 HYDRO ONE NETWORKS INC 080250 200141681706 SEP/17 HYDRO - METER#2 592 26-Oct-2017 02-Nov-2017 002073 Electricity

70-5-0700-7420 -2.74 38.63 70-5-0700-7420 002073 Electricity 200141683524 SEP/17 HYDRO - METER#8 592 26-Oct-2017 02-Nov-2017 002073 -2.4570-5-0700-7420 Electricity 70-5-0700-7420 002073 Electricity 34.70 200141683726 SEP/17 HYDRO - METER#15 592 24-Oct-2017 02-Nov-2017 70-5-0700-7420 002073 Electricity -2.37

70-5-0700-7420 002073 Electricity 33.58 200141687362 SEP/17 HYDRO - METER#22 592 26-Oct-2017 02-Nov-2017 -5.38 70-5-0700-7420 002073 Electricity 70-5-0700-7420 002073 Electricity 75.91 592 26-Oct-2017 02-Nov-2017 200141687766 SEP/17 HYDRO - METER#29

70-5-0700-7420 002073 Electricity -2.88 70-5-0700-7420 002073 Electricity 40.63 200141687867 SEP/17 HYDRO - METER#24 592 26-Oct-2017 02-Nov-2017 70-5-0700-7420 002073 Electricity -2.35

33.21 70-5-0700-7420 002073 Electricity 200141690190 SEP/17 HYDRO - METER#26 592 25-Oct-2017 02-Nov-2017 103.36 70-5-0700-7420 002073 Electricity 70-5-0700-7420 002073 Electricity -7.32

200220161473 SEP/17 HYDRO - METER#14 592 24-Oct-2017 02-Nov-2017 70-5-0700-7420 002073 Electricity 70-5-0700-7420 002073 Electricity

150365 **ONTARIO CLEAN WATER AGENCY** INV000098067 UWSS M&T & SCADA UPGRADE 592 18-Oct-2017 02-Nov-2017

Operational Programs & Studies

210120 **UNION GAS LTD** AUG-OCT17 2(513.965M3 GAS - RUTHVEN WATER TREATMENT 592 23-Oct-2017 02-Nov-2017

70-5-0700-7410 159.84 002073 Gas SEP-OCT17 21 96.016M3 GAS - LOW LIFT 592 25-Oct-2017 02-Nov-2017

70-5-0700-7410 002073 Gas 31.12

Department Totals: 55,357.51

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

Vendor: 001410 To PT00000145

Batch :

ΑII

Department: Αll

AP5130 Date:

Nov 02, 2017 Page 138: 01 41

EFT Paid Date: 20-Oct-2017

To 02-Nov-2017

Bank: Class: 07 To 08

ΑII

Vendor Code Invoice No. G.L. Account **Vendor Name** Description

CC1 CC2

CC3

GL Account Name

Batch Invc Date

Invc Due Date

Amount

DEPARTMENT 0700

Union Water System

050195

ESSEX POWERLINES CORPORATION

220651-SEP17 14KWH - METER#4

70-5-0700-7420 70-5-0700-7420 002073 002073

Electricity Electricity

592 20-Oct-2017

01-Nov-2017

-3.05 43.16

Department Totals :

40.11

MUNICIPALITY OF LEAMINGTON AP5130 Page: 64 Council/Board Report By Dept-(Computer) Date: Nov 17, 2017 001410 To PT00000115 Vendor: Cheque Print Date: 06-Nov-2017 То 17-Nov-2017 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 010094 **ASL ROTEQ LTD** 4336B DISMANTLE LOW LIFT PUMP #2 615 23-Oct-2017 16-Nov-2017 1,582.00 70-7-0700-8735 700050 Low Lift Station 020120 **BELL MOBILITY CELLULAR** 514877178-NO MONTHLY CELL PHONE CHARGES 607 01-Nov-2017 16-Nov-2017 70-5-0700-7110 002070 002083 Telecommunications Usage 40.68 200348 CORPORATION OF THE TOWN OF KINGSVILLE 300-01000 NO\ TAXES - 1391 UNION - LOW LIFT 615 14-Nov-2017 16-Nov-2017 70-5-0700-6750 002072 **Property Tax** 5,782.00 300-20100 NO\ TAXES - 1615 UNION - RUTHVEN WATER TREATMENT 615 14-Nov-2017 16-Nov-2017 55,374.00 70-5-0700-6750 002072 **Property Tax** 590-02800 NO\ TAXES - 163 CTY RD 34E - COTTAM BOOSTER STN 615 14-Nov-2017 16-Nov-2017 002072 8,901.00 70-5-0700-6750 **Property Tax** 030515 **CUETS FINANCIAL** AIR CAN-PDV4 AIRFARE - NOVA SCOTIA & NEWFOUNDLAND 615 11-Oct-2017 16-Nov-2017 70-5-0700-7050 002070 Conferences 726.98 CWWA-NOV17 CWWA 2017 CONF. REGIST. 615 11-Oct-2017 16-Nov-2017 70-5-0700-7050 002070 Conferences 875.00 FOUR POINTS ROOM - WESTERN ONT. WATER WORKS CONF. 615 04-Oct-2017 16-Nov-2017 231.82 70-5-0700-7050 002070 Conferences STAPLES-OCT OFFICE SUPPLIES 615 16-Oct-2017 16-Nov-2017 70-5-0700-7010 002070 Office Supplies 90.58 TIM HORTONS COFFEE, TIMBITS - MEETING OCT16 615 16-Oct-2017 16-Nov-2017 70-5-0700-7052 002070 Meeting Expenses 18.54 050003 **E.L.K. ENERGY INC** 40010915-SEP 1318KWH - ESSEX WATER TOWER 616 01-Nov-2017 14-Nov-2017 70-5-0700-7420 002073 Electricity -17.1170-5-0700-7420 002073 Electricity 241.68

40047150-SEP 369KWH - METER#9 616 01-Nov-2017 14-Nov-2017 -5.7570-5-0700-7420 002073 Electricity

002073 81.23 70-5-0700-7420 Electricity 51976611-SEP SEP/17 - KINGSVILLE WATER TOWER 616 01-Nov-2017 14-Nov-2017

002073 -14.00 70-5-0700-7420 Electricity 70-5-0700-7420 002073 Electricity 197.68

90006300-SEP 16080KWH - COTTAM BOOSTER STN 616 01-Nov-2017 14-Nov-2017

3,868.84 70-5-0700-7420 002073 Electricity

060150 FRANKLIN EMPIRE 14516389 METER #27 615 29-Sep-2017 16-Nov-2017

70-7-0700-8750 002205 6,019.54 Watermains 70-7-0700-8750 002205 Watermains 120.39

HYDRO ONE NETWORKS INC 080250

200141680894: SEP/17 HYDRO - LEAM. WATER TOWER 616 30-Oct-2017 14-Nov-2017

70-5-0700-7420 002073 -31.38 Electricity 70-5-0700-7420 002073 Electricity 443.25

200141682009 SEP/17 HYDRO - ALBUNA WATER TOWER 616 30-Oct-2017 14-Nov-2017

70-5-0700-7420 002073 Electricity -28.15

70-5-0700-7420 002073 Electricity 397.61 Page 39 of 41 200141683019 SEP/17 HYDRO - METER#3 616 30-Oct-2017 14-Nov-2017

70-5-0700-7420 002073 Electricity -2.74

Council/Board Report By Dept-(Computer)

NOV/17 UNION WATER LOAN 3724:1

002020 006901

002010 006901

NOV-17

70-5-0700-6100

70-5-0700-6000

Vendor : 001410 To PT00000115

Batch : ΑII

Department :

AP5130 Date:

Nov 17, 2017

65

Page:

615 01-Nov-2017 16-Nov-2017

Department Totals:

121,188.10

16,493.94

Cheque Print Date: 06-Nov-2017 **To** 17-Nov-2017

Bank: 07 To 08

Class: All

Department :	All				Class: All		
Vendor Invoice	Vendor Name Description					Batch Invc Date	Invc Due Date
G.L. Account	CC1	CC2	CC3	GL Account Name			Amount
DEPARTMENT 70-5-0700-7420			n Water Sy	stem Electricity			38.76
	SEP/17 HYDRO -		5	,		616 30-Oct-2017	14-Nov-2017
70-5-0700-7420	00207	3		Electricity			-2.51
70-5-0700-7420	00207	3		Electricity			35.44
	SEP/17 HYDRO -		6			616 30-Oct-2017	14-Nov-2017
70-5-0700-7420 70-5-0700-7420				Electricity Electricity			-2.41 34.01
995929	LAKESIDE PRO		NTPOLS I	•			34.01
	6" MAGNETIC FL					615 20-Oct-2017	16-Nov-2017
70-7-0700-8750			IN - IVIL I L	Watermains		013 20-001-2017	6,074.53
150365	ONTARIO CLEA	N WATER	AGENCY				,
INV000098179	OCT/17 OPER&N	ITCE				615 31-Oct-2017	16-Nov-2017
70-5-0700-6720	00207	1		OCWA Operating Contract			223,405.71
INV000098424	UWSS M&T & SC	ADA UPG	SRADES			615 27-Oct-2017	16-Nov-2017
70-5-0700-7989	00207)		Operational Programs & Studies			28,250.00
160530	PRICEWATERHO	OUSE CO	OPERS LL	.P			
	RESTRUCTURIN		JLTANT	5		615 31-Oct-2017	16-Nov-2017
70-5-0700-7950)		Professional Services			30,262.11
180190	RICCI ENNS						
58657 70-5-0700-7950	LEGAL FEES - R 002070		URING	Professional Services		615 27-Oct-2017	16-Nov-2017 2,666.80
180325	RICOH CANADA			Fiblessional Services			2,000.00
	COPIER CONTR		ose OCTS	0		615 31-Oct-2017	16-Nov-2017
70-5-0700-7010			20-0013	Office Supplies		013 31-06-2017	85.52
190185	SGS CANADA IN	C. ENVIR	ONMENT	AL SERVICES			
11103633	WATER QUALITY	STUDIES	S CORRO	SION-LEAMINGTON		615 30-Oct-2017	16-Nov-2017
70-5-0700-7989	00207	5		Operational Programs & Studies			98.31
11103709	WATER QUALITY	STUDIES	S CORRO	SION-KINGSVILLE		615 30-Oct-2017	16-Nov-2017
70-5-0700-7989	00207	5		Operational Programs & Studies			98.31
11103738			S CORRO	SION-LAKESHORE		615 30-Oct-2017	16-Nov-2017
70-5-0700-7989				Operational Programs & Studies			98.31
11104156 70-5-0700-7989	WATER QUALITY 00207		S CORRO			615 30-Oct-2017	16-Nov-2017 98.31
70-5-0700-7989 11104159	WATER QUALITY		S COPPO	Operational Programs & Studies		615 30 00+ 2017	
70-5-0700-7989			3 CORRO	Operational Programs & Studies		615 30-Oct-2017	16-Nov-2017 1,751.50
190755	SUN LIFE ASSU		OMPANY				.,
			·				

Page 40 of 41

Debenture Interest

Debenture Principal

Council/Board Report By Dept-(Computer)

Vendor:

Batch:

Department :

001410 To PT00000149 All



AP5130 Date:

Dec 01, 2017

36

Page:

Cheque Print Date : 20-Nov-2017 То 01-Dec-2017

Bank: 07 To 08

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

080250 HYDRO ONE NETWORKS INC

200141677460 OCT/17 HYDRO - RUTHVEN WTP 637 08-Nov-2017 22-Nov-2017 70-5-0700-7420 002073 76,276.45 Electricity

200141680692 OCT/17 HYDRO - LOW LIFT 637 08-Nov-2017 22-Nov-2017

70-5-0700-7420 002073 Electricity 40.508.38 70-5-0700-7420 Electricity 002073 -5.33

200152134969 OCT/17 HYDRO - METER#17 637 08-Nov-2017 22-Nov-2017

70-5-0700-7420 002073 Electricity -2.42

70-5-0700-7420 002073 Electricity 34.12

200208899066 OCT/17 HYDRO - METER#16 637 14-Nov-2017 22-Nov-2017 -6.92 70-5-0700-7420 002073 Electricity

002073 97.81 70-5-0700-7420 Electricity

200220161473 OCT/17 HYDRO - METER#14 636 22-Nov-2017 30-Nov-2017 Electricity -2.5070-5-0700-7420 002073

70-5-0700-7420 002073 Electricity 35.32

995929 LAKESIDE PROCESS CONTROLS LTD. CD970033477 ROSEMOUNT MAGMETER - METER#14 636 08-Sep-2017 30-Nov-2017

70-7-0700-8750 002205 Watermains 5,628.19

210120 **UNION GAS LTD**

OCT-NOV17 17 165.867M3 GAS - COTTAM BOOSTER STN 637 10-Nov-2017 22-Nov-2017

70-5-0700-7410 002073 75.33

OCT-NOV17 2(9321.941M3 GAS - RUTHVEN WATER TREATMENT 636 21-Nov-2017 30-Nov-2017 70-5-0700-7410 002073 2,891.59

OCT-NOV17 21 488.549M3 GAS - LOW LIFT 636 23-Nov-2017 30-Nov-2017

70-5-0700-7410 002073 Gas 169.93

230440 **WILLIS BUSINESS LAW**

6819 LEGAL FEES - RESTRUCTURING 636 31-Oct-2017 30-Nov-2017

70-5-0700-7950 002070 **Professional Services** 10,143.17

230690 WJF INSTRUMENTATION (1990) LTD

21433 TURBIWELL LED TURBIDITY MONITOR W/DRAIN VALVE 636 14-Nov-2017 30-Nov-2017

70-7-0700-8795 Water Quality/Level Instrumentation 7,316.75

Department Totals: 143,159.87