

**THE UNION WATER SUPPLY SYSTEM**  
**JOINT BOARD OF MANAGEMENT**  
**AGENDA**  
**FEBRUARY 17, 2016**  
**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, January 20, 2016

Pages 3 - 8

**(D) Business Arising Out of the Minutes:**

**(E) Items for Consideration:**

1. UW/05/16 - Status Update of the UWSS Operations & Maintenance Activities and Capital Works to February 12, 2016  
Pages 9 - 10
2. UW/06/16 - Report dated February 12, 2016 re: Annual Report under the Safe Drinking Water Act and Ontario Regulation 170/03  
Pages 11 - 22
3. UW/07/16 - Report dated February 12, 2016 re: 2015 Summary Report the Municipalities under Regulation 170/03 made under the Safe Drinking Water Act  
Pages 23 - 31
4. UW/07/16 - Report of Payments from January 15 to February 12, 2016, dated February 12, 2016  
Pages 32 - 37

(F) **New Business:**

(G) **Adjournment:**

(H) **Date of Next Meeting:** Wednesday, March 16, 2016 in the Kingsville Community Room, Kingsville Arena.

/kmj

**THE UNION WATER SUPPLY SYSTEM**  
**JOINT BOARD OF MANAGEMENT**  
**MINUTES OF MEETING**  
**HELD JANUARY 20, 2016 AT 9 AM**  
**IN KINGSVILLE COMMUNITY ROOM - KINGSVILLE ARENA**

---

Members Present: Deputy Mayor MacDonald (Chair); Mayor Paterson, Councillors  
Dunn, Hammond, Verbeke - Leamington  
Mayor Nelson Santos (Vice-Chair); Councillors Gaffan, Neufeld  
(alternate), Patterson - Kingsville  
Councillor Diemer - Lakeshore

Members Absent: Councillor Jacobs - Leamington  
Councillor McIntyre - Kingsville  
Mayor McDermott - Essex

Staff Present: Shannon Belleau - Leamington

OCWA Staff Present: Dale Dillen, Dan Beaulieu

**Call to Order:**

The Manager calls the meeting to order at 9:01 am.

He briefly explains the election process to members of the board.

The Manager calls for nominations for the position of Chair.

**No. UW-01-16**

Moved by: Larry Verbeke

Seconded by: John Hammond

That Deputy Mayor MacDonald is nominated to the position of Chair to December 31,  
2016.

Carried

Deputy Mayor MacDonald accepts the nominations.

Page 2,  
January 20, 2016 - Union Water Supply System Joint Board of Management Meeting  
Minutes

---

**No. UW-02-16**

Moved by: Larry Paterson

Seconded by: Dan Diemer

That the nominations for the position of Chair of the UWSS Joint Board of Management are closed,

Carried

**No. UW-03-16**

Moved by: Larry Verbeke

Seconded by: Larry Paterson

That Deputy Mayor MacDonald is acclaimed as Chair of UWSS Joint Board of Management for 2016.

Carried

The Chair then assumes control of the meeting.

She then calls for nominations for the position of Vice-Chair.

**No. UW-04-16**

Moved by: Mayor Paterson

Seconded by: Bill Dull

That Mayor Santos is nominated for the position of Vice-Chair to December 31, 2016.

Carried

Mayor Santos accepts the nomination.

**No. UW-05-16**

Moved by: Larry Paterson

Seconded by: Larry Verbeke

That the nominations for the position of Vice-Chair for the UWSS Joint Board of Management are closed.

Page 3,  
January 20, 2016 - Union Water Supply System Joint Board of Management Meeting  
Minutes

---

Carried

**No. UW-06-16**

Moved by: John Hammond

Seconded by: Dan Diemer

That Mayor Santos is acclaimed as Vice-Chair of UWSS Joint Board of Management for 2016.

Carried

**Disclosures of Pecuniary Interest: None**

**Adoption of UWSS Joint Board of Management Minutes:**

**No. UW-07-16**

Moved by: Dan Diemer

Seconded by: Mayor Paterson

That Minutes of December 16, 2016 UWSS Joint Board of Management meeting be adopted.

Carried

**Business Arising Out of the Minutes: None**

**Report UW/02/16 dated January 14, 2016 re: Status of UWSS Operations & Maintenance and Capital Works to January 14, 2016**

The Manager informs members that the communications upgrade to Cottam Booster Station are still ongoing and he expects this item to be completed by the end of 2016. He then mentions that the coagulant pilot study program is progressing well and he has no concerns at this time.

The Manager informs members that the MOE inspection is scheduled for later in the week. He is confident that it will be a very thorough inspection in light of the crisis in Flint, Michigan.

The glass panels in filters 1 thru 4 have been removed in efforts to reduce backwash fumes from the new air wash system.

The Manager informs the members that the Low Lift Pump #3 inspection has been moved to February and also the Cottam Booster Pump #3 will be pulled and inspected next week.

Page 4,  
January 20, 2016 - Union Water Supply System Joint Board of Management Meeting  
Minutes

The Manager informs members that the flows are down slightly but with only 13 days into 2016 there is no way to predict flows at this time.

**No. UW-08-16**

Moved by: Larry Verbeke

Seconded by: Bill Dunn

That report UW/02/16 dated January 14, 2016 re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to January 14, 2016 is received.

Carried (UW/02/16)

**Report UW/03/16 dated January 13, 2016 re: Chief Drinking Water Inspector's Report and the Minister of Environment's Annual Report**

The Manager reminds members of the UWSS Board that these reports are produced annually and provide an overview of Ontario drinking water regulatory system. The CDWI's report provides the rating for all municipalities in Ontario and any changes in legislative and regulatory framework, health-based standards, reliable testing and public engagement.

The MOE's Annual report on drinking water provides and overview on drinking water system's performance. The Manager reminds members that OCWA collects all samples on behalf of UWSS.

Members ask the Manager if now is the time to let the public know how well tested and cared for their drinking water is. The Manager reminds members that all information regarding testing and inspections are all on the municipal websites as well as the UWSS's website.

**No. UW-09-16**

Moved by: Larry Patterson

Seconded by: Tony Gaffan

That the Manager prepare a press release regarding the water quality provided by UWSS.

Carried (UW/03/16)

Page 5,  
January 20, 2016 - Union Water Supply System Joint Board of Management Meeting  
Minutes

---

**No. UW-10-16**

Moved by: John Hammond

Seconded by: John Paterson

That report UW/03/16 dated January 13, 2016 re: Chief Drinking Water Inspector's Report and Minister of Environment's Annual Report is received.

Carried (UW/03/16)

The Manager provides the UWSS Board members a list of meeting dates for 2016.

**Report UW/04/16 dated January 14, 2016 re: Payments from December 12 to January 15, 2016**

**No. UW-11-16**

Moved by: Larry Verbeke

Seconded by: Thomas Neufeld

That report UW/04/16 dated January 14, 2016 re: Payments from December 12 to January 15, 2016 is received

Carried

**New Business**

The Manager asks the members for time to review the water crisis currently affecting Flint, Michigan. He provides a slide show (found in the media) regarding the time line and the series of events leading up to the crisis. The slideshow takes approximately 20 minutes to go through.

The Manager explains that at times it may feel like drinking water systems are overregulated but when a situation arises like Flint it is easy to see why regulations are in place. Members feel it is okay to be overregulated in order to avoid situations such as the Flint crisis.

There is a brief discussion regarding safeguards in place in Ontario vs. Michigan.

Page 6,  
January 20, 2016 - Union Water Supply System Joint Board of Management Meeting  
Minutes

---

**Adjournment:**

**No. UW-12-16**

Moved by: Tony Gaffan

Seconded by: Bill Dunn

That the meeting adjourn at 9:46 am

Carried

Date of Next Meeting: February 17, 2016 in the Kingsville Community Room, Kingsville  
Arena

/kmj



UW/05/16

**To:** Chair and Members of the Union Water Supply System Joint Board of Management

**From:** Rodney Bouchard, Union Water Manager

**Date:** February 12, 2016

**Re:** Status Update of UWSS Operations & Maintenance Activities and Capital Works to February 12, 2016



---

**Aim:**

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 January 20, 2016.

**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. The Operations Manager will be meeting with Watech Services the week of February 15-19, 2016 to discuss raw water intake repairs, Reservoir #2 Repairs and Sodium Hypochlorite line installation work for 2016.
3. Communication upgrades to Cottam are still ongoing.
4. The coagulant pilot study was shut off on January 25<sup>th</sup>, 2016 and is anticipated to start back up in June.
5. MOE inspection report for the UWSS water treatment system has not been received.
6. Low Lift pump #3 was removed for inspection and refurbishment
7. Cottam Booster pump #3 was removed for inspection and refurbishment
8. A new flow meter has been installed for Filter #3. A new flow meter will also be installed for Filter #1 during the week of February 15<sup>th</sup>, 2016.

February 12, 2016 - UW/05/16

Re: Status Update of UWSS Operations & Maintenance Activities and Capital Works  
to February 12, 2016

---

Comparative Flows for 2011 through 2015 in Millions of Imperial Gallons (for the period  
1 January to February 11, 2016)

	2012	2013	2014	2015	2016
Flow to Date (MG)	256.59	250.90	265.15	243.00	233.41
Max Day (MGD)	7.37	6.96	7.91	7.15	6.29
Min Day (MGD)	4.37	4.65	4.19	3.79	4.29
Average Day (MGD)	6.11	5.97	6.31	5.79	5.56
No of Days	42	42	42	42	42

Flows to date are down 9.59 MIG or 3.94% from last year. The 2016 flows to date are 7.89% below the previous 4 year average.

**Recommendation:**

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

Respectfully submitted,



Rodney Bouchard, P. Geo., Manager  
Union Water Supply System Joint Board of Management

rb/kmj

Filename: t:\union wtr\reports to board\2016\uw05-16 operations report for february 2016.docx

UW/06/16

To: Chair and Members of the Union Water Supply System Joint Board of Management

From: Rodney Bouchard, Union Water Manager

Date: February 12, 2016

Re: 2015 Annual Report under the Safe Drinking Water Act and Ontario Regulation 170/03



---

**Aim:**

To present to the Board the Annual Report for 2015 as required under Regulation 170/03 made under the Safe Drinking Water Act 2002.

**Background**

Section 11 of Regulation 170/03 made under the Safe Drinking Water Act 2002 requires that an Annual Report be prepared for a water system and submitted to any water systems that are supplied from that water system. This is required to be done before February 28 of the following year.

**Discussion**

The attached Annual Report has been prepared in accordance with O. Reg. 170/03. A copy has been provided to each of the four participating municipalities therefore satisfying the requirement that it must be received before February 28, 2016.

There were no instances in 2015 when the Union Water Supply System was out of compliance with the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders.

**Recommendation:**

That the Board receive the Annual Report for 2015 prepared under Section 11 of Regulation 170/03 made under the Safe Drinking Water Act 2002.

Respectfully submitted,



Rodney Bouchard, P. Geo., Manager  
Union Water Supply System Joint Board of Management

rb/kmj

Filename: t:\union wtr\reports to board\2016\uw06-15 annual report for 2015 (board report).docx



**Annual Performance Report**

**Union Water Area Supply System**

**Drinking Water System # 220000853**

**2015**



By the Ontario Clean Water Agency  
Dan Beaulieu  
Process & Compliance Technician  
[dbeaulieu@ocwa.com](mailto:dbeaulieu@ocwa.com)  
519-326-4447

Section 1 Drinking-Water System Number: 220000853  
 Drinking-Water System Name: Union Area Water Supply System  
 Drinking-Water System Owner: Union Area Water Supply System Joint Board of Management (Municipality of Leamington, Town of Kingsville, Town of Essex, Town of Lakeshore)  
 Drinking-Water System Category: Large Municipal Residential  
 Period being reported: 01/2015-12/2015



Section 2	<b>Population Served</b>	<b>60000</b>	
	Does your Drinking-Water System serve more than 10,000 people?	<b>YES</b>	
	Is your annual report available to the public at no charge on a web site on the Internet?	<b>YES</b>	
	Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	<b>UNION WATER SUPPLY SYSTEM, 1615 UNION AVE, BOX 340, RUTHVEN ON N0P 2G0</b>	
	Number of Designated Facilities served:	<b>N/A</b>	
	Did you provide a copy of your annual report to all Designated Facilities you serve?	<b>N/A</b>	
	Number of Interested Authorities you report to:	<b>N/A</b>	
	Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?	<b>N/A</b>	
	List all Drinking-Water Systems (if any), and their DWS Number which receive all of their drinking water from your system:	<b>MUNICIPALITY OF LEAMINGTON</b>	<b>220004992</b>
		<b>TOWN OF KINGSVILLE</b>	<b>220003403</b>
		<b>TOWN OF ESSEX</b>	<b>220003680</b>
		<b>TOWN OF LAKESHORE</b>	<b>260004995</b>
	Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?	<b>YES</b>	
	Indicate how you notified system users that your annual report is available, and is free of charge.	<b>PUBLIC ACCESS VIA THE WEB, PUBLIC REQUEST OR VIA MUNICIPAL OFFICES</b>	
	Indicate if you notified system users that your annual report is available and is free of charge using an alternate method	<b>AS REQUESTED</b>	

Drinking-Water System Number: 220000853  
 Drinking-Water System Name: Union Area Water Supply System  
 Drinking-Water System Owner: Union Area Water Supply System Joint Board of Management (Municipality of Leamington, Town of Kingsville, Town of Essex, Town of Lakeshore)  
 Drinking-Water System Category: Large Municipal Residential  
 Period being reported: 01/2015-12/2015



Section 3

**Facility Description**

*The Union Water Treatment Plant (UWTP) is a chemically assisted conventional filtration plant which draws water from Lake Erie. The UWTP supplies potable water to the Town of Kingsville, Municipality of Leamington, a portion of the Town of Essex and a portion of the Town of Lakeshore with an estimated service population of 60,000. The treatment process includes chemically assisted up-flow clarification, filtration with dual media filters, primary disinfection using chlorine gas and secondary disinfection using chloramination. Seasonally, the UWTP uses sodium hypochlorite at its intakes to control Zebra Mussel formation. There are also four water towers and a booster/storage located on the Union Water Supply System.*

Section 4

**Water Treatment Chemicals:**

**Zebra Mussel Control:**

Sodium Hypochlorite - (Seasonal)

**Clarification Chemical:**

Aluminum Sulfate - Coagulant (clarifier blanket build up only)

SternPAC - Coagulant

Hyper+ION 1090 - Coagulant

DelPAC 2020 - Coagulant

Magnafloc LT22S - (polymer) - Coagulant Aid

Powdered Activated Carbon - Taste and Odour Control

**Filtration:**

Cat-Floc 8103 Plus (polymer) - Seasonal Filter Aid

**Disinfection Method:**

Primary: Chlorine Gas

Secondary: Aqua Ammonia & Chlorine (to form chloramines)

Drinking-Water System Number: 220000853  
 Drinking-Water System Name: Union Area Water Supply System  
 Drinking-Water System Owner: Union Area Water Supply System Joint Board of Management (Municipality of Leamington, Town of Kingsville, Town of Essex, Town of Lakeshore)  
 Drinking-Water System Category: Large Municipal Residential  
 Period being reported: 01/2015-12/2015



Section 5

**Significant Expenses**

Were any significant expenses incurred to?

Install required equipment  
 Repair required equipment  
 Replace required equipment

**Significant Expenses**

Please provide a brief description and a breakdown of monetary expenses

2015 Capital Expenditures	
CAPITAL/PROJECTS	Expenditures
Low Lift Pump #2 Rehabilitation	\$20,159
Low Lift Lighting Upgrades (LED)	\$16,493
High Lift Pump #1 Upgrade	\$48,312
High Lift Pump #8 Rehabilitation	\$19,149
Main Wash #1 Upgrade with VFD	\$19,023
Turbidity Meter Replacements	\$18,375
Filter Meter Replacements	\$11,965
Filters 1-4 Upgrades: Valves, piping, etc.	\$11,856
Filter #2 and #4 Media Replacement	\$157,420
Carbon System Upgrades	\$16,696
Clarifier #1 Walkway Replacement	\$5,861
Essex Tower Exterior Safety Upgrades	\$41,797
SCADA and Communications Improvements	\$39,846
Master Billing Meter Upgrades	\$46,198
Wastewater Pumps - Rehabilitation	\$7,500
South Lagoon Maintenance & Residuals Management	\$17,188
Treatment Plant Building Enhancements	\$58,155
Leamington Tower Rehabilitation	\$1,172,952
<b>Total Expenditures</b>	<b>\$1,728,945</b>

Drinking-Water System Number: 220000853  
 Drinking-Water System Name: Union Area Water Supply System  
 Drinking-Water System Owner: Union Area Water Supply System Joint Board of Management (Municipality of Leamington, Town of Kingsville, Town of Essex, Town of Lakeshore)  
 Drinking-Water System Category: Large Municipal Residential  
 Period being reported: 01/2015-12/2015



Section 6

**AWQI's**

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
<b>AWQI #127342, Nov 11, 2015</b>	<b>E.Coli</b>	<b>2</b>	<b>cfu/100mL</b>	<b>Resample upstream and downstream, and again in 24hrs</b>	<b>12-Nov-15</b>
<b>AWQI #127342, Nov 11, 2015</b>	<b>Total Coliforms</b>	<b>18</b>	<b>cfu/100mL</b>	<b>Resample upstream and downstream, and again in 24hrs</b>	<b>12-Nov-15</b>



Drinking-Water System Number: 220000853  
 Drinking-Water System Name: Union Area Water Supply System  
 Drinking-Water System Owner: Union Area Water Supply System Joint Board of Management (Municipality of Leamington, Town of Kingsville, Town of Essex, Town of Lakeshore)  
 Drinking-Water System Category: Large Municipal Residential  
 Period being reported: 01/2015-12/2015



**Table 1**

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	No. of Samples Collected	Range of E.Coli Or Fecal Results		Range of Total Coliform Results		Number	Range of HPC Results	
	for period being reported	Minimum #	Maximum #	Minimum #	Maximum #	# of HPC Samples	Minimum #	Maximum #
Raw	52	<2	12	10	118			
Treated	54	0	2	0	18	54	<10	210

Drinking-Water System Number: 220000853  
 Drinking-Water System Name: *Union Area Water Supply System*  
 Drinking-Water System Owner: *Union Area Water Supply System Joint Board of Management (Municipality of Leamington, Town of Kingsville, Town of Essex, Town of Lakeshore)*  
 Drinking-Water System Category: *Large Municipal Residential*



Period being reported: 01/2015-12/2015

**Table 2**

**Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.**

	No. of Samples Collected for period being reported	Range of Results	
		Minimum	Maximum
<b>Turbidity</b>	8760	0	2
<b>Chlorine Free</b>	8760	0	0.26
<b>Chlorine Combined</b>	8760	1.34	2.67
<b>Fluoride</b>	N/A		

Drinking-Water System Number: 220000853  
 Drinking-Water System Name: Union Area Water Supply System  
 Drinking-Water System Owner: Union Area Water Supply System Joint Board of Management (Municipality of Leamington, Town of Kingsville, Town of Essex, Town of Lakeshore)  
 Drinking-Water System Category: Large Municipal Residential  
 Period being reported: 01/2015-12/2015



Table 3

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter:	Date Sampled	Result	Unit of Measure
5-Nov-2007 C of A 4854-77PHL7	North Settling Pond	6-Jan-15	4	mg/L
	North Settling Pond	3-Feb-15	22	mg/L
	North Settling Pond	9-Mar-15	3	mg/L
	North Settling Pond	7-Apr-15	6	mg/L
	North Settling Pond	11-May-15	<3.0	mg/L
	North Settling Pond	2-Jun-15	<3.0	mg/L
	North Settling Pond	6-Jul-15	<3.0	mg/L
	North Settling Pond	4-Aug-15	<3.0	mg/L
	North Settling Pond	8-Sep-15	3	mg/L
	South Settling Pond	16-Oct-15	<3.0	mg/L
	North Settling Pond	16-Oct-15	<3.0	mg/L
	South Settling Pond	9-Nov-15	<3.0	mg/L
	North Settling Pond	9-Nov-15	4	mg/L
	South Settling Pond	7-Dec-15	<3.0	mg/L
	North Settling Pond	7-Dec-15	<3.0	mg/L
Limit 25.0 mg/L	Annual Average:		4.6 mg/L	

Drinking-Water System Number: 220000853  
 Drinking-Water System Name: Union Area Water Supply System  
 Drinking-Water System Owner: Union Area Water Supply System Joint Board of Management (Municipality of Leamington, Town of Kingsville, Town of Essex, Town of Lakeshore)  
 Drinking-Water System Category: Large Municipal Residential



Period being reported: 01/2015-12/2015

**Table 4**

**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

Parameter	Sample Date	Result Value	Units	Exceedance
Antimony	12-Jan-15	0.1	ug/L	No
Arsenic	12-Jan-15	1.2	ug/L	No
Barium	12-Jan-15	15	ug/L	No
Boron	12-Jan-15	17	ug/L	No
Cadmium	12-Jan-15	<0.02	ug/L	No
Chromium	12-Jan-15	<2.0	ug/L	No
*Lead		n/a		
Mercury	12-Jan-15	<0.02	ug/L	No
Sodium	12-Jan-15	7.1	mg/L	No
Selenium	12-Jan-15	2	ug/L	No
Uranium	12-Jan-15	<0.05	ug/L	No
Fluoride	15-Dec-14	0.1	mg/L	No

\*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

TREATED DISTRIBUTION WATER	Sample Date (mm/dd/yyyy)	Sample Result	MAC	Exceedance	
		mg/L		MAC	1/2 MAC
Nitrite (N)	12/22/2015	< 0.1	10 mg/L	0	0
Nitrate (N)	12/22/2015	0.4	1 mg/L	0	0
Nitrate + Nitrite (N)	12/22/2015	0.4	10 mg/L	0	0
Ammonia (N) - Total	12/24/2015	0.38			

Drinking-Water System Number: 220000853  
 Drinking-Water System Name: Union Area Water Supply System  
 Drinking-Water System Owner:

*Union Area Water Supply System Joint Board of Management (Municipality of Leamington, Town of Kingsville, Town of Essex, Town of Lakeshore)*



Drinking-Water System Category: Large Municipal Residential

Period being reported: 01/2015-12/2015

**Table 5: Summary of Lead testing under Schedule 15.1 during this reporting period**

(Applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results	Number of Exceedances
		(min#) – (max #)	
<b>Plumbing</b>	<b>Please See Individual Annual Reports for Distribution System Information:</b> Leamington (220004992), Kingsville (220003403), Essex (220003680), and Lakeshore (260004995).		
<b>Distribution</b>	<b>Please See Individual Annual Reports for Distribution System Information:</b> Leamington (220004992), Kingsville (220003403), Essex (220003680), and Lakeshore (260004995).		

Drinking-Water System Number: 220000853  
 Drinking-Water System Name: Union Area Water Supply System  
 Drinking-Water System Owner: Union Area Water Supply System Joint Board of Management (Municipality of Leamington, Town of Kingsville, Town of Essex, Town of Lakeshore)  
 Drinking-Water System Category: Large Municipal Residential



Period being reported: 01/2015-12/2015

Table 6

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	12-Jan-15	<0.3	ug/L	No
Aldicarb	12-Jan-15	<3.0	ug/L	No
Aldrin + Dieldrin	12-Jan-15	<0.02	ug/L	No
Atrazine + N-dealkylated metabolites	12-Jan-15	<0.5	ug/L	No
Azinphos-methyl	12-Jan-15	<1.0	ug/L	No
Bendiocarb	12-Jan-15	<3.0	ug/L	No
Benzene	12-Jan-15	<0.5	ug/L	No
Benzo(a)pyrene	12-Jan-15	<0.005	ug/L	No
Bromoxynil	12-Jan-15	<0.3	ug/L	No
Carbaryl	12-Jan-15	<3.0	ug/L	No
Carbofuran	12-Jan-15	<1.0	ug/L	No
Carbon Tetrachloride	12-Jan-15	<0.2	ug/L	No
Chlordane (Total)	12-Jan-15	<0.04	ug/L	No
Chlorpyrifos	12-Jan-15	<0.5	ug/L	No
Cyanazine	12-Jan-15	<0.5	ug/L	No
Diazinon	12-Jan-15	<1.0	ug/L	No
Dicamba	12-Jan-15	<5.0	ug/L	No
1,2-Dichlorobenzene	12-Jan-15	<0.1	ug/L	No
1,4-Dichlorobenzene	12-Jan-15	<0.2	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	12-Jan-15	<0.01	ug/L	No
1,2-Dichloroethane	12-Jan-15	<0.1	ug/L	No
1,1-Dichloroethene	12-Jan-15	<0.1	ug/L	No
(vinylidene chloride)	12-Jan-15	<0.1	ug/L	No
Dichloromethane	12-Jan-15	<0.3	ug/L	No
2,4-Dichlorophenol	12-Jan-15	<0.1	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	12-Jan-15	<5.0	ug/L	No
Diclofop-methyl	12-Jan-15	<0.5	ug/L	No
Dimethoate	12-Jan-15	<1.0	ug/L	No
Dinoseb	12-Jan-15	<0.5	ug/L	No
Diquat	12-Jan-15	<5.0	ug/L	No
Diuron	12-Jan-15	<5.0	ug/L	No
Glyphosate	12-Jan-15	<25.0	ug/L	No
Heptachlor + Heptachlor Epoxide	12-Jan-15	<0.1	ug/L	No
Lindane (Total)	12-Jan-15	<0.1	ug/L	No
Malathion	12-Jan-15	<5.0	ug/L	No
Methoxychlor	12-Jan-15	<0.1	ug/L	No
Metolachlor	12-Jan-15	<3.0	ug/L	No
Metribuzin	12-Jan-15	<3.0	ug/L	No
Monochlorobenzene	12-Jan-15	<0.2	ug/L	No
Paraquat	12-Jan-15	<1.0	ug/L	No
Parathion	12-Jan-15	<3.0	ug/L	No
Pentachlorophenol	12-Jan-15	<0.1	ug/L	No
Phorate	12-Jan-15	<0.3	ug/L	No
Picloram	12-Jan-15	<5.0	ug/L	No
Polychlorinated Biphenyls(PCB)	12-Jan-15	<0.05	ug/L	No
Prometryne	12-Jan-15	<0.1	ug/L	No
Simazine	12-Jan-15	<0.5	ug/L	No
THM (NOTE: show latest annual average)	Please See Individual Annual Reports for Distribution System Information: Leamington (220004992), Kingsville (220003403), Essex (220003680), and Lakeshore (260004995).			
Temephos	12-Jan-15	<10.0	ug/L	No
Terbufos	12-Jan-15	<0.3	ug/L	No
Tetrachloroethylene	12-Jan-15	<0.2	ug/L	No
2,3,4,6-Tetrachlorophenol	12-Jan-15	<0.1	ug/L	No
Triallate	12-Jan-15	<10.0	ug/L	No
Trichloroethylene	12-Jan-15	<0.1	ug/L	No
2,4,6-Trichlorophenol	12-Jan-15	<0.1	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	12-Jan-15	<10.0	ug/L	No
Trifluralin	12-Jan-15	<0.5	ug/L	No
Vinyl Chloride	12-Jan-15	<0.2	ug/L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
None			

UW/07/16

**To:** Chair and Members of the Union Water Supply System Joint Board of Management

**From:** Rodney Bouchard, Union Water Manager

**Date:** February 12, 2016

**Re:** 2015 Summary Report for Municipalities under Regulation 170/03 made under the Safe Drinking Water Act



---

**Aim:**

To provide to the Board a Summary Report for Municipalities for 2015 as required under Schedule 22 of Regulation 170/03 made under the Safe Drinking Water Act 2002.

**Background**

Schedule 22 of O. Reg. 170/03 requires a water system owner to prepare a "Summary Report for Municipalities". This requirement is applicable only to large and small municipal residential water systems. The UWSS is classified as a large municipal residential water system since it provides drinking water to greater than 10,000 year round residents.

The Summary Report for the preceding year is to be prepared and issued by March 31 of the following year.

The Summary Report must be distributed by the owner of the water system. In particular it must be given to the council or board that owns the system. There are three ownership cases described under the Schedule:

- If the water supply is owned by a municipality then all members of council are to receive the report.
- If owned by a municipal service board established under Section 195 of the Municipal Act, 2001 then all members of that board are to receive the report.
- If owned by a corporation then the board of directors is to receive the report.

Although not explicitly covered by any of the situations above, the UWSS Board is clearly the owner of the Union Water Supply System for the purposes of the regulation.

Also, where a water system provides potable water to another system under contract then the owner of the supplying system shall give, by March 31, a copy of the Summary Report to the system being supplied. Since UWSS provides drinking water to the local municipal drinking water systems owned and operated by the Town of Lakeshore, Town of Essex, Town of Kingsville and Municipality of Leamington

February 12, 2016 - UW/07/16

Re: 2015 Summary Report under the SDWA and Ontario Reg. 170/03

---

The contents of the Summary Report for Municipalities must include the following:

1. A list of the requirements of the Safe Drinking Water Act and its Regulations that the water system failed to meet during the year covered including the duration of the failure.
2. A list of the requirements of the water system's Certificate of Approval, drinking water works permit or municipal drinking water license that the water system failed to meet during the year covered including the duration of the failure.
3. A list of any Orders that the water system failed to meet during the year covered including the duration of the failure.
4. For each of the above failures, a description of the measures taken to correct the failures.
5. A summary of the quantities and flow rates of the water supplied during the year covered "including monthly average and maximum daily flows and daily instantaneous peak flow rates." (Information is to enable the owner to assess the capability of the water system to meet existing and future uses.).
6. A statement that captures the comparison of the flow information above to the rated capacity and flow rates approved in the water supply's approval.

### Discussion

The attached Summary Report fulfils the requirements of Schedule 22 listed above. It will also fulfil the requirements for the municipalities when it is presented to each municipal council for the municipal water supply system supplied with water by the Union Water Supply System if council so wishes.

The UWSS and its participating municipalities were in compliance with all requirements of Ontario Drinking Water legislation and regulations in 2015.

### Recommendation

That the Board receive the Summary Report for 2015 which fulfils the requirements of Schedule 22 of Ontario Regulation 170/03; and

That the Summary Report be forwarded to the four participating municipalities namely the Town of Kingsville, Town of Essex, Town of Lakeshore, and Municipality of Leamington.

Respectfully submitted,



Rodney Bouchard, P. Geo., Manager  
Union Water Supply System Joint Board of Management

rb/kmj

Filename: t:\union wtr\reports to board\2016\uw07-15 summary report for 2015 (board report).docx



## UNION WATER SUPPLY SYSTEM SUMMARY REPORT 2015

For the Union Water Supply System  
(Made under Schedule 22 of Ontario Regulation 170/03, a regulation made  
under the Safe Drinking Water Act, 2002)

### EXPLANATION

Schedule 22 of Ontario Regulation 170/03, a regulation made under the Safe Drinking Water Act, 2002 requires that a large municipal residential drinking-water system must provide to its board members a Summary Report on various aspects of the system before March 31 of the following year. The Union Water Supply System is classed as a large municipal residential drinking-water system and all of the municipal water systems that obtain water from it are classified as large municipal residential drinking-water systems and are therefore subject to Schedule 22.

The Summary Report must list the following:

- The requirements of the Safe Drinking Water Act, 2002 that the system failed to meet during the period covered by the Summary Report
- The requirements of the regulations made under the Safe Drinking Water Act, 2002 that the system failed to meet during the period covered by the Summary Report
- Any condition of the drinking-water system's drinking water works permit or municipal drinking water license that the system failed to meet during the period covered by the Summary Report
- Any order that the system failed to meet during the period covered by the Summary Report, the duration of any such failure and any measures that were taken to correct such failure
- A summary of the quantities and flow rates of water supplied by the drinking-water system by monthly average and maximum daily flow rates and instantaneous peak flow rates
- A comparison of actual flow rates with rated capacity and flow rates in the systems approval

A drinking-water system that supplies water to another drinking water system must provide a copy of the Summary Report to that system's owner by March 31 of the year following the year covered in the Summary Report.

The sections below details the occasions on which the Union Water Supply System (UWSS) and the connected municipal water systems failed to meet the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders in 2015.

**Union Water Supply System (UWSS)**

The following provides details of occurrences where the Union Water Supply System was not in compliance with the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders.

**Non-Compliance Item:**

The following Adverse Water Quality Incident (AWQI) identified for the Union Water Supply System.

- AWQI #127342 - November 11, 2015, raw and treated samples were mistakenly both taken from the raw water sample tap. This resulted in an E. Coli count of 2 (two) and Total Coliform of 18 (eighteen). Re-sampling was completed later that same day, with a second set of samples taken the next day as per MOH instructions. All re-samples came back within normal operating parameters. The incident was ruled as an operator error.

**Leamington Water Distribution System****Non-Compliance Item:**

The following Adverse Water Quality Incident (AWQI) identified for the Leamington Distribution System that is supplied by the Union Water Supply System.

- AWQI #126344 - September 15, 2015, sample station SS-L-3 resulted in an adverse with a Total Coliform count of 2. Re-sampling was completed later that same day, with a second set of samples taken the next day. Samples taken at the identified station, upstream and downstream locations as instructed by the MOH. All the samples came back within normal operating parameters.

**Kingsville Water Distribution System**

There were no non-compliance or AWQIs identified for the portion of the Town of Kingsville water distribution system that is supplied by the Union Water Supply System in 2015.

**Essex Water Distribution System**

There were no non-compliances or AWQIs identified for the portion of the Town of Essex Water Distribution System that is supplied by Union Water Supply System in 2015.

**Lakeshore Water Distribution System**

There were no non-compliances or AWQIs identified for the portion of the Town of Lakeshore Water Distribution System that is supplied by Union Water Supply System:

**SUMMARY OF THE QUANTITIES AND FLOW RATES OF WATER SUPPLIED DURING THE PERIOD COVERED BY THE REPORT, INCLUDING MONTHLY AVERAGE AND MAXIMUM DAILY FLOWS, AND DAILY INSTANTANEOUS PEAK FLOW RATES**

The following sections provide information in regards to the Union Water Supply System's Permit to Take Water, issued under Ontario Regulation 387/04 and Drinking Water License issued under the Safe Drinking Water Act, 2002.

**Permit to Take Water**

The Union Water Supply System operated under Permit to Take Water (PTTW) Number 0685-6AKRP3 for January to March 2015 and 0816-9T9SVT for April to December 2015. The PTTW has the following flow conditions:

- Maximum Allowable Amount Taken per Minute (Litres/Min) 113,650
- Maximum Allowable Amount Taken Per Day (Litres/Day) 163,656,000

The maximum amounts of raw water taken during 2015 (see Table 1 below) are as follows:

- Maximum Amount Taken per Minute in 2015 (Litres/Min) 51,877
- Maximum Amount Taken Per Day in 2015 (Litres/Day) 74,704,000

The system did not exceed the PTTW limits in 2015.

**Drinking Water License**

The UWSS operates under Municipal Drinking Water Licence 041-01; issue Number 4 which has been issued for the period July 21, 2014 to July 20, 2019. The Certificate of Approval and licence had the following condition:

- The drinking water system shall not be operated to exceed 124,588 m<sup>3</sup>/d (27.4 MIGD) on any calendar day, conveyed from the treatment system to the distribution system.
- The maximum daily volume of water pumped into the distribution system was 71,369 m<sup>3</sup> (15.699 MIGD).

Tables 1A through 3B below provide the monthly average, maximum and peak flows for raw and treated water for the Union Water Supply System.

**Table 1A**  
**2015 Raw Water Taking from Lake Erie in Metric Units**

	Maximum Allowed Flow Rate (m3/Day)	Average Flow (m3/Day)	Maximum Flow (m3/Day)	Maximum Flow (Litres/Day)	Maximum Allowed Flow Rate (Litres/ Minute)	Peak Flow (Litres/ Minute)
January	163,656	25,911	33,219	33,219,000	113,650	23,068
February	163,656	31,731	47,749	47,749,000	113,650	33,159
March	163,656	45,257	57,038	57,038,000	113,650	39,609
April	163,656	39,434	50,801	50,801,000	113,650	35,278
May	163,656	50,106	62,397	62,397,000	113,650	43,331
June	163,656	53,541	71,490	71,490,000	113,650	49,645
July	163,656	55,513	74,704	74,704,000	113,650	51,877
August	163,656	57,380	66,353	66,353,000	113,650	46,078
September	163,656	55,672	64,801	64,801,000	113,650	45,001
October	163,656	40,336	53,176	53,176,000	113,650	36,927
November	163,656	28,893	38,189	38,189,000	113,650	26,520
December	163,656	24,155	28,305	28,305,000	113,650	19,656

**Table 1B**  
**2015 Raw Water Taking from Lake Erie in Imperial Units**

	Maximum Allowed Flow Rate (MGD)	Average Flow (MGD)	Maximum Flow (MGD)	Maximum Allowed Flow Rate (Gallons/ Minute)	Peak Flow (Gallons/ Minute)
January	36.00	5.70	7.31	25,000	5,074
February	36.00	6.98	10.50	25,000	7,294
March	36.00	9.96	12.55	25,000	8,713
April	36.00	8.67	11.17	25,000	7,760
May	36.00	11.02	13.73	25,000	9,531
June	36.00	11.78	15.73	25,000	10,920
July	36.00	12.21	16.43	25,000	11,411
August	36.00	12.62	14.60	25,000	10,136
September	36.00	12.25	14.25	25,000	9,899
October	36.00	8.87	11.70	25,000	8,123
November	36.00	6.36	8.40	25,000	5,834
December	36.00	5.31	6.23	25,000	4,324

**Table 2A****2015 Treated Water Flow Into Distribution System in Metric Units**

	<b>Maximum Allowed Flow Rate (m3/Day)</b>	<b>Average Daily Flow (m3/Day)</b>	<b>Maximum Daily Flow (m3/Day)</b>	<b>Peak Instantaneous Flow (Litres/ Second)</b>
January	124,588	26,159	32,494	376
February	124,588	29,771	36,331	420
March	124,588	34,033	38,654	447
April	124,588	38,023	48,442	560
May	124,588	48,014	57,948	670
June	124,588	47,133	56,361	652
July	124,588	53,129	69,826	808
August	124,588	54,535	64,053	741
September	124,588	51,773	61,333	709
October	124,588	37,592	48,317	559
November	124,588	27,349	35,310	408
December	124,588	22,870	26,743	309

**Table 2B****2015 Treated Water Flow Into Distribution System in Imperial Units**

	<b>Maximum Allowed Flow Rate (MGD)</b>	<b>Average Daily Flow (MGD)</b>	<b>Maximum Daily Flow (MGD)</b>	<b>Peak Instantaneous Flow (Gallons/ Second)</b>
January	27.4	5.75	7.15	83
February	27.4	6.55	7.99	92
March	27.4	7.49	8.50	98
April	27.4	8.37	10.66	123
May	27.4	10.56	12.75	147
June	27.4	10.37	12.40	143
July	27.4	11.69	15.36	178
August	27.4	12.00	14.09	163
September	27.4	11.39	13.49	156
October	27.4	8.27	10.63	123
November	27.4	6.02	7.77	90
December	27.4	5.03	5.88	68

**Table 3A**  
**2015 Treated Flow to Local Municipalities in Metric Units**

	<i>Leamington</i>		<i>Kingsville</i>		<i>Essex</i>		<i>Lakeshore</i>	
	Monthly Total (m3)	Average Day (m3/day)	Monthly Total (m3)	Average Day (m3/day)	Monthly Total (m3)	Average Day (m3/day)	Monthly Total (m3)	Average Day (m3/day)
January	379,308	12,236	302,286	9,751	68,319	2,204	40,720	1,314
February	382,908	13,204	321,325	11,080	64,251	2,216	31,323	1,080
March	473,988	15,290	403,246	13,008	65,674	2,119	33,544	1,082
April	606,859	20,229	527,080	17,569	75,194	2,506	39,108	1,304
May	704,455	22,724	596,248	19,234	74,366	2,399	42,483	1,370
June	756,412	25,214	585,189	19,506	76,125	2,538	41,864	1,395
July	833,006	26,871	650,055	20,970	76,451	2,466	42,451	1,369
August	844,208	27,233	653,089	21,067	72,783	2,348	42,647	1,376
September	837,285	27,910	752,975	25,099	79,570	2,652	47,592	1,586
October	565,554	18,244	478,606	15,439	63,390	2,045	36,543	1,179
November	399,612	13,320	317,092	10,570	63,167	2,106	32,483	1,083
December	360,911	11,642	295,724	9,539	67,573	2,180	40,720	1,314
<b>Total</b>	<b>7,144,506</b>	<b>19,510</b>	<b>5,882,915</b>	<b>16,069</b>	<b>846,863</b>	<b>2,315</b>	<b>471,478</b>	<b>1,288</b>

**Table 3A**  
**2015 Treated Flow to Local Municipalities in Imperial Units**

	<u>Leamington</u>		<u>Kingsville</u>		<u>Essex</u>		<u>Lakeshore</u>	
	Monthly Total (Imperial Gallons)	Average Day (MGD)	Monthly Total (Imperial Gallons)	Average Day (MGD)	Monthly Total (Imperial Gallons)	Average Day (MGD)	Monthly Total (Imperial Gallons)	Average Day (MGD)
January	83,436,096	2.69	66,493,624	2.14	15,028,079	0.48	8,957,148	0.29
February	84,227,985	2.90	70,681,619	2.44	14,133,244	0.49	6,890,097	0.24
March	104,262,784	3.36	88,701,719	2.86	14,446,260	0.47	7,378,648	0.24
April	133,490,318	4.45	115,941,391	3.86	16,540,368	0.55	8,602,557	0.29
May	154,958,437	5.00	131,156,224	4.23	16,358,233	0.53	9,344,954	0.30
June	166,387,379	5.55	128,723,584	4.29	16,745,159	0.56	9,208,793	0.31
July	183,235,704	5.91	142,992,110	4.61	16,816,869	0.54	9,337,915	0.30
August	185,699,799	5.99	143,659,496	4.63	16,010,022	0.52	9,381,029	0.30
September	184,176,952	6.14	165,631,345	5.52	17,502,953	0.58	10,468,776	0.35
October	124,404,488	4.01	105,278,602	3.40	13,943,851	0.45	8,038,336	0.26
November	87,902,351	2.93	69,750,489	2.33	13,894,798	0.46	7,145,261	0.24
December	79,389,321	2.56	65,050,186	2.10	14,863,982	0.48	8,957,148	0.29
<b>Total</b>	<b>1,571,571,614</b>	<b>4.29</b>	<b>1,294,060,390</b>	<b>3.53</b>	<b>186,283,818</b>	<b>0.51</b>	<b>103,710,661</b>	<b>0.28</b>

UW/08/16

**To:** Chair and Members of the Union Water Supply System Joint Board of Management

**From:** Rodney Bouchard, Union Water Manager

**Date:** February 12, 2016

**Re:** Payments for the UWSS from January 14 to February 12, 2016

---



**Aim:**

To provide the Board with a copy of payments made by the Union Water Supply System from January 14 to February 12, 2016.

**Recommendation:**

For information purposes.

Respectfully submitted,



Rodney Bouchard, P. Geo., Manager  
Union Water Supply System Joint Board of Management

rb/kmj

Filename: t:\union wtr\reports to board\2016\uw08-16 payments from jan to feb.docx





Vendor : 001410 To PT00000081  
 Batch : All  
 Department : All

Cheque Print Date : 14-Jan-2016 To 14-Jan-2016  
 Bank : 01 To 07  
 Class : All

Vendor Invoice	Vendor Name Description	Batch	Invc Date	Invc Due Date	Amount
G.L. Account	CC1 CC2 CC3 GL Account Name				
<b>DEPARTMENT 0700 Union Water System</b>					
<b>020120 BELL MOBILITY CELLULAR</b>					
514877178-JAN MONTHLY CELL PHONES			10 01-Jan-2016	14-Jan-2016	
70-5-0700-7110	002070 002083 Telecommunications Usage				44.07
<b>050003 E.L.K. ENERGY INC</b>					
40010915-NOV 1430KWH, OCEB - ESSEX WATER TOWER			674 31-Dec-2015	14-Jan-2016	
70-5-0700-7420	002070 Electricity				228.44
70-5-0700-7420	002070 Electricity				-22.85
40047150-NOV 105KWH, OCEB - METER#9			674 31-Dec-2015	14-Jan-2016	
70-5-0700-7420	002070 Electricity				34.04
70-5-0700-7420	002070 Electricity				-3.40
90006300-NOV 18680KWH - COTTAM BOOSTER STATION			674 31-Dec-2015	14-Jan-2016	
70-5-0700-7420	002070 Electricity				3,171.84
<b>080250 HYDRO ONE NETWORKS INC</b>					
200141687665 NOV/15 HYDRO - METER#21			674 31-Dec-2015	14-Jan-2016	
70-5-0700-7420	002070 Electricity				134.29
70-5-0700-7420	002070 Electricity				-13.42
<b>150365 ONTARIO CLEAN WATER AGENCY</b>					
INV000082954 DEC/15 OPER&MTCE			674 31-Dec-2015	14-Jan-2016	
70-5-0700-7420	002070 Electricity				217,498.03
INV000082992 WATER METERS (BILLING), SCADA			674 31-Dec-2015	14-Jan-2016	
70-7-0700-8750	002205 Watermains				6,977.75
70-7-0700-8780	SCADA System				10,735.00
INV000083051 WATER METERS (BILLING)			674 31-Dec-2015	14-Jan-2016	
70-7-0700-8750	002205 Watermains				18,867.61
<b>180325 RICOH CANADA INC</b>					
SCO90977528 DEC/15 COPIER LEASE			674 31-Dec-2015	14-Jan-2016	
70-5-0700-7010	002070 002060 Office Supplies				102.38
<b>230480 WFS LTD</b>					
4149101 - 385C PVC PIPE, CLAMPS, ELBOWS - CARBON PUMP SYSTEM			674 15-Dec-2015	14-Jan-2016	
70-7-0700-8745	700170 Treatment Plant				125.95
<b>Department Totals :</b>					<b>257,879.73</b>



Vendor : 001410 To PT00000081  
 Batch : All  
 Department : All

Cheque Print Date : 21-Jan-2016 To 21-Jan-2016  
 Bank : 01 To 08  
 Class : All

Vendor Invoice	Vendor Name Description				GL Account Name	Batch Invc Date	Invc Due Date	Amount	
G.L. Account	CC1	CC2	CC3						
<b>DEPARTMENT 0700 Union Water System</b>									
<b>080250 HYDRO ONE NETWORKS INC</b>									
200141677460	NOV/15	HYDRO - RUTHVEN WTP				680 31-Dec-2015	21-Jan-2016		
70-5-0700-7420	002070	Electricity						40,428.42	
200141680692	NOV/15	HYDRO - LOW LIFT				680 31-Dec-2015	21-Jan-2016		
70-5-0700-7420	002070	Electricity						16,397.96	
200141690190	DEC/15	HYDRO - METER#26				680 31-Dec-2015	21-Jan-2016		
70-5-0700-7420	002070	Electricity						114.21	
70-5-0700-7420	002070	Electricity						-11.42	
<b>190755 SUN LIFE ASSURANCE COMPANY OF CANADA</b>									
JAN-16		UNION WATER LOAN 3724:1				29 01-Jan-2016	21-Jan-2016		
70-5-0700-6000	002020	006901			Debenture Principal			2,555.03	
70-5-0700-6100	002010	006901			Debenture Interest			134,009.75	
<b>210120 UNION GAS LTD</b>									
DEC15 163 CT 12-914.268M3		GAS - COTTAM BOOSTER STN				680 31-Dec-2015	21-Jan-2016		
70-5-0700-7410	002070	Gas						270.03	
<b>Department Totals :</b>									<b>193,763.98</b>



Vendor : 001410 To PT00000081

Batch : All

Department : All

Cheque Print Date : 22-Jan-2016 To 28-Jan-2016

Bank : 01 To 07

Class : All

Vendor Invoice	Vendor Name Description				GL Account Name	Batch	Inv Date	Inv Due Date	Amount
<b>DEPARTMENT 0700 Union Water System</b>									
<b>030217 CANADIAN WATER NETWORK</b>									
2016CMWC11	2016 STUDIES CDN WATER NETWORK					45	01-Jan-2016	28-Jan-2016	
70-5-0700-7950	002070 002403 Professional Services								25,000.00
<b>080250 HYDRO ONE NETWORKS INC</b>									
200152134969	JAN/16 HYDRO					45	20-Jan-2016	28-Jan-2016	
70-5-0700-7420	002070 Electricity								43.51
70-5-0700-7420	002070 Electricity								-2.79
70-5-0700-7420	002070 Electricity								0.60
<b>120510 LIGHTING PLUS WHOLESALE WINDSOR</b>									
3001029	METER #27 MONO PANELS, BATTERIES					45	14-Jan-2016	28-Jan-2016	
70-7-0700-8750	002205 Watermains								6,915.60
<b>210120 UNION GAS LTD</b>									
JAN16 1615 U1	1-13944.790M3 GAS - RUTHVEN WTP					45	22-Jan-2016	28-Jan-2016	
70-5-0700-7410	002070 Gas								3,858.32
<b>Department Totals :</b>									<b>35,815.24</b>



Vendor : 001410 To PT00000074  
 Batch : 56 To 56  
 Department : All

Cheque Print Date : 04-Feb-2016 To 08-Feb-2016  
 Bank : 01 To 07  
 Class : All

Vendor Invoice	Vendor Name Description	Batch	Inv Date	Inv Due Date	Amount
G.L. Account	CC1 CC2 CC3 GL Account Name				
<b>DEPARTMENT 0136 A/P - Trade</b>					
<b>050003 E.L.K. ENERGY INC</b>					
40010915-DEC	12-1279KWH, OCEB - ESSEX WATER TOWER	56	01-Feb-2016	04-Feb-2016	
70-2-0136-0102	Accrued Liabilities				199.35
70-2-0136-0102	Accrued Liabilities				-19.93
40047150-DEC	12-99KWH, OCEB - METER#9	56	01-Feb-2016	04-Feb-2016	
70-2-0136-0102	Accrued Liabilities				32.92
70-2-0136-0102	Accrued Liabilities				-3.29
90006300-DEC	12-19200KWH, OCEB - COTTAM BOOSTER STATION	56	01-Feb-2016	04-Feb-2016	
70-2-0136-0102	Accrued Liabilities				4,258.57
<b>050195 ESSEX POWERLINES CORPORATION</b>					
220651-DEC15	12-16KWH, OCEB - METER#4	56	26-Jan-2016	04-Feb-2016	
70-2-0136-0102	Accrued Liabilities				63.43
70-2-0136-0102	Accrued Liabilities				-5.71
<b>080250 HYDRO ONE NETWORKS INC</b>					
200141683726	DEC/15 HYDRO - METER#15	56	25-Jan-2016	04-Feb-2016	
70-2-0136-0102	Accrued Liabilities				39.18
70-2-0136-0102	Accrued Liabilities				-3.92
<b>100048 JACQUES DAOUST COATINGS MANAGEMENT INC</b>					
PC#5 15-0026	PMT#5 - LEAM. WATER TOWER REHABILITATION	56	02-Feb-2016	04-Feb-2016	
70-2-0136-0102	Accrued Liabilities				1,099.14
PC#6 15-0026	PMT#6 LEAM. WATER TOWER REHABILITATION	56	02-Feb-2016	04-Feb-2016	
70-2-0136-0102	Accrued Liabilities				113,532.93
<b>Department Totals :</b>					<b>119,192.67</b>



Vendor : 001410 To PT00000074  
 Batch : 56 To 56  
 Department : All

Cheque Print Date : 04-Feb-2016 To 08-Feb-2016  
 Bank : 01 To 07  
 Class : All

Vendor Invoice	Vendor Name Description	Batch	Inv Date	Inv Due Date	Amount
G.L. Account	CC1 CC2 CC3 GL Account Name				
<b>DEPARTMENT 0700 Union Water System</b>					
<b>080250 HYDRO ONE NETWORKS INC</b>					
200141687564	DEC/15 HYDRO - METER#25	56	22-Jan-2016	04-Feb-2016	
70-5-0700-7420	002070 Electricity				39.18
70-5-0700-7420	002070 Electricity				-3.92
<b>210120 UNION GAS LTD</b>					
DEC-JAN16 UN 1-2216.820M3 GAS - LOW LIFT		56	26-Jan-2016	04-Feb-2016	
70-5-0700-7410	002070 Gas				614.07
<b>Department Totals :</b>					<b>649.33</b>

-----  
 Total Unpaid for Approval : 0.00  
 Total Manually Paid for Approval : 0.00  
 Total Computer Paid for Approval : 119,842.00  
 Total EFT Paid for Approval : 0.00  
 Grand Total ITEMS for Approval : 119,842.00