



# AGENDA

## LAWSS Board Meeting

Thursday, November 30<sup>th</sup>, 2017  
10 a.m.

Lambton Area Water Supply System – 1215 Fort Street, Sarnia, Ontario N7V 1M1

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### 1. Declaration Of Pecuniary Or Conflict Of Interest

### 2. Approval of Regular Agenda Minutes

*A copy of the minutes for the October 26<sup>th</sup>, 2017 meeting is attached to this agenda.*

“That the minutes of the October 26<sup>th</sup>, 2017 LAWSS board meeting be adopted.”

Moved by:

Seconded by:

Carried

### 3. LAWSS Monthly Financial Statements

*A copy of the September 2017 LAWSS budget statement and cash balance sheet is attached for review and approval.*

“That the Board accept the final financial statement and cash balance sheet for September 2017.”

Moved by:

Seconded by:

Carried

## 4. OCWA Operational Statements

*The operational statements, third quarter financial statement and other materials from OCWA for September 2017 are attached.*

“That the Board accepts the September 2017 operational statements, third quarter financial statement and other materials from OCWA.”

Moved by:  
Seconded by:  
Carried

## 5. 2017 Capital Projects

The following presents the 2017 Budget projects for Capital Work. *Summary of the capital and major maintenance projects including purchase orders (POs) issued and money spent for September 2017 is attached.*

### Items for Information:

- a) 2017 SCADA Work - \$150,000: Work Ongoing.
- b) Forest Standpipe Repainting (\$1,400,000): Forest Standpipe expected to be back in service early December. As part of the commissioning process about 4,500 m<sup>3</sup> of water will need to be wasted. The painting contractor has asked to come back in the spring to paint the roof given the fact that the cooler temperatures require a heated and covered area which is difficult to maintain on the roof since the roof supports part of the scaffolding system. This roof painting can be completed with the standpipe in service. It is noted that without the Forest Standpipe LAWSS energy bills at the East Lambton Booster Station have increased significantly. Hydro bills for 2017 for East Lambton Booster Station have increased over 2016 amounts in August, September, and October by 22%, 35% and 77% respectively.
- c) 2016 Engineering Studies - \$100,000: No update.
- d) Engineering Design of Generator Replacement Project - \$300,000: *A report on including a natural gas generator as part of the generator project is attached.*
- e) Maier Drain Water main Offset: Final tie in was completed on Thursday, November 23<sup>rd</sup>.
- f) Highlift Pump 3 (HLP3) (400 hp) Emergency Repair – \$75,899: Work ongoing.
- g) 2017 Reserve Project - Emergency Repair Increased Cooling Capacity in Electrical Room - \$50,000: Project Completed.

- h) 2016 Main Plant HVAC Replacement (Carryover) - \$587,383: Insulations work completed. Final work to be completed includes installation of thermometers on each unit heater and connection of heaters and humidity sensors to Building Automation System. Work expected to be completed by end of the year.

“Motion to move items (a) to (h) as information.”

Moved by:  
Seconded by:  
Carried/Defeated

## 6. Ongoing Issues

- a) Water Flows: *The water flow sheet for September 2017 is attached.*
- b) Corrosion Control Study for City of Sarnia: Draft report by CH2M Hill expected to be completed by January 2018.
- c) Letter from OCWA Regarding Root Cause of Spill of Chlorinated Water from RMS and Actions to Prevent a Reoccurrence: *Report from OCWA is attached.*
- d) Pipeline Crossing Standards with Submission Requirements for LAWSS: *The revised Pipeline Crossing Standard including submission requirements for pipelines is attached.*
- e) Draft Policy for Connection to LAWSS Transmission Mains: *The revised draft policy related to connection to LAWSS transmission mains is attached.*
- f) Twenty-Year Conceptual Engineering Design Options and Cost Estimates: *Letter received from Town of Plympton-Wyoming and Township of Warwick attached.* It is noted by the LAWSS General Manager that during the Request for Proposal (RFP) processes the consultants noted that the delivery date listed in the RFP was not achievable. Therefore, it was requested that they provide a realistic time schedule as part of the bidding process. AECOM, the successful proponent, suggested that they could complete the project within 3 to 4 months of award (September 28) however this will likely be delayed given that the waterCAD model for the Town of Plympton-Wyoming was released to them on November 16<sup>th</sup> and Lambton Shore’s draft model still needs to be forwarded to AECOM as of November 23<sup>rd</sup>. The LAWSS General Manager communicated to Plympton-Wyoming and Warwick that based on the study Stantec completed related to the request from Petrolia for LAWSS to supply them water it is pretty clear that the first step to increasing water supply capability from the ELBS is to upsize the pumps at ELBS which supply water to Town of Plympton-Wyoming and Township of Warwick.

## 7. New Business

- a) LAWSS Requirements under the Drainage Act: *Memo regarding this issue is attached.*
- b) LAWSS Twinning and Grid Reinforcement Project: The environmental assessment for this shovel-ready project was completed April 27, 2011 so the project needs to be implemented by April 27, 2021. A Board motion has indicated that LAWSS would need two-thirds funding from the federal and provincial governments to proceed. Are there any programs that LAWSS could apply to in order to get the funding? Are the members willing to allow LAWSS to apply for funding to complete this \$44 million project? Note that the \$14.5 million needed from LAWSS to complete the project would be saved from the 2019 and 2020 budgets (\$4 million per year) with the remaining money allocated in the 2021 budget. Any expected shortfall (\$2.5 Million) for this project would have to be borrowed. It is recommended that all LAWSS members support this project as without this project completed the replacement of LaSalle Line would be a similar price to the LAWSS members at about \$12 Million. The reason for the high cost of replacement is without the twinning project LAWSS would require LaSalle Line to be replaced in sections with by-pass installed to ensure a continuous supply of water to St. Clair Township.
- c) Fluoride Free Sarnia, Lambton Request to Present to LAWSS Board: Analia Davis from Fluoride Free Sarnia, Lambton requests to speak to the LAWSS Board for 30 minutes at the January 2018 LAWSS Board Meeting.

“Motion to approve a 30-minute presentation from Fluoride Free Sarnia, Lambton at the LAWSS Board meeting in January.”

Moved by:

Seconded by:

Carried/Defeated

- d) Monitoring and Verification of VFD on HLP6 for Q3 and Q4: During the completion of the monitoring and verification report it was learned that the loss of the use of our 400 hp jockey pump in March of 2017 has resulted in an additional energy cost of \$75,000 for LAWSS in 2017. The reason for this is instead of being able to use this 400 hp pump to deliver additional water this summer, LAWSS had to use the 800 hp pump. Further discussions with OCWA have revealed that OCWA performs vibration testing on LAWSS pump motors once every three years and no vibration analysis on the pumps. Given this incident this year and the failure of HLP6 several years ago which resulted in increased risk for LAWSS operations, LAWSS has asked OCWA for monthly vibration analysis of all pumps and motors moving forward. OCWA has identified a tool that can be used for this purpose and it is the LAWSS General Manager’s recommendation is that LAWSS purchase the tool and train OCWA staff to use the tool monthly on all our pumps and motors. The cost for this device is about \$10,000.

- e) Lambton College Research Project: *Pictures of the pilot dual media filter system are attached.* The pictures show the dual media test filter, other tanks to be used for teaching purposes (flocculation, sedimentation) and the tanks used to store treated water and a mixing tank to create turbid water. LAWSS General Manager provided the design of the pilot unit to test the impact of polymer loading at various concentrations to our filters. LAWSS staff will continue to work with and provide technical support to Lambton College and their newly hired Water and Wastewater Technician Student who will be conducting the experiments.
- f) Fees for Service Connections on LAWSS Transmission Mains: At the meeting related to the LAWSS connection policy a member suggested that LAWSS should charge for any residential, industrial, and commercial or agriculture connection. It is proposed that each new connection less than or equal to 1” would cost \$1,500 per connection. Connections greater than 2” would cost \$2,500 per connection. These cost reflect the time required by LAWSS and OCWA staff to approve and witness these connections.

“Motion to lift this new business item from table.”

Moved by:

Seconded by:

Carried/Defeated

- g) LAWSS Christmas Lunch: It is proposed that LAWSS Christmas Lunch take place on Tuesday, November 19<sup>th</sup> at noon or Wednesday, November 20<sup>th</sup> at noon at Big Fish on London Line.

## **9. IN-CAMERA Meeting**

The Board will adjourn to an in-camera meeting if necessary.

## **10. Chair to Rise and Report on the Matters of Public Concern from the In-Camera Session**

The Chair will report as required.

## **11. Adjournment/Next Meeting**

“That the LAWSS Board adjourn this meeting to its next board meeting to be held on Thursday, January 25<sup>th</sup>, 2018 at 10:00 am at the LAWSS water treatment plant.”

Moved by:

Seconded by:

Carried/Defeated

**pdf Attachments:**

1. Minutes of LAWSS Board Meeting October 26<sup>th</sup>, 2017
2. LAWSS Financial Statement – September 2017
3. LAWSS Cash Balance Sheet – September 2017
4. OCWA Monthly Operations Report – September 2017
5. OCWA Third Quarter Financial Report for LAWSS Ending September 2017
6. OCWA Data Report for LAWSS – September 2017
7. OCWA Health and Safety Work Order Status September 2017
8. OCWA Health and Safety Work Order Status Jan – September 2017
9. OCWA Work Order Status September 2017
10. OCWA Work Order Status Jan – September 2017
11. LAWSS Project List – September 2017
12. LAWSS Memo on Potential for Use of CHP Generator for Power Generation
13. LAWSS Flows September 2017
14. OCWA - Root Cause and Corrective Actions as a Result of Spill of Chlorinated Water from RMS at LAWSS
15. Revised LAWSS Pipeline Crossing Standards containing mapping requirements for telecommunication lines
16. Draft LAWSS Connection Policy Revision #2
17. Letter from Town of Plympton-Wyoming and Township of Warwick Sent to LAWSS
18. LAWSS Memo on Drainage Infrastructure – Municipal Drain & Order of Precedence
19. Pictures from Lambton College Research Project