

*A reminder . . .*

**The December Board Meeting will begin as usual at 10:00  
a.m. at the Administration Office.**

**Lunch with the Foundation Board of Directors and staff to  
follow the meeting.**

**Merry Christmas**



## Board of Directors

### *Notice of Meeting*

**December 10<sup>th</sup> - 10:00 a.m., Administration Office, Strathroy**

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#### **Tentative Agenda**

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1. Chair's Remarks
2. Declaration of Pecuniary Interests
3. Minutes
4. General Manager's Report
  - (i) GM's Report
5. Chair & Conservation Ontario Report

Verbal report from Conservation Ontario Council Meeting – December 7, 2015
6. Business Arising from Last Meeting
7. Conservation Area Reports
  - (i) Conservation Lands Update
  - (ii) Bell Mobility Lease
  - (iii) A.W. Campbell Railway Station
  - (iv) A.W. Campbell Sugar Shack
8. Water Resources Reports
  - (i) Current Watershed Conditions
  - (ii) WECI
9. Biology Reports
  - (i) Grants Implemented and Grants Applications by Biology Department
10. Planning
  - (i) Regulations Activity Summary Report
  - (ii) Lake Huron Shoreline Management Plan
  - (iii) Monthly Planning Summary
11. Finance Reports
  - (i) Revenue & Expenditure Report
  - (ii) November Disbursements
  - (iii) 2014 General Levy Update
  - (iv) 2016 Proposed Budget
  - (v) Lambton County Job Evaluation System 2008
  - (vi) AODA – IASR Training
  - (vii) Changes to Administration Manual
12. In Camera
13. New Business
14. Adjournment

Please contact Marlene (call 519-245-3710, 1-866-505-3710 or e-mail [mdorrestyn@scrca.on.ca](mailto:mdorrestyn@scrca.on.ca)) at the Administration Office by December 8<sup>th</sup>, if you are unable to attend.

December 10, 2015

Board of Directors Proposed Resolutions

2. It is requested that each Director declare a conflict of interest at the appropriate time, on any item within this agenda in that a Director may have pecuniary interest.
- 3.(i) Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
That the minutes of the Board of Directors meeting, held November 12, 2015, be approved as distributed.
- 4.(i) Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
That the Board of Directors acknowledges the General Manager's report, dated December 1, 2015.
- 5.(i) Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
That the Board of Directors acknowledges the verbal report from the Conservation Ontario Council meeting of December 7, 2015.
- 6.(i) Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
That the Board of Directors acknowledges the updates on business arising from the November 12, 2015 meeting.
- 7.(i) Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
That the Board of Directors acknowledges the Conservation Lands report, dated November 24, 2015 outlining the maintenance and development activities on Conservation Lands for 2015.
- 7.(ii) Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
That the Board of Directors acknowledges the L.C. Henderson tower lease renewal report dated November 25, 2015 and approves the execution of a 20 year lease with Bell Mobility.
- 7.(iii) Moved by: \_\_\_\_\_ Second by: \_\_\_\_\_  
That the Board of Directors acknowledges the report, dated November 25, 2015 on the A.W. Campbell Conservation Area Railway Station and approves the recommendation outlined in the report.
- 7.(iv) Moved by: \_\_\_\_\_ Second by: \_\_\_\_\_  
That the Board of Directors acknowledges the report dated November 25, 2015 on the A.W. Campbell Sugar Shack building and approves the recommendations outlined in the report.
- 8.(i) Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
That the Board of Directors acknowledges the report dated November 27, 2015 on the current watershed conditions and Great Lakes water levels.

- 8.(ii) Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated November 27, 2015 on the ongoing Water and Erosion Control Infrastructure projects across the watershed.
- 9.(i) Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated November 30, 2015 on grants currently being implemented by the Biology Department, and grant applications update.
- 10.(i) Moved by: Seconded by:  
That the Board of Directors acknowledges and concurs with the Regulations Activity Summary Report on "Development, Interference with Wetlands & Alterations to Shorelines & Watercourses" Regulations (Ontario Regulation 171/06), for October 2015.
- 10.(ii) Moved by: Seconded by:  
That the Board of Directors acknowledges the status of the Lake Huron Shoreline Management Plan and consultation that has occurred to date and further...  
Option A  
approves the current plan as presented on the website Fall 2015.  
Option B  
defers approval of the plan until 2016 works have been completed and appropriate revisions have been made to the plan.
- 10.(iii) Moved by: Seconded by:  
That the Board of Directors acknowledges the St. Clair Region Conservation Authority's monthly Planning Activity Summary Report for October 2015.
- 11.(i) Moved by: Seconded by:  
That the Board of Directors acknowledges the revenue and expenditure report to October 31, 2015, as it relates to the budget.
- 11.(ii) Moved by: Seconded by:  
That the Board of Directors approves the November 2015 disbursements as presented in the amount of \$616,783.31.
- 11.(iii) Moved by: Seconded by:  
That the Board of Directors acknowledges the status report on the 2015 general levy receipts to date.
- 11.(iv) Moved by: Seconded by:  
That the Board of Directors acknowledges the 2016 proposed forecast budget of \$5,189,355 with a municipal general levy of \$701,455 including finalized Modified Current Value Assessment values, updates to specific projects and municipal comments received to date.



# Staff Report

4.(i)



To: Board of Directors  
Date: December 1, 2015  
From: Brian McDougall, General Manager  
Subject: General Manager's Report

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## Staff Accomplishments

- ❖ Muriel Andreae – former Manager of Biology (retired spring of 2015)
  - subsequent to her retirement, Authority staff nominated Muriel for the Latornell Leadership Award
  - these awards recognize individuals who have demonstrated life-long, outstanding contributions to the field of conservation through their innovation, leadership and dedication to the conservation field where they have gone beyond the call of duty in their work duties, personal activities and/or community involvement
  - Muriel's work with the Authority as well as her involvement with London Nature and the Thames Talbot Land Trust were highlights that made her nomination impossible to ignore
  - We congratulate Muriel on this award and her career with us
  
- ❖ Tim Payne – Forest Management Specialist
  - has been an Associate Member of the Ontario Professional Foresters Association (OPFA) since 2008
  - has been elected to a two year term on the OPFA Council as the representative for Southwestern Ontario
  - the position on Council will require participation in Council and committee meetings and teleconferences which will be completed on personal time
  - we congratulate Tim on his election to OPFA Council

2015

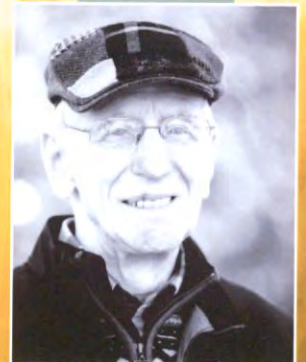
# Latornell Leadership Awards

From 1999 to 2013, the Latornell Conservation Symposium honoured individuals who have demonstrated life-long, outstanding contributions to the field of conservation. They were recognized for their innovation, leadership and dedication to the conservation field. Either through their personal activities and/or leadership, they have gone beyond the call of duty or responsibility to an employer, client, or their community.

These individuals have helped to celebrate and inspire innovation in the conservation field and have made a difference in their field of expertise. Nominees have encouraged and motivated

others to take similar leadership roles towards conservation work. To commemorate the 20<sup>th</sup> Anniversary of the Symposium in 2013, it was decided to revise this award in order to also recognize individuals who have made significant contributions at any time, for any duration – and not just over the course of their entire lifetime as long as their achievements demonstrate leadership accomplishments. To reflect this, the award was renamed the Latornell Leadership Award.

Nominations are reviewed and evaluated by a special sub-committee of the Latornell Steering Committee.



**LATORNELL**  
CONSERVATION SYMPOSIUM

## Muriel Andreae | London, ON



From a young age, Muriel Andreae has been captivated by natural history and botany. As a child, she grew up being very much involved with London's local naturalist club, Nature London (NL). From 1983 to 1991, Muriel served as Recording Secretary; in 2013 she became Vice President of NL. Since 2014, Muriel has served as the club's President. During her recent tenure, she has been involved in strategic planning and led actions to help protect Ontario's pollinators.

In 1998, Muriel helped develop the Thames Talbot Land Trust (TTLT) where she diligently worked to protect natural areas. She provided strong leadership, as a Director from 2004 to 2006, and President from 2006 to 2010. She served on various committees including Land Securement, Property Management, and Governance.

While involved in conservation as a volunteer, Muriel worked for the St. Clair Region Conservation Authority (SCRCA) from 1981 to 2015 in land management, water management, planning and research, including working with the Board of Directors to explain water quality and the interactions between land use and water.

She played a critical role in projects and programs relating to Healthy Lake Huron, Lake St. Clair Coastal Habitat, Sydenham River Recovery Team (Co-chair), Watershed Report Cards, the Lambton Natural Heritage Study and the Ontario Freshwater Mussel Recovery Team. She also played an important role in the development of a partnership between Conservation

*Nominated by: St. Clair Region Conservation Authority*

Authorities and Fisheries and Oceans Canada for municipal drainage review programs.

Muriel was instrumental in the formation of strong agency partnerships which helped achieve significant accomplishments for the recovery of endangered and threatened fish and freshwater mussel species at risk. This included the completion of Canada's first aquatic ecosystem-based recovery strategy, on the Sydenham River. She promoted the conservation of species at risk and partnered with DFO and other agencies to advance many research and monitoring projects over the years. She also helped facilitate stewardship and outreach programs that improved habitats in the Sydenham River watershed (more than \$1.2M in federal funding).

Muriel's passion for nature has been inspiring and contagious to many young people in the conservation field, working under her supervision. She has led countless hikes, sharing her vast knowledge of wildflowers, trees and plants. She has trained education staff, spoken on Conservation Authority bus tours and given municipal council presentations on challenging topics such as species at risk.

Through outreach and education she has raised local awareness of natural treasures and the actions required for their protection. Her successful career in preserving natural heritage shows that with determination, future generations will be able to explore good quality habitat in Lambton and Middlesex Counties.

## Ian Buchanan | Newmarket, ON



Ian Buchanan developed an early connection with nature while spending his youth exploring the highlands of Scotland. He has worked to protect and restore the natural environment since the early 1980's. After graduating from the University of Guelph in Fish and Wildlife, he worked with the Ontario Ministry of Natural Resources (OMNR) developing partnerships and restoring species and their habitats, including reintroduction of Atlantic salmon, peregrine falcon and wild turkey. He provided science and environmental leadership to priority initiatives such as the Toronto

Remedial Action Plan, Lake Simcoe Environmental Management Strategy, and authored the Lake Simcoe Muskellunge Reintroduction Feasibility Study.

Environmental education and connecting people with nature were always a priority. Ian championed the first Urban Fisheries Festivals in the early 1990's, delivered classroom and field programs, and implemented many tree planting and habitat restoration projects. For over 18 years he worked for the OMNR in the Greater Toronto Area as ecologist, supervisor and Fish and Wildlife lead, to advance natural heritage systems protection in pressured landscapes.

Since 2002, Ian has worked as Manager Natural Heritage and Forestry with the Regional Municipality of York. He leads environmental initiatives including; the Greening Strategy, management of the York Regional Forest, and delivery of Urban Forest programs including invasive species. He is recognized as an environmental expert by Regional Council and his peers, and helps to develop

*Nominated by: Environmental Services, Regional Municipality of York*

legislation, policy and guidelines that protect and restore natural areas. He has nurtured partnerships with the Nature Conservancy of Canada, land trusts and Conservation Authorities which have protected thousands of acres of land.

Ian takes pride in managing the York Regional Forest, which is Canada's first publicly owned Forest Stewardship Council (FSC) certified forest. He also spearheaded the construction of accessible trails and the Bill Fisch Forest Stewardship and Education Centre. The all wood building targets LEED platinum and will be one of Ontario's first Living Building Challenge certified buildings.

One of Ian's most significant accomplishments was protecting Rouge Park, and contributing to Parks Canada's advancement of Canada's first national urban park, the Rouge National Urban Park. He was asked to provide direction on legislation to create the park, and spoke at both the House of Commons Environment committee and at the Senate on the importance of nature in and around urban areas. He is a strong advocate of the urban forest, and was appointed first chair of the Urban Forest Subcommittee of the Regional Public Works Commissioners of Ontario.

Ian is an Associate of the Faculty of Forestry, University of Toronto, was vice President and Director with the Ontario Forestry Association, and is a Director on the boards of both the Invasive Species Centre and Forests Ontario. Ian loves his work and has spent his career protecting the environment, and encouraging and inspiring youth and others to take action. His environmental leadership, passion and enthusiasm has driven change and made a difference.



## Master of Ceremonies | Peter Middleton

- Was one of Latonell Conservation Symposium's Leadership award recipients in 2013
- Has been a naturalist for over 50 years and an outdoor education teacher, principal and guide, with 25 of those years spent at the Bruce County Education Centre.
- Known to be a fine interpreter of the natural environment as a nature guide, and has guided groups to many areas of the globe to observe birds, animals and plants.



# **Staff Report**

6. (i)



To: Board of Directors  
Date: November 30, 2015  
From: Marlene Dorrestyn  
Subject: Business Arising from November 12, 2015 meeting

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1. That the Board review the Shoreline Management Plan and approve it as soon as possible. – *Shoreline Management Plan emailed to directors on November 24<sup>th</sup> and report under 10.(ii).*

# Staff Report

7.(i)



To: Board of Directors  
Date: November 24, 2015  
From: Kevan Baker, Director of Lands  
Subject: Conservation Lands Update

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Year in Review  
Conservation Areas:

## Warwick Conservation Area (Warwick Township):

- the new entrance roadway was completed prior to the start of the camping season; security gates to be installed on this roadway this fall
- 11 existing 15 amp campsites have been upgraded to 30 amp
- 20 acres of agricultural land was tendered and a 5 year lease was signed with the previous tenant (matched accepted offer)



## L.C. Henderson Conservation Area (Enniskillen Township):

- the main pavilion roof has been replaced with steel
- erosion protection works have been completed on the two weirs; this included additional rip rap and surfacing material
- 45 acres of agricultural land was tendered and a 5 year lease was signed with a new tenant (previous tenant moved away from the area)

## A.W. Campbell Conservation Area (Brooke/Alvinston & SW Middlesex):

- a new 200 amp hydro panel has been installed at the pool washroom building
- 4 new entrance gates have been installed & landscaping improvements have been completed at the main gate



- Conservation Area signage has been upgraded on Nauvoo Road at Shiloh Line
- 87 acres of agricultural land was tendered and a 5 year lease was signed with the previous tenant (matched accepted offer)

Other Conservation Areas:

- new property identification signs have been installed at Crothers Conservation Area and the Sinclair Property
- Wawanosh (Sarnia)- new security gates have been installed
- Strathroy Conservation Area – the entrance roadway has been upgraded with 2 new culverts and erosion protection (Municipality of Strathroy-Caradoc)
- Clark Wright (Strathroy – Caradoc) – new security gates have been installed into the workshop area; memorial bench installed; 2 board walks upgraded
- Peers Wetland (Chatham-Kent) – Sydenham Field Naturalist to construct a viewing deck adjacent to the wetland
- Bridgeview (Petrolia) – railings on the dam have been removed and stop logs are being replaced with new aluminium panels (Water Resource Department)
- Grass Cutting contracts - 14 authority (conservation areas) and Foundation owned properties have been tendered out to the private sector for grass cutting services; contracts are for a 3 year period; tenders closed on November 18<sup>th</sup>



McKeough Upstream Lands (St. Clair Township):

- Property 38 – a large wetland with a series of ponds has been completed



- over 1,100 acres of agriculture land (pasture, hay and cash crop) has been tendered; the majority of the previous tenants have matched the accepted offers and have been sent their 5 year lease.

#### Foundation Lands:

##### Sinclair Property (Dawn-Euphemia):

- a new property identification sign has been installed
- a new 5 year agricultural lease to be negotiated with Rural Lambton Stewardship Network



##### Gawne Property (Dawn Euphemia):

- 50 acres of agricultural land was tendered and a 5 year lease will be prepared with a new tenant

#### Keith McLean Conservation Lands (Chatham-Kent):

- a 50 x 65 ft gravel parking lot has been constructed
- 2 access gates have been installed at the Rose Beach Line entrance
- A new floor has been installed in one of the drainage system pump houses

#### Lambton County Lands:

##### Bowes Creek (St. Clair Township):

- forestry staff continue to manage the existing 50,000 seedlings planted on the property; this involves cutting weeds and grasses between the tree rows and applying herbicide within the rows.
- new entrance gates have been installed on the access laneway

##### Perch Creek (Sarnia):

- a new trail loop has been developed

# Staff Report

7.(ii)



To: Board of Directors  
Date: November 25, 2015  
From: Kevan Baker, Director of Lands  
Subject: LC Henderson Bell Tower Lease Renewal

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- LC Henderson Conservation Area is located on Petrolia Line just east of the Town of Petrolia
- the current Bell Tower was constructed in 1997 and a 20 year lease was signed with the Bell Mobility on March 6<sup>th</sup>, 1997 for \$4,500 per year
- as the current lease will expire in March of 2017 Bell Mobility is interested in entering into a new 20 year lease
- the proposed lease is for 4 – 5 year terms with the initial term rental fee of \$12,000.00 (similar to the annual rent the Foundation receives for the Rogers tower at McLean Conservation Lands)
- subsequent terms will include an increase of 10 % per term
- all utilities and commercial tax costs are paid by Bell Mobility
- revenue generated from the lease is used to offset maintenance costs at the conservation area.



# Staff Report

To: Board of Directors  
Date: November 25, 2015  
From: Kevan Baker, Director of Lands  
Subject: A.W. Campbell Railway Station Report

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## Background:

- the building was constructed in 1918 by the Canadian National Railway in the Village of Newbury and operated until 1966
- in 1969 the building was donated to the Conservation Authority by the village and moved to the conservation area
- it was used as an outdoor education building for many years with a theatre and class room
- with the development of the L.C. Henderson outdoor education center in the mid 1990's the majority of the educational classes were switch to this location; only the Maple Syrup program was offer out of the train station
- due to lack of bookings, the Maple Syrup program was eventually cancelled
- the camping emphasis has been directed towards the main camping area and we have started to naturalize most of the area around the railway station with trees or meadow



## Building Condition:

- the building is wood frame construction with the original wood siding and doors
- the roof was replaced approximately 15 years ago and will need to be upgraded soon
- there are no services to the building and it is being used only as storage for surplus supplies
- the cost to renovate to a usable state would be considerable and those funds may be best directed to the construction of a storage/staff facility within the main campground area
- the building has become an eye sore and serves no operational purpose
- the Village of Newbury through a local survey has decided not to move the building back to Newbury (email attached)



Recommendation:

- recommend to demolish the building

The following correspondence was received from the Village of Newbury:

**From:** Betty D Gordon [mailto:office@newbury.ca]

**Sent:** Wednesday, November 25, 2015 11:23 AM

**To:** Kevan Baker <kbaker@scrca.on.ca>

**Subject:** RE: A.W. Campbell Conservation Area

Hello Kevan – Newbury Council sent out a survey asking the residents of the Village of Newbury if they would like the train station moved back into the Village – they were given the price quoted to move the building and were asked to fill in yes or no on difference scenarios regarding the station. After all the returned surveys were read it was determined that the Village would not pursue having the train station moved to the Village. However Council has asked if it would be possible for a plaque to be posted in its place stating that the train station was once located in that spot and perhaps the plaque could be in the shape of a train or train station? Thank you for giving Newbury Council the opportunity and time to make a decision regarding the building. Betty

# Staff Report

7.(iv)



To: Board of Directors  
Date: November 25, 2015  
From: Kevan Baker, Director of Lands  
Subject: AW Campbell Sugar Shack Report

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- at the November 12<sup>th</sup> board meeting the Board of Directors discussed the Authority's involvement in the 2016 Syrup Festival at the AW Campbell Conservation Area (Brooke/Alvinston)
- this 2 day event runs in conjunction with the Alvinston Fire fighter's pancake breakfast at the Alvinston arena and generally occurs on the 3<sup>rd</sup> weekend in March
- during this weekend visitors learn about historic methods of maple syrup production via displays and demonstrations located in and around the current Sugar Shack (constructed in the early 1970's)
- to ensure that the Sugar Shack and surrounding area is ready for this weekend, staff started building renovations and improvements shortly after the above meeting
- during renovations staff observed other structural issues that were not previously observed or included in the November report
- prior to the investment of funds to upgrade the current building and in response to these new issues staff contacted the local building inspector to provide comment on the overall condition of the building



General deficiencies from the report (report has been included):

- due to wood rot and moisture penetration ceiling joists are no longer properly tied to the roof rafters
- roof trusses are non-manufactured and non-engineered and do not meet the Ontario Building Code (a number show various forms of wood rot)





- several holes were observed in the steel roof (entire steel roof would require replacement)
- the chimney, exterior to the building requires replacement and should be inspected by a certified inspector
- wall structure is inadequately constructed and in multiples locations exhibit wood rot
- bottom wall plate rests directly on the concrete slab with no moisture protection and shows significant wood rot
- multiple large cracks in the concrete slab are visible
- entire building is visibly not level
- structural framing members are distressed with wood rot



#### Inspectors Final Comment:

“As moisture ingress and foundation settling persist they may quickly affect the structural integrity of the building and become a safety concern”

#### Recommendations:

- it is apparent that the building was designed and constructed for temporary use and was intended to meet the Conservation Authority programs of the time
- from the Building Inspector’s report, staff would recommend that the building be closed to the public and not be open or used for this 2 day event.
- further the deficiencies outlined would all but require reconstruction of the building – the current cost estimate is 3 times the budget previously proposed for repairs
- staff would recommend that the building be demolished
- staff have also contacted organizers from the Firefighters to see if our involvement was critical to the success of their event; they have indicated that their event would not be affected if the Authority limits or discontinues the Maple Syrup program on that weekend





November 19, 2015

Mr. Kevan Baker  
St. Clair Regional Conservation Authority

Re: AW Campbell Conservation Area  
8477 Shiloh Line, Southwest  
Middlesex

### **AW Campbell Conservation Area Preliminary Inspection Report**

A site inspection was conducted on November 17, 2015 of the current structural state of the Maple Syrup Cabin. This report is intended to provide general deficiencies and reveal the overall condition of the structure; however, deficiencies may not be limited to this report and a Professional Engineer should be consulted.

#### **Roof Structure:**

Deflection of the ridge line is visible from the exterior of the building. Roof framing techniques are not consistent throughout the building. A ridge board, rafters and ceiling joists are provided at the east end of the building. Many of the ceiling joists are no longer properly tied to the roof rafters. This is due mostly to wood rot caused by moisture penetrating into the building. Without a proper tie, the rafters are pushing outwards and causing deflection. Multiple roof framing members appear to be undersized.

The west half of the building is constructed using non-manufactured roof trusses which are not consistently framed. The deflection on this ridge line is not as severe as the east half of the building. As non-manufactured roof trusses are not a traditional roof framing technique that is prescribed in Part 9 of the Ontario Building Code, a Professional Engineer of Ontario would be better suited to comment on this specifically.

Several holes in the steel roof were observed upon inspection allowing the ingress of moisture.

The brick on the chimney is spalling. The metal flashing has peeled up and requires repair. It is recommended that this wood burning fireplace be inspected by a W.E.T.T. certified inspector.

**Wall Structure:**

The Ontario Building Code requires a double top plate, which is to be lapped at the corners of the building to securely “tie” the structure together. In this case only a single top plate has been provided. The corners have been inconsistently fastened with plywood, or other ties.

In multiple locations the top plate has been greatly eroded due to wood rot. As a result roof framing members are not adequately supported. The bottom plate rests directly onto the concrete slab with no moisture protection. The bottom plates, wall studs and exterior siding have been visibly affected by the moisture and have begun to erode.

**Floor structure:**

The building is supported by a concrete slab. The slab does not appear to be adequately sized or extend below the frost depth. Multiple large cracks in the concrete slab are visible. A deflection of the entire building has been caused by this.

**Over All:**

The entire building appears to be deflecting and is visibly not level. The majority of the structural framing members have been significantly distressed by wood rot. As moisture ingress and foundation settling persist they may quickly affect the structural integrity of the building and become a safety concern. It is recommended that a Professional Engineer of Ontario be obtained to assess the overall building.

Should you have any questions or concerns please do not hesitate to contact myself directly.

Sincerely,

Brianne Wallace

**Building Inspector**

Municipality of Southwest

Middlesex [buildingdepartment@southwestmi](mailto:buildingdepartment@southwestmi)

[ddlesex.ca](http://ddlesex.ca) 519-287-2015

# Board Report

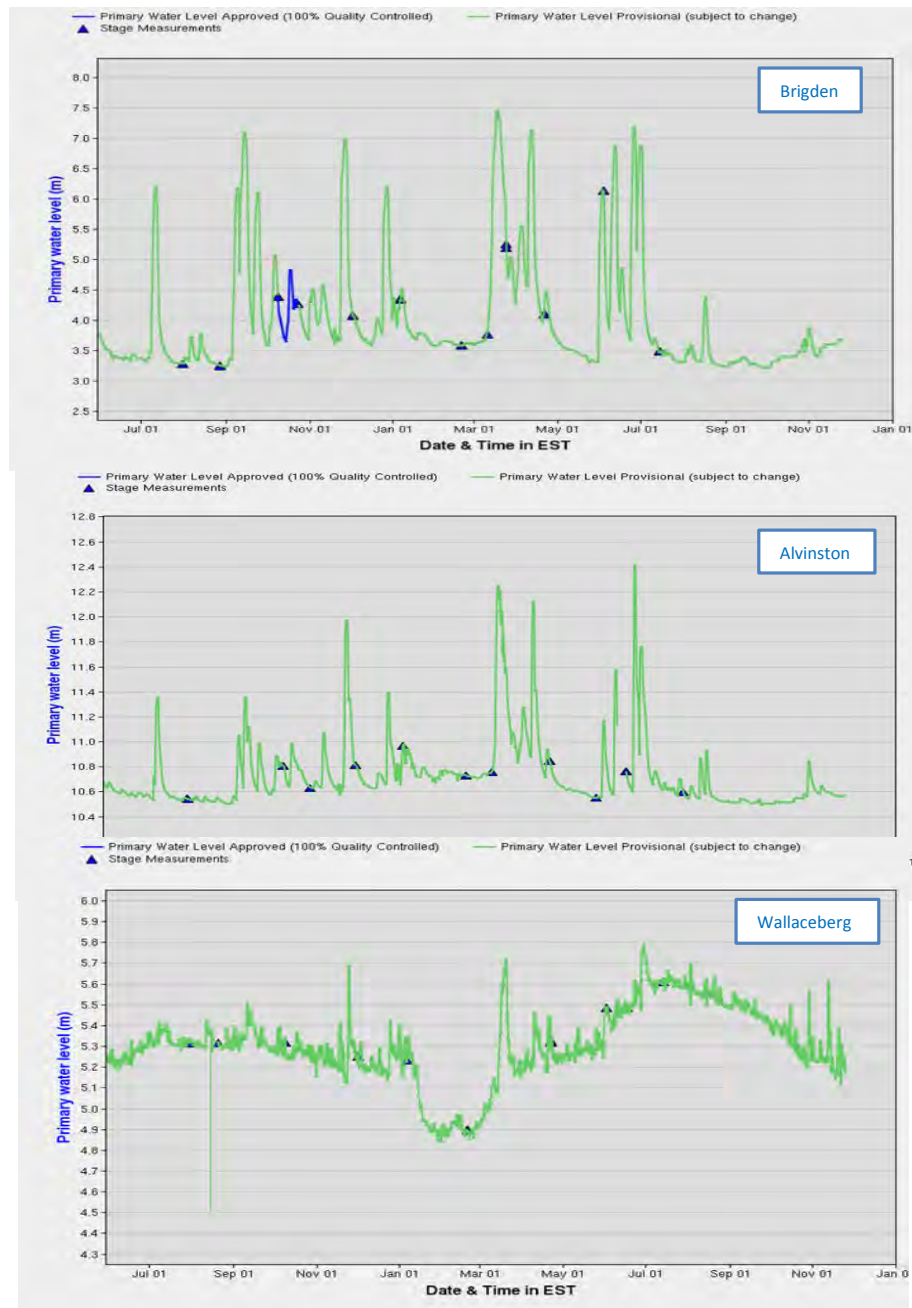
To: SCRCA Board of Directors 8.(i)  
Date: November 27, 2015  
From: Steve Clark, Water Resources Specialist  
Subject: Current Watershed and Lake Levels



## Precipitation and Streamflow Conditions

Fig 1. Station Level Comparison June 2014 to Nov 2015 – (WSC)

- With no significant rain events throughout November, watershed levels have remained lower than average at all stations
- Cool temperatures near the end of the month resulted in our first significant snowfall across the region. Gradual melting conditions followed by warmer than normal temperatures at the end of the month had very little impact on levels as this snow melted
- Comparisons (fig 1) of the past 18 month period reflect significantly lower levels than November 2014 as well as some of the lowest levels reported over the entire period.



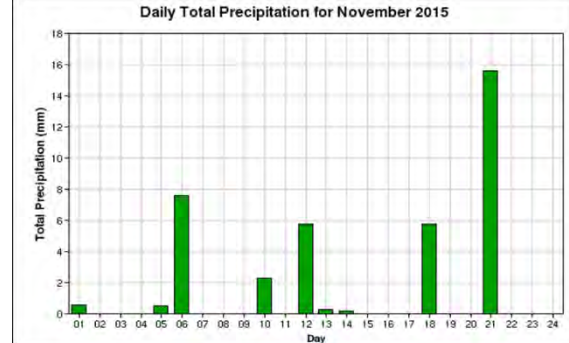
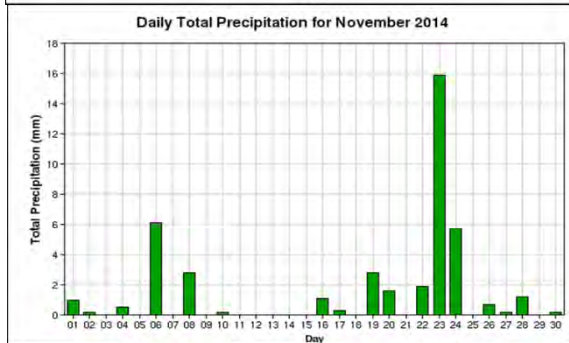
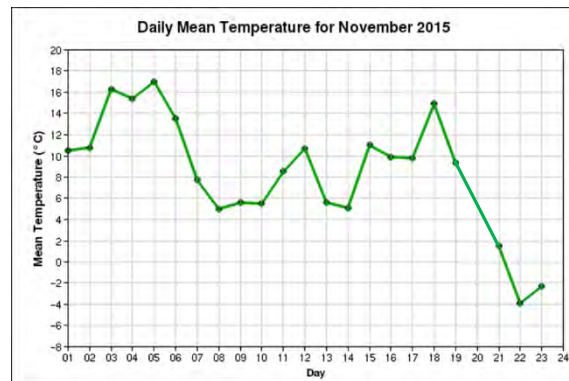
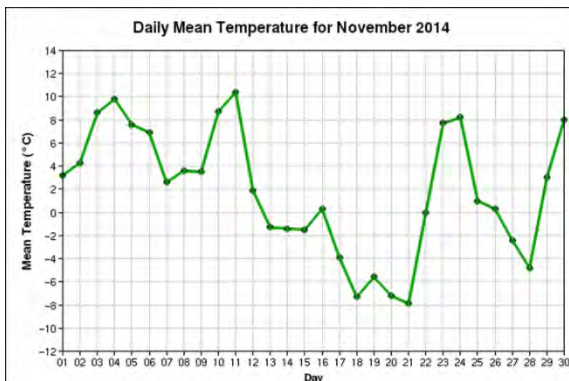
## Precipitation

While September was a notably dry month, conditions improved in November with a regional monthly average of **72%** however this did not improve the 3 month overall average of **78.7%** when compared with the August, September and October period last reported at **87%** mostly due to above normal August precipitation. Long term impacts were less significant with **100%** reported for 6 month and **81%** for the annual average. This pattern continues the 2015 trend of a below average year for precipitation overall.

Monthly % Normal	Sarnia	Strathroy	London	Windsor
November	76%	56%	73%	84%

Precipitation (mm)	Sarnia		Strathroy		London		Windsor	
Last Quarter	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal
November	58.2	76.4	52.6	94.5	66.4	91.1	63.1	75.5
October	72.3	66	88.7	70.8	71.3	77.6	79.8	64.9
September	48.9	94	32.8	89.8	63	97.7	82.7	96.2
Averages								
last 3 month totals	179.4	236.4	174.1	255.1	200.7	266.4	225.6	236.6
last 3 month % of normal	75.9%		68.2%		75.3%		95.4%	
regional average	<b>78.7%</b>							
last 6 month totals	418.4	473.1	504.3	483.4	473.5	520.7	570.9	487.9
last 6 month % of normal	88.4%		104.3%		90.9%		117.0%	
regional average	<b>100.2%</b>							
last 12 month totals	632.3	846.8	788.3	945.1	743.7	987	860.7	918.4
last 12 month % of normal	74.7%		83.4%		75.3%		93.7%	
regional average	<b>81.8%</b>							

Precipitation and temperature comparison for November 2014 versus 2015 shows less precipitation events (and subsequent total accumulation) and a generally warmer trend for the month.

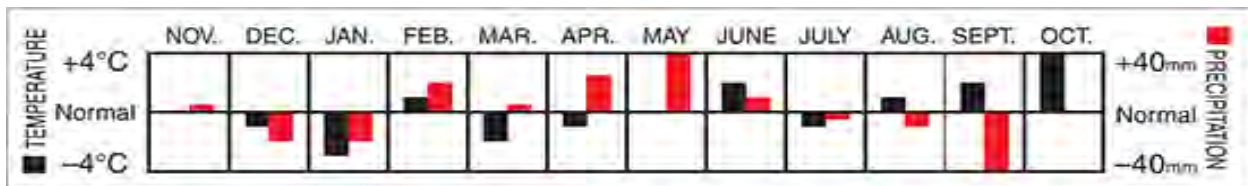


## Flood Threat

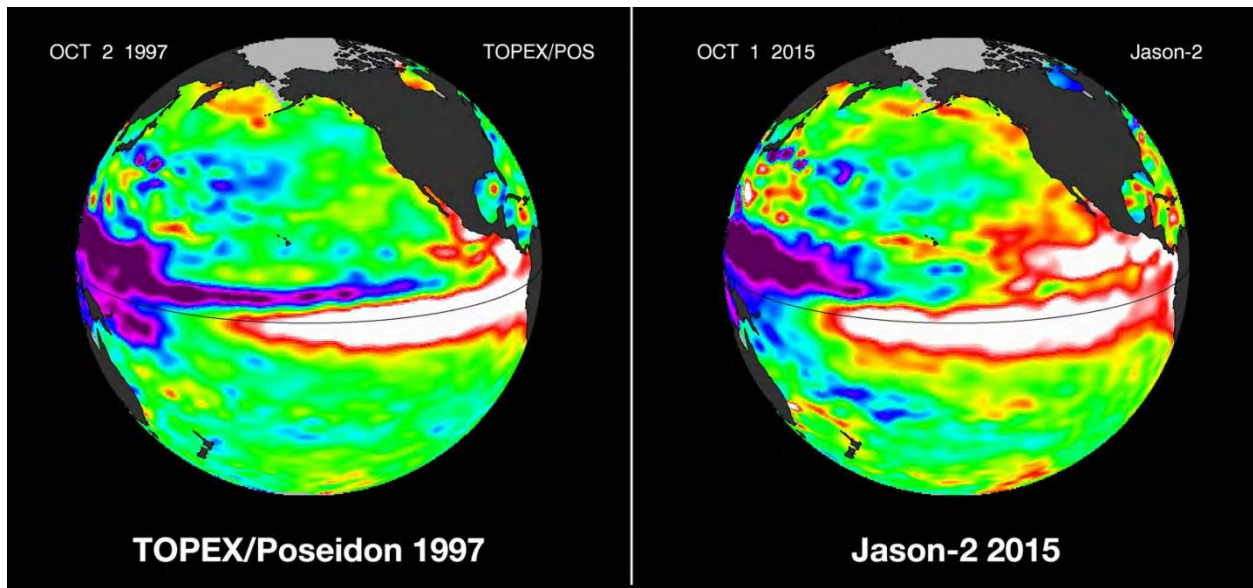
There continues to be no flood bulletins reported in the St. Clair region during the fall period with levels remaining in the normal range. Watercourses are expected to continue to accommodate additional rain events as we move into the winter season and any major events will be likely be as snowfall as temperatures fall, limiting any significant runoff. As always, conditions will be monitored and significant changes in rainfall patterns and advisories will be provided as conditions dictate.

## Weather Forecast (Data: Weather Network, Environment Can)

December	<ul style="list-style-type: none"> <li>Slightly above average temperatures (1°C) with average precipitation</li> </ul>
Winter	<ul style="list-style-type: none"> <li>Above normal temperatures with below normal precipitation are expected with potentially increased lake effect snow contingent on lake ice conditions. Potential for unsettled weather changes due to the impact of 2015 El Nino conditions</li> </ul>



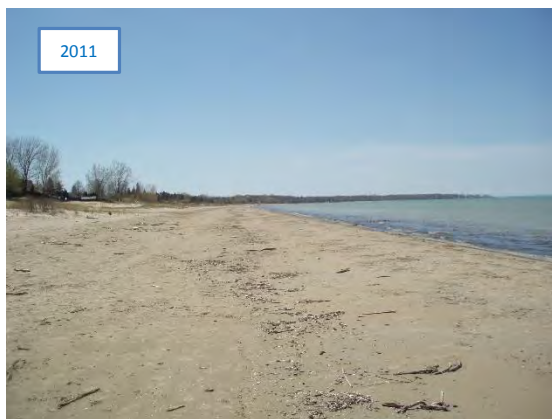
Every two to seven years, an unusually warm pool of water - sometimes 4 to 5 degrees Fahrenheit (2 to 3 degrees Celsius) higher than normal - develops across the eastern tropical Pacific Ocean to create a natural short-term climate change event. In 2015 this warm condition, known as El Niño, appears to be migrating north along the western coast of North America and effects the weather patterns developing in western Canada which subsequently move eastward toward Ontario. This 2015 phenomenon appears more prevalent than in 1997 event as illustrated below. This



condition also spurs extreme weather patterns around the world, from flooding in California to droughts in Australia. This winter, the 2015-16 El Niño event will be better observed from space than any previous El Niño.

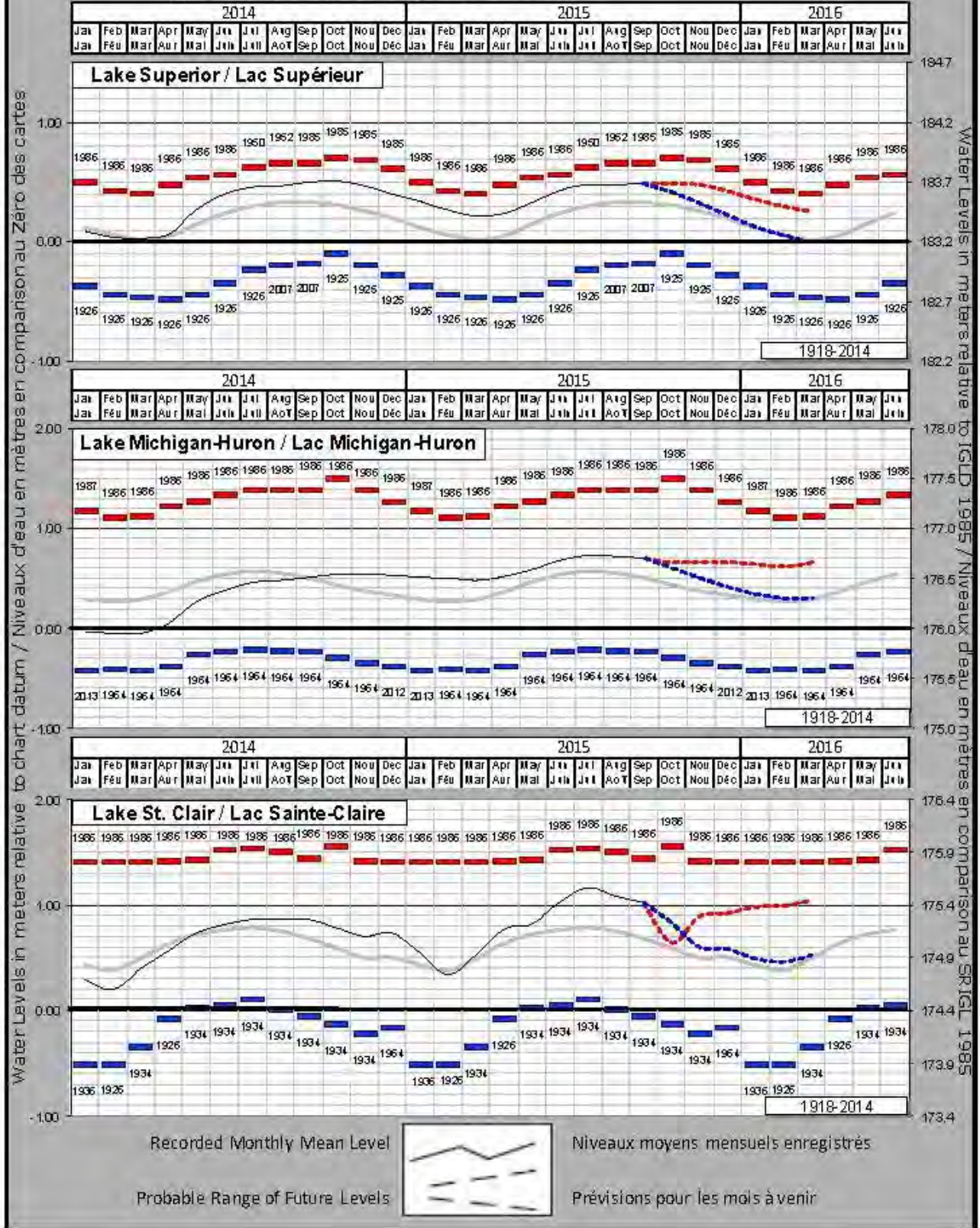
## Great Lakes Levels (Canadian Hydrometric – August 2015)

The monthly comparison for September 2015 (current available data) indicate that levels continue to be higher compared to the 2014 levels for Lake Huron with the September reported level of **176.7m**, an increase of **19cm** when compared with the same month last year, and **57cm** higher than the average for the last 10 years. The Lake Huron value is also significantly higher at **20cm** above than the average for the entire Period of Record. This trend continues to impact on shorelines by reducing the extent of many beaches and resulting in additional erosion to adjacent dune areas. Visual observations for September 2011 when compared to 2015 continue to indicate higher water conditions and a much smaller expanse of beach area.



Units	Current Monthly Level	Monthly Level Last Year	Change 2014/2015	Current Month Avg for Last 10 Years	Change Current compared to 10 year	Anticipated Next Month	Average for Period of Record (96 years)
<u>Lake St. Clair</u>							
Metric (m)	175.42	175.26	0.16	<b>174.98</b>	0.44	175.28	<b>175.08</b>
Imperial (ft)	575.52	575.00	0.52	574.08	1.44	575.06	574.41
<u>Lake Huron</u>							
Metric (m)	176.7	176.51	0.19	<b>176.13</b>	0.57	176.63	<b>176.50</b>
Imperial (ft)	579.72	579.10	0.62	577.85	1.87	579.49	579.07

# September 2015 / Septembre





# Staff Report

To: Board of Directors  
 Date: November 27, 2015  
 From: Girish Sankar, Manager of Water Resources  
 Subject: Water & Erosion Control Infrastructure (WECI) Projects

- Review of WECI applications have been completed by a committee of provincial and Conservation Authority staff representatives. The following 4 projects were approved for **2015-2016**.

Structure	Project Name	Description of Work	Total Project Cost (\$)	Grant Requested (\$)
McKeough Floodway	McKeough Floodway Berm Repair	Perform repair work along the floodway	\$200,000	\$100,000
McKeough Floodway	McKeough slope Stability investigation (Completed)	Study- instability is being observed along the McKeough Floodway. Failure scarps and tension cracks are noticed along the face of the slope	\$15,000	\$7,500
Arda Dykes	Hazard Tree Removal (Ongoing)	remove trees, shrubs and debris that have the potential to cause slope stability issues	\$24,000	\$12,000
Wallaceburg Retaining wall	Wallaceburg Retaining wall inspection	inspection of retaining wall in Wallaceburg	\$25,000	\$12,500

- We continue to wrap up projects on a monthly basis. Status of other **WECI** projects is outlined below:

Structure	Project Name	Status
McKeough Dam	McKeough slope Stability investigation	LVM Engineering has been consulted for this work. Completes, report expected in December 2015.
McKeough Dam	McKeough Floodway Berm repair	Completed
McKeough Dam	McKeough Dam Drop structure repair	Ongoing, Reviewing quote from Contractor
LAWSS	LAWSS shoreline repair	Completed

# Staff Report

To: Board of Directors  
Date: November 30, 2015  
From: Erin Carroll, Manager of Biology  
Subject: Biology Department's Successful Grants

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The Biology Department has had great success with grant proposals again this year, with grants totaling around **\$1,040,000**.

Continuing multi-year grants in 2015 include:

- Ontario Trillium Foundation (OTF) awarded **\$58,000** to conduct fish and mussel inventories in Lake Huron Tributaries over two years,
- a three year, **\$75,900** grant from the Ministry of Natural Resources and Forestry (MNR) Species at Risk Stewardship Fund to continue to deliver Reptiles-at-Risk Program will help pay for snake and turtle monitoring, and related outreach and education activities.
- 2015 is the third year of a three year **\$244,050** grant from Environment Canada to implement best management projects through the Sydenham River Habitat Stewardship Program.



We also have many ongoing projects and programs that are entirely grant funded:

- Ministry of the Environment and Climate Change (MOECC) allocated **\$50,000** to support our stewardship and water quality monitoring program in Lambton Shores.
- a **\$104,000** grant from the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) for Healthy Lake Huron Outreach and Monitoring.

- a small grant from the Aboriginal Fund for Species at Risk (AFSAR) that covers an education and outreach program delivered at Kettle and Stony Point First Nation.
- TD Friends of the Environment Foundation provided funding towards the ongoing maintenance and additional seeding of the pollinator garden at Warwick Conservation Area. They also provided about **\$8,600** towards Sarnia and Strathroy community tree planting.
- a **\$30,000** grant from the MNRF for the protection, evaluation and restoration of riparian wetlands.
- a **\$30,000** grant from the MNRF for Fish and Wildlife BUI priority actions for delisting; including the restoration of priority wetland sites.
- a **\$5,000** grant from Friends of the St. Clair River for maintenance of the Bowen's Creek restoration project (wetlands and trees).
- a **\$3,000** grant from the J.P. Bickell Foundation for Wetland Evaluation Training.
- a **\$13,000** grant from the Great Lakes Sustainability Fund (GLSF) to write a St. Clair AOC Fish and Wildlife Habitat Management Plan.
- **\$10,000** from Fisheries and Oceans Canada (DFO) for fish monitoring work



Children crowd close to feel a snake skin.

A number of projects were completed in the first part of 2015:

- 2015 was the last year of a three year, **\$117,500** grant from the Environment Canada's GLSF for wetland creation and tree planting at Bowen's Creek Habitat Management Area.
- 2015 was the last year of a two year **\$85,000** grant for Sediment and Erosion Mitigation and Fish Habitat Enhancement of Agricultural Watercourses of the St. Clair River Area of Concern (AOC).

- **\$50,000** from MOECC to support stewardship and water quality monitoring program in Lambton Shores.
- OMAFRA and Environment Canada granted **\$37,390** and **\$10,000** respectively to Healthy Lake Huron Outreach.
- **\$49,000** from Trees Canada towards planting about 40,000 trees.



- a one year (2014/15), **\$52,985** grant from Environment Canada to extend St. Clair Conservation's Healthy Watersheds Program area of coverage. Projects concentrated on watersheds of Bear and Black Creek and our Lake Huron Tributaries.
- **\$20,000** for MNRF for Ducks Unlimited Canada coastal wetland restoration of Rex Dover Marsh and Roberta Stewart Marsh
- **\$7,000** from MNRF for Watershed Riparian Buffer Restoration
- **\$20,000** from WHC for North Sydenham River Habitat Creation

Since April, we have submitted for the following additional grants:

- **\$157,000** from the Ontario Trillium Foundation to conduct aquatic inventories, restore aquatic habitat and for education and outreach.
- **\$21,500** from Ontario Soil and Crop Improvement Association to promote soil health, pollinator habitat and water quality with the agriculture community.

October 31, 2015

TO: SCRCA Chair and Board of Directors

SUBJECT: Administration – Section 28 Status Report – Development, Interference of Wetlands and Alteration to Shorelines Watercourses Regulation

FROM: Dallas Cundick, Environmental Planner / Regulations Officer

A summary of staff activity related to the Conservation Authority's *Development, Interference of Wetlands and Alterations to Shorelines and Watercourses Regulation* (Ontario Regulation 171/06 under Ontario Regulation 97/04) is presented below. This report covers the period from October 1, 2015 to October 31, 2015.

## October 1, 2015 to October 31, 2015

FA #	Applicant and Subject Property	Permit Required to:	Section 28 of the Conservation Authority's Act "Development, Interference with Wetlands and Alterations to Shorelines & Watercourses" Regulation Permissions may be granted where in the opinion of the CA, the control of Flooding, Erosion, Dynamic Beach, Pollution, or the Conservation of Land will not be affected by the development.	Date Permit Issued
11060	<b>Ducks Unlimited Canada</b> <b>c/o Rick Robb, Habitat Asset Manager</b> Lot 6, Concession 3 Geographic Township of Caradoc Municipality of Strathroy-Caradoc County of Middlesex	Replacement of Outlet Pipe and Refurbishment of Organic Dyke	<ul style="list-style-type: none"> <li>The proposed works will have no impact on flood flows or elevations;</li> <li>Works will not aggravate erosion;</li> <li>Proper sediment and erosion control measures, including best management practices will be utilized;</li> <li>Work will be conducted in the dry and will not be conducted when flows are present due to local rain events, storms or seasonal flooding;</li> <li>Disturbed areas of the work site will be stabilized immediately and re-vegetated as soon as possible;</li> </ul>	Oct 2
11061	<b>Union Gas Limited</b> <b>c/o Michelle Landuyt</b> Lot 32, Concession 8 Geographic Township Of Dawn	Integrity Digs	<ul style="list-style-type: none"> <li>Investigating and Repairing an existing pipeline is considered minor works;</li> <li>Appropriate mitigation measures have been developed and will be employed to control sediment and erosion;</li> <li>Work to commence October 1, 2015;</li> <li>The proposed works will have no impact on flood flows or</li> </ul>	Oct 1

	Township of Dawn-Euphemia County of Lambton		<p>elevations;</p> <ul style="list-style-type: none"> <li>No alterations to the slope or grade are required;</li> <li>The site will be restored to its original, or better, condition upon completion of works.</li> <li>No in-water works required, works will be conducted greater than 75m from the open watercourse;</li> </ul>	
11062	<p><b>Sandi Dejong &amp; Travis Bouma</b> 4388 Lambton Lane Lot 40, Concession Front Geographic Township of Plympton County of Lambton</p>	Construction of a Major Addition	<ul style="list-style-type: none"> <li>Proposed location is outside of the 3:1 (run:rise) stable slope gradient for the slope;</li> <li>No alterations to the slope are required;</li> <li>Drainage will be directed away from the top of bank of the bluff;</li> <li>Excess fill will be removed from the regulated area;</li> <li>Disturbed areas will be reseeded upon completion of the works</li> <li>Proposed works will not increase the risk of the property to natural hazards processes;</li> <li>No fill placement is proposed, or change to existing grades, elevation or topography;</li> <li>Proposed works do not alter existing use;</li> <li>Condition that exp Services Inc inspect and approve the subgrade prior to initiation of construction of foundation/footing;</li> </ul>	Oct 1
11063	<p><b>Enbridge Pipelines Inc. c/o Kim Stewart</b> Lot Block B, Concession 0 Geographic Township of Sarnia County of Lambton</p>	Integrity Dig – Pipeline 6B, MP 758.7411	<ul style="list-style-type: none"> <li>Verifying and repairing an existing pipeline is considered minor works;</li> <li>Appropriate mitigation measures have been developed and will be employed to control sediment and erosion;</li> <li>The proposed works will have no impact on flood flows or elevations;</li> <li>No alterations to the slope or grade are required;</li> <li>The site will be restored to its original, or better, condition upon completion of works.</li> </ul>	Oct 1
11064	<p><b>Union Gas Limited c/o Alicja Pagaduan</b> Petrolia Line Lot 28, Concession 10 Geographic Township of Enniskillen</p>	Install new 2” NPS pipeline via HDD	<ul style="list-style-type: none"> <li>Pipeline crossings of a watercourse using the directional drilling method are considered minor works;</li> <li>Entry/exit pits are a suitable setback from the banks of the watercourse;</li> <li>Appropriate generic mitigation measures have been developed, in conjunction with DFO, and will be employed to</li> </ul>	Oct 1

	County of Lambton		<p>control sediment and erosion;</p> <ul style="list-style-type: none"> <li>• The proposed works will have no impact on flood flows or elevations;</li> <li>• No alterations to the slope are required;</li> <li>• Suitable Drilling Procedures, Environmental Compliance, and Restoration Prescription are in place;</li> <li>• Disturbed areas will be reseeded upon completion of the works;</li> </ul>	
11065	<p><b>Union Gas Limited</b>  <b>c/o Alicja Pagaduan</b>  Lot A, Concession 1 &amp; 2  Geographic Township of Sombra  Township of St. Clair</p>	<p>Install New NPS  4" pipeline via  HDD</p>	<ul style="list-style-type: none"> <li>• Pipeline crossings of a watercourse using the directional drilling method are considered minor works;</li> <li>• Entry/exit pits are a suitable setback from the banks of the watercourse;</li> <li>• Appropriate generic mitigation measures have been developed, in conjunction with DFO, and will be employed to control sediment and erosion;</li> <li>• The proposed works will have no impact on flood flows or elevations;</li> <li>• No alterations to the slope are required;</li> <li>• Suitable Drilling Procedures, Environmental Compliance, and Restoration Prescription are in place;</li> <li>• Disturbed areas will be reseeded upon completion of the works.</li> </ul>	Oct 14
11066	<p><b>Municipality of Chatham-Kent</b>  <b>c/o Larry Oulds, Dillon Consulting</b>  Kent Bridge Road  Lot 24, Concession 5  Geographic Township of Chatham  Lot 1, Concession 2  Geographic Township of Camden  Municipality of Chatham-Kent  County of Kent</p>	<p>Installation of  New Watermain  along Kent Bridge  Road via HDD</p>	<ul style="list-style-type: none"> <li>• Pipeline crossings of a watercourse using the directional drilling method are considered minor works;</li> <li>• Entry/exit pits are a suitable setback from the banks of the watercourse;</li> <li>• Appropriate generic mitigation measures have been developed, and will be employed to control sediment and erosion;</li> <li>• The proposed works will have no impact on flood flows or elevations;</li> <li>• No alterations to the slope are required;</li> <li>• Suitable Drilling Procedures, Environmental Compliance, and Restoration Prescription are in place;</li> <li>• Disturbed areas will be reseeded upon completion of the works;</li> </ul>	Oct 6

11067	<p><b>Town Of Petrolia</b>  <b>c/o Mike Thompson,</b>  <b>Director of Operations</b>  Lot 11, Concession 9  Geographic Township of Enniskillen  Town of Petrolia  Lambton County</p>	<p>Petrolia  Wastewater  Treatment Plant  Upgrade and  Expansion</p>	<ul style="list-style-type: none"> <li>• Proposed works are an upgrade to existing Plant;</li> <li>• The proposed works will not increase the risk to life and/or property;</li> <li>• The proposed works will not impact erosion or aggravate existing;</li> <li>• Appropriate sediment and erosion control measures will be implemented prior to initiation of construction, and maintained until works are complete.</li> <li>• Hydrology should not be negatively impacted by the proposed works;</li> <li>• Proposed works should not negatively impact flood flow velocities or elevations;</li> </ul>	Oct 6
11068	<p><b>Hans Frick</b>  9 McDonald Street  Lot 11, Concession 13  Geographic Township of Dover  Municipality of Chatham-Kent</p>	<p>Replacement of  Existing Seawall</p>	<ul style="list-style-type: none"> <li>• Like for like replacement;</li> <li>• Proposed works should not negatively impact flood flows, velocities or elevations;</li> <li>• Hydrology and hydraulics should not be negatively impacted by the proposed works;</li> <li>• Suitable sediment and erosion methods are to be installed prior to the commencement of construction and be maintained throughout the works;</li> <li>• New or existing hazards will not be created and/or aggravated;</li> <li>• No updrift/downdrift impacts result; and</li> <li>• Disturbed soils are to be stabilized and re-vegetated immediately after completion of the works;</li> </ul>	Oct 7
11069	<p><b>Albert Flanagan</b>  4276 St. Clair Parkway  Lot F, Concession 7  Geographic Township of Sombra  St. Clair Township  County of Lambton</p>	<p>Supplementing  Existing  Shoreline  Protection</p>	<ul style="list-style-type: none"> <li>• Proposed works will not cause or aggravate slope instability;</li> <li>• The shoreline protection will not impact flood elevations or flows upstream or downstream;</li> <li>• Appropriate sediment and erosion methods are to be installed prior to the commencement of construction and be maintained throughout the works;</li> <li>• Construction area will be restored to original condition and all debris/fill will be removed off site;</li> <li>• Disturbed soils are to be stabilized and re-vegetated immediately after completion of the works;</li> <li>• Works to be completed adjacent to low water levels, and no/minimal works completed in water.</li> </ul>	Oct 14



<p><b>11070</b></p>	<p><b>Union Gas Limited</b>  <b>c/o Alicja Pagaduan</b>  6665 Olde Drive  Lot 1, Concession 5  Geographic Township of Caradoc  Municipality of Strathroy-Caradoc  County of Middlesex</p>	<p>Install New 2" NPS pipeline via HDD</p>	<ul style="list-style-type: none"> <li>• Pipeline crossings of a watercourse using the directional drilling method are considered minor works;</li> <li>• Entry/exit pits are a suitable setback from the banks of the watercourse;</li> <li>• Appropriate generic mitigation measures have been developed, in conjunction with DFO, and will be employed to control sediment and erosion;</li> <li>• The proposed works will have no impact on flood flows or elevations;</li> <li>• No alterations to the slope are required;</li> <li>• Suitable Drilling Procedures, Environmental Compliance, and Restoration Prescription are in place;</li> <li>• Disturbed areas will be reseeded upon completion of the works;</li> </ul>	<p>Oct 15</p>
<p><b>11072</b></p>	<p><b>Union Gas Limited</b>  <b>c/o Beth Ortibus</b>  Brigden Road  Lot 6, Concession 3  Geographic Township of Sarnia  County of Lambton</p>	<p>Install New NPS 2" over Waddell Creek via HDD</p>	<ul style="list-style-type: none"> <li>• Pipeline crossings of a watercourse using the directional drilling method are considered minor works;</li> <li>• Entry/exit pits are a suitable setback from the banks of the watercourse;</li> <li>• Appropriate generic mitigation measures have been developed, in conjunction with DFO, and will be employed to control sediment and erosion;</li> <li>• The proposed works will have no impact on flood flows or elevations;</li> <li>• No alterations to the slope are required;</li> <li>• Suitable Drilling Procedures, Environmental Compliance, and Restoration Prescription are in place;</li> <li>• Disturbed areas will be reseeded upon completion of the works;</li> </ul>	<p>Oct 19</p>
<p><b>11075</b></p>	<p><b>Helen Bennett</b>  1898 Baseline Road  Lot 1, Concession 14  Geographic Township of Sombra  Township of St. Clair  County of Lambton</p>	<p>Construct a Pole Barn Farm Dwelling</p>	<ul style="list-style-type: none"> <li>• Proposed location is outside of the 3:1 (run:rise) stable slope gradient for the slope plus 15 m toe erosion allowance plus 6 m access allowance;</li> <li>• Proposed location maintains a setback greater than 15 metres from the top of the slope;</li> <li>• No alterations to the slope are required;</li> <li>• Drainage will be directed away from the top of bank of the ravine;</li> <li>• Excess fill will be removed from the regulated area;</li> </ul>	<p>Oct 21</p>

			<ul style="list-style-type: none"><li>• Disturbed areas will be reseeded upon completion of the works.</li></ul>	
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Recommended and approved by:

\_\_\_\_\_  
Dallas Cundick, Environmental Planner/Regulations Officer

\_\_\_\_\_  
Melissa Deisley, Regulations Officer

\_\_\_\_\_  
Patty Hayman, Director of Planning

# Staff Report

10. (ii)



To: Board of Directors  
Date: November 27, 2015  
From: Patty Hayman, Director of Planning  
Subject: Lake Huron Shoreline Management Plan (SMP)

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At the last Board meeting, the following motion was passed:

BD-15-075

Scholten-Bruziewicz

“That the Draft Shoreline Management Plan be brought to the December meeting for review and discussion”.

SCRCA’s Administrative Assistant , Marlene Dorrestyn, forwarded the web link to all Directors November 24, 2015 so that early access could be obtained. The link is provided below:

<https://www.scrca.on.ca/wp-content/uploads/2015/10/Shoreline-Management-Plan.pdf>  
<https://www.scrca.on.ca/wp-content/uploads/2014/08/Shoreline-Management-Plan-Maps.pdf>

## Status of current SMP

- initial consultation and public open houses were held in 2010. There was particular interest from Lambton Shores (LS) shoreline residents as this was a new Shoreline Plan for LS, but only an update for Sarnia and Plympton Wyoming (PW). Stakeholder interest was obtained.
- at the SCRCA Board of Directors meeting April 2012, shoreline municipal staff comments on the SMP were brought forward to the Board. Consultation and responses to municipal staff April 2012 are included in Appendix C. Actions and revisions to the Plan are noted.
- following the initial consultation and public open houses, interested stakeholders were consulted one on one. This took place during the period 2011-2012. Comments received, feedback and actions are noted in Appendix C (Chart entitled “2011 and 2012 Stakeholder Consultation”).
- of note in Appendix C, was the significant concern regarding the Kettle/Stoney Point First Nations “grooming” of West Ipperwash beach. Significant consultation was required. As noted in Appendix C, the issue of SCRCA Regulation jurisdiction required investigation. A Board motion and decision was rendered in 2013. See Appendix C.

## Remaining issues

- as noted on Page 55 of the Draft SMP; the remaining issues are as follows:

### “Dynamic Beaches

*It was determined that a separate consultation process and study was necessary for the Sarnia Haight Hillcrest Nisbet Drive area (Reach 5).*

*It was also recommended that further detailed development guidelines and policies were necessary for the West Ipperwash area.*

*Subject to funding and approvals, the above actions may be undertaken, reviewed and incorporated into the plan as deemed necessary”.*

A coastal study of Reach 5 has been received by the SCRCA.

It is proposed that the above tasks be completed in 2016 (exception Reach 5 coastal study) along with other updates required below:

Proposed 2016 SMP review and updates remaining (\*\*Note – 2016 SMP “housekeeping” project approved by SCRCA Board of Directors September 17, 2015)

Revisions	General	Municipality
change verbage to be consistent with 2014 Provincial Policy Statement	x	
web links in text and maps so more user friendly	x	
Incorporate a web published map with search engine	x	
Update mapping and disseminate to County GIS public website	x	
Reach 16/17/18 Address 1935 data gap, update aarr's and mapping (reduces setbacks)		Plympton Wyoming
Reach 23/24 Demo 3D technology (Bluept) to test 1931 photography		Plympton Wyoming
Reach 5 Dynamic beach consultation		Sarnia
Update SMP dynamic beach info based on 2016 consultation		Sarnia
Reach 36, 37 Development guidelines		Lambton Shores
Consult on development guidelines		Lambton Shores

As the SMP stands now, it could be approved by the Board so the “Draft” can be removed.

Regardless of the above, moving forward with the 2016 project would improve the SMP and address the outstanding tasks as described in the above chart. The 2016 SMP addendums could then be incorporated into the final SMP.

The addendum would be brought forward to the Board in late 2016 to seek approval for incorporating the changes into the SMP.

# SCRCA Planning Activity Summary for the month **October 2015** **10.(iii)**

File Ref.	Municipality	Geographic Twp	Lot	Concession	Street	Page 1 of 1
FI 2015	BROOKE-ALVINSTON	BROOKE	LOT 14	CON 10	PETROLIA LINE	
FI 2015	CHATHAM-KENT	CAMDEN	LOT 3	CON 5 GORE	WATER STREET	
OPA 41	CHATHAM-KENT	CHATHAM	LOT 1	CON 1		
ZBA 2015	PETROLIA	ENNISKILLEN	LOT 12	CON 10	GLENVIEW ROAD	
FI 2015	PETROLIA	ENNISKILLEN	LOT 11	CON 9	ENGLEHART DRIVE	
FI 2015	PETROLIA	ENNISKILLEN	LOT 14	CON 10	FAIRWAY COURT	
LL 2015	PLYMPTON-WYOMING	PLYMPTON	LOT 16	CON 5	OIL HERITAGE ROAD	
FI 2015	PLYMPTON-WYOMING	PLYMPTON	LOT 50	CON FRONT	FORSYTH TRAIL	
FI 2015	PLYMPTON-WYOMING	PLYMPTON	LOT 19	CON 6	MICHIGAN LINE	
VAR A16/2015	PLYMPTON-WYOMING	PLYMPTON	LOT 4	CON FRONT	EGREMONT DRVIE	
FI 2015	PLYMPTON-WYOMING	PLYMPTON	LOT 18	CON FRONT	QUEEN STREET	
FI 2015	PLYMPTON-WYOMING	PLYMPTON	LOT 26	CON 14	HUBBARD LINE	
VAR A06/2015	PLYMPTON-WYOMING	PLYMPTON	LOT 48	CON FRONT	MACK AVE	
LL 2015	SOUTHWEST MIDDLESEX	EKFRID	LOT 5	CON 4	OLDE DIRVE	
FI 2015	ST. CLAIR	SOMBRA	LOT E	CON 7	JOHN ST.	
FI 2015	ST. CLAIR	SOMBRA	LOT 29	CON 5	KENT LINE	
LL 2015	ST. CLAIR	MOORE	LOT 65	CON FRONT	ST. CLAIR PARKWAY	
ZBA 2015	STRATHROY-CARADOC	ADELAIDE	LOT 24	CON 4 SER	METCALFE ST. E	

## October Meetings

- Oct 1 – Site meeting 4839 Pond Trail – P.Hayman, D.Cundick, S.Hodgkiss
- Oct 5 – ABCA SMP Steering Committee – P.Hayman
- Oct 6 – MNRF Wetland Policy Listening session, London – P.Hayman
- Oct 8 – T. Bouma organized SMP mtg @ M & Sutherland Surveying – P.Hayman, D.Cundick
- Oct. 16 – Full SWP Project Team Meeting @ SCRCA – C.Durand, P.Hayman
- Oct. 16 – Enbridge Integrity Digs @ SCRCA with Jen Petruniak & Kari Hamilton – D. Cundick, M. Deisley
- Oct 20 – Preconsultation re Planning files in PW (Ferne Ave/Pond Trail) – P.Hayman, D.Cundick
- Oct 20 – Planning Ecology Working Group Meeting @ Credit Valley CA – S. Hodgkiss
- Oct. 21 – Lake St. Clair Conference – C.Durand, D.Strang
- Oct. 26 – Regulations Committee Meeting – D.Cundick, M.Deisley, P.Hayman, B.McDougall, G.Sankar
- Oct 26 – Ontario Nature Wetlands Policy and Biodiversity Offsetting Workshop, Toronto – S. Hodgkiss
- Oct 27 – St Clair River dredging project mtg with WSP Co. re confined disposal site – P.Hayman, D.Strang
- Oct 28 – Planning/Regs mtg re 4839 Pond Trail R Nisbet, Erin K., M.Doornbosch, P.Hayman, D.Cundick
- Oct 30 – UTRCA source mtg with municipalities re implementation - P.Hayman

### File Reference Codes:

CZ - Comprehensive Zoning	SEV - Severances	GI - General Inquiry	FI – Regulations Inquiry
ZBA - Minor Zoning Bylaws and Amendments	VAR - Variances	LL - Legal Inquiries/Letters	NM – Nutrient Management
OP (A)-Official Plan (Amendments)	EA/PLEA-Environmental Assessments	SP-Site Plan	PTTW- Permit to Take Water
TC-Tree Cutting	SUB-Subdivision	DAR-Development Assessment Review	SPA-Site Plan Approval

**ST CLAIR REGION CONSERVATION AUTHORITY**  
**Statement of Revenue and Expenditure**  
**For the Ten Months Ended 31/10/2015**

	Actual To Date			Annual Budget		Variance from Budget	
	Revenue	Expenditures	Surplus(Deficit)	Revenue	Expenditures	Revenue	Expenditures
<b>Flood Control &amp; Erosion Control</b>	\$697,363	\$396,598	\$300,765	\$598,950	\$598,950	\$98,413	(\$202,352)
<b>Capital Projects/WECI</b>	\$1,424,952	\$970,753	\$454,199	\$337,500	\$337,500	\$1,087,452	\$633,253
<b>Conservation Area's Capital Development</b>	\$101,243	\$124,018	(\$22,775)	\$137,000	\$137,000	(\$35,757)	(\$12,982)
<b>IT Capital</b>	\$16,120	\$455	\$15,665	\$19,200	\$19,200	(\$3,080)	(\$18,745)
<b>Equipment</b>	\$65,750	\$0	\$65,750	\$72,000	\$72,000	(\$6,250)	(\$72,000)
<b>Planning &amp; Regulations</b>	\$351,741	\$303,934	\$47,807	\$427,600	\$427,600	(\$75,859)	(\$123,666)
<b>Technical Studies</b>	\$381,894	\$141,163	\$240,730	\$213,900	\$213,900	\$167,994	(\$72,737)
<b>Recreation</b>	\$1,200,976	\$969,220	\$231,756	\$1,099,700	\$1,099,700	\$101,276	(\$130,480)
<b>Property Management</b>	\$252,366	\$207,286	\$45,080	\$273,000	\$273,000	(\$20,634)	(\$65,714)
<b>Education and Communication</b>	\$91,999	\$140,519	(\$48,519)	\$210,900	\$210,900	(\$118,901)	(\$70,381)
<b>Source Water Protection</b>	\$174,816	\$158,702	\$16,113	\$200,000	\$200,000	(\$25,184)	(\$41,298)
<b>Conservation Services/Healthy Watersheds</b>	\$874,148	\$622,874	\$251,274	\$1,105,451	\$1,105,451	(\$231,303)	(\$482,577)
<b>Administration/AOC Management</b>	\$649,365	\$885,558	(\$236,193)	\$1,014,940	\$1,014,940	(\$365,575)	(\$129,382)
	<b>\$6,282,732</b>	<b>\$4,921,079</b>	<b>\$1,361,653</b>	<b>\$5,710,141</b>	<b>\$5,710,141</b>	<b>\$572,591</b>	<b>(\$789,062)</b>

**Notes:**

1. Municipal matching, non-matching, 3-D Special and Recreation levies totaling \$746,455 have been invoiced and are recorded in the actual revenue reported above. See General Levy Report for amounts outstanding.
2. The significant variances from budget to actual is reflective of the nature/timing and uniqueness of the particular projects, variance from Ministry funding year and fiscal year. The variances will reduce and disappear as the year progresses, or project close out progresses.

**ST. CLAIR REGION CONSERVATION AUTHORITY**  
**Statement of Operations**  
AS AT October 31, 2015

	2015 Budget	2015	2014 Audit
<b>Revenue</b>			
<b>Government Grants</b>			
Section 39	310,000.00	310,003.00	310,000.00
Other	397,224.00	1,345,261.34	759,427.00
<b>Municipal levies</b>			
General	701,455.00	701,455.00	658,935.00
Other	329,020.00	561,407.22	332,882.00
<b>Other Revenue</b>			
Contributions	492,350.00	322,482.84	730,040.00
Miscellaneous	2,415,892.00	1,912,723.40	930,888.00
Interest	65,000.00	24,240.27	76,201.00
Conservation areas (Excluding Municipal Levy)	999,200.00	1,105,159.14	1,192,908.00
Transfers from reserves	-	-	0.00
General	-	-	
Unrealized gain (loss) on held-for-trading investments	-	-	154.00
Realized gain (loss) on held for trading investments	-	-	-
	<u>5,710,141.00</u>	<u>6,282,732.21</u>	<u>4,991,435.00</u>
 <b>Expenditures</b>			
Administration, Schedule 1	843,440.00	686,903.75	477,086.00
Capital development, Schedule 1	555,700.00	1,205,171.27	454,499.00
Operating, Schedule 2	2,938,301.00	1,852,498.25	2,502,937.00
Property management, Schedule 2	272,000.00	207,285.87	277,207.00
Conservation area maintenance, Schedule 3	<u>1,099,700.00</u>	<u>969,219.62</u>	<u>1,212,912.00</u>
	5,709,141.00	4,921,078.76	4,924,641.00
 <b>Excess (deficiency) of revenues over expenditures before adjustments</b>	<b>1,000.00</b>	<b>1,361,653.45</b>	<b>66,794.00</b>
 <b>Adjustments for Tangible Capital Assets</b>			
Acquisition of tangible capital assets	-	-	157,660.00
Amortization of tangible capital assets	-	-	563,433.00
Gain/(loss) on sale of tangible capital assets	-	-	6,265.00
Proceeds on sale of tangible capital assets	-	-	11,900.00
	<u>-</u>	<u>-</u>	<u>411,408.00</u>
 <b>Excess (deficiency) of revenues over expenditures before adjustments</b>	<u>1,000.00</u>	<u>1,361,653.45</u>	<u>- 344,614.00</u>

ST. CLAIR REGION CONSERVATION AUTHORITY  
Administration and Capital Development Expenditures  
AS AT October 31, 2015

	2015 Budget	2015 GL	2014 Audit
<b>Administration</b>			
Equipment rentals and purchases	30,000.00	10,099.00	9,029.00
Materials and supplies	25,200.00	14,149.73	21,849.00
Other	310,388.34	289,510.61	68,371.00
Travel expenses and allowances	11,103.10	8,513.22	9,135.00
Utility services	13,748.56	14,768.94	15,622.00
Wages and benefits	453,000.00	349,862.25	353,080.00
	<u>843,440.00</u>	<u>686,903.75</u>	<u>477,086.00</u>
<b>Capital Development</b>			
Conservation area development	137,000.00	124,017.97	62,497.00
Other	19,200.00	17,181.50	47,289.00
Vehicles and equipment	72,000.00	93,218.92	74,657.00
Water erosion control infrastructure	327,500.00	970,752.88	270,056.00
	<u>555,700.00</u>	<u>1,205,171.27</u>	<u>454,499.00</u>



**ST. CLAIR REGION CONSERVATION AUTHORITY**  
**Operating and Property Management Expenditures**  
AS AT October 31, 2015

	2015 Budget	2015 GL	2014 Audit
<b>Operating</b>			
<b>Community relations</b>			
Wages and benefits	190,000.00	124,658.56	122,895.00
Other	20,900.00	15,859.96	22,457.00
<b>Conservation services</b>			
Wages and benefits	322,300.00	314,242.98	302,946.00
Other	783,151.00	308,631.42	378,536.00
<b>Erosion control</b>			
Wages and benefits	19,000.00	-	38,270.00
Other	22,000.00	4,706.54	23,230.00
<b>Flood control</b>			
Wages and benefits	262,500.00	190,613.62	256,807.00
Other	99,100.00	76,683.91	112,953.00
<b>Flood forecasting and warning</b>			
Wages and benefits	134,000.00	84,961.71	120,958.00
Other	59,350.00	28,690.40	39,274.00
<b>General</b>			
Wages and benefits	138,500.00	65,090.60	124,436.00
Other	39,000.00	30,031.95	51,389.00
<b>Ice management</b>			
Wages and benefits	4,000.00	3,219.96	4,000.00
<b>Planning</b>			
Wages and benefits	341,000.00	279,062.44	291,912.00
Other	86,600.00	24,979.51	29,611.00
<b>Source water protection</b>			
Wages and benefits	185,000.00	158,019.93	287,557.00
Other	15,000.00	682.48	86,006.00
<b>Technical studies</b>			
Wages, benefits and other	216,900.00	142,362.28	209,700.00
	<u>2,938,301.00</u>	<u>1,852,498.25</u>	<u>2,502,937.00</u>
<b>Property Management</b>			
Wages and benefits	155,000.00	126,765.67	165,397.00
Other	117,000.00	80,520.20	111,810.00
	<u>272,000.00</u>	<u>207,285.87</u>	<u>277,207.00</u>

**ST. CLAIR REGION CONSERVATION AUTHORITY**  
**Statement of Financial Position**  
AS AT October 31, 2015

	GL 2015	Audit 2014	
<b>Financial Assets</b>			
Cash and cash equivalents	3,560,073.37	3,214,286.00	
Investments (note)	2,063,430.00	2,063,430.00	
Accounts receivable	381,406.45	648,742.00	
Prepaid Expenses	-	-	
Long-term investments	38,605.00	38,605.00	
	<u>6,043,514.82</u>	<u>5,965,063.00</u>	
 <b>Restricted Assets (Note )</b>			
Restricted Shares	-	-	
Forestry	11,712.87	11,712.87	
RLSN	-	-	
Kent	-	-	
MSN	44,201.04	275,940.00	
Rondeau	-	-	
Downsizing	-	-	
Cash and cash equivalents	55,913.91	287,652.87	
Accounts receivable - Stewardship Programs	-	-	
	<u>55,913.91</u>	<u>287,652.87</u>	
 <b>Total Financial Assets</b>	 <u>6,099,428.73</u>	 <u>6,252,715.87</u>	
 <b>Financial Liabilities</b>			
Accounts payable and accrued liabilities	201,224.37	157,530.00	43,694.37
Accounts payable and accrued liabilities - Stewardship Programs	-	-	0.00
Deferred revenue	19,250.00	1,346,146.00	
Due to Stewardship Programs (Note & Statement )	44,201.04	275,940.00	
<b>Total Financial Liabilities</b>	<u>264,675.41</u>	<u>1,779,616.00</u>	
 <b>Net Financial Assets</b>	 <u>5,834,753.32</u>	 <u>4,473,099.87</u>	
 <b>Non-Financial Assets</b>			
Tangible Capital Assets, net of accumulated amortization ( Notes & Schedule )	34,909,173.80	19,565,657.00	
	<u>34,909,173.80</u>	<u>19,565,657.00</u>	
 <b>Net Assets</b>	 <u>40,743,927.12</u>	 <u>24,038,756.87</u>	
 <b>Conservation Authority Position</b>			
Reserves and reserve funds (Statement 2 & 3 )	5,834,753.45	4,473,100.00	
Net Tangible Capital Assets	34,909,173.80	19,565,657.00	
Current Year Depreciation	-	-	
<b>Total Conservation Authority Position</b>	<u>40,743,927.25</u>	<u>24,038,757.00</u>	

**ST. CLAIR REGION CONSERVATION AUTHORITY**  
**Statement of Changes in Net Financial Assets and Net Tangible Capital Assets**  
**AS AT October 31, 2015**

	2015	2014 Audit
<b>Net Financial Assets</b>		
Excess (deficiency) of revenue over expenditures (Statement 4)	\$1,361,653.45	\$(344,614.00)
Acquisition of tangible capital assets	.00	(157,660.00)
Transfer from Under Construction		
Amortization of tangible capital assets	.00	563,433.00
Gain/(loss) on sale of tangible capital assets	.00	(6,265.00)
Proceeds on sale of tangible capital assets	.00	11,900.00
<b>Increase (decrease) in net financial assets</b>	1,361,653.45	66,794.00
<b>Net Financial Assets, beginning of year</b>	4,473,100.00	4,406,306.00
<b>Net Financial Assts, end of year</b>	\$5,834,753.45	\$4,473,100.00
<b>Net Tangible Capital Assets</b>		
Acquisition of tangible capital assets	.00	157,660.00
Amortization of tangible capital assets	.00	(563,433.00)
Gain/(loss) on sale of tangible capital assets	.00	6,265.00
Proceeds on sale of tangible capital assets	.00	(11,900.00)
<b>Increase (decrease) in net tangible capital assets</b>	.00	(411,408.00)
<b>Net Tangible Capital Assets, beginning of year</b>	19,565,657.00	19,977,065.00
<b>Net Tangible Capital Assets, end of year</b>	\$19,565,657.00	\$19,565,657.00

**ST. CLAIR REGION CONSERVATION AUTHORITY**  
**Statement of Cash Flows**  
AS AT October 31, 2015

	2015	2014 Audit
<b>Cash provided by (used in)</b>		
<b>Operating activities</b>		
Excess of revenue over expenditure (Statement 4)	1,361,653.45	- 344,614.00
Add items not involving cash:		
Amortization of tangible capital assets	-	563,433.00
Loss/(Gain) on disposal of tangible capital assets	-	- 6,265.00
Gain on Disposal of investments	-	- 110,655.00
Unrealized (gain) loss on held for trading investments	-	110,502.00
	1,361,653.45	212,401.00
 Net changes in non-cash working capital balances:		
Accounts receivable	267,335.55	- 348,086.00
Accounts receivable - Stewardship Programs	-	-
Prepaid expenses	-	-
Accounts payable and accrued liabilities	43,694.37	- 31,542.00
Accounts payable and accrued liabilities - Stewardship Programs	0.00	-
Deferred revenue	- 1,326,896.00	43,130.00
Due to stewardship programs	- 231,738.96	- 138,171.00
	114,048.41	- 262,268.00
 <b>Investing activities</b>		
Purchase of investments	-	- 1,693,409.00
Proceeds from sale of investments	-	1,723,187.00
Long-term investments	-	339.00
	-	29,439.00
 <b>Capital activities</b>		
Acquisition of tangible capital assets	-	- 157,660.00
Proceeds on disposal of tangible capital assets	-	11,900.00
	-	- 145,760.00
 <b>Increase (decrease) in cash and cash equivalents</b>	114,048.41	- 378,589.00
 <b>Cash and cash equivalents, beginning of year</b>	3,501,939.00	3,880,528.00
 <b>Cash and cash equivalents, end of year</b>	3,615,987.41	3,501,939.00
 <b>Represented by:</b>		
Cash and cash equivalents	3,560,073.37	3,214,286.00
Restricted cash and cash equivalents	11,712.87	11,713.00
Stewardship Programs cash and cash equivalents	44,201.04	275,940.00
	3,615,987.28	3,501,939.00

**ST. CLAIR REGION CONSERVATION AUTHORITY  
DISBURSEMENTS FROM November**

**11.(ii)  
Sarah Kellestine**

<b>CHQ. #</b>	<b>DATE</b>	<b>VENDOR</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
17402	02/11/2015	ARBORTECH PROFS. TREE CARE	Tree Removal	\$ 4,330.16
17403	02/11/2015	AUSABLE BAYFIELD CON.AUTHORITY	Middlesex Stewardship	\$ 34,000.00
17404	02/11/2015	BADDER BUS SERVICE	Bus Tour	\$ 1,017.00
17405	02/11/2015	BATTLEFIELD EQUIPMENT RENTALS	Equipment Rental	\$ 63.62
17406	02/11/2015	BUFFETT, TAYLOR & ASSOCIATES I	Group Benefits	\$ 10,944.99
17407	02/11/2015	Compass Group Canada	Meeting Expense	\$ 3,201.66
17408	02/11/2015	DOUGLAS-KOZERA EXCAVATING ENVR	Reimbursment	\$ 1,000.00
17409	02/11/2015	Gilbert, Janice	Phragmites Control	\$ 3,062.30
17410	02/11/2015	HILLEN NURSERY INC.	Trees	\$ 546.64
17411	02/11/2015	INLAND AGGREGATES	Stone	\$ 589.88
17412	02/11/2015	JOHNSTON BROS.(BOTHWELL) LTD.	Gravel	\$ 3,438.93
17413	02/11/2015	J & S LAWN CARE	Lawn Maintenance	\$ 781.96
17414	02/11/2015	Sarah Kellestine - Petty Cash	Petty Cash	\$ 150.25
17415	02/11/2015	Kern Water	Ice	\$ 25.00
17416	02/11/2015	KETTLE CREEK CONS. AUTHORITY	Middlesex Stewardship	\$ 2,000.00
17417	02/11/2015	K T Excavating	Stone	\$ 1,602.34
17418	02/11/2015	KYIS EMBROIDERY	Uniform	\$ 51.98
17419	02/11/2015	LANDSTRA CATERING	Meeting Expense	\$ 736.64
17420	02/11/2015	LARRY MACDONALD CHEV OLDS	Vehicle Maint	\$ 176.13
17421	02/11/2015	Heather Long	Employee Expense	\$ 58.62
17422	02/11/2015	BRIAN MCDOUGALL	Employee Expense	\$ 305.80
17423	02/11/2015	MILLIKEN PLUMBING & HEATING LT	Repairs	\$ 452.29
17424	02/11/2015	MSC Industriall Supply ULC	Padlocks	\$ 274.99
17425	02/11/2015	THE MUFFLERMAN	Vehicle Maint	\$ 33.90
17426	02/11/2015	SHARON NETHERCOTT	Employee Expense	\$ 362.45
17427	02/11/2015	Ontario Professional Foresters	Subscription	\$ 490.00
17428	02/11/2015	ONTARIO MINISTER OF FINANCE	EHT	\$ 3,442.13
17429	02/11/2015	TIM PAYNE	Employee Expense	\$ 134.66
17430	02/11/2015	PRAXAIR DISTRIBUTION, DIV OF P	Service Agreement	\$ 276.74
17431	02/11/2015	PRINCESS AUTO	Supplies	\$ 29.36
17432	02/11/2015	668810 ONTARIO LIMITED O/A RUB	Mulch	\$ 67.80
17433	02/11/2015	Schooley Mitchell Telecom Consultants	Rebate	\$ 2,096.75
17434	02/11/2015	JEFF SHARP	Employee Expense	\$ 60.00

17435	02/11/2015 Shannon Vending Limited	Coffee	\$	109.90
17436	02/11/2015 Shut the Front Door Improv	Christmas Gathering	\$	625.00
17437	02/11/2015 KELLI SMITH	Employee Expense	\$	20.35
17438	02/11/2015 Spriet Associates	Consulting	\$	2,306.54
17439	02/11/2015 STRATHROY TIRE SALES & SERVICE	Vehicle Maint	\$	1,058.81
17440	02/11/2015 ST. WILLIAMS NURSERY & ECOLOGY	Trees	\$	5,226.93
17441	02/11/2015 UPPER THAMES RIVER CONS. AUTH.	Middlesex Stewardship	\$	34,000.00
17443	02/11/2015 WARWICK GAS & VARIETY	Fuel	\$	150.42
17444	02/11/2015 WASTE MANAGEMENT OF CANADA COR	Garbage Collection	\$	1,188.86
17445	02/11/2015 WATFORD HOME HARDWARE BUILDING	Supplies	\$	539.45
17446	02/11/2015 Yellow Pages Group	Advertising	\$	26.22
17447	17/11/2015 21 SHELL & VARIETY	Fuel	\$	89.00
17448	17/11/2015 Aamjiwnaang First Nation Envir	RAP Funding	\$	25,000.00
17449	17/11/2015 Amy's Restaurant & Banquet Hal	Meeting Expense	\$	757.67
17450	17/11/2015 B & R PLUMBING	Repairs	\$	211.88
17451	17/11/2015 Campbells Outdoor Power Equipm	Equipment Rental	\$	3,323.74
17452	17/11/2015 Canadian Linen & Uniform	Mats	\$	109.80
17453	17/11/2015 CENTRAL SANITATION	Portable toilets	\$	1,336.23
17454	17/11/2015 CONSERVATION ONTARIO	SWOOP	\$	5,253.49
17455	17/11/2015 COR'S MOTORS LTD.	Vehicle Maint	\$	64.69
17456	17/11/2015 DALLAS CUNDICK	Employee Expense	\$	242.91
17457	17/11/2015 DEGROOTS NURSERIES LIMITED	Trees	\$	355.61
17458	17/11/2015 THE DIGITAL MAN	IT Maintenance	\$	254.25
17459	17/11/2015 MARLENE DORRESTYN	Employee Expense	\$	36.16
17460	17/11/2015 DOVER AGRI-SERVE INC.	Phragmites Control	\$	11,582.50
17461	17/11/2015 MELISSA GILL	Employee Expense	\$	178.75
17462	17/11/2015 HAMISCO	Supplies	\$	704.79
17463	17/11/2015 JEG'S	Vehicle Maint	\$	28.25
17464	17/11/2015 KYIS EMBROIDERY	Uniform	\$	18.08
17465	17/11/2015 LAMBTON KENT FARM IMPLEMENTS L	Supplies	\$	172.33
17466	17/11/2015 LARRY MACDONALD CHEV OLDS	Vehicle Maint	\$	1,803.30
17467	17/11/2015 LOBLAW COMPANIES LIMITED	Meeting Expense	\$	48.76
17468	17/11/2015 MSC Industriall Supply ULC	Padlocks	\$	274.99
17469	17/11/2015 MUNICIPALITY OF STRATHROY-CARA	Property Taxes	\$	310.56
17470	17/11/2015 PODOLINSKY FARM EQUIPMENT	Vehicle Maint	\$	982.94
17471	17/11/2015 PUROLATOR COURIER	Postage	\$	60.90
17472	17/11/2015 CATHY QUINLAN	Middlesex Stewardship	\$	220.00

17473	17/11/2015 RIVERVIEW	Vehicle Maint	\$	1,629.31
17474	17/11/2015 Doug Rogers	Project Expense	\$	500.00
17475	17/11/2015 Tracy Rogers	Project Expense	\$	500.00
17476	17/11/2015 Rural Lambton Stewardship Network	Costal Wetland Work	\$	10,000.00
17477	17/11/2015 Servicemaster	Office Cleaning	\$	362.25
17478	17/11/2015 SIGNS AND DESIGNS	Signage	\$	1,128.87
17479	17/11/2015 STRATHROY WELDING AND REPAIRS	Safety Posts	\$	526.58
17480	17/11/2015 Strathroy & District Chamber o	Gala	\$	113.00
17481	17/11/2015 STRATHROY HOME HARDWARE BUILDI	Supplies	\$	57.53
17482	17/11/2015 STRATHROY TIRE SALES & SERVICE	Vehicle Maint	\$	115.40
17483	17/11/2015 ST. WILLIAMS NURSERY & ECOLOGY	Trees	\$	1,703.32
17484	17/11/2015 THREE MAPLES VARIETY	Fuel	\$	540.00
17485	17/11/2015 VALLEY LAWN CARE	Lawn Maintenance	\$	864.45
17486	17/11/2015 VAN TUYL & FAIRBANK	Supplies	\$	559.35
17487	17/11/2015 Van Driel Excavating Inc	Project Expense	\$	16,693.00
17488	17/11/2015 WARWICK AUTO SERVICE	Vehicle Maint	\$	838.06
17489	17/11/2015 SHANE WHITE	Employee Expense	\$	131.76
17490	17/11/2015 Allan Wilson/Robert Wilson	Project Expense	\$	402.00
17491	18/11/2015 BRIAN MCDOUGALL	Employee Expense	\$	306.90
17492	23/11/2015 NEOPOST CANADA LIMITED	Postage	\$	677.32

**TOTAL CHEQUE DISBURSEMENTS - BANK #1 -**

**212,128.13**

**INTERNET BANKING September 2015**

<b>TRANS #</b>	<b>DATE</b>	<b>VENDOR</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
8253	31/10/2015	BELL CANADA	Telephone/Internet	\$ 22.14
8254	31/10/2015	BELL CANADA	Telephone/Internet	\$ 198.55
8255	31/10/2015	BELL MOBILITY CELLULAR	Telephone/Internet	\$ 70.08
8256	31/10/2015	BROOKE TELECOM CO-OP	Telephone/Internet	\$ 798.68
8257	31/10/2015	ENTEGRUS SERVICES INC. (CHATHA	Hydro/Water	\$ 985.08
8258	31/10/2015	Execulink Telecom	Internet	\$ 861.41
8259	31/10/2015	FCDQ (DESJARDINS)	Office Supplies	\$ 410.76
8261	31/10/2015	HYDRO ONE Networks Inc.	Hydro/Water	\$ 30,977.12
8262	31/10/2015	MASTERCARD	Employee Purchases	\$ 4,231.40
8263	31/10/2015	OMERS	Pension	\$ 62,344.08

8264	31/10/2015	PETRO CANADA INC.	Fuel	\$	3,081.48
8265	31/10/2015	RECEIVER GENERAL	Source Deductions	\$	69,233.29
8266	31/10/2015	Rogers Cable Communications Inc	Telephone/Internet	\$	192.04
8267	31/10/2015	ROGERS WIRELESS	Telephone/Internet	\$	5.65
8268	31/10/2015	UNION GAS LIMITED	Utility	\$	29.55
8269	31/10/2015	WORKPLACE SAFETY & INS. BOARD	WSIB	\$	4,974.61
8270	31/10/2015	TSC Stores	Supplies	\$	37.28
8271	30/11/2015	BELL CANADA	Telephone/Internet	\$	17.85
8272	30/11/2015	BELL CANADA	Telephone/Internet	\$	392.90
8273	30/11/2015	BELL MOBILITY CELLULAR	Telephone/Internet	\$	68.03
8274	30/11/2015	BLUEWATER POWER	Hydro/Water	\$	140.54
8275	30/11/2015	BROOKE TELECOM CO-OP	Telephone/Internet	\$	608.02
8276	30/11/2015	ENTEGRUS SERVICES INC. (CHATHA	Hydro/Water	\$	912.30
8277	30/11/2015	Execulink Telecom	Internet	\$	861.41
8278	30/11/2015	FCDQ (DESJARDINS)	Office Supplies	\$	1,102.88
8280	30/11/2015	HYDRO ONE Networks Inc.	Hydro/Water	\$	12,596.60
8281	30/11/2015	MASTERCARD	Employee Purchases	\$	5,416.67
8282	30/11/2015	MY BROADCASTING CORPORATION	Advertising	\$	179.67
8283	30/11/2015	PETRO CANADA INC.	Fuel	\$	3,104.16
8284	30/11/2015	RECEIVER GENERAL	Source Deductions	\$	21,474.67
8285	30/11/2015	Rogers Cable Communications Inc	Telephone/Internet	\$	192.04
8286	30/11/2015	ROGERS WIRELESS	Telephone/Internet	\$	5.65
8287	30/11/2015	UNION GAS LIMITED	Utility	\$	35.25
8288	30/11/2015	WORKPLACE SAFETY & INS. BOARD	WSIB	\$	4,669.10

**TOTAL INTERNET DISBURSEMENTS - BANK NO. 1 -**

**230,230.94**

**PAYROLL RUNS**

PAYROLL NO. 22	\$	58,172.96
PAYROLL NO. 23	\$	58,556.89
PAYROLL NO. 24	\$	57,694.39
PAYROLL NO.		
PAYROLL NO.		
PAYROLL NO.		



TOTAL PAYROLL RUNS -

174,424.24

TOTAL DISBURSEMENTS -

616,783.31

**2015 GENERAL LEVY SUMMARY**  
**AS OF Dec 2 2015**

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**GLYSUM2015**  
**Sarah Kellestine**  
**27-Oct-15**

<b>MUNICIPALITY</b>	<b>GROSS LEVY</b>	<b>PAID TO DATE</b>	<b>OUTSTANDING</b>
-----	-----	-----	-----
Sarnia	\$ 278,903.00	\$ 209,177.25	\$ 69,725.75
Chatham-Kent	93,268.00	93,268.00	0.00
Brooke-Alvinston Twp.	11,138.00	11,138.00	0.00
Dawn Euphemia Twp.	17,184.00	12,888.00	4,296.00
Enniskillen Twp.	12,137.00	12,137.00	0.00
Lambton Shores M.	34,404.00	34,404.00	0.00
Oil Springs V	1,394.00	1,394.00	0.00
Petrolia T	17,104.00	17,104.00	0.00
Plympton-Wyoming T	35,576.00	35,576.00	0.00
Point Edward V	16,819.00	16,819.00	0.00
St. Clair Twp.	76,733.00	76,733.00	0.00
Warwick Twp.	14,140.00	14,140.00	0.00
Adelaide Metcalfe Twp.	11,706.00	11,706.00	0.00
Middlesex Centre Twp.	14,564.00	14,564.00	0.00
Newbury V	1,066.00	1,066.00	0.00
Southwest Middlesex M.	7,882.00	7,882.00	0.00
Strathroy-Caradoc M.	57,435.00	57,435.00	0.00
<b>TOTAL</b>	<b>\$ 701,453.00</b>	<b>\$ 627,431.25</b>	<b>\$ 74,021.75</b>
	=====	=====	=====



## **2016 Proposed Budget**

1. Quick Facts (pg. 2-3)
2. 2016 Budget Highlights (pg. 3)
3. 2016 Summary Budget (pg. 4-5)
4. 2016 Expanded Budget (pg. 6-7)
5. 2016 Levy Assessment (CVA) - Schedule "A" (pg. 8-9)
6. 2016 Conservation Areas Maintenance and Operation Budget - Schedule "B" (pg.10-11)
7. 2016 Municipal Funding Summary - Schedule "C" (pg.12-13)
8. 2016 Conservation Area's Capital Projects (pg. 14-16)

# St. Clair Region Conservation Authority

## Quick Facts

### General:

- 17 member municipalities from Lambton and Middlesex Counties and the cities of Sarnia and Chatham-Kent (see member directory for full listing)
- 20 members on the Board of Directors appointed by municipalities (see directory)
- 14 watersheds - Sydenham River with its East and North branches, 13 smaller named watersheds entering Lake Huron, St. Clair River and Lake St. Clair.
- of the 36 Conservation Authorities in the province, the St. Clair Region ranks:
  - **9<sup>th</sup> largest in area (4,100 km<sup>2</sup>)**
  - **16<sup>th</sup> in population (151,420 within the watershed)**
  - **35<sup>th</sup> in general levy (\$3.22 per capita) in 2013, excluding Capital projects**
  - **6<sup>th</sup> in receipt of provincial grant from the Ministry of Natural Resources**
  - **General levy per population in the watershed \$4.173 in 2013**

### Land:

- owns 4,200 acres of property
- manages another 1,340 acres for the County of Lambton
- manages 16 properties (1100 acres) for our Conservation Foundation
- has 16 Conservation Areas including 3 regional campgrounds - 522 serviced campsites
- campgrounds are self-sufficient, profits generated from their operations are used to offset capital development
- over 200,000 visitors to Conservation Areas in 2015

### Water Management:

- has the largest flood control dam and diversion in the province (McKeough Floodway)
- 11 recreation dams at 8 Conservation Areas
- assisting Chatham-Kent with maintenance of nearly 20 km of dykes
- assisting Sarnia, Point Edward, St. Clair Township, Chatham-Kent in maintaining almost 10 km of shore protection and erosion control structures
- in excess of \$52 million invested in conservation lands and flood and erosion control structures

### Planning/Regulations/GIS:

- provided technical and professional comments on over 500 municipal planning and regulation matters in 2015
- commented on provincially generated policy related to natural hazards and heritage features
- managing AOC St. Clair River program
- internal and external GIS computer mapping needs for Authority staff and partners

### Education/Communication:

- helped over 11,700 children discover conservation through outdoor education
- work in partnership with over 100 groups and thousands of individuals who support conservation and environmental programs throughout the watershed

### Biology/Research:

- science based research supporting Species at Risk, benthic water quality monitoring, groundwater monitoring, fisheries, municipal drain classifications

**Forestry/Healthy Watersheds:**

- planted over 3.4 million trees over the last three decades
- constructed over 100 acres of wetlands
- provides technical and professional services to municipalities for land management, erosion control, urban forestry, road side tree planting, private woodlot management
- provided \$2 million in grants to farmers and other landowners to implement Best Management Practices since 2000

**Finances:**

- 2015 Budget - \$6,080,141
- 2015 General Levy - \$701,455 shared by the 17 member municipalities

## **2016 Budget Highlights**

We offer the following highlights for your information:

- General Levy for 2016 is \$701,455 shared by the 17 member municipalities, results in an average cost of \$4.63 per population count within the watershed per year.
- Matching and Non-Matching Levy for 2016 are budgeted to be a \$0 increase from 2015. An increase use of reserves set aside for future capital projects will be used to reduce increases in operating cost to provide a 0% increase in tax levy as directed by our Board.
- Provincial grants to Conservation Authorities support flood control, planning, administration, legal expenses and technical studies.
- In addition, grants continue to be available for studies, inspection, major maintenance, minor maintenance and preventative maintenance of water and erosion control structures to protect significant investments made by the province and municipalities.
- St. Clair Region has in excess of \$52 million invested in flood and erosion control structures and lands.
- Grants applied for in the business plan are used to develop the budget.
- However, the received grants may not be as indicated in the budget. Upon confirmation of approved grants, the budget will be revised to reflect those grants with the combined levy (matching and non-matching) remaining unchanged.
- Detailed budgets for each program or project are available upon request.

Proposed St. Clair Region Conservation Authority 2016 Budget Summary October 20, 2015

	Budget	Provincial Grant	Other Grant/Program Funds	Matching Levy	Non Matching Levy
Flood Control Operations and Maintenance	\$625,732	\$223,500	\$11,000	\$223,500	\$0
Erosion Control Operations & Maintenance	\$41,000	\$20,500	\$0	\$0	\$0
Capital Projects	\$171,100	\$0	\$119,500	\$0	\$0
Source Protection Planning	\$175,000	\$0	\$175,000	\$0	\$0
Planning and Regulations	\$448,292	\$20,000	\$0	\$20,000	\$83,348
TS - Hazard & Flood Information Management	\$16,255	\$4,500	\$0	\$4,500	\$7,255
TS - Lake Huron Shoreline Plan	\$60,000	\$0	\$0	\$0	\$0
TS - Aquatic systems monitoring	\$186,368	\$0	\$5,000	\$0	\$33,000
St. Clair AOC Management	\$110,000	\$0	\$110,000	\$0	\$0
Conservation Services	\$457,650	\$0	\$107,000	\$0	\$0
MNR Species at Risk	\$126,000	\$0	\$126,000	\$0	\$0
Recreation	\$1,163,620	\$0	\$3,000	\$0	\$13,390
Capital Development	\$104,000	\$0	\$0	\$0	\$0
Property Management	\$285,500	\$0	\$0	\$0	\$0
Information and Education	\$211,265	\$0	\$11,500	\$0	\$76,365
IT Capital	\$19,200	\$0	\$0	\$0	\$0
Equipment	\$72,000	\$0	\$0	\$0	\$0
Legal	\$1,000	\$500	\$0	\$500	\$0
Administration	\$840,374	\$41,000	\$6,000	\$61,500	\$178,097
<b>Total CA Budget</b>	<b>\$5,114,355</b>	<b>\$310,000</b>	<b>\$674,000</b>	<b>\$310,000</b>	<b>\$391,455</b>
Employment Programs	\$75,000	\$0	\$0	\$0	\$0
<b>Total Budget</b>	<b>\$5,189,355</b>	<b>\$310,000</b>	<b>\$674,000</b>	<b>\$310,000</b>	<b>\$391,455</b>

**Proposed St. Clair Region Conservation Authority 2016 Budget Summary October 20, 2015**

<b>Special Levy</b>	<b>Revenues</b>	<b>Reserves</b>
St. Clair - McK Maint \$2,000	Carryforwards - \$123,350	\$382
C-K- McK Maint - \$38,000, Arda - \$1,000	Other Income - \$3,000	
Samia - SECP \$13,000 Pt. Edward - PEECP \$2,000 C-K - Dres RetWalls&CECP \$500 Samia - SBECF \$2,000 C-K - Wallaceburg Walls \$1,000 Strathroy - StrECP \$1,000 St. Clair - Corrunna Ret Wall \$1,000		\$0
\$0	Carryforwards - \$51,600	\$0
\$0	\$0	\$0
All Municipalities based on General Levy Split \$45,000 (3D Mapping)	Fees - \$119,000 Foundation - \$5,000 Carryforward - \$13,586	\$141,720
\$0	\$0	\$0
Special Levy \$30,000	\$0	\$30,000
\$0	Carryforward \$148,368	\$0
\$0	\$0	\$0
\$0	Fees - \$293,000 Carryforward \$57,650	\$0
\$0	\$0	\$0
Shetland - Dawn-Euphemia \$9,900 Wawanosh - City of Samia \$9,000 Clark Wright - Strathroy-Caradoc \$1,750 Bridgeview - Town of Petrolia \$900 Coldstream - Middlesex Centre \$1,300 Crothers - Chatham-Kent \$3,200 Stranak - Chatham-Kent \$7,100 Peers - Chatham-Kent \$1,650 Strathroy - Strathroy-Caradoc \$21,620 McEwen - Plympton-Wyoming \$11,610 Dodge - Lambton Shores \$500	Fees - \$1,022,200  Foundation - \$9,750 (McClean) \$27,100  Rental Income - \$19,650	\$0
\$0		\$104,000
\$0	Rental Income - \$180,000 County of Lambton - \$45,000 Carryforward - \$5,500 Revenue - \$45,000	\$10,000
\$0	Fees - \$20,000 Donations - \$50,000	\$53,400
\$0	\$19,200	\$0
\$0	\$72,000	\$0
\$0		\$0
\$0	Rental Income - \$12,000 Interest Income - \$35,000 Foundation - \$25,850 Allocated Admin Costs - \$60,000 Admin Fees - \$53,500 Oil & Gas Revenue - \$57,000 Carryforward - \$152,096	\$153,550
<b>\$205,030</b>	<b>\$2,725,400</b>	<b>\$493,052</b>
\$0	\$75,000	\$0
<b>\$205,030</b>	<b>\$2,800,400</b>	<b>\$493,052</b>

# Schedule "A"

## 2016 Proposed Levy Assessment

<b>Municipality</b>	<b>2015 Current Value Assessment (modified) in Watershed</b>	<b>2015 CVA Apportionment %</b>
Township of Adelaide Metcalfe	\$ 346,558,003	1.6688
Township Brooke-Alvinston	\$ 329,752,690	1.5879
Municipality Chatham-Kent	\$ 2,761,220,575	13.2964
Township Dawn-Euphemia	\$ 508,738,565	2.4498
Township Enniskillen	\$ 359,333,515	1.7303
Municipality Lambton Shores	\$ 1,018,512,531	4.9046
Municipality Middlesex Centre	\$ 431,169,537	2.0763
Village Newbury	\$ 31,565,090	0.1520
Village Oil Springs	\$ 41,293,760	0.1988
Town Petrolia	\$ 506,348,405	2.4383
Town Plympton-Wyoming	\$ 1,053,233,878	5.0718
Village Point Edward	\$ 497,952,498	2.3978
City Sarnia	\$ 8,256,926,385	39.7606
Municipality Southwest Middlesex	\$ 233,344,828	1.1237
Township St. Clair	\$ 2,271,684,115	10.9391
Township Strathroy - Caradoc	\$ 1,700,379,820	8.1880
Township Warwick	\$ 418,613,479	2.0158
	<b>\$ 20,766,627,674</b>	<b>100</b>

2016 Proposed Municipal General Levy : \$0 increase over 2015



<b>2016 Current Value Assessment (modified) in Watershed</b>	<b>2016 CVA Apportionment %</b>
\$ 355,168,489	1.7019%
\$ 331,528,985	1.5889%
\$ 2,781,739,621	13.3292%
\$ 506,386,110	2.4264%
\$ 358,710,860	1.7188%
\$ 1,023,643,362	4.9050%
\$ 439,048,284	2.1038%
\$ 31,831,390	0.1525%
\$ 41,347,570	0.1981%
\$ 506,736,340	2.4281%
\$ 1,066,749,923	5.1115%
\$ 500,836,338	2.3998%
\$ 8,269,463,090	39.6247%
\$ 236,723,320	1.1343%
\$ 2,278,403,273	10.9174%
\$ 1,719,400,365	8.2388%
\$ 421,770,115	2.0210%
<b>\$ 20,869,487,435</b>	<b>100%</b>

<b>2015 Proposed General Levy</b>	<b>2016 Proposed General Levy</b>
\$ 11,706	\$ 11,938
\$ 11,138	\$ 11,145
\$ 93,268	\$ 93,498
\$ 17,184	\$ 17,020
\$ 12,137	\$ 12,057
\$ 34,404	\$ 34,406
\$ 14,564	\$ 14,757
\$ 1,066	\$ 1,070
\$ 1,394	\$ 1,390
\$ 17,104	\$ 17,032
\$ 35,576	\$ 35,855
\$ 16,819	\$ 16,834
\$ 278,903	\$ 277,948
\$ 7,882	\$ 7,957
\$ 76,733	\$ 76,581
\$ 57,435	\$ 57,791
\$ 14,140	\$ 14,176
<b>\$ 701,453</b>	<b>\$ 701,455</b>

## Schedule "B"

### 2016 Proposed Conservation Area Maintenance and Operation Budget

	2015 Budget	2016 Proposed Budget	Special Levy
403- Shetland	\$ 10,600	\$ 11,000	\$9,900( Dawn-Euphemia)
404 - Sinclair	\$ 500	\$ 500	
405 - Wawanosh	\$ 9,500	\$ 10,000	\$9,000 (City of Sarnia)
413 - Clark Wright	\$ 2,350	\$ 2,500	\$1,750 (Strathroy-Caradoc)
416 - -Bridgeview	\$ 900	\$ 900	\$900 (Town of Petrolia)
417 - Campbell	\$ 255,650	\$ 295,500	
419 - Coldstream	\$ 1,300	\$ 1,300	\$1,300 (Middlesex Centre)
448 - Crothers	\$ 1,600	\$ 3,200	\$3,200 (Chatham-Kent)
455 - Peers	\$ 5,300	\$ 9,200	\$1,650 (Chatham-Kent)
458 - Warwick	\$ 457,700	\$ 476,400	
470 - Stranak	\$ 8,000	\$ 7,100	\$7,100 (Chatham-Kent)
472 - Henderson	\$ 265,500	\$ 273,900	
474 - Strathroy	\$ 38,500	\$ 21,620	\$21,620 (Strathroy-Caradoc)
485 - McEwen	\$ 12,200	\$ 12,900	\$11,610 (Plympton-Wyoming)
486 - Mclean	\$ 19,200	\$ 27,100	
489 - Highland Glen	\$ 10,000	\$ 10,000	
493 - Dodge	\$ 900	\$ 500	\$500 (Lambton-Shores)
<b>Total</b>	<b>\$ 1,099,700</b>	<b>\$ 1,163,620</b>	<b>\$ 68,530</b>

Notes:

**Regional Conservation Areas** (A.W. Campbell, L.C. Henderson, Warwick, Highland Glen)

**Local Conservation Areas** (Shetland, Wawanosh, McEwen, Clark Wright)

**In Town Conservation Areas** (Strathroy, Coldstream, Dodge, Stranak, Crothers, Bridgeview)

Detailed budgets for specific conservation areas available upon request.

The areas are supported by employment programs, fundraising, friends of groups, St. Clair Region Foundation and grants programs from corporate and non-profit organizations.

<b>Non-Matching General Levy</b>	<b>Revenues</b>	<b>Foundation</b>	<b>Other Donations</b>	<b>Grant Seasonal Employment</b>
\$ 1,100				
		\$ 500		
\$ 1,000				
		\$ 750		
	\$ 285,500		\$ 8,000	\$ 2,000
	\$ 7,550			
	\$ 475,900		\$ 500	
	\$ 272,900			\$ 1,000
\$ 1,290				
	\$ 27,100			
\$ 10,000				
<b>\$ 13,390</b>	<b>\$ 1,068,950</b>	<b>\$ 1,250</b>	<b>\$ 8,500</b>	<b>\$ 3,000</b>

**Summary of Authority / Foundation Land Holdings**

Hectares

Conservation Lands	556
Conservation Forests	81
McKeough Upstream Lands	746
McKeough Dam & Channel	236
Foundations Lands	317
<b>Total</b>	<b>1936</b>

Flood Easements 647

To ensure the wisest use of these lands, the Authority works with the public and private sectors by entering into various lease agreements including agricultural, residential and other resource management leases. 918 hectares are under lease.

# 2016 Proposed Municipal Funding

## Schedule "C"

### Municipal Funding Summary

Municipality	2015	2016	2015/2016	2015	2016
	CVA Apport.%	CVA Apport.%	Increase or (Decrease)	General Levy	Proposed General Levy
Adelaide Metcalfe Tp	1.6688%	1.7019%	0.0331%	\$ 11,706	\$ 11,938
Brooke-Alvinston Tp	1.5879%	1.5889%	0.0010%	\$ 11,138	\$ 11,145
Chatham-Kent M	13.2964%	13.3292%	0.0328%	\$ 93,268	\$ 93,498
Dawn-Euphemia Tp	2.4498%	2.4264%	-0.0234%	\$ 17,184	\$ 17,020
Enniskillen Tp	1.7303%	1.7188%	-0.0115%	\$ 12,137	\$ 12,057
Lambton Shores M	4.9046%	4.9050%	0.0004%	\$ 34,404	\$ 34,406
Middlesex Centre M	2.0763%	2.1038%	0.0275%	\$ 14,564	\$ 14,757
Newbury V	0.1520%	0.1525%	0.0005%	\$ 1,066	\$ 1,070
Oil Springs V	0.1988%	0.1981%	-0.0007%	\$ 1,394	\$ 1,390
Petrolia T	2.4383%	2.4281%	-0.0102%	\$ 17,104	\$ 17,032
Plympton-Wyoming T	5.0718%	5.1115%	0.0397%	\$ 35,576	\$ 35,855
Point Edward V	2.3978%	2.3998%	0.0020%	\$ 16,819	\$ 16,834
Sarnia C	39.7606%	39.6247%	-0.1359%	\$ 278,903	\$ 277,948
Southwest Middlesex M	1.1237%	1.1343%	0.0106%	\$ 7,882	\$ 7,957
St. Clair Tp	10.9339%	10.9174%	-0.0165%	\$ 76,733	\$ 76,581
Strathroy - Caradoc Tp	8.1880%	8.2388%	0.0508%	\$ 57,435	\$ 57,791
Warwick Tp	2.0158%	2.0210%	0.0052%	\$ 14,140	\$ 14,176
				\$ 701,453	\$ 701,455

2015/2016 Increase or (Decrease)	3D Mapping	Lake Huron Shoreline Mgmt	2016				2015		Change
			Flood Control Oper/Maint	Erosion Control Oper/Maint	Recreation	Total Municipal Funding	Total Municipal Funding		
\$ 232	\$ 766					\$12,704	\$12,457	1.98%	
\$ 7	\$ 715					\$11,860	\$11,853	0.06%	
\$ 230	\$ 5,998		\$39,000	\$1,500	\$11,950	\$151,946	\$150,502	0.96%	
-\$ 164	\$ 1,092				\$9,900	\$28,012	\$27,827	0.66%	
-\$ 80	\$ 773					\$12,830	\$12,916	-0.67%	
\$ 2	\$ 2,207	\$ 10,000			\$500	\$47,114	\$37,511	25.60%	
\$ 193	\$ 947				\$1,300	\$17,004	\$16,799	1.22%	
\$ 4	\$ 69					\$1,138	\$1,135	0.29%	
-\$ 4	\$ 89					\$1,479	\$1,484	-0.36%	
-\$ 72	\$ 1,093				\$900	\$19,025	\$19,101	-0.40%	
\$ 279	\$ 2,300	\$ 10,000			\$11,610	\$59,765	\$48,839	22.37%	
\$ 15	\$ 1,080			\$2,000		\$19,913	\$19,898	0.08%	
-\$ 955	\$ 17,831	\$ 10,000		\$15,000	\$9,000	\$329,780	\$320,345	2.95%	
\$ 75	\$ 510					\$8,467	\$8,388	0.94%	
-\$ 152	\$ 4,913		\$2,000	\$1,000		\$84,493	\$244,655	-65.46%	
\$ 356	\$ 3,707			\$1,000	\$23,370	\$85,869	\$102,220	-16.00%	
\$ 36	\$ 909					\$15,086	\$15,047	0.26%	
\$ 2	\$45,000	\$30,000	\$41,000	\$20,500	\$68,530	\$906,485	\$1,050,977	-13.75%	

# St. Clair Conservation Conservation Areas 2016 Proposed Capital Projects

## Warwick Conservation Area

### Pool Renovations:

- The pool was constructed in 1994 and recently the ceramic tiles have started to fall off exposing the underlying concrete and the interior plaster surfacing has become pitted and worn
- The renovation would involve the removal of all tile and interior plaster surfacing and then replaced with new 2 x 2 porcelain tile and coloured quartz surfacing
- LC Henderson pool was similarly renovated in 2011
- Estimated cost \$28,000



### Upgrade roadways with gravel:

- Estimated cost \$4,000

### Picnic tables and site indicators:

- Purchase 5 new picnic tables
- Estimated cost \$1,500

### Upgrade WIFI system:

- Installation of new technology and fiber optic cable to accommodate the current demand within the campground
- Estimated cost \$15,000

**Total capital cost for Warwick: \$48,500**

## L.C. Henderson Conservation Area

### Accessible washroom building:

- This would be a prefabricated 8 x 8 ft building located between two main camping areas and would have a flush toilet and accessible sink
- The building would be designed to meet AODA standards and requirements
- Estimated cost \$16,000



#### Pool Renovations:

- Replacement of pool fence (current fence installed in 1990 shows significant rusting)
- Replacement of original ladders and entrance railings
- Estimate Cost \$5,000

#### Upgrade roadways with gravel:

- Estimate cost \$5,000

#### Picnic Tables:

- Purchase 5 new picnic tables
- Estimated cost \$1,500

**Total capital cost for L.C. Henderson \$27,500**

### **A.W. Campbell Conservation Area**

#### Workshop Addition:

- Construct a 12 x 34 ft addition onto the existing workshop to facilitate a superintendent's office, staff lunchroom and storage.
- Currently the superintendent's office and staff room is located within the workshop area where there are customer service and health & safety issues
- Estimated cost \$15,000



#### Upgrade roadways with gravel:

- Estimated cost \$4,000

#### Picnic tables:

- Purchase 5 new picnic tables
- Estimated cost \$1,500

#### Washroom Upgrade:

- Propose to install two shower surrounds in each washroom at the pool washroom building
- Estimated cost \$5,000

**Total capital cost for A.W. Campbell Conservation Area \$25,500.00**

**Total Proposed capital \$ 101,500.00.**



St. Clair Region Conservation Authority  
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[stclair@scrca.on.ca](mailto:stclair@scrca.on.ca)  
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member of



Conservation Ontario Website  
[www.conservation-ontario.on.ca](http://www.conservation-ontario.on.ca)



# Staff Report

To: Board of Directors  
Date: November 25, 2015  
From: Tracy Prince, Director of Finance  
Subject: AODA – IASR Introductory Training

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New Board members must have the AODA – IASR Training by the end of the year to ensure compliance with the Accessibility Ontario Disabilities Act.

Most directors did this training last year, but if you are new to the SCRCA Board we must have a signed form on file by December 10<sup>th</sup>, 2015, before the 2015 year-end AODA compliance reporting can be completed.

You can complete this training at home on your computer using the links provided in the Board Package section 11(vi), or the lower boardroom can be set up for you to complete on December 10<sup>th</sup>. If you cannot attend the December 10<sup>th</sup> meeting and want to do the training here at the office, please advise the office and we will arrange for you to complete the training here before that date.

## AODA - IASR Introductory Training

Welcome to the SCRCA web-based training on the AODA Integrated Accessibility Standards Regulations (IASR). This training course covers:

- The AODA Integrated Standards
- The Ontario Human Rights Code, and
- SCRCA's Integrated Accessibility Standards Policy and Plan.

Please view the introductory videos in Steps 1 and 2, then read the SCRCA's Integrated Accessibility Standards Policy and Plan in Step 3. Once you have viewed the videos and read the Plan, please print this page, sign it at the bottom, and give it to Human Resources.

The whole process should take about forty-five minutes.

### **Step 1: Introductory Videos: AODA Integrated Standards Regulation (16 minutes)**

<http://www.accessforward.ca/trainingResources/general-video>

1. AODA General Requirements
2. AODA Information and Communications Standard
3. Training video on AODA Employment Standard
4. Training video on AODA Design of Public Spaces Standard

### **Step 2: Videos: Ontario Human Rights Code (20 minutes)**

View the following 5 videos by clicking on the links below.

1. Part 1: Working Together  
<https://www.youtube.com/watch?v=EOicdh2C8A0>
2. Part 2: The Code  
<https://www.youtube.com/watch?v=UN02D6zJExI>
3. Part 3: Understanding the Duty to Accommodate  
<https://www.youtube.com/watch?v=O88pcfAjN20>
4. Part 4. Applying Human Rights Principles  
<https://www.youtube.com/watch?v=FPBmoMpAJi8>
5. Part 5. Compliance and Enforcement  
<https://www.youtube.com/watch?v=m27F6yJ-FMo>

### **Step 3: Please read the SCRCA's IASR Policy Plan (10 minutes)**

SCRCA's Integrated Accessibility Standards Policy and Plan

<http://www.scrca.on.ca/wp-content/uploads/2014/10/accessible-standards-policy-REVISED-2014.pdf>

**Step 4: Print and sign this page**

Once you have viewed all the material, please print both sides of this page, sign in the space on the second side of this document, and submit to Heather Long. Thank you!

Course Completion:

I have viewed the training materials listed above.

(Signature) \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Part 2

SCRCA AODA – IASR In-Depth Training

Depending on your role in this organization, you may be asked to complete more in depth training on one or more of the modules. This training can be taken in various formats. Please go to [www.accessforward.ca](http://www.accessforward.ca) for this training.

Once you get to the website, click on the applicable module and then choose your format (Take it, watch it, hear it, or read it)

Upon completion, please sign below.

Name of Modules: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# Staff Report



To: Board of Directors  
Date: November 25, 2015  
From: Tracy Prince, Director of Finance  
Subject: Changes to Administration Manual

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The following chart outlines changes to the Administration Manual since it's approval in June.

Page	Section	Section Title	Reason for Change	What has Changed	11.(vii)
6	4.4	Conflict of Interest	Typo	<b>Remove "s"</b> from "questions": ".....with the activities in question"	
24	13	Summary of Benefits	Added	Retiree Benefit Continuation to Permanent, Full-time employees at 100% cost recovery, subject to requirements within the current benefit plan	
27	1.9	Hiring, Separation, Absences	Typo	<b>Add "n"</b> : "...for the given position."	
28	3.1	Hiring, Separation, Absences	Incomplete thought	From time to time, due to changes in enrollment, due to changes in enrollment, due to fiscal, budgetary, or operating constraints, it may become necessary for position. <i>Changed to: "From time to time, due to fiscal, budgetary, or operating constraints, it may become necessary for positions to be abolished. All such eventualities will be handled according to the following guidelines."</i>	
39	4.1	Vehicles and Equipment	Typo	<b>"owed"</b> changed to <b>"owned"</b> ".....an Authority- <b>owned</b> vehicle..."	
39	4.1	Vehicles and Equipment	Grammar	<b>are</b> changed to <b>is</b>	
40	4.4	Vehicles and Equipment	Changed	It is mandatory that seat belts be used by all occupants of an Authority vehicle at all times <b>unless exempted by the Highway traffic act.</b>	
40	4.4	Vehicles and Equipment	Added	Authority vehicles should not be used to transport flammable items, firearms, or other hazardous materials <b>unless specifically required to perform the duties of your job (eg. Herbicides, gas for Authority equipment).</b> If required these materials must be stored in appropriate containers, and secured to protect the employee, property, environment and from theft	

43	4.12.6	Vehicles and Equipment	Wording change	<p>If the employee grants permission for someone other than an employee that their job requires them to have a Driver's License, to drive their assigned vehicle.</p> <p>If the employee grants permission to someone who has not been approved to operate an authority owned motor vehicle</p>
46	5.1	Vehicle Abstract	Wording change	<p>After that, the employer should pull an abstract on each employee at least once a year (if applicable as Ontario has a 3 year abstract), if not every six months or as required</p> <p>After that, the Authority will pull an abstract on each employee at least once a year or as required</p>
62	1.3	Occupational Health & Safety Act	Change to match wording in Health & Safety Manual	<p>REMOVED: and for the public using Authority owned properties ADDED: and is dedicated to the continued objective of reducing the risk of injury in the workplace. Supervisory staff in all Authority positions will (REMOVED acquaint) ADDED: provide employees with the most current health and safety information and ADDED: appropriate training. ADDED: Employees will be committed to and promote the need for safe work practices as well as the elimination of potential hazards from all our work sites. REMOVED: He or she will promote the need for safe work practices and the elimination of potential hazards from all out work sites and areas utilized by the public.</p>
62	1.4	Occupational Health & Safety Act	Wording change	<p>Policy to policies, procedure to procedures</p>
68	4.2	Harassment & Workplace Violence	Typo	<p>Add "s" to "it".... of its commitment..."</p>

69	5.6	Harassment & Workplace Violence	Wording change	"Department Supervisors" changed to: "Department Managers"
72	8.2.1	Harassment & Workplace Violence	Typo	"by" changed to "but" "and" changed to "any" "...or discrimination but did not take any steps...."
74	9.6.1	Harassment & Workplace Violence	Typo & wording change	"at" changed to "an" "...where safety is an issue,..." "Strathroy Police Department" changed to: "Police Department"
74	10.2	Workplace Violence	Duplicate bullet number	Second 10.2 changed to 10.3
75	10.2.1 - 10.4.2	Workplace Violence	Bullet Number	changed (see above)
82	2.1.3	Accountability & Grievance Procedure	Typo - wrong section	REMOVED: Any employee who without the written consent of the General Manager shall be subject to discipline or termination of employment.
83	1.3	Administration Regulations	Typo	"changer" changed to "change" ".....and is authorized to change"
86	1.1	Risk Management	Update	Removed Reference to Safety Officer and made name change to Management Representative
86	1.3	Risk Management	Update	Removed 1.3 and renumbered 1.4 to 1.6
87	2.10	Risk Management	Typo	"are" changed to "on" "...activities on all reservoirs,"
89	4.1	Risk Management		The Management Representatives shall be REMOVED: the Director of Finance, who is responsible for insurance and risk management and the Director of Conservation Areas. ADDED appointed by the General Manager
90	4.4	Risk Management	Typo	"a" changed to "the" "The members of the committee....."
102	2.2.4.1	Mandate, Committees and Directors	Rewording	Added "identify" those lands
106	6.2.2	Mandate, Committees and Directors	Typo	"in" changed to "to" "...encourage private landowners to establish"

110	8.2.5	Mandate, Committees and Directors	Typo	" <b>assisting</b> " changed to " <b>assist</b> " "... to <b>assist</b> stocking programs..."
120	4.2	Accountability and Transparency	Typo	" <b>whose</b> " changed to " <b>those</b> " engage <b>those</b> that it serves..."
130	3.1	Authority Owned Cell Phone Use	Removed	"Some or all of these services can be selected based on defensible business needs. However, basic features included with every Authority owned and support cell phones include:"
131	3.1.3, 3.1.4, 3.1.5, 3.1.6	Authority Owned Cell Phone Use	Removed	
132	4.1.3	Authority Owned Cell Phone Use	Removed	"Pooled"
138	4.1	Building Closure	N/A for SCRCA	<b>Deleted</b> - "(collective agreements may specify amount of advanced notice required)"
138	4.1	Building Closure	NA term	<b>Deleted</b> - "(floater days)"
139	all sections	Computer Usage and Social Media	Typo	" <b>S.C.R.C.A.</b> " changed to " <b>SCRCA</b> "
146	4.8.1	Computer Usage and Social Media	Typo	" <b>rely</b> " changed to " <b>reply</b> " or <b>reply</b> to the message." "...delete,
149	6.1	Computer Usage and Social Media	Removed	"Developments in technology have resulted in the developments; however, can pose threats to the safety and integrity of our corporate information"
150	6.1	Computer Usage and Social Media	Typo - Chart 2.1 Compliance	" <b>rick</b> " changed to " <b>risk</b> " the enterprise to the <b>risk</b> of non-compliance..." "...expose
150	6.4	Computer Usage and Social Media	Typo	" <b>acquire</b> " changed to " <b>acquired</b> " laptops <b>acquired</b> through ...." "...or
150	6.5	Computer Usage and Social Media	Removed word	<b>Deleted</b> - " <b>Security</b> " and changed "all" to " <b>All</b> " "All Authority ..."
161	1.5.1.2	Purchasing	Typo	" <b>form</b> " changed to " <b>from</b> " ".....items acquired <b>from</b> annually..."



161	1.5.1.4	Purchasing	Typo	"are" changed to "or" "...related to land purchases or easements....."
165	App. 1	Staff Position	Wording of Staff Positions	Department Directors/Heads
166	3	Insurance	Clarification	Removed "he or she" and "his"
175	1	Proerty Assessments	Typo	"purchase" changed to "purchased" "...all property purchased,..."
176	1.3	Signing	Typo	General Manager/Secretary-Treasurer

■ NATURE: Conservation authority monitors reptiles

# Foxsnake habitat enhanced through local program

Daily News Staff

The St. Clair Region Conservation Authority has provided habitat enhancements for the eastern foxsnake, a species that's endangered in the province.

The snake has experienced a dramatic decline in population in Southwestern Ontario, due to such factors as habitat loss, road mortality, predation and collection for the pet trade, according to the authority.

To help provide critical habitat, authority staff have created three artificial nesting boxes for female eastern foxsnakes to lay and incubate eggs in a location that would also be protected from predators, including skunks, raccoons and foxes.

Foxsnakes breed in spring and lay their eggs in early summer. Females will lay between 15 and 29 eggs in a clutch on average. In some cases more than one female may use the same nesting site.

For the program, Brandon Jordan, a Wallaceburg District Secondary School student, volunteered his time over the summer to be a nesting box steward and to monitor the artificial nesting boxes for snake activity.

The program involved observing adult snakes hunting, or looking for food around the site in early to mid-summer, finding snake skin sheds in the nesting box material, and observing young snakes around the nesting site in early to mid-fall.

At the end of the season, Jordan



**We were excited to find approximately 40 egg shells in one of the boxes demonstrating that artificial nesting boxes can be successful."**

The St. Clair Region Conservation Authority

and authority staff checked the nesting boxes for eggs that had been successfully incubated.

"We were excited to find approximately 40 egg shells in one of the boxes demonstrating that artificial nesting boxes can be successful," the conservation authority said in a media release. "In this case, 40 young eastern foxsnakes are on the move to start the long and difficult journey into adulthood."

The nesting boxes are a part of the conservation authority's Reptiles at Risk program with funding received by the Ministry of Natural Resources and Forestry's Species at Risk Stewardship Fund.

If residents are interested in providing habitat enhancements on your own property, or would like further information, they can contact Kelli Smith at [ksmith@scca.on.ca](mailto:ksmith@scca.on.ca).



CONTRIBUTED PHOTO

Brandon Jordan stands beside one of the eastern foxsnake artificial nesting boxes used to enhance the habitat for this endangered species.

■ COMMUNITY: Hindu society marking celebration Nov. 7

■ COURT: Orillia woman crashed vehicle after using meth

## Editorial

### ● GUEST COLUMNIST:

# The text stops here...

While on a recent road trip that took us through the state of New York, my husband and I were intrigued to see some interesting road signs along the way.

Of course, these signs are just 'a sign of the times' (no pun intended). The blue and white signs had messages such as Texting Ahead; Text Stop, 5 miles; It Can Wait, or You Can Make It, Text Stop 5 miles.

Of course, with today's mobile devices it is a common occurrence for drivers to text or talk on their cell phones as they drive.

The resulting accidents are on the increase not only in New York State but everywhere ... and they are completely avoidable.

In the fall of 2013, New York decided to install close to 300 of these signs at parking areas and rest stops on free-ways, hoping to catch motorists' attention and send the message that no text message is so important it can't wait. Fines range from \$50 to \$400.

The problem seems to be a type of addiction, having that cell phone in hand at all times, checking in, checking out, no matter where you are or who you are with.

It certainly was an 'ah ah' moment to see a recent on-line posting/cartoon of a family sitting down to dinner, everyone with their heads down (and it wasn't to say grace), wide-eyed with hands grasping their cell phones and fingers flying!

What happened to eye

contact and conversation? What happened to sharing the day with one another?

Not to mention the neck and back problems that will one day catch up to the young people.

As a senior, I even have friends who regularly check their cell phones.

If I didn't know better, I would feel like my presence was not all that important!

Singer-songwriter Ed Sheeran said he is planning to take a nine-month leave from social media in December.

This is a guy who has more than 15 million followers on Twitter.

He wants to get off his phone, social media and email so he can "live and drive to places, listen to music, have normal conversations with people and get back to normality."

Recently while under the Blue Water Bridge walking my dog, I witnessed a situation that poignantly spoke of the lure of a cell phone.

A young woman, with a young boy; he was skipping along the walkway happy to be there, but trying in vain to get the woman's attention ... for, you see, she was busily clicking away on her phone with barely time to look up.

Actions do speak louder than words.

*Nadine Wark is a retired office administrator and freelance writer who resides in Sarnia.*



Nadine Wark



THIS PHOTO TAKEN last year shows a piece of the Old Lakeshore Road right-of-way just east of the Cull Drain.

Glenn Ogilvie file photo

## Reclaim the lakefront right-of-way

The question of who owns half a mile of prime Lake Huron waterfront near Bright's Grove could be resolved as early as next spring.

The sandy beach between the Cull Drain and Mike Weir Park is inaccessible and for decades now has generally been perceived as belonging to the adjacent property owners.

But the right-of-way under Old Lakeshore Road was never legally surrendered after the asphalt collapsed in a 1973 storm, city hall says, so the land is still public property.

City staff are planning to host a public meeting or two by March, after which council will need to settle a dispute that has been simmering for years now.

Basically, councillors have two options: 1 - Reaffirm public ownership and order the homeowners over time



to remove the decks, boat houses and fences they've built on the right-of-way, to eventually create a waterfront trail.

2 - Declare the right-of-way surplus land, sell it to the adjacent property owners and be done with it.

The temptation, of course, will be to sell and let the 26 homeowners pay for their own expensive and needed shoreline protection.

But giving up on this unmaintained municipal right-of-way would be a huge mistake.

We're talking about 800 metres of sandy shoreline bordering one of the largest and cleanest lakes in the world. Waterfront land is

finite and precious. It's why Herman Melville devoted the first chapter of Moby Dick to water's magical allure.

It's why a home in Sarnia costs more on Beach Lane than Sunset Lane.

And it's why tourism officials pitch potential visitors on Sarnia's beautiful beaches, which are indeed beautiful but largely off-limits to most of us.

Other than Canatara, Bright's Grove and a few leftovers at the end of major thoroughfares like Murphy and Modeland, the city's beaches are privately owned.

To understand why Sarnia should reaffirm ownership of its "lost beach" you need only look to the riverfront.

What was once a polluted industrial zone on Sarnia Bay was transformed into Centennial Park and added to piece by piece to create a contiguous public space

that's the envy of many Great Lakes cities.

The riverfront is a treasure that required foresight and determination.

City engineering staff recently located the original survey stakes with a metal detector and confirmed the right-of-way is intact, though narrower than the original 66 feet in a few places.

With a new (or the old) bridge spanning the Cull Drain, Sarnia would have one continuous lakefront trail running from Rainbow Cove near the foot of Telfer Road to the mouth of Cow Creek near St. John in the Wilderness Church, a distance of more than four kilometres.

The lost beach right-of-way is simply too important to current and future generations of Sarnians to let slip in the name of expediency.

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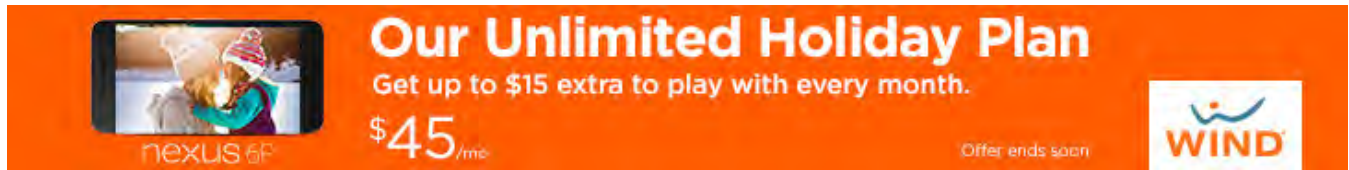
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## NEWS LOCAL

### ENVIRONMENT

# Lake Erie algae bloom now larger than Toronto



By Debora Van Brenk, The London Free Press  
Monday, November 23, 2015 10:40:00 EST AM



Lake Erie algae remains a worry for residents of communities along its Great Lakes shoreline. The toxic blobs are a menace to drinking water intakes and a threat to fish. (File photo)

A slight change in the wind, current or rain keeps Lake Erie-watchers awake some summer nights.

That's when an unwanted scourge — algae — starts to take off in the lake, fuelled by heat, farm run-off, human sewage and other pollutants from Southwestern Ontario and along Erie's American shoreline.

The stinky, scummy, toxic algae blobs — a menace to drinking water intakes and, when they die, an oxygen-sucking threat to fish — are no stranger to Southwestern Ontario, especially along Erie's western reaches where the problem typically is its worst.

One thinly-spread bloom grew to almost the size of Prince Edward Island four years ago.

But bad as that was, it gets worse.

The numbers from this summer are now in from a U.S. federal agency that tracks the problem, and despite tougher rules to curb pollution on both sides of the border, Erie's unwanted emerald blanket morphed to a dense 777 square kilometres.

That's an area larger than Toronto or New York City.

And the algae's total volume — the sheer density of it — was unmatched even by the 2011 bloom.

At times, the latest bloom also stretched almost as far north in the lake as Port Stanley, a major tourism hotspot south of London, and far enough into Southwestern Ontario waters to lap Essex County's shores.

"This is the environment that we live in until we stop polluting," said Mayor Rick Masse of Pelee Island, located in the lake and Canada's southernmost community. Its beaches were closed for a week this year and a bulk water depot was set up to help some small, private drinking-water systems contaminated by the scum.

Until people stop treating Erie's western basin "as a sewer," said Masse, "it's not going to get better."

Unlike Toledo, Ohio, which had to shut off its lake drinking-water supply at the height of a 2014 slurry, Pelee Island's water wasn't affected this year.

But it had plans just in case the slightest wind shift changed that.

"There were many reported incidents where people were coming in their own pleasure craft and (on) the ferry who had to drive through pea soup," said Masse.

He's bothered that it comes down to this: Crossing fingers and hoping the pollution fades, and relying on increasingly stringent water-treatment precautions if it doesn't.

The largest algae bloom, in 2011, rated a 10 on a biomass index. It covered almost 5,000 square kilometres.

This one rated a 10.5 — smaller, but with an even higher volume of green goop.

"We haven't had to go above a 10 before," said Greg Piniak, of the U.S. National Oceanic and Atmospheric Administration (NOAA), the agency that tracks the algae.

One reason this year's blanket was so thick was a lot of spring and summer rain that washed phosphorus and nitrates into the lake from farms and malfunctioning sewage septic systems.

The timing of all that rain sowed the seed for a fresh layer of algae, fed by summer heat.

"We've gotten ourselves 'out' of the problem by putting up signs, 'Don't swim, don't drink, don't fish,'" said Mark Mattson, head of Lake Ontario Waterkeepers, an environmental group that's pushing for cleaner water and beaches throughout the Great Lakes.

The less time people spend at the lake, the less they're likely to solve problems they've created, he said.

"What happens on Lake Erie surely makes an impact on what happens in the rest of the lakes," Mattson said.

He believes Erie is healthier now than in the 1960s and '70s, when toxic algae hit such high levels it prompted legislation on both sides of the border to limit detergents and sewage pouring into the lakes.

But the problem has resurged with changing farm practices and higher demands on civic sewage plants.

## THE DIRTY BACKSTORY

- Much of Erie's run-off problem has been traced to contaminants flowing into it from the Maumee River and through Toledo, Ohio.
- But genetic signatures of the bacteria have also been found to match contaminants in the Thames River, which drains much of Southwestern Ontario and where heavy rains still overwhelm sewage treatment plants, releasing raw or only partially treated waste into the system.
- Dismay about Erie is so dire, some U.S. environmentalists want its western basin declared "impaired." That would trigger specific protection and remediation and could include measures to name-and-shame polluters.

## LAKE ALGAE BLOOMS

- Runaway growth in simple plant organisms.
- Sometimes called blue-green algae.
- Algae 'seeds' lie dormant until fed by heat and nutrients, like phosphorous and nitrogen.
- Farm run-off and urban sewage, containing the same ingredients, fuels them.
- Summer heat kick-starts a form containing a bacterial toxin.
- Can threaten the safety of drinking water.

#### THE PROMISES

- Ontario, Michigan and Ohio have pledged to reduce phosphorous going into Erie by 20% by 2020 and by 40% within 10 years.
- Ontario last month passed legislation meant to restore and safeguard the Great Lakes.

#### EARLY WARNING SYSTEMS

- Government agencies such as the NOAA are using and developing more precise monitoring and prediction models than ever before, including rapid testing, satellite surveillance and in-lake monitoring stations.



# Clean Water for Living celebrates best environmental practices

**Don Robinet**  
Postmedia Network

When people in Canada hear about poor water quality, or not having access to clean drinking water, it's usually in connection with a Third World country, or a remote northern reserve.

Here in the Great Lakes basin, we have an embarrassment of riches, with a good supply of clean water nearby and all we have to do is turn on the tap to access clean and inexpensive water.

Unless we manage to pollute the good thing we have.

Occasional headlines have reminded us that we can't take our water supply for granted, such as when the city of Toledo had to temporarily shut down its water intake in the summer of 2014 due to the presence of a toxic algae bloom.

Inspired in part by the presence of the toxic blooms in the western basin of Lake Erie, the Rotary Club of Chatham Sunrise has taken on a public awareness project called Clean Water for Living.

The club announced the launch of the project at a press conference held Nov. 17 at the Travelodge in Chatham.

Club president

Mary-Frances Kluka said, "The new Clean Water for Living project is intended to encourage everyone to appreciate the valuable water resource we have in our area. Everyone must respect and protect water locally."

Club member and project chair John Lawrence said, "We all need clean water to lead healthy and productive lives. However, the Lake Erie algal bloom, annual swimming bans at local beaches, overflows of sewage from municipal treatment facilities and spills of oil and other chemicals are a call to action. There are so many issues around clean water that people frequently tune out the discussion. It is for this reason we decided to take the positive approach of identifying and highlighting 'Clean Water Champions' - people and organizations illustrating good water management practices."

Lawrence added that there isn't any one particular cause for water pollution and they're not laying blame because everyone has a role to play. He said residents, municipalities, institutions and agriculture are all responsible for protecting water sources.

"We want to empower people to do something by

providing them with actionable items," said Lawrence.

Simple things such as saving and storing rainwater for non-drinking use, such as watering plants, and using environmentally friendly cleaning products add up to major changes when the effort is repeated across the population.

Sunrise Rotary has created a website at [cleanwaterforliving.com](http://cleanwaterforliving.com) that provides some inspiring local examples of ways in which people have made a conscious effort to protect water and, at the same time, save money on costs.

Currently, the website features four local videos shot and edited by Foster Visuals of Wallaceburg.

Club member Roger McRae and his wife, Gloria are featured in one of the videos for the renovation work they have recently carried out at their home, which included the purchase of more efficient appliances, and a dual-flush toilet. At one corner of the home, they connected a downspout to a rain barrel, which they use for watering, and they connected another downspout to a French drain, which not only keeps water away from the foundation, but directs it to the yard, where

it is needed. They also buy environmentally friendly products whenever possible.

Villa Angela, home to Chatham's Ursuline Sisters, is also the subject of a video. Designed in 2003 by architect Terra Kitzul Arens of Chatham, who is also a Rotary Sunrise member, Villa Angela was the first LEED (Leadership in Energy and Environmental Design)-certified building with a religious affiliation built in Ontario.

Kitzul Arens said in the video, "I've never worked on a project where there was so much passion and what the building meant to them, to the community. There was a lot of conversation in the early days about how to go about using less water, less energy."

Sister Anne Denomy, a retired teacher, said, "We have no furnace, we have no air conditioning. We take the heat or the cool from the ground."

Fellow retired teacher Sister Eleanor Gleeson added, "This is the only planet that we have to live on and therefore we need to do our part to conserve it."

Among the highlights of Villa Angela is a rainwater collection system that stores the water in cisterns. The

rainwater is used to flush toilets and for other non-drinking purposes, such as watering the grounds.

At the Truly Green greenhouse tomato operation on Bloomfield Road, director of operations Hilco Tamminga and director of business administration Greg Devries explain in their video how Truly Green collects conserves water. The nine hectare (22.5 acre) facility uses up to 11 litres of water per sq. metre, making wise usage of water a must.

"We have no waste and a very high efficiency of water usage," said Devries.

"We will irrigate to the point that there's runoff and we will collect that runoff and we incorporate that water we collected into our new irrigation water that goes back into the greenhouse," said Tamminga.

They also collect rainwater from the roof to store in ponds for use as irrigation.

The fourth video features club member Blake Vince, a fifth-generation farmer in Merlin, whose family farm has been practising the no till soil conservation method since 1983.

Cover crops are also extensively used, which not only preserves the soil and makes runoff from the farm cleaner, but adds to the

health of the soil as well, leading to improved yields.

"We're using a multi-species cover crop to protect soil, which increases water infiltration and water holding capacity. The soil, then, acts as a natural sponge or a filter to prevent soil from running off and running into the Great Lakes," said Vince.

He added, "I want to make sure my soil is productive not only for myself today, but for future generations."

The Clean Water for Living project is just the latest effort of Sunrise Rotary to help promote a cleaner and more beautiful environment in Chatham and the surrounding area. Other projects include the Sunrise Rotary Trail on Grand Avenue, which involved the cleaning of the riverbank and the planting of pear trees and daffodils. The club planted a Carolinian grove along the river across the road from Thames Campus of St. Clair College in what is now called Howell Park, and has also planted 28,000 daffodil bulbs at locations around the community.

Internationally, Rotary approved more than 300 water and sanitation projects around the world in 2014-2015 with grants totalling \$20.5 million.

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## Lambton Shores and Ipperwash residents continue to monitor beach area

**Lakeshore Advance**  
**Wed Nov 25 2015**

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**Byline:** Lynda Hillman-Rapley  
**Source:** Lakeshore Advance

Lakeshore Advance An update regarding actions at Ipperwash Beach came to Lambton Shores council this week.

CAO Kevin Williams asked that they continue to be advised of any known issues or activities that affect this beach area.

In May 2015, Council received a report that outlined the actions taken and decisions made since the original guardrail barriers were removed in December 2014, and concerns were raised for issues related to driving motorized vehicles on the beach.

“As has been discovered, there is significant legal uncertainty related to land ownership and rights of use along the beach front. There are numerous “owners” involved. There is an expectation of the private property owners that “someone” will do something to clarify the legal situation. If parties cannot come to their own understanding, this may ultimately require involvement of the courts. The Municipality of Lambton Shores only has direct authority over the three road allowances leading to

the water, and has no other property holdings along the beach,” said Williams in his report to council,” said Williams in the report.

He reported that early in the process of meeting last year, the Ministry of Natural Resources and Forestry (MNRF) advised stakeholders that despite the fact that both the province and the Centre Ipperwash Property Owners have deeds indicating ownership “to the water’s edge”, “there is a “Crown Reservation” across the beach portion of each property. The original Canada Company patent established this reservation to ensure beach access remained open to all members of the public.”

“The Municipality cannot interpret First Nation rights, nor speak to the nature of individual property deeds, nor the Province’s assertion that a public “right of use” exists along the shoreline. The First Nation is exploring its traditional rights, and the Province of Ontario is the entity that all parties are looking to for clarification. The Province, through the MNRF is the steward over a large number of land parcels along this piece of shoreline.”

“Dialogue between the political and administrative leadership of Lambton Shores and the First Nation is ongoing. There is a recognized need for a greater understanding of each other’s concerns including the need to find opportunities to share information with members of both communities. The West Ipperwash Property Owners Association does meet with representatives of the First Nation, and there is no reason that the Center Ipperwash Community Association could not attempt to establish a similar rapport. At meetings where attendance is limited to specific invitees, it remains the position of staff to ensure that the opinions of both the elected and the electorate are considered in any representation.”



Williams said from the municipality's perspective, none of the issues in the area have affected the public use of the three municipally owned road allowances. The Provincial Government, through the Ministry of Aboriginal Affairs (MAA), took a lead in drawing the affected stakeholders together. Numerous meetings were

held through the winter of 2015 with participation from the MNRF and MAA, The Chippewa's of Kettle and Stony Point First Nation, St. Clair Regional Conservation Authority, West Ipperwash Property Owners Association, Centre Ipperwash Community Association, and the Municipality of Lambton Shores.

In early April, and recognizing that longer term plans need to be developed, these forums led to an interim agreement. All parties agreed to support a position of no unauthorized motorized vehicles driving on the beach between West Ipperwash Road and Army Camp Road. The First Nation also decided to implement this same restriction on the beachfront of the former Ipperwash Provincial Park.

The working group agreed upon a shared control sign to indicate restricted motorized vehicle uses on Centre Ipperwash Beach and agreed to the installation of a "bollard style" fence to mark the edge of the road allowances and provide a physical restriction to motorized vehicles. A larger gap between posts has been established to provide access for emergency vehicles. None of these actions has an impact on the public's use of the West Ipperwash, Ipperwash or Army Camp Road allowances for waterfront access. As far as the municipality is aware, the OPP responded to policing needs on the beach in the same manner as past years.

"In effect, all beach uses in 2015 were unchanged from 2014," said Williams.

At its meeting of August 11, 2015 Council received a delegation and correspondence from Wendy Soubel representing a local advocacy group called "Save Ipperwash Beach"! This correspondence is provided as Attachment 1 to this report. Council agreed to a report at this week's meeting to address this resolution. The correspondence from "Save Ipperwash Beach" identified a number of issues to be addressed.

"Keeping motorized vehicles off Centre Ipperwash Beach permanently. The posts and ropes installed in May 2015 were in keeping with an agreement reached through the Ministry led meetings. These posts were installed on the east side of West Ipperwash Road and both sides of Ipperwash and Army Camp. High water table, and ongoing wave action did loosen some of the posts that were installed. It is likely that persistent high water, winter storms and ice will cause further damage through the winter. The municipality invested over 75 hours of labour, equipment, and \$1,300 in material cost for this initiative.

"There were isolated incidents of the rope being cut or removed from the emergency vehicle access points. Any design changes for 2016 should look to address both the aesthetic and structural nature of these control points.

The idea of passing a bylaw to control vehicle use (on private property) has been considered. The value of such a bylaw is questionable given the issues of private ownership and the Crown Reservation establishing a public right of use. If the beach was municipally owned, it could pass a bylaw restricting certain activities. If the beach was owned by the Crown, then the Crown could delegate or enforce its own restrictions through the Public Lands Act. The Zoning bylaw is the primary method of controlling both required and prohibited parking on privately owned lands, but zoning regulations cannot be effectively enforced when contraventions result from use by the general public. The result of any bylaw contravention could be a charge to the property owner. Since there seems to be no clarity regarding the right of waterfront property owners to control the use of the portion of the shoreline which is subject to the Crown Reservation, two other enforcement options have been considered," he suggested explaining municipalities have the power to define and prohibit "public nuisances", under section 128 of the Municipal Act, And municipalities do have the power to prohibit unauthorized

parking on private property, under section 100.1 of the Municipal Act. To summarize, Williams said, "There are potential mechanisms that could be further explored by legal experts for prohibitions on "beach parking", but each of these is undermined by legal uncertainty related to property ownership, inconsistent approaches to land use by individual owners, and public rights of use. For that reason, the "prohibition" approach is not recommended."

The correspondence suggests that Lambton Shores should purchase and post signs speaking to dune protection. "This is a laudable initiative and, given that the dunes are on private property, could be undertaken by either the Save Ipperwash Beach or Centre Ipperwash Beach Associations. Regulatory control for protection of the shoreline ecosystem is under the mandate of the St. Clair Regional Conservation Authority and they may well be open to involvement in such an initiative.

"The idea of installing sanitary sewers is presented as an idea. Lambton Shores has not contemplated the extension of sanitary sewers into this area, but control of septage through either voluntary or future mandatory septic system inspections could be a consideration.

**Length:** 1258 words