



## **Board of Directors *Notice of Meeting***

**April 19<sup>th</sup> - 10:00 a.m., Administrative Office**

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### **Tentative Agenda**

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1. Chair's Remarks
2. Declaration of Pecuniary Interests
3. Election of Vice Chair
4. Nominating Committee Report
5. Minutes
  - 5.1 Feb 22, 2018 Minutes
6. General Manager's Report
  - 6.1 GM Report
  - 6.2 South West Woodlot Association Advisor Appointment
  - 6.3 Black Creek Cemetery Request for Donation of Land
  - 6.4 Annual Meeting Schedule
7. Chair & Conservation Ontario Report
  - 7.1 Update from April 16, 2018 meeting
8. Business Arising
9. Conservation Area Reports
  - 9.1 Conservation Areas Update
  - 9.2 Lambton Children's Safety Village Update
10. Water Resources Reports
  - 10.1 Current Watershed Conditions
  - 10.2 2017-18 WECI Projects
11. Biology Reports
  - 11.1 Healthy Watersheds
  - 11.2 Summarized Municipal Drain Review activities
  - 11.3 Water Quality and Monitoring – Watershed Report Cards
  - 11.4 Biology Department Grant/Funding Update for 2018/19
  - 11.5 Sydenham River Mussel Research
12. Conservation Services Report
  - 12.1 Conservation Services Report
  - 12.2 Larvicide Report
  - 12.3 Private Lands Tree Planting Agreements
13. Planning Department Reports
  - 13.1 Regulations Summary Report
  - 13.2 Monthly Planning Activity Summary Report
  - 13.3 DART Activity Report
  - 13.4 Lake Huron Shoreline Management Plan update
  - 13.5 Bill 139 Changes - Local Planning Appeal Tribunal (former OMB)
14. Finance Reports
  - 14.1 Revenue & Expenditure Report

- 14.2 Cheque Listings
- 14.3 2018 General Levy update
- 14.4 Investment Statements
- 14.5 Joint Health & Safety Committee Meeting minutes
- 15. Communications Reports
  - 15.1 St. Clair River Area of Concern
  - 15.2 Bus Tour
  - 15.3 Special Events 2018 – Updated Copy
  - 15.4 Conservation Education
- 16. New Business
- 17. Adjournment

Please contact Ashley (call 519-245-3710, 1-866-505-3710 or e-mail [Afletcher@scrca.on.ca](mailto:Afletcher@scrca.on.ca)) at the Administration Office by April 13<sup>th</sup>, if you are unable to attend.

April 19, 2018

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.

Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
3.1 That the Board of Directors acknowledge the report dated March 29, 2018, and further that the Board of Directors proceed with the election of the Vice Chair for 2018 as outlined in Robert's Rules For Conducting Elections and further that these election procedures be incorporated into the update of the Authority's bylaws to be completed in 2018.

Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
3.2 That \_\_\_\_\_ and \_\_\_\_\_ be appointed as scrutineers for the election of Vice Chair of the St. Clair Region Conservation Authority Board of Directors for 2018.

Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
3.3 That the ballots be destroyed.

Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
4.1 That the St. Clair Region Conservation Authority adopts the 2018 Nominating Committee's Report.

Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
5.1 That the minutes of the Board of Directors meeting, held February 22, 2018, be approved as distributed.

Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
6.1 That the Board of Directors acknowledges the General Manager's report, dated April 9, 2018.

Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
6.2 That the Board of Directors acknowledges the correspondence from the Southwest Woodlot Owners Association dated March 29, 2018, and further that Tim Payne be appointed to continue as Technical Advisors to the Association.

Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_  
6.3 That the Board of Directors acknowledges the report, dated April 6, 2018, regarding the request from Black Creek Cemetery for a donation of land and further that the one half acre of land be transfer to the Cemetery at their

cost.

- 6.4 Moved by: Seconded by:  
That the Board of Directors approves the additions to the schedule of meeting locations for the Conservation Authority's Annual General Meeting and adopts the list as a preferred rotation for subsequent years.
- 7.1 Moved by: Seconded by:  
That the Board of Directors acknowledges the verbal report of Conservation Ontario's Annual General meeting held April 16, 2018 at Black Creek Pioneer Village in Toronto as well as Queen's Park Day April 17, 2018.
8. Moved by: Seconded by:  
That the Board of Directors acknowledges the updates on business arising from the February 22, 2018 meeting.
- 9.1 Moved by: Seconded by:  
That the Board of Directors acknowledges the Conservation Lands Update dated April 7, 2018, outlining development and management activities on Conservation Areas, McKeough, Lambton County and Foundation Lands.
- 9.2 Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated, April 6, 2018, regarding proposed Lambton Children's Safety Village and further  
Option A:  
directs staff to advise the Lambton Children's Safety Village Committee of the issues regarding the proposed development at LC Henderson Conservation Area and negotiate a revised plan that alleviates impacts on the Authority programs for review and approval of the Board of Directors.  
Or  
Option B:  
advises the Lambton Children's Safety Village Committee that the proposed development will impact the existing programs at LC Henderson CA and therefore that Safety Village cannot be located at this location.
- 10.1 Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated April 5, 2018 on the current watershed conditions and Great Lakes water levels.
- 10.2 Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated April 6, 2018 on Water and Erosion Control Infrastructure Projects and approves the projects submitted for funding in 2018-2019 and further will assist staff in

obtaining matching funds, where required, to support these projects upon confirmation of funding approval.

- 11.1 Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated April 6, 2018 on the Healthy Watersheds Program.
- 11.2 Moved by: Seconded by:  
That the Board of Directors acknowledges and concurs with the report dated March 27, 2018 summarizing 2017 Municipal Drain Review activities including action on the proposed new Zsoldos municipal drain.
- 11.3 Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated April 4, 2018 on Watershed Report Cards and reporting on the health of St. Clair Conservation watersheds.
- 11.4 Moved by: Seconded by:  
That the Board of Directors acknowledges this report dated April 4, 2018 on the biology department's grant/funding update for 2018/19.
- 11.5 Moved by: Seconded by:  
That the Board of Directors acknowledges this report dated April 4, 2018 on mussel research and monitoring taking place throughout the Sydenham River watershed by SCRCA biology staff and other organizations.
- 12.1 Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated April 5, 2018 regarding Conservation Services projects and programs.
- 12.2 Moved by: Seconded by:  
The Board of Directors acknowledges the report dated April 6, 2018 on the application of Larvacide to catch basins in Lambton County for the control of West Nile Virus in 2018.
- 12.3 Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated April 6, 2018 regarding Private Lands tree planting projects and Municipal Drain Maintenance Projects and further that the Tree Planting Agreement between the landowners and the Authority include confirmation of landowner awareness of conditions in planting along or adjacent municipal drains and that the planting project has been reported to the municipal drainage superintendent.

- 13.1 Moved by: Seconded by:  
That the Board of Directors acknowledges and concurs with the Regulations Activity Summary Report dated April 4, 2018 on "Development, Interference with Wetlands & Alterations to Shorelines & Watercourses" Regulations (Ontario Regulation 171/06) from February to March 31, 2018.
- 13.2 Moved by: Seconded by:  
That the Board of Directors acknowledges the St. Clair Region Conservation Authority's monthly Planning Activity Summary Report for January 1, 2018 – March 31, 2018.
- 13.3 Moved by: Seconded by:  
That the Board of Directors acknowledges and concurs with the October, 2017 – March, 2018 municipal drain activity report associated with the Drainage Act and Conservation Authorities Act Protocol (DART).
- 13.4 Moved by: Seconded by:  
That the Board of Directors approves the update on Lake Huron Shoreline Management Plan Reaches 5 and 36/37 Dynamic Beach studies, which reduces the default dynamic beach limit based on sound coastal engineering modelling and principles and that updates be made to the Lake Huron Shoreline Management Plan as circulated as well as any other guidance documents for consistency purposes.
- 13.5 Moved by: Seconded by:  
That the Board of Directors acknowledges the report, dated March 12, 2018, regarding the Bill 139 changes related to the Local Planning Appeal Tribunal.
- 14.1 Moved by: Seconded by:  
That the Board of Directors acknowledges the revenue and expenditure report to February 28, 2018, as it relates to the budget.
- 14.2 Moved by: Seconded by:  
That the Board of Directors approves the January, February and March 2018 disbursements as presented in the amount of \$959,377.55.
- 14.3 Moved by: Seconded by:  
That the Board of Directors acknowledges the status report on the 2018 general levy receipts to date.
- 14.4 Moved by: Seconded by:  
That the Board of Directors acknowledges the January, February and March 2018 Investment report.

- 14.5 Moved by: Seconded by:  
That the Board of Directors acknowledges the November 29, 2017 Joint Health & Safety Committee meeting minutes.
- 15.1 Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated March 22, 2018 on the St. Clair River Area of Concern.
- 15.2 Moved by: Seconded by:  
That the Board of Directors acknowledges the report dated April 3, 2018 on the proposed project tour scheduled for June 22, 2018.
- 15.3 Moved by: Seconded by:  
That the Board of Directors acknowledges the updated schedule of Special Events outlined in the attached flyer.
- 15.4 Moved by: Seconded by:  
That the Board of Directors acknowledges the Conservation Education Report, dated April 4, 2018 including the winter programing, program development and expansion, Community Partnerships, and Special Events.
17. Moved by: Seconded by:  
That the meeting be adjourned.

**Meeting Date:** April 19, 2018  
**Report Date:** March 29, 2018  
**Submitted by:** Brian McDougall

**Item 3.1**

**Subject:** Election Procedure

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## **Recommendation:**

That the Board of Directors acknowledge the report dated March 29, 2018, and further that the Board of Directors proceed with the election of the Vice Chair for 2018 as outlined in Robert's Rules For Conducting Elections and further that these election procedures be incorporated into the update of the Authority's bylaws to be completed in 2018.

## **Background:**

- ❖ At our Annual General meeting in February, the election of our Vice Chair for 2018 was conducted by a Board appointed Chair, via secret ballot, and was observed and tabulated by Board appointed scrutineers – all aspects of which follows accepted election procedures
  - ❖ The first vote for Vice Chair resulted in a tie vote
  - ❖ The second vote for Vice Chair also resulted in a tie vote
  - ❖ Unfortunately, I was not able to confirm any procedures outlined in the Authority Bylaws for such a situation
  - ❖ Without assurance that all procedures were being adhered to, the election was deferred to the April Board meeting in order to clarify procedures for an election in the event of a tie
- 
- ❖ A review of the Authority's Bylaws found no reference to tie votes or procedures to proceed beyond a tie vote
  - ❖ A review of the Conservation Authorities Act provided only the following highlights of interest
    - At the first meeting held in each year or at such other meeting as may be specified by the authority's by-laws, the authority shall appoint a chair and one or more vice-chairs from among the members of the authority
    - Each member of an authority is entitled to one vote
  - ❖ Historically, failing to have specific procedures to follow, the Authority Board has turned to Robert's Rules of Order for procedural direction



- ❖ The following is taken from ROBERT'S RULES FOR CONDUCTING ELECTIONS - April 18, 2016 - C. Alan Jennings, PRP, PRP
  - Elections are decided by majority vote unless your bylaws provide differently
  - In the case of a ballot election, an election isn't complete until the position is filled, and a position is not considered filled until a candidate receives the threshold number of votes required for election
  - In most cases, the threshold is a majority of the votes cast
  - If you have only two candidates and the vote is a tie, you repeat the balloting until one candidate receives a majority
  - Should there be a tie vote between two candidates, new ballots will be distributed and a second vote held
  - Should there still be a tie after the second ballot a third vote shall be held
  - Should there be a tie after the third vote, the election of the office shall be decided by lot drawn by the Chief Administrative Officer or designate
  
- ❖ With the changes to the Conservation Authorities Act, one of the requirements of each Authority is to update the Authority Bylaws, approve and implement these updated bylaws within one year (December 17, 2018)

February 22, 2018

The 2017 Annual General Meeting of the St. Clair Region Conservation Authority was held on the above date, at the Royal Canadian Legion Branch 216 in Petrolia, at the hour of 10:00 a.m.

Directors Present: Steve Arnold, Chair; Andy Bruziewicz, Vice Chair; Alan Broad, Tony Bruinink, Joe Faas, Norm Giffen, Larry Gordon, Betty Ann MacKinnon, Kevin Marriott, John McCharles, Dan McMillan, Steve Miller, Frank Nemcek, Gerry Rupke, Cindy Scholten, Jeff Wesley, Jerry Westgate, Muriel Wright

Regrets: Diane Brewer, Mike Kelch, Don McCallum

Staff Present: Brian McDougall, General Manager; Eva Baker, Records Management Clerk; Kevan Baker, Director of Lands; Terry Barrie, Lorne C. Henderson Superintendent; Erin Carroll, Manager of Biology; Steve Clark, Water Resources Specialist; Emily De Cloet, Water Resources Technician; Marlene Dorrestyn, Administrative Assistant; Nicole Drumm, Communication Technician; Chris Durand, IT/GIS Coordinator; Ashley Fletcher, Administrative Assistant/ Board Coordinator; Melissa Gill, Conservation Education/ Community Partnership Technician; Patty Hayman, Director of Planning; Sharon Nethercott, Conservation Education Coordinator; Tim Payne, Forest Management Specialist; Tracy Prince, Director of Finance; Girish Sankar, Manager of Water Resources; Steve Shaw, Manager of Conservation Services

Foundation Directors Present: Bill Bilton, Lyn Goddard

Special Guests Present: Jeff Baranek, Township of St. Clair; Mary Ann Buntrock and Colleen Collins, Lambton Children's Safety Village; Dave Depuydt, Ministry of Natural Resources; Dean Edwardson, Sarnia-Lambton Environmental Association; Dave Ferguson; Judy Krall, Enniskillen Township; Jake Lozon, Rural Lambton Stewardship Network; Anne McGugan; Don McGugan, Mayor, Municipality of Brooke-Alvinston; John Rodey, St. Clair Township; Bill Weber, Warden, Lambton County; Ken Williams, MPW Chartered Professional Accountants LLP; Bob Woolvett, Town of Plympton-Wyoming

Media Present: Melissa Schliz, Petrolia Topic | Sarnia & Lambton County This Week

Conservation Award Winners Present: Mike Belan on behalf of Belan Farms

The meeting was called to order by the Chair, Steve Arnold, who on behalf of the directors and staff of the Conservation Authority welcomed everyone to the 2017 annual meeting. Some of the Authority's many projects accomplished this year include:

- Secured \$816,000 in funding from the province's Water and Erosion Control Infrastructure program to complete nine erosion control projects

- Planted over 74,000 trees on both private and public lands in the watershed, and supplied another 7,000 trees to landowners
- Established a Tree Seed Collector Mentorship Program to support the sustainability of local forestry
- Worked with landowners to complete 27 stewardship projects to improve rural water quality and soil health; in total, the projects were valued at over \$320,000
- Performed aquatic Species at Risk research including a study of freshwater mussel populations on the North Branch of the Sydenham River; biologists covered 14km of river adding over 8,000 new data points
- Participated in the development of the province's Domestic Action Plan aimed to reduce phosphorus levels and combat algal blooms in Lake Erie
- Engaged almost 12,000 local students through conservation education classes that foster environmental awareness and an appreciation for the natural treasures of the region

Many of our projects and programs would not be as successful as they are without the many partnerships we have forged with other organizations and communities over the years. They would also not be possible without the dedication of staff to search for outside sources of funding. In fact, in 2017, the Conservation Authority was successful in receiving over \$2 million in grants to support our important work! Looking forward, we will continue to be innovative and focused on the needs of our watershed and member municipalities. With the passing of the updated Conservation Authorities Act in late 2017, we can expect to see some changes. The modernized Act more clearly defines the watershed management role, governance and funding mechanisms for all 36 of Ontario's Conservation Authorities. In the upcoming year we will be learning more about how this legislation will affect our operations. In closing, he acknowledged and thanked our Board of Directors and staff for their continued commitment and dedication over the past year to improve and protect our local communities and environment.

Warden Bill Weber brought greetings on behalf of Lambton County.  
Mayor John McCharles brought greetings on behalf of the Town of Petrolia.

**BD-18-001**

**Rupke - Broad**

**“That the agenda for the Annual General Meeting be adopted.”**

**CARRIED**

The Chair 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.

**BD-18-002**

**Gordon - Bruinink**

**“That the minutes of the Board of Directors meeting held December 14, 2017, be approved as distributed.”**

**CARRIED**

**BD-18-003**

**Rupke - Wright**

**“That the minutes of the Executive Committee meeting held February 12, 2018, be approved as distributed.”**

**CARRIED**

A presentation regarding the Flood Event from February 19 – 26, 2018 and Innovating Flood Forecasting in the St. Clair Region was given by Steve Clark, Water Resources Specialist, and Emily De Cloet, Water Resources Technician.

**BD-18-004**

**Giffen - Faas**

**“That the Board of Directors acknowledges the presentation regarding Innovations to Flood Forecasting in the St. Clair Region given by Steve Clark, Water Resources Specialist, and Emily De Cloet, Water Resources Technician.”**

**CARRIED**

**BD-18-005**

**Bruziewicz - MacKinnon**

**“That the St. Clair Region Conservation Authority accepts the recommendation of the Executive Committee and report from the Authority’s auditors, MPW Chartered Professional Accountants LLP, and further approves the 2017 Audited Financial Statements.”**

**CARRIED**

## **Conservation Award Presentations**

### **Wesley Stokes**

Wesley is a local high school student who is passionate about the outdoors and local conservation efforts. He first volunteered with the Authority at the annual Great Canadian Shoreline Cleanup at Ipperwash Beach. Shoreline litter is a serious environmental concern that impacts wildlife, water quality, and can pose a serious health and safety hazard. This cleanup saw nearly 50 pounds of garbage removed from Ipperwash Beach. After the Cleanup, Wesley was eager to find out other ways he could help and signed up to volunteer for both the Strathroy and Sarnia TD Tree Days. Along with other volunteers, Wesley helped with the planting of 150 native trees at each event. These 300 new trees will increase green space and habitat in these communities. It is

exciting to see this kind of passion for the environment in a young person and we want to thank Wesley for his enthusiasm and contributions.

### **Belan Farms**

Big Mike, Small Mike, Wee Mike, and Tony Belan operate their family farm in the township of Dawn-Euphemia. Their twelve-hundred-acre farm has been operating for 65 years, and they adopted no-till practices over 25 years ago. The Belans are focused on growth, efficiency of inputs, and sustainability with the goal of improved soil health while maintaining consistent yields. They have embraced a variety of best management practices including: planting cover crops, rotational grazing, inter-seeding into standing corn, and planting green in the spring. They regularly test their soils and, based on the response they get from the field, they modify their practices and equipment.

The Belans are also interested in sharing their experiences with other farmers – they have hosted many farm tours and delivered countless presentations. Wee Mike is a member of the Ontario Soil Network and has been a speaker at several Authority landowner stewardship events, including the Soil Health Conference held last week in Chatham. At these events, Mike showed off modifications he made to his equipment and talked about his approach to farming.

Through their innovative work, the Belans have been featured in publications including Ontario Farmer, Better Farming, Country Guide, and No-Till Farmer. In 2016, the Belan farm was visited by the Environmental Commissioner of Ontario – which resulted in their experiences being highlighted in the provincial report, “Putting Soil Health First: A Climate-Smart Idea for Ontario.” Belan Farms was also the recipient of the 2017 Lambton Soil and Crop Improvement Association’s Outstanding Farmer of the Year Award for their exemplary farming practices.

This family has shown passion and dedication for environmental stewardship and are great advocates of best management practices.

### **BD-18-006**

#### **Marriott - Nemcek**

**“That the Board of Directors congratulates the 2017 Conservation Award Winners and thanks them for their contributions to conservation.”**

**CARRIED**

2017 service awards were presented:

- 5 years of service: Mike Kelch, Tracy Prince, Kelli Smith
- 10 years of service: John McCharles
- 15 years of service: Glenn Baxter, Tim Payne, Don Skinner
- 20 years of service: Terry Barrie, Norm Giffen

- 30 years of service: Sharon Nethercott

**BD-18-007**

**Gordon - Scholten**

**“That the Board of Directors acknowledges the service awards presented to the directors and staff and further that they be thanked for their years of dedicated service.”**

**CARRIED**

The meeting continued when Chair, Steve Arnold advised that the meeting would be moving onto 2018 business.

**BD-18-008**

**Wesley - Miller**

**“That Bill Bilton be appointed chair for the election of the 2018 Chair and Vice Chair.”**

**CARRIED**

**BD-18-009**

**Broad - Wesley**

**“That Dean Edwardson and Ken Williams be appointed scrutineers in the event of an election.”**

**CARRIED**

The positions of Chair and Vice Chair were declared vacant and nominations were called for the office of Chairman for 2018.

Andy Bruziewicz nominated Steve Arnold for position of Chair.

**BD-18-010**

**Broad - Gordon**

**“That nominations for the position of Chair be closed.”**

**CARRIED**

Steve Arnold advised that he would stand and was declared Chair of the St. Clair Region Conservation Authority for 2018.

Larry Gordon nominated Andy Bruziewicz for Vice Chair.

Tony Bruinink nominated Norm Giffen for Vice Chair.

**BD-18-011**

**Scholten - Wright**

**“That nominations for the position of Vice Chair be closed.”**

**CARRIED**

Andy Bruziewicz advised that he would stand.

Norm Giffen advised that he would stand.

A ballot vote resulted in a tie. A second ballot vote also resulted in a tie. It was requested that the Authority by-laws be reviewed to ensure that procedures for elections ending in a tie vote would be reviewed and reported back to the Board.

**BD-18-012**

**Rupke - Bruinink**

**“That the election of Vice Chair and Nominating Committee Report be deferred to the April 19, 2018 Board of Director’s meeting”**

**CARRIED**

**BD-18-013**

**Miller - Scholten**

**“That the ballots be destroyed”**

**CARRIED**

The 2018 borrowing bylaw was considered.

**BD-18-014**

**Bruinink - Nemcek**

**“That the Authority Chair or the Vice Chair and the General Manager/Secretary-Treasurer or Director of Finance be authorized to borrow from the Libro Credit Union, Strathroy for the general operations and capital program of the Authority, a sum not to exceed \$1,173,855 to be repaid from grants received from the Province of Ontario, Government of Canada, levies assessed the member municipalities and general revenue.”**

**CARRIED**

Appointment of an Auditor for 2018 was considered.

**BD-18-015**

**Scholten - MacKinnon**

**“That MPW Chartered Professional Accountants LLP, be appointed auditors for the St. Clair Region Conservation Authority for 2018.”**

**CARRIED**

The 2018 appointments to Conservation Ontario were considered.

**BD-17-016**

**Marriott - Westgate**

**“That the Authority's 2018 representative to Conservation Ontario will be the Authority Chair, the Vice Chair will be the first alternate and the General Manager be the second alternate.”**

**CARRIED**

The General Manager's Report was presented:

**Building Better Communities and Conserving Watersheds Act Receives Royal Assent**

- The above legislation includes changes to the Conservation Authorities Act
- Some changes are effective immediately, timelines are provided for implementation of other changes and still further changes are expected through subsequent regulations
- Changes effective immediately include:
  - Section 2 – definition of operating expenses
  - Section 20 – public access to agreements
  - Section 21 – Fee establishment, collection and review
  - Section 23 & 24 – Levy apportionment and payment
  - Section 25 & 26 – Regulations and permitting
  - Section 27 – Authority lands
  - Section 29 – Enforcement and offences
  - Section 33 – Governance and Minister's Regulations
  - Additional information available upon request
- Authority bylaws are to be updated by December 2018 – Conservation Ontario is working with MNRF to provide a template for all Authorities that should be available by March

**New Minister of Natural Resources and Forestry**

- On January 17, Nathalie Des Rosiers, was named Minister of Natural Resources and Forestry
- She formerly held the position of Parliamentary Assistant with the Ministries of Energy and Intergovernmental Affairs
- Conservation Ontario is seeking an introductory meeting with the new Minister in the near future

**Lambton Children's Safety Village (LCSV)**



- Hydro One has provided a verbal estimate for the draft development plan for the LCSV at LC Henderson CA – changes to the existing servicing will be able to provide the necessary hydro based on the draft plan – however, updates to existing transformers, lines of service, etc. have been estimated at a minimum of \$50,000.00 – these costs are in advance of any construction costs
- MIG Consulting Engineers will be providing an assessment of the septic facilities, the capabilities to accommodate the proposed increase services and use, as well as a cost estimate for any changes, additions, etc. that would be required to support the proposed development
- Updates to the draft development plan have raised additional concerns with staff regarding the impacts on the existing education programs and the campground

A report will be provided to the April Board meeting providing further details on the servicing costs and impact concerns

#### **BD-18-017**

#### **Bruinink - Wesley**

**“That the Board of Directors acknowledges the General Manager’s report dated February 7, 2018.”**

**CARRIED**

#### **Watershed Stream Flow**

- Current flow numbers have stabilized following a warmer period during the week of January 23<sup>rd</sup> when several days of above zero temperatures melted much of the snowpack combined with 20 - 30mm rainfall
- River ice that was firmly in place since the colder period in December and early January, had melted as of this report. Cooler seasonal conditions into February may result in moving ice becoming frozen in place in many areas of the watershed
- January levels as compared to monthly expected averages at all gauges. Normal March average levels by comparison, are close to our existing levels.
- A comparison of flow at Wallaceburg of 2016 to 2017 indicates that flows were generally lower in 2017 likely due to lower temperatures and most precipitation falling as snow and not entering the watercourses immediately.
- Regional precipitation numbers for the last quarter are at or above average for most stations with the exception of Sarnia (**66.7%**). Extensive lake effect snowfall was evident in the upper reaches of the watershed notably in December and January for Strathroy resulting in an overall average of **103%** for the region. Six month precipitation was a little below that at **90.3%** however the full years regional average is on target at **99.7%**

## **St. Clair River/Lake Huron Ice Conditions**

- Extensive ice formation due to low December temperatures on the lower parts of Lake Huron as well as the formation of ice in the St. Clair River has resulted in significant formation of ice jamming south of Courtright this year. Damage to the Sombra ferry docks and many other private docks along the river has been extensive. With a milder trend at the end of January we have now observed movement of the ice pack further south toward with open water in much of the river north of Walpole Island
- Levels are currently being monitored and advisories will be include in SCRCA Flood Bulletins based on Fisheries and Oceans hydrology data located at Point Edward and Port Lambton. Additional equipment will also be deployed to provide increased monitoring capabilities in this region.
- While Lake Huron ice conditions moderated with the shift to warmer temperatures in mid-January opening previously frozen areas at the southern portion of the lake, colder temperatures into February forecasts indicate re-freezing some areas of open water in the lake.
- An annual comparison of lake temperatures and ice formation identifies 2018 as being a colder (4.7C) than 2017 (5.9C) and 2016 (6.4C). Open lake conditions may contribute to additional lake effect snow.

## **Snow Conditions**

- As noted 2017 had extensive snow in December but very little in the remaining year
- In contrast 2018 received significant accumulations until mid-January when a thaw reduced snowpack to zero in most of the watershed. This situation may change into February.

## **Flood Threat**

Changeable weather patterns into February and March will potentially contribute to an uneven ice breakup. Ice jamming can cause unpredictable areas of high-level conditions both throughout the watershed and on the St. Clair River. Milder conditions in conjunction with precipitation events may create flooding in flood prone areas into the spring 2017. We will continue to monitor conditions and issue bulletins as needed.

## **Current Weather**

- It was evident that the end of 2017 and into the first part of 2018 was generally colder than normal being significantly below the monthly means for the period. Temperatures moderated into the end of January and into February.
- Anticipated temperatures and precipitation suggest a slightly below average February and a mild and wet March
- The effect of El Nino on continental weather systems has been evident this winter season with colder temperatures

- While these factors may dominate during a given period, any combination of three influencing factors may contribute to our weather systems as illustrated below.

**Great Lakes Levels (Canadian Hydrometric, data – December 2017)**

The monthly comparison for December 2017 (current available data) indicates that Lake Huron levels higher again (**24cm**) compared to December 2016 suggesting a continued higher trend in local lake levels. Numbers also continue to increase above the 10-year average for Lake Huron by **70cm**. Lake St. Clair levels are higher than last year (**24cm**) **49cm** above the 10 year average. Both Lake Huron and Lake St. Clair current values (December) continue to remain above the average for the entire period of record by **46cm** and **45cm** respectively.

**BD-18-018**

**McMillan - Wright**

**“That the Board of Directors acknowledges the report dated February 1, 2018 regarding current watershed conditions and Great Lakes water levels.”**

**CARRIED**

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

<b>Structure</b>	<b>Project Name</b>	<b>Description of Work</b>
Courtright Park	Courtright Park Shoreline restoration	Shoreline work at Courtright Park is ongoing.
Sarnia Shoreline Protection	Shoreline Repair (Helen and Kenwick St) Phase 1	Construction work is progressing well at Brights Grove
Eslie Dodge Dam	Eslie Dodge Repair Project	Ongoing
L.C.Henderson Weir #1	L.C.H. Outfall Repair Project	Completed
W. Darcy McKeough Dam	Drop Structure Downstream Erosion Control	Close to Completion
W. Darcy McKeough Dam	Vegetation Management Plan	Completed
W. Darcy McKeough Dam	Watercourse Obstruction Removal	Completed
W. Darcy McKeough Dam	McKeough Sill Repair	Completed
W. Darcy McKeough Dam	Wing wall repair	Completed

### **Courtright Waterfront Restoration – Phase 1**

- Contract awarded to BRE-Ex Construction
- A budget of \$720,000 has been confirmed for the project (WECI \$350,000; St. Clair Township - \$350,000, Great Lakes Community Guardian fund \$20,000)
- Construction work started last week of January 2018
- 50 working days have been provided for completion of the project under the contract (a working day is any day during which the conditions permit the contractor to be able to undertake work to greater than 60 percent of capacity).
- Approximately 130 meters of Shoreline work will be completed in this phase
- Construction work will be completed April 2018 with restoration work planned for May 2018.
- This is the first phase of construction at Courtright Park.

### **Sarnia Shoreline Protection – Phase 1**

- Contract awarded to Atlantis Marine Construction Canada Inc
- A budget of \$700,000 has been confirmed for the project (WECI \$350,000; City of Sarnia- \$350,000)
- Construction work started last week of January 201
- 30 working days have been provided for completion of the project under the contract
- Construction work will be completed April 2018 with restoration work planned for May 2018.
- This is the first phase of construction for Helen avenue to Kenwick park shoreline restoration

### **BD-18-019**

#### **McCharles - Rupke**

**“That the Board of Directors acknowledges the report dated February 6, 2018 on the ongoing Water and Erosion Control Infrastructure projects across the watershed.”**

#### **CARRIED**

- Potential applications for WEIC projects are being reviewed by Authority Staff
- 2018- 2019 Projects should be submitted by February 12 2018
- Once submitted, all applications will be reviewed by a committee of provincial and conservation authority staff representatives in March and will be ranked in comparison to all submitted projects from across the Province
- list of approved projects is anticipated in May or early June
- list of potential WEIC projects for 2018 - 2019 is outlined below

Structure	Project Name	Description of Work	Total Project Cost (\$)	Grant Requested (\$)
Courtright Park	Courtright Park Shoreline Restoration – <b>Phase 2</b>	Shoreline work at Courtright Park along St. Clair River using armourstone and riprap.	\$700,000	\$350,000
Sarnia Shoreline Protection	Shoreline Repair (Helen and Kenwick St) <b>Phase 2</b>	Carry out construction of Phase 1 from the recommendation of engineering study.	\$800,000	\$400,000
Head Street/ Coldstream Dams	Decommissioning Study	Study to consider decommissioning of the Head street and Coldstream dams	\$120,000	\$60,000
W. Darcy McKeough Dam	Equipment Painting	Paint equipment and Waterproofing the gatehouse building	\$150,000	\$75,000
ARDA Dyke	Hazard Tree Removal	Remove trees and shrubs along the dyke that pose stability issues to the dyke	\$24,000	\$12,000
All Structures	Engineering Inspection	Engineering inspection and reporting to review structural integrity and required maintenance of all authority owned dams	\$60,000	\$30,000

**BD-18-020**

**Broad - Rupke**

**“That the Board of Directors acknowledges the report dated February 5, 2018, regarding potential Water and Erosion Control Infrastructure projects that will be submitted to the Ministry of Natural Resources for funding in 2018-19.”**

**CARRIED**

The Regulations Activity Reports dated January 31, 2018, was reviewed.

**BD-18-021**

**Broad - Scholten**

**“That the Board of Directors acknowledges and concurs with the Regulations Activity Summary Report dated January 31, 2018 on "Development, Interference with Wetlands & Alterations to Shorelines & Watercourses” Regulations (Ontario Regulation 171/06) from December 31, 2017 and January 31, 2018.”**

**CARRIED**

A schedule of Special Events was reviewed:

**Soil Health Conference**

Date: Thursday, February 15, 2018

Time: 8am to 5pm

Location: John Bradley Convention Centre, Chatham

**A.W. Campbell Maple Syrup Festival**

Date: Saturday, March 17 to Sunday, March 18, 2018

Time: 10am to 3pm

Location: A.W. Campbell Conservation Area

**Sydenham River Canoe and Kayak Race**

Date: Sunday, April 22, 2018

Registration: 10am to 11am

Start Location: Mossie Line at the Sydenham River

End Location: Shetland Conservation Area

**Denning’s Strathroy Memorial Forest Dedication**

Date: Sunday, May 27, 2018

Time: 2pm

Location: Centennial Park, Strathroy

**Member’s Project Tour**

Date: Thursday, June 28, 2018

Time: 8:30am to 12:00pm

**Great Canadian Shoreline Cleanup – Ipperwash Beach**

Date: Saturday, September 8, 2018

Time: 9am to 11am

Location: Centre Ipperwash Beach boat launch

**Denning’s Chatham-Kent and West Elgin Memorial Forest Dedication**

Date: Sunday, September 16, 2018

Time: 2pm

Location: Keith McLean Conservation Lands

### **A Geocaching Adventure**

Date: Sunday, September 16, 2018

Time: 9am

Location: Lorne C. Henderson Conservation Area

### **Foundation Memorial Forest Dedication**

Date: Sunday, September 23, 2018

Time: 2pm

Location: Lorne C. Henderson Conservation Area

### **BD-18-022**

#### **Wright - Scholten**

**“That the Board of Directors acknowledges the schedule of Special Events outlined in the attached flyer.”**

**CARRIED**

### **David R. Montgomery Lecture– December 12, 7-9 pm Sarnia**

A classic Canadian snowstorm was not enough to prevent over 120 people from attending SCRCA’s guest lecture by David R. Montgomery in Sarnia. Montgomery is a geologist and professor of Earth and Space Sciences at the University of Washington. Montgomery combines ancient wisdom, modern science and firsthand experience to demonstrate that soil regeneration is possible for farms of any size and in any climate. He outlined conservation agriculture principles used by farmers across the world, that when practiced together can restore soil and increase yields from year to year. The audience was quite engaged and asked many questions. The *Sarnia Observer* highlighted the event with two articles –one before and one after. The event was supported by GLASI funding.

### **Lambton Soil & Crop Improvement Association Annual General Meeting January 13, 2018**

SCRCA Chair Steve Arnold presented Belan Farms with this year’s Outstanding Farmer of the Year Award. Belan Farms has also received SCRCA’s Conservation Award for their farm business’ focus towards soil conservation and sustainability. Staff spoke in front of the crowd of 100 encouraging uptake of BMPs and extending an invitation to our Soil Health Conference.

### **Soil Health Conference - February 15, 2018, Chatham**

We collaborated with Lower Thames Valley CA to reduce the registration costs and help with advertising costs. We also secured 13 sponsors to have a booth. Their sponsorship fees helped to pay for the venue and food costs. This event was a main deliverable in our watershed-wide OMAFRA COA funding (2016-2018).

Frank Gibbs (Wetland and Soil Consulting Services, LLC) worked for the USDA in Ohio for 36 years and spoke on BMPs in hydric soils. Dr. David Lobb (University of Manitoba)

shared the economics of soil loss through wind, water and tillage erosion. Dr. Wendy Taheri (Terra Nimbus) is a specialist in arbuscular mycorrhizal fungi & plant growth. Dale Cowan (AGRIS and Wanstead Cooperatives) is a Senior agronomist and sales manager, 4R Nutrient Stewardship Specialist, and 2016 International Certified Crop Adviser of the Year. Dale spoke about local initiatives. We had Ivan O'Halloran and Anne Verhallen, both from OMAFRA begin and end the day with talks on phosphorus and how to conduct your own soil tests.

In addition, 15 local farmers shared their experiences on our farmer panel discussions. Panel topics included reducing tillage, cover crop and rotational grazing, erosion control methods, soil stewards on big acres, planting green, and making interseeding work. Over 100 farmers, agriculture industry representatives, and researchers participated in the event.

### **Upcoming events:**

#### **Winter Manure Spreading Education Event**

March 22, a collaboration with Lambton Soil & Crop Improvement Association and Lambton Cattlemen's Association. An OMAFRA representative will be speaking about incorporating manure and reducing water quality risks.

#### **Ducks Unlimited Canada Strathroy Chapter Fundraising Event**

March 24, staff will attend, network and provide a short presentation highlighting the great partnership SCRCA has with DUC and past wetland projects in the Headwaters of the East Branch of the Sydenham River.

#### **Focus on the Thames Forum**

March 27 & 28, staff are participating in discussions in this 2-day workshop at Upper Thames CA.

#### **BD-18-023**

##### **Nemcek - Marriott**

**“That the Board of Directors acknowledges the status report dated January 30, 2018, regarding Healthy Watersheds program, stewardship outreach events including the David R. Montgomery lecture, the Lambton Soil and Crop Improvement Association’s Annual Meeting and the Soil Health Conference.”**

**CARRIED**

The Sydenham watershed is heavily impacted through human activities. Sustained monitoring of benthic communities and surface water is important to assess long-term changes in water quality. By obtaining baseline data on these watercourses we can better understand the risks of nutrient loading, runoff, and potential spills from various land uses and how to manage them. Tree planting such as block planting, wind breaks,



and riparian buffers help to sequester carbon, improve water quality, reduce erosion, and provide wildlife habitat.

In February 2017, a proposal was submitted to the Ontario Ministry of the Environment and Climate Change (MOECC) requesting all available funds totaling \$23,378 from the Ontario Community Environment Fund (OCEF) to support St. Clair Conservation's Aquatic Monitoring Program and Tree Planting Program.

Specifically, SCRCA requested funding to:

- Conduct annual sampling at 13 benthic macro-invertebrate stations
- Collect surface water quality samples from 14 stations monthly from April to November.
- Plant 10 000 trees within the Sydenham watershed

Amount requested from OCEF:	\$23,378
Amount from all other sources (cash / donations):	\$40,958
Amount from all other sources (in-kind):	\$25,369
Total value of project:	\$89,706

St. Clair Conservation was notified by MOECC in September of 2017 that \$23,378 was allocated from the OCEF towards the project for 2017/18. This is the second consecutive year that SCRCA received funding from this program.

#### **BD-18-024**

**Faas - Scholten**

**“That the Board of Directors acknowledges the report, dated January 26, 2018, on the Ontario Community Environment Fund grant “St. Clair Region Conservation Authority (SCRCA)’s Tree Planting, Outreach, and Baseline Health Assessment” and authorizes St. Clair Conservation Authority to enter into a Grant Funding Agreement with the Province of Ontario.”**

**CARRIED**

The Hazard Tree Management Policy was reviewed.

#### **BD-18-025**

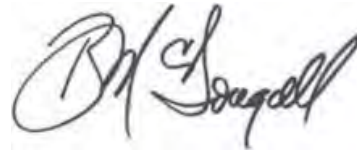
**Bruziewicz - Miller**

**“That the Board of Directors acknowledges the receipt of the Hazard Tree Management Policy and further approves the implementation of the policy on lands owned and managed by the Conservation Authority”**

**CARRIED**

**BD-18-026**  
**Faas - MacKinnon**  
**“That the meeting be adjourned.”**

**CARRIED**

A handwritten signature in black ink, appearing to read "B. McDougall", written in a cursive style.

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**Steve Arnold**  
**Chair**

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**Brian McDougall**  
**General Manager**

**Meeting Date:** April 19, 2018  
**Report Date:** April 9, 2018  
**Submitted by:** Brian McDougall

**Item 6.1**

**Subject:** General Manager's Report

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## **Recommendation:**

That this report be accepted as an update.

## **Background:**

### South West Woodlot Association

- ❖ The Lambton County Woodlot Owners Association was established by a group of resident woodlot owners in 1994
- ❖ The Association's fundamental purpose continues to be to encourage sustainable forest practices by helping landowners acquire the necessary skills and knowledge to undertake these practices
- ❖ In promoting woodlots and their importance, the group holds educational events throughout the year (visits to managed and unmanaged woodlots, tree-planting demonstrations, sawmill tours, and an annual bus tour)
- ❖ In 2016 the Lambton Chapter of the Ontario Woodlot Owners Association changed their name to South West Woodlot Association
- ❖ Since its inception, the Authority has provided a Technical Advisor to the group
- ❖ Initially, Donald Craig was the appointed advisor, and in his retirement Donald continues to be involved in the organization
- ❖ In 2009, Tim Payne was appointed as Technical Advisor to the group and he is prepared to continue in this role

### Staff Changes

- ❖ Patty Hayman has been the Director of Planning with SCRCA since 1989
- ❖ Prior to joining SCRCA, Patty had also worked at Kettle Creek and Upper Thames River Conservation Authorities
- ❖ Patty will be retiring on May 25<sup>th</sup> after almost 30 years of service to the organization
- ❖ Many thanks to Patty for her passion for planning and the watershed and all our best wishes as she moves into the next chapter of her life
- ❖ Dallas Cundick will assume responsibility for the Planning department as Manager of Planning as of May 1<sup>st</sup>
- ❖ As with any senior staff departure, a review of the organization structure is ongoing to ensure that all options are reviewed for efficiency and effectiveness



*South West Woodlot Association*  
*A Chapter of the Ontario Woodlot Association*

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March 29, 2018

Brian McDougall

General Manager / Secretary-Treasurer  
St. Clair Region Conservation Authority  
bmcDougall@scrca.on.ca

Subject: Appointment of a technical advisor.

Dear Brian;

This letter is to ask the St. Clair Region Conservation Authority to appoint a technical advisor to South West Woodlot Association for the 2018 term.

If you have any questions, please contact Jessica Smeekens at [swwaowa@gmail.com](mailto:swwaowa@gmail.com)

Sincerely,

*Jessica Smeekens*

Jessica Smeekens.  
2018 Term President

**Meeting Date:** April 19, 2018  
**Report Date:** April 9, 2018  
**Submitted by:** Brian McDougall

**Item 6.3**

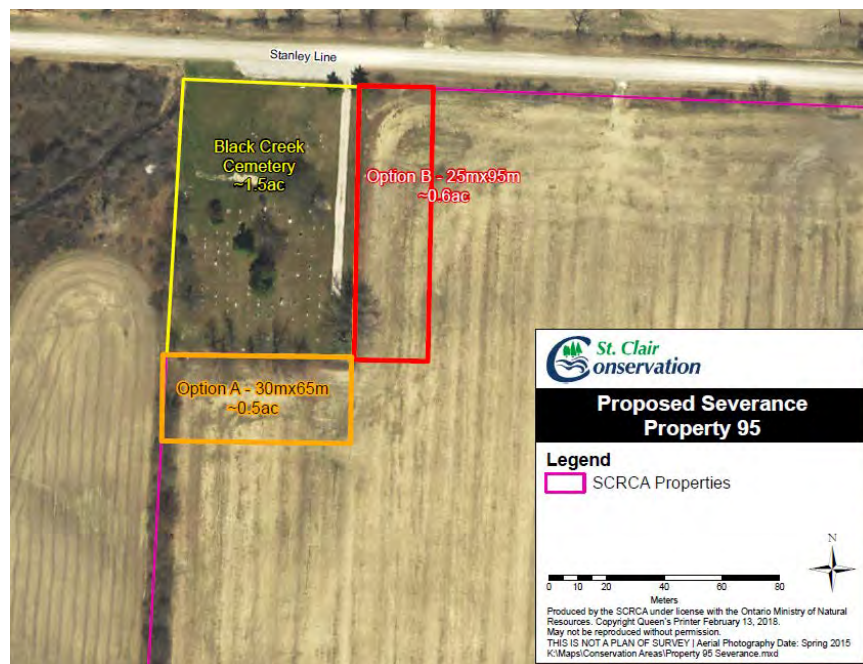
**Subject:** Black Creek Cemetery

## Recommendation:

That the Board of Directors acknowledges this report and approves the transfer of lands from the Authority to the Cemetery with all costs for the transfer to be paid by the Cemetery Board.

## Background:

- ❖ Black Creek Cemetery is located adjacent one of the upstream properties of the McKeough Dam on the south side of Stanley Line just east of Pretty Road
- ❖ The Cemetery Board is dealing space issues and has requested that the Authority review any options for the transfer of a small portion of land to the cemetery
- ❖ The Foundation has successfully worked with the Cemetery Board in the past to plant trees on and around the cemetery
- ❖ The map below outlines the options that staff have reviewed based on this request
- ❖ The Lang Property, known as Property 95, was purchase in 1983
- ❖ The north portion of the farm, 47 acres, is lease to an agricultural tenant through 2020



**Strategic Objectives(s):**

- ❖ Goal 3 of the Strategic Plan states – Provide recreation and education opportunities for the public to enjoy and learn from our natural environment – and further highlights community conservation and recognition
- ❖ Goal 4 of the Strategic Plan states – Build a stronger and more valued organization through business excellence

**Financial Impact:**

- ❖ The financial impact of the transfer would be the ongoing loss of agricultural rental revenue for the 0.5 acres requested
- ❖ Current rental rate for the property is \$190 per acre
- ❖ Therefore, the impact would be the loss of \$95.00 annually
- ❖ In the long term, the value of the property could be reduced by \$5,000 - \$10,000

**Meeting Date:** April 19, 2018  
**Report Date:** March 21, 2018  
**Submitted by:** Brian McDougall

**Item 6.4**

**Subject:** Annual Meeting Schedule

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The St. Clair Conservation Authority recognizes the merit in rotating the annual meeting to different communities within the St. Clair region. In 2013, the following rotation was adopted:

- 2013 – Sarnia
- 2014 – Dresden
- 2015 – Courtright
- 2016 – Coldstream
- 2017 – Brooke-Alvinston
- 2018 – Petrolia
- 2019 – Wallaceburg
- 2020 – Forest

It is proposed that the following locations are accepted as sites for the Annual General Meeting in subsequent years, and included as part of a revolving rotation resuming in 2025.

- 2021 – Point Edward
- 2022 – Florence
- 2023 – Watford
- 2024 – Newbury
- 2025 – Plympton-Wyoming
- 2026 – Strathroy





**Meeting Date:** April 19, 2018 **Item 8.1**  
**Report Date:** April 6, 2018  
**Submitted by:** Ashley Fletcher, Administrative Assistant/ Board Coordinator  
**Subject:** Business Arising

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#### Lambton Children's Safety Village

- Update on self-generated Hydro options
- See attached report

#### 2017 Audited Financial Statements

- Update on Forestry account of \$11,000 (i.e. what this is, what restrictions are on this account)
- Update to be provided at June 28, 2018 Board meeting

#### Highland Glen

- Directors request that signage is posted near boat launch reminding users to pay and outlining how parking fees have allowed for improvements. This may also include future plans and the cost of those jobs.
- Appropriate signage has been completed and will be installed this month.
- Verbal update to be provided at Board meeting

**Meeting Date:** April 19, 2018  
**Report Date:** April 7, 2018  
**Submitted by:** Kevan Baker, Director of Lands

**Item 9.1**

**Subject:** Conservation Lands Report

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## Conservation Areas:

- The Conservation Authority owns 15 conservation areas and manages 17 properties for the Foundation
- Of those 15 conservation areas, 6 are managed by the local municipality and 9 are operated by the Conservation Authority
- Of these 9, 3 conservation areas are regional campgrounds which attract campers from primarily Southwestern Ontario
- Our three regional campgrounds have over 500 campsites and 420 seasonal campers and are financial self sufficient
- Profits obtained from our campgrounds are used to offset capital improvements
- The camping season in 2018 runs from Friday, April 27 to Thanksgiving Day

## Warwick Conservation Area

- Hydro service, lights and a new ag tuff ceiling have been installed in the storage shed
- The 9 hole mini golf course to be upgraded with new carpet and 4 x 4 lumber
- Roads to be upgraded with gravel
- All light fixtures and exterior lighting have been upgraded with LED bulbs and new fixtures
- A new laundry shed has been constructed and installed at the main washroom building



## L.C. Henderson Conservation Area

- Playground equipment surfacing to be upgraded with engineered wood chips and subsurface drainage
- Roads to be upgraded with gravel

- Trailer pads to be installed on 5 campsites in the Towerview camping area
- All light fixtures and exterior lighting to be upgraded with LED bulbs and new fixtures
- A catch basin and subsurface tile drainage to be installed
- A new solar pole light to be installed in the un-serviced camping area
- 36 stumps have been removed and the area leveled with topsoil

## A.W. Campbell Conservation Area

- The concrete sidewalk in front of the pool washrooms to be upgraded
- Improvements to be made to the main entrance roadway between the river crossing and the main parking lot (fall 2018)
- A hydro panel to be upgraded in the main campground area
- Roads to be upgraded with gravel
- Playground equipment surfacing to be upgraded with engineered wood chips and subsurface drainage (Foundation Funded)
- The pavilion roof has been replaced with steel
- All light fixtures and exterior lighting have been upgraded with LED bulbs and new fixtures
- The Maple Syrup Festival was a success this year with over 1,350 people attending



## Highland Glen Conservation Area:

- Approximately 60ft of new walkway along the inside of the boat ramp seawall to be installed
- Welding repairs will be completed on a section of top railing and joints on one of the outer seawalls

## Other Lands Activities:

- 12 board walk sections have been constructed and will be placed along conservation area trails (funded by Foundation)
- Conservation Lands staff will be maintaining the Lambton County CN rail trail between Camlachie and Brights Grove; maintenance will include trail surface grading, grass cutting and tree removal and planting.
- Sub-surface drainage and soil erosion works are planned for Property 82 on the McKeough Upstream lands
- Forest management reviews and inventories will be carried out on the Evoy and Reid Properties
- Staff have repaired or repositioned many of the boardwalks and bridges damaged by spring floods (Strathroy Conservation Area)
- 13 stumps have been removed from along the access roadway at CJ McEwen
- McLean Property (Foundation) – drainage pump shaft has been upgraded in the field pump house
- Bannerstone (Foundation) – property access gates and signage to be install; a small parking area to be established off of Kent Bridge Line
- Over the winter we have accepted campsite reservations (overnight camping only) at the administration office for our 3 regional campgrounds; as of March 31<sup>st</sup> 839 reservations have been taken, collecting \$109,000.00; as compared to 750 reservations and \$96,649.00.00 collected in 2017 (HST adjusted)



**Meeting Date:** April 19, 2018  
**Report Date:** April 6, 2018  
**Submitted by:** Brian McDougall

**Item 9.2**

**Subject:** Lambton Children's Safety Village

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**Recommendation:**

That the Board of Directors acknowledges this report and further:

Option A:

directs staff to advise the Lambton Children's Safety Village Committee of the issues regarding the proposed development at LC Henderson Conservation Area and negotiate a revised plan that alleviates impacts on the Authority programs for review and approval of the Board of Directors.

Or

Option B:

advises the Lambton Children's Safety Village Committee that the proposed development will impact the existing programs at LC Henderson CA and therefore that Safety Village cannot be located at this location.

**Background:**

Timeline

- August 2017 – Met with LCSV representatives to discuss overall concept
- September 2017 – Overall concept and basic plan presented to the Board of Directors – Board acknowledge report and directed staff to report back on outlined issues – Issues identified include: power supply, septic services, impacts to existing programming (camping, education, lands)
- December 2017 – Updated concept plan shown to Board and verbal report by GM
- February 2018 – Update provided to Executive Committee of Board of Directors
- February 2018 – Hydro One advises that power supply to the proposed development based on the available concept plan will cost between \$35,000 - \$50,000 to make power available to the conceptually proposed development
- February 2018 – Updated the Board of Directors on the capital costs for power supply, advised them of consultant undertaking septic servicing review, concerns brought forward by staff regarding impacts on existing programs and additional information will be provided in April

## Comments

- The Board of Directors has acknowledged that we are reviewing the concept of having the LCSV developed at LC Henderson CA and they have been updated on the status of that review three times
- At this time, the Board of Directors have not approved the construction of LCSV at LC Henderson CA, endorsed the signing of an operating agreement or an implementation plan for the development

## Issues

- Capital costs to have hydro service improved to have available power for the proposed work - \$50,000
- The report on the septic services is expected to be completed this week and will be provided to the Board on April 19<sup>th</sup>
- Revenues generated from camping cover all operating and maintenance costs, as well as development and staff – no “tax dollars” (municipal levy) are provided to support LC Henderson CA
- Conservation Education programs generate over 50% of their budget from donations and fees
- Any impacts to these programs that result in financial losses (reduced camping use, fewer student programs) could have a direct impact on staff in these program areas
- Based on the updated concept plan shared with the LCSV Committee (below), Authority staff have identified several points of concern that could impact existing programming:



- Education Program potential impacts
  - Loss of useable space – major impacts on 7 existing education programs
  - Noise and visual distractions – it can be difficult to maintain children’s attention without the presence of other stimuli, especially when you are helping them to connect with the sites, sounds and feeling of natural areas
  - Congestion – at lunch time most days and during high wind days (when we do not use forested areas), space can be an issue based on the current use - the proposed additional classroom would help relieve some of this concern but with very limited open space, twice the number of children will reduce the quality of the experience of all programs and increases the risks of other issues
  - Current programs are fully booked – one of the benefits of the LCSV was identified as a draw for students to Authority Education programs – with fully booked programs there can be little impact
  - Parking – very often parents accompanying classes drive separately to the site – at times the existing parking lot does not meet demand (especially with younger classes) – with space already at a premium, any loss to parking is unreasonable, therefore additional classes will simply increase parking issues
  - Construction
  
- Campground potential impacts
  - Noise and visual distractions – campers in our campgrounds are seeking a quiet and peaceful natural setting for their camping experience – 3 of the 4 camping areas are located in close proximity to the proposed village location
  - Mixed messaging – issues, in the past, have resulted in battery powered vehicles (child sized) are not permitted at Authority campgrounds due to noise issues – the LCSV is expected to employ these vehicles as part of their programmes
  - Open Space Congestion – the campground operates from May 1 – Thanksgiving – currently no education programming is schedule during July and August, providing opportunities for campers to use open areas – any LSCV programs in the summer months could have an impact
  - Washroom Size and Maintenance – issues of use or overuse of washroom facilities or the Authority ability to maintain the facilities to the desired standard may be an issue that could impact camper satisfaction
  - Construction

- In order to reduce these impacts, a revised concept plan has been drafted for internal review (below)



- Authority staff have confirmed that the revision does negate some of the issues, but several significant issues remain
  - Potential loss of revenue, noise issues, tree preservation, septic issues, construction disruption and agreement on annual costs sharing continue to be issues identified from the Camping program
  - Changes to the concept plan do move and concentrate the issues, but do not eliminate them – several education programs use the area of the existing mini-golf course and the proximity to the education centre will continue to make student focus an issue – the mini-golf area has also be an important area for shade as classes often use this as a cool down area out of the direct sunlight
  - As well, the mini-golf course has recently undergone a facelift with material costs of almost \$5,000
- This revised concept plan has not been reviewed with LCSV representatives and may not be satisfactory for their needs or desires



April 16<sup>th</sup> 2018

Kevan Baker  
Director of Lands  
St Clair Conservation  
205 Mill Pond Crescent  
Strathroy, ON. N7G 3P9

Dear Kevan

Re: Lorne C. Henderson Conservation Area & Lambton County Safety Village Proposal

Further to our conversations, email communications and our subsequent site visit, we have reviewed the proposals for the addition of a Safety Village at the above site, and we concur that the existing on-site sewage systems currently installed on site do not have sufficient capacity to incorporate the additional sanitary sewage loading for the proposed works.

Up to now on-site sewage systems have been designed and installed based on use of three separate Class IV septic systems having an overall site sewage capacity of below 10,000 ltrs. per day based on historical water use records and installed using permits applied for and issued at MOE District and Lambton County level based on actual existing recreational uses at the seasonal camp ground.

Existing facilities have been operated within the design parameters of these issued permits and have functioned well based on current usage. Current installed design capacity on site is just under 9,000 ltrs/day.

The additional loading from the proposed Safety Village will increase estimated design sewage capacity for the site to over 10,000 ltrs/day.

The increase in required design capacity will trigger an application for design of additional on-site sewage systems through an Environmental Compliance Application for Sewage Works to the MOECC approval branch in Toronto and through this process will require that modifications to the on-site sewage works will have to comply with current MOECC design guidelines.

This is likely to result in a required sewage capacity for the entire site under this application process of at least 18,300 ltrs/day, which is roughly double the existing installed capacity on site.

The estimated project cost of the Engineered design, approvals and construction of the required works is estimated to be \$168,000 plus any other required studies to satisfy the review process of the MOECC.

The estimated time required to do the necessary studies, design and receive approval from MOECC is conservatively estimated at 12 to 15 months.

Philip Keightley – B.Sc., M.Sc., P.Eng, M.I.C.E.,  
Sr. Project Manager/Civil Engineer  
MIG Engineering

**St. Clair Region Conservation Authority - Lorne C Henderson Conservation Area - Camp Sites**

**Campground Facility - Existing Septic Sewage Systems.**

**Womens Washroom - Class 4 Septic constructed in 1978 - Lambton Health Unit Permit 78-104 (services 3 WCs and 3 whbs)**

Currently	800 imp gallon tank	3,632 ltrs	Capacity is	<b>1016 ltrs per day.</b>
Distribution pipe	500 ft Based on T time of	30 mins	5 length (each 100 ft max) of 3" pipe at 6 ft centres	

**Mens Washroom and Dump Station - Class 4 Septic constructed in 1994- MOE Use Permit SL-189-93 (services 5 showers, 2 WCs, 2 urinals and 2 whbs)**

Currently	4000 US gallon tank	15,120 ltrs	Capacity is	<b>5040 ltrs per day.</b>
Distribution pipe	1173.6 ft Based on T time of	5 mins	10 length (each 117.5 ft max) of 3" pipe at 1600mm centres	

**From pump out records for Campground for 2012**

		Av Tank pump out Ltrs	Frequency of Emptying	Average per day (ltrs)	
No. trailers pumped out	140	50	every 2 weeks	500	3,500 ltrs week
Portable washrooms	10	35	every week	51	5,000 ltrs per season
<b>Total</b>				<b>551</b>	

**From Water meter records for the entire site (140 Serviced Campground)**

	Total m3	Number of days	Average per day m3	
From April 28th to September 28th 2010	2,330	153	15.2	Nett after subtracting Pool Usage
From June 30th to October 7th 2012	1,521	99	15.4	Nett after subtracting Pool Usage
Average for 2 seasons		126	15.3	m3/day

**Design Basis for Water Use and Sewage Disposal for Campground**

Average water use per campsite (ltrs.per day)		109.2	ltrs/day
Average water use for campground (ltrs.per day)	140 sites	15,295	ltrs/day

**Design Capacity for the replacement Dump Station (2013)**

Current facility capacity	6,056	ltrs/day	(from washrooms through existing beds)
Actual (2012) dump loading on septic tanks	551	ltrs/day	Included in current facility
Replacement Dump Station (design)	2,883		
<b>Proposed total design capacity</b>	<b>8,939</b>	ltrs/day	(current plus new)

based on the following assumptions:

		Max Tank Capacity Ltrs	Frequency of Emptying	Max per day (ltrs)	
No. trailers with tanks	145	124	once per week	2,569	17,980 ltrs week
Portable washrooms	10	220	once per week	314	31,114 ltrs per season

**Design Capacity for the replacement Dump Station (2013)**

**2,883 ltrs/day**

**Installed Capacity on Site as at April 2018**

**8,939 ltrs/day**

## St. Clair Region Conservation Authority - Lorne C Henderson Conservation Area - Camp Sites

### Campground - MOECC Design Sewage Capacity

#### Design Basis for Water Use and Sewage Disposal for Campground

From water use records:

Average water use per campsite (ltrs.per day)			109.2	ltrs/day
Average water use for campground (ltrs.per day)	140 sites		15,295	ltrs/day
Current facility capacity	6,056	ltrs/day		(from washrooms through existing beds)
Replacement Dump Station (2016)	2,883	ltrs/day		
<b>Existing design capacity (2018)</b>	<b>8,939</b>	<b>ltrs/day</b>		

#### MOECC Recommended Design Capacity (based on current water use records which are 50% of MOECC guidelines)

					Totals (ltrs/day)	
Existing Park Site	115 Seasonal Sites each	137.5	ltrs/day		15,813	(50% of MOECC guidelines)
	30 Camp sites each	50	ltrs/day		1,500	
Safety Village	50 Average per day		20 ltrs/day		1,000	
MOECC Deesign					18,313	
Existing Site Capacity					8,939	ltrs/day
Required upgraded Capacity					<b>9,373</b>	<b>ltrs/day</b>

For upgrade on site with new Engineered Class IV disposal baed and associated Septic tankage for additional 10,000 ltrs per day capacity

New Septic Tanks rated for 30,000 ltrs capacity (2 by 15,000ltrs)	\$	30,500
New collection system and pump station incl electrical	\$	42,150
New twin disposal beds rated for 10,000 ltrs/day	\$	40,000
Pre design Contingency, OH & P (30%)	\$	33,795
Engineering Design and Approvals (10%)	\$	14,645
MOECC ECA permit application and Hydrology report	\$	6,800
Engineers Estimate (Class D) +/- 30%	\$	167,890



**Rosedale Public School**

1018 Indian Road North  
Sarnia, ON N7V 4C5  
Telephone (519) 542-4552 Fax (519) 542-1106

Item 9.2

Principal: Jim Brennan  
Vice Principal: Nicola Arndt  
Secretary: Sue Gibb  
[www.lkdsb.net/sites/rosedale/default.html](http://www.lkdsb.net/sites/rosedale/default.html)

March 7, 2018

Mrs. Sharon Nethercott  
Conservation Education Co-ordinator  
St. Clair Region Conservation Authority  
Lorne C. Henderson Conservation Area  
Petrolia, ON N0N 1R0

Dear Sharon,

As a classroom teacher and as a school administrator I have enjoyed participating in your education programs at Lorne C. Henderson Conservation Area hosted by you and Melissa Gill. I have brought elementary school students from both rural and urban schools to participate in the programs, and it has been interesting to see them respond to nature.

Through your programs, students have learned to value and respect nature, to use a variety of their senses to see, hear, touch, and smell nature. Often the programs have instilled a respect for nature because students have been able, and are encouraged, to enjoy the sounds of nature by maintaining their own silence, and to experience the subtleties of nature.

I am enticed by the Safety Village, and can imagine what a benefit to students it will be. It is an exciting learning space for children. I can see the benefit of economies of scale by sharing facilities, but I wonder about the dissimilarity of the two programs.

I worry about the compatibility of the two programs on one site. Have the developers considered the impact of the Safety Village on the "silence" of nature or the "smells" of nature? Have they considered the impact of multiple users in a confined amount of space, with limited amounts of parking. Have they considered the impact of overlap on facilities – lunch rooms, washrooms, etc., and in a variety of weather conditions – normal, winter, wind, rain? To me, these are important planning considerations, before two incompatible uses are established on one site, and we lose the benefit of one or the other, or both.

Thanks for your consideration.

Respectfully,

Jim Brennan,  
Principal

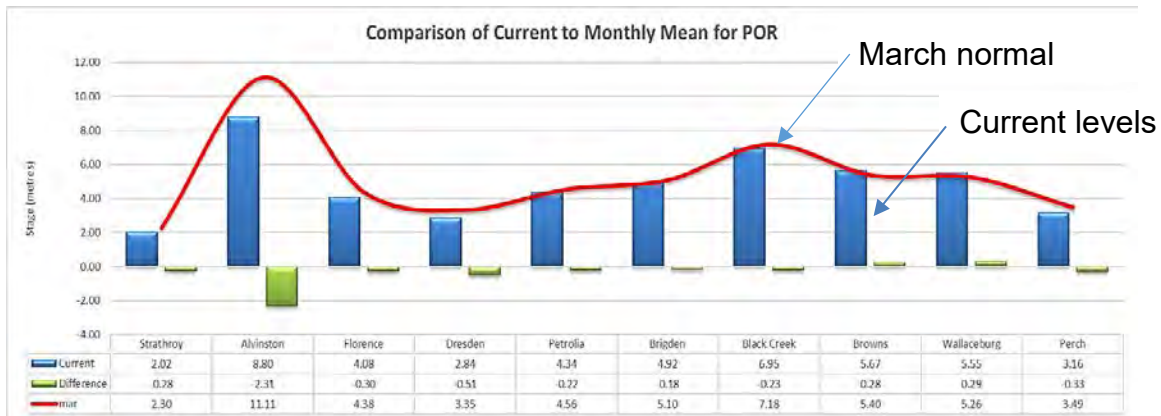
**Meeting Date:** April 19, 2018  
**Report Date:** April 5, 2018  
**Submitted by:** Steve Clark, Water Resources Specialist

**Item 10.1**

**Subject:** Current Watershed and Lake Conditions

## Watershed Stream Flow

Fig 1. Watershed Levels March 2018



- Current flow numbers have stabilized into March following the early freshet and rain event in the third week of February which resulted in the operation of the McKeough Floodway. With no significant additional rain, watercourses were flowing at normal seasonal levels (fig 1). Some ice conditions persisted due to cooler temperatures throughout the March but have now dissipated. Snowfall was also present due to lake effect conditions however; there were no considerable accumulations, which have not had any impact on flow conditions.
- As noted in Fig 2, Wallaceburg levels have continued to be consistent with normal conditions with the exception the February flood event and a smaller event in the first week of April. The Top of Bank level has been added for comparison with actual level.

Fig 2. Wallaceburg Levels 2016/2017 (December to date)



## Precipitation

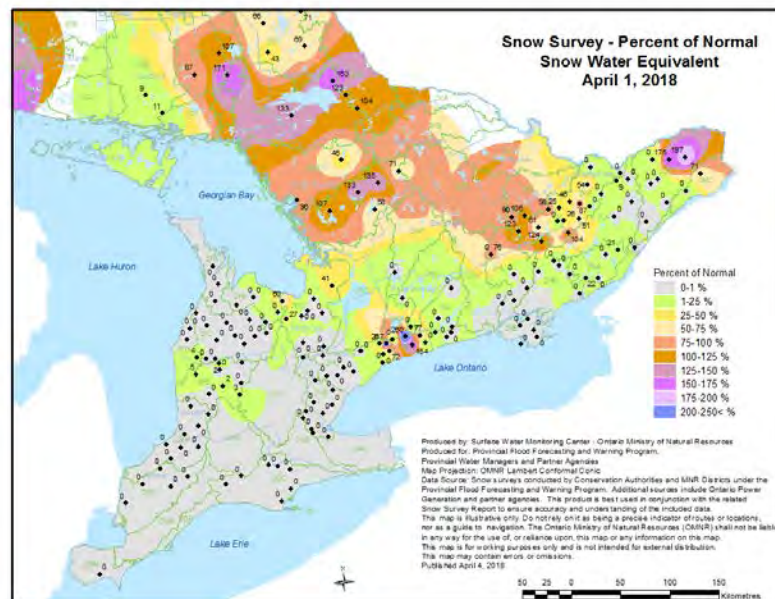
- Regional precipitation numbers (fig 3) for the first quarter are at or above average (**110.6%**) for most stations with the exception of the upper reaches of the watershed at (**99.6%**). This quarterly average was due to higher than normal precipitation in February. This also increased six month figures (**108.6%**) but yearly numbers remain consistent with normal (**98.5%**)

Fig 3. Regional Precipitation

Precipitation (mm)	Sarnia		Strathroy		London		Windsor	
	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal
<b>Last Quarter</b>								
January	41.3	50.1	96.6	75.3	84.4	74.2	44.5	57.6
February	83.5	47.7	94.4	61.1	81.5	60	117.6	57.3
March	44	62.6	57	74.9	45.9	78.4	66	75
<b>Averages</b>								
last 3 month totals	168.8	160.4	248	211.3	211.8	212.6	228.1	189.9
last 3 month % of normal	105.2%		117.4%		99.6%		120.1%	
regional average	<b>110.6%</b>							
last 6 month totals	317.5	370.8	516	469	448.6	469.9	575.9	405
last 6 month % of normal	85.6%		110.0%		95.5%		142.2%	
regional average	<b>108.3%</b>							
last 12 month totals	720.2	846.8	973.5	945.1	886.6	987	1068.1	918.4
last 12 month % of normal	85.0%		103.0%		89.8%		116.3%	
regional average	<b>98.5%</b>							

## Snow Conditions

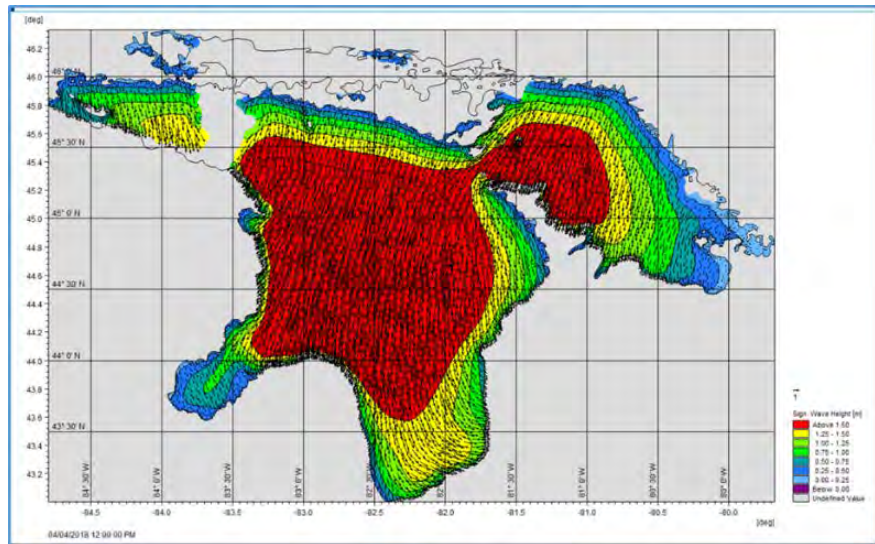
- Most snowpack in SW Ontario was reduced in March but with overall lower temperatures, some snowfall was evident but with little or no notable accumulations
- As expected snowpack continues to be still in place in northern areas of the province. The presence of snow in these areas may continue to contribute to anticipated higher lake levels.



## Flood Threat

Consistent but cooler weather patterns into March reduced the flood threat and there were no significant events during the month. Spring rainfall events will, as in all years have potential for flood events when significant rainfall is experienced. Rain and wind events in the first part of April did not create any watershed based flooding however, significant wind coupled with high lake levels has resulted in shoreline surge

Fig 4. Provincial Surge Modelling – Great Lakes Region



conditions which are now being monitored. The Great Lakes online surge modelling system has been developed by the Provincial Surface Water Monitoring Centre as a result of the continued impact of high water levels and extreme wind conditions (Fig. 4). These models and forecasting are now being utilized by those Conservation Authorities with shorelines to better predict and provide appropriate warning protocols and messaging. **We will continue to monitor conditions and issue bulletins as needed.**

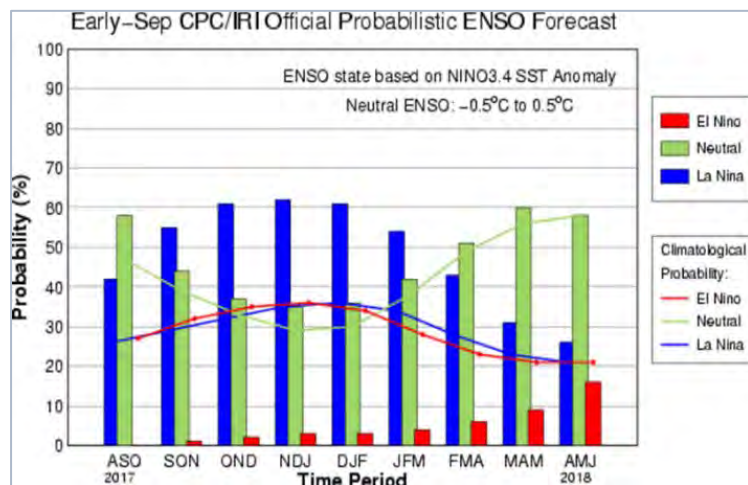
## Forecasted Weather Conditions

- **Overall** - Weather conditions into Spring show a relatively strong La Nina influence.
- **Long range** - Model showing movement towards neutral effect, but remaining below neutral in La Nina conditions

**April** - Average to below average temperatures in southwestern Ontario.

Precipitation outlook is within seasonal conditions.

**May** - While the rest of Ontario is moving to above seasonal temperatures and enjoying a traditional spring, our region is forecasted to remain in the seasonal temperature range. Precipitation is anticipated to be seasonal to slightly below seasonal levels



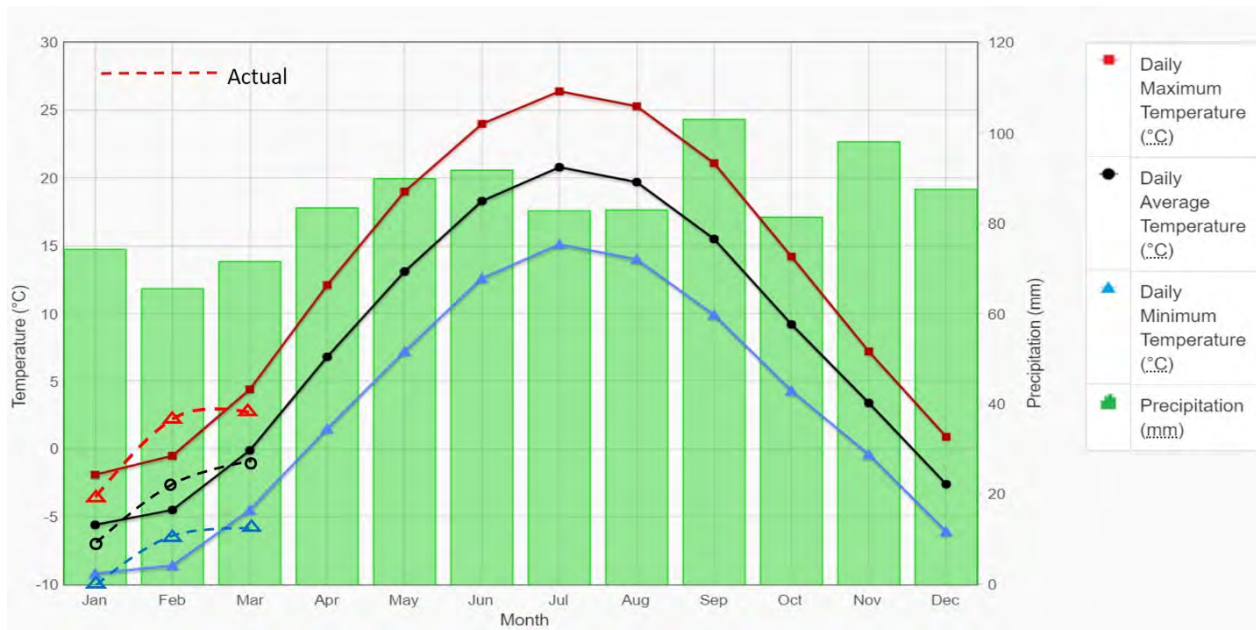


**June** - Below seasonal temperatures with precipitation conditions drier than normal

**Summer** - By July, our region is modelled at warmer than normal temperatures with precipitation modelled to be seasonal to drier than normal. Years identified as being similar based on modelling include 2006 and 2013.

- Fig 5 identifies the seasonal normal (solid line) with 2018 conditions (dashed line). While February remained above average, March was notably below temperature normal numbers. This graph will be updated in future board reports to show the trend pattern for the entire year.

Fig 5. Regional Temperature Averages



## Great Lakes Levels

The monthly comparison for February 2018 (Fig 6) (current available data) indicates that Lake Huron levels higher again (**26cm**) compared to February 2017 suggesting a continued higher trend in local lake levels. Numbers also continue to increase above the 10-year average for Lake Huron by **67cm**. Lake St. Clair levels are higher than last year (**10cm**) **52cm** above the 10 year average. Both Lake Huron and Lake St. Clair current values (February) continue to remain above the average for the entire period of record.

## Water Level and Ice at Bright's Grove Shoreline



Fig 6. Lake Levels - February, 2017 (Canadian Hydrometric Services)

Units	Current February Level	February Level Last Year	Change 2017/2018	Current Month Avg for Last 10	Change Current compared to 10 year	Anticipated Next Month	Average for Month for Period of Record
<b>Lake St. Clair</b>							
Metric (m)	175.32	175.22	0.10	174.80	0.52	175.50	174.79
Imperial (ft)	575.20	574.87	0.33	573.49	1.71	575.79	573.46
<b>Lake Huron</b>							
Metric (m)	176.74	176.48	0.26	176.07	0.67	176.80	176.28
Imperial (ft)	579.85	579.00	0.85	577.66	2.20	580.05	578.34

Fig 7. March Great Lakes Levels – All Lakes – 2017 to 2018

	Actual*	Compared to		
	18-Mar-18	Average**	Last Year	Chart Datum
Lake Superior	183.53 m	29 cm	15 cm	33 cm
Lake Michigan-Huron	176.76 m	46 cm	24 cm	76 cm
Lake Erie	174.66 m	59 cm	20 cm	116 cm
Lake Ontario	74.93 m	26 cm	-9 cm	73 cm
Lake St. Lawrence	72.64 m	-27 cm	-102 cm	14 cm
Lake St. Louis	21.83 m	48 cm	54 cm	148 cm
Port of Montreal	6.93 m	1 cm	14 cm	137 cm

\*Preliminary.  
 \*\*Statistics: Great Lakes: 1918-2016; St. Lawrence River: 1960-2016; Montreal: 1967-2016

Fig 8. Comparison of Lake Huron Levels – 2016 to 2018

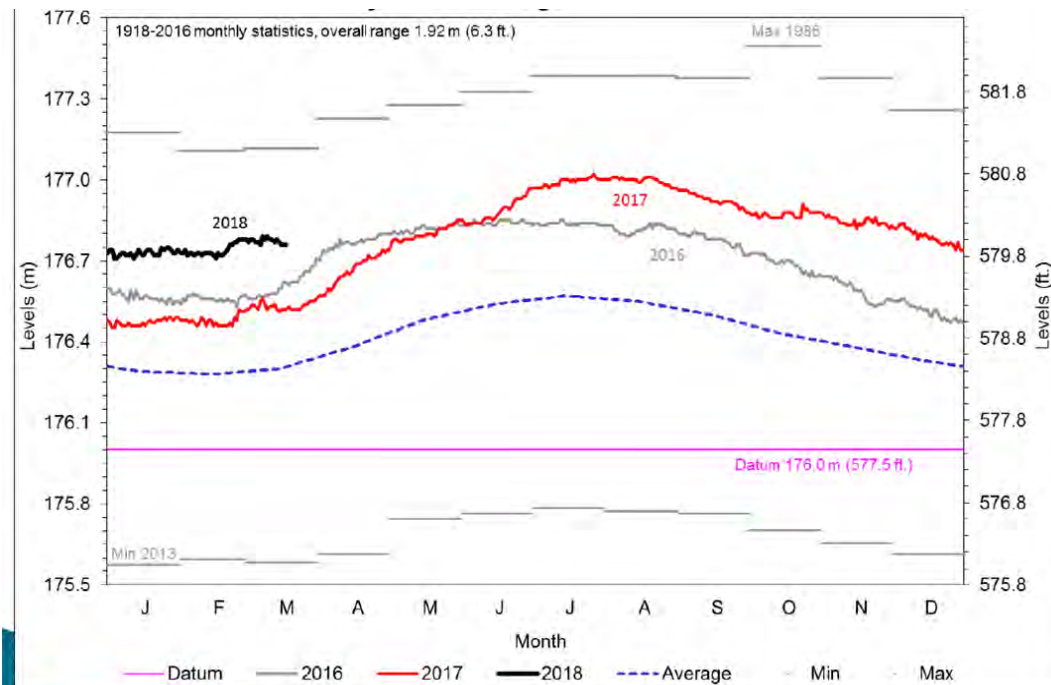
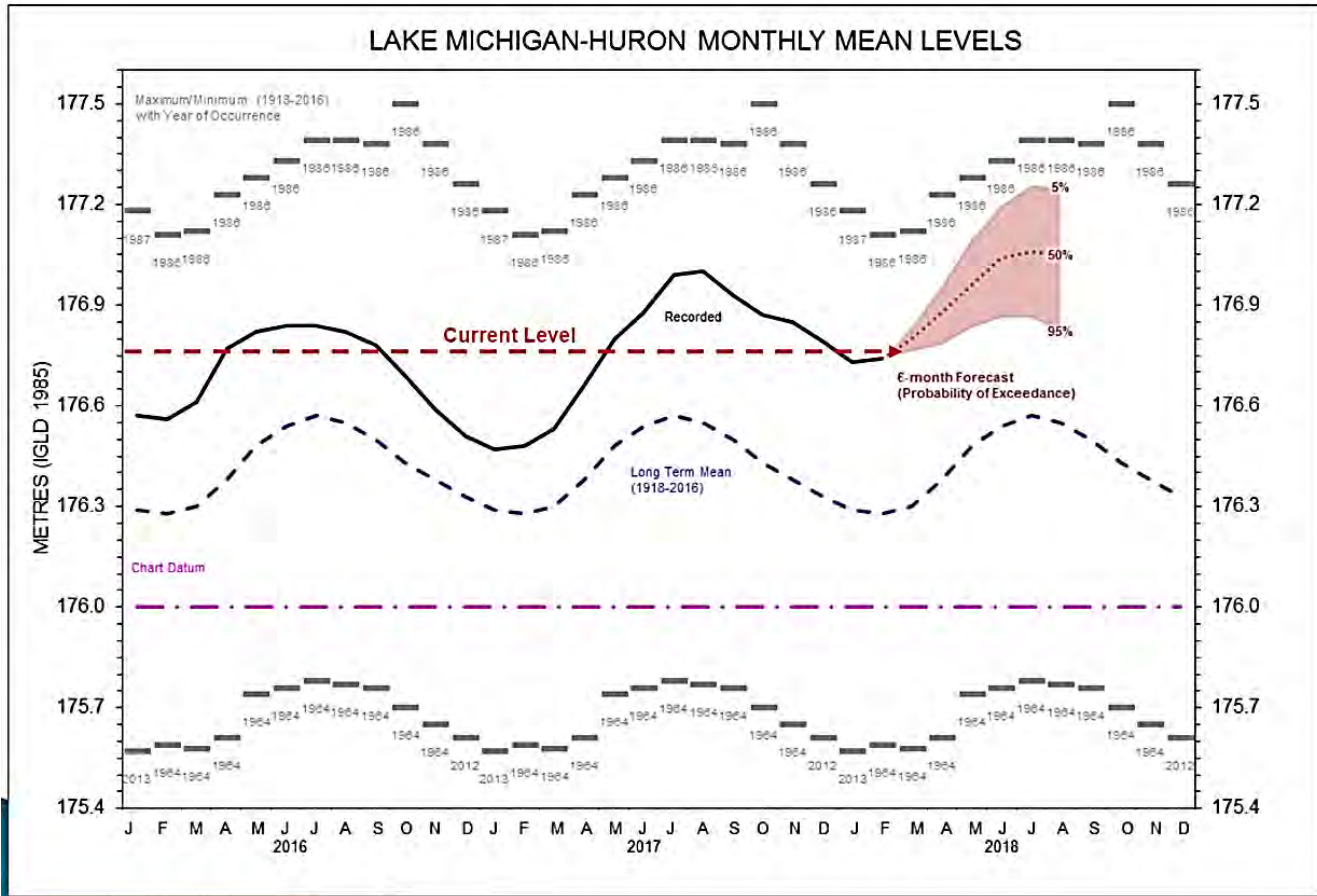


Fig 9. Current Level and Anticipated Trend into 2018



**Meeting Date:** April 19, 2018  
**Report Date:** April 5, 2018  
**Submitted by:** Girish Sankar, Director of Water Resources

**Item 10.2**

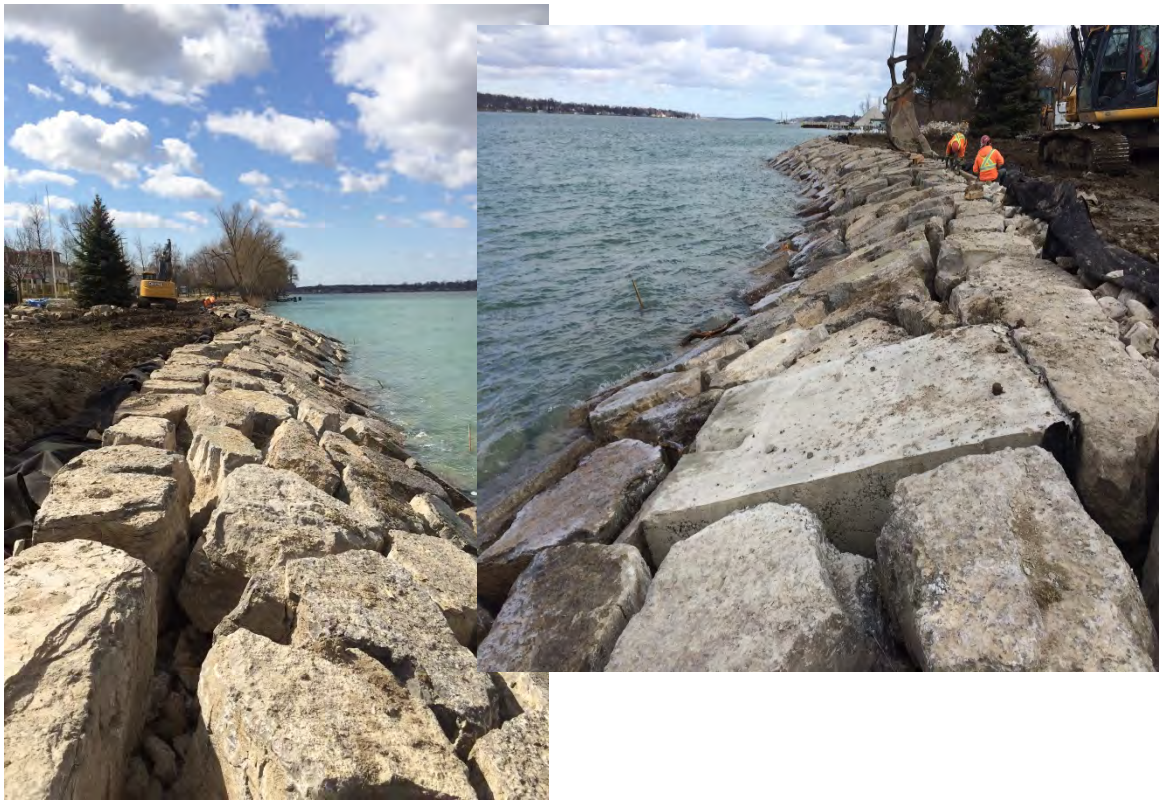
**Subject:** Water & Erosion Control Infrastructure (WECI) Projects

- 2018- 2019 Projects have been submitted on February 12, 2018
- All applications will be reviewed by a committee of provincial and Conservation Authority staff representatives in March and will be ranked in comparison to all submitted projects from across the Province
- List of approved projects is anticipated in May or early June
- List of WECI projects for 2018 - 2019 is outlined below

Structure	Project Name	Description of Work	Total Project Cost (\$)	Grant Requested (\$)
Courtright Park	Courtright Park Shoreline Restoration – <b>Phase 2</b>	Shoreline work at Courtright Park along St. Clair River using armourstone and riprap.	\$700,000	\$350,000
Sarnia Shoreline Protection	Shoreline Repair (Helen and Kenwick St) <b>Phase 2</b>	Carry out construction of Phase 1 from the recommendation of engineering study.	\$800,000	\$400,000
Head Street/ Coldstream Dams	Decommissioning Study	Study to consider decommissioning of the Head street and Coldstream dams	\$120,000	\$60,000
W. Darcy McKeough Dam	Equipment Painting	Paint equipment and Waterproofing the gatehouse building	\$150,000	\$75,000
ARDA Dyke	Hazard Tree Removal	Remove trees and shrubs along the dyke that pose stability issues to the dyke	\$24,000	\$12,000
All Structures	Engineering Inspection	Engineering inspection and reporting to review structural integrity and required maintenance of all authority owned dams	\$60,000	\$30,000

## Courtright Waterfront Restoration – Phase 1

- A budget of \$720,000 was confirmed for the project (WECI \$350,000; St. Clair Township - \$350,000, Great Lakes Community Guardian fund \$20,000)
- Construction work started last week of January, 2018 by Bre-Ex Construction Inc.
- As of April 5, 2018, 49 working days have been completed of the project under the contract (a working day is any day during which the conditions permit the contractor to be able to undertake work to greater than 60 percent of capacity).
- All in-water works were completed before March 30, 2018.
- 2 outfalls were located and needed repair. This was not identified in the contract.
- Approximately 130 meters of Shoreline work has been completed as of today.
- Due to timeline restrictions and higher cost provided by Bre-Ex, SCRCA recommended that no additional work be completed.
- Minor restoration and repair work is on-going and the crew will be completing restoration in May, 2018.
- This is the first phase of construction at Courtright Park.
- Pictures below is taken on April 5<sup>th</sup> looking south and north along the Courtright park.



## Sarnia Shoreline Protection – Phase 1

- A budget of \$700,000 has been confirmed for the project (WECI \$350,000; City of Sarnia \$350,000)
- Construction work was completed on March 13, 2018.
- Construction crew faced a number of weather related challenges, but were extremely dedicated to complete the project.
- 30 working days was provided for completion of the project under the contract
- Restoration work planned for May, 2018.
- Due to half load restrictions, a pile of armour stone is left on site and will be placed in May, 2018 when the crew returns in May, 2018.
- This is the first phase of construction for Helen avenue to Kenwick park shoreline restoration



**Meeting Date:** April 19, 2018  
**Report Date:** April 6, 2018  
**Submitted by:** Jessica Van Zwol and Laura Biancolin  
**Subject:** Healthy Watersheds Program Update

**Item 11.1**

## Recommendation:

That the Board of Directors acknowledges this report dated April 6, 2018 on the Healthy Watersheds Program Update

## Background:

### Factsheets

New factsheets are now available on our website. The factsheets include information on how to make early season cover crop planting work and variable rate nutrient application. Both factsheets include case studies on projects we have completed with landowners in our watershed.

**Case Study: The Richards Project**

**Overview**  
 Currently, Mark Richards plants his cover crop after soybean and sugar beet harvest. Planting after harvest can result in an uneven and poor establishment of the brassica and legume cover crop species which require more heat units. In order to improve the establishment of his brassica and legume, Richards wanted to move his planting window earlier before sugar beet harvest and at soybean leaf drop. In the season, the brassica and legume have more time to establish and produce biomass before frost.

**Solution**  
 Modify Richards' existing equipment to be able broadcast his cover crop seed over his soybeans at leaf drop and prior to sugar beet harvest.

**Equipment Modification**  
 Richards modified his existing sprayer by attaching three seed spreader units along the 120-foot boom. Each spreader is capable of broadcasting cover crop seeds over a 40-foot grain bed pattern.

**Benefits of this Modification**

- This modification will enable Richards to broadcast brassica and legume cover crop seed over soybeans at leaf drop and prior to sugar beet harvest, accelerating the cover crop growing season. Furthermore, the dropped soybean leaves will serve as a mulch to cover the seed, retain moisture, and improve germination, establishment, and growth.
- In addition, Richards will be able to broadcast red clover cover crop seed over his planned winter wheat field during his early nitrogen pass. The red clover cover crop will reduce the risk of runoff, leaching, and denitrification.

The Richards' equipment modification was completed with support from SDCA and OMAFRA. If you are interested in modifying your equipment to improve soil health and reduce nutrient losses, please contact SDCA.

**Early Season Cover Crop Planting**

Different cover crop species provide various benefits for the next crop or the soil. Legumes are known for their ability to fix nitrogen, brassicas break up compaction, and grasses act as an erodent species to reduce spring soil erosion. Other different cover crop species are used in combination, they can offer a wider variety of benefits.

While some grass species can establish when planted late in the season before harvest, brassicas and legumes require more heat units, making early planting important. This factsheet will look at an equipment modification case study that allowed for early season cover crop planting.

**Legumes include:** clover, alfalfa, hairy vetch, and field peas

**Brassicas include:** oilseed radish, turnip, mustard, and forage rape

**Benefits:**

- Promote nitrogen cycling
- Build organic matter
- Reduce soil erosion

**Brassicas include:** oilseed radish, turnip, mustard, and forage rape

**Benefits:**

- Timely soil compaction
- Suppress weeds
- Nutrient scavenger

**Approximate Cover Crop Seeding Periods for Southwestern Ontario**

Year	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Early Spring: annual ryegrass, barley, vetch, field peas, hairy vetch											
Spring: clover, alfalfa, field peas, and vetch, mustard, oilseed radish, rapeseed/canola, turnip											
Summer: radish, longhorn sudangrass, sudangrass, alfalfa, vetch, clover, winter wheat, forage rape											
Late Summer/Early Fall: annual ryegrass, hairy vetch, alfalfa, field peas, hairy vetch, winter wheat, forage rape											

When determining what cover crop species is right for your system, it is important to consider your herbicide program and cover crop termination methods. For more information visit: [www.southwestontario.ca](http://www.southwestontario.ca)

**Interseeding Cover Crops**

**About this project:**  
 Interseeding is the process of planting a cover crop between the rows of a standing cash crop. By planting cover crops during the growing season, as opposed to after harvest, cover crops have a greater opportunity to establish prior to frost.

When selecting an interseeding cover crop, consider shade tolerant species that work in your soil type and cater to the needs of your field. Grasses such as cereal rye or oats, grow quickly and suppress weeds. Legumes such as red or crimson clover, fix nitrogen for the next crop.

This program was completed with support from Ontario and St. Clair Conservation.

**Educational Signs at Demonstration Farms**  
 Two educational roadside signs are set to be installed in the coming weeks. The signs explain and showcase Agricultural Best Management Practices at demonstration sites across our watershed. A variable rate nutrient application sign will be installed near Dresden and an interseeding cover crops sign will be installed near Oil Springs.

**Healthy Lake Huron Spring Newsletter**  
 Our Healthy Lake Huron Spring 2018 Newsletter will be mailed to over 300 rural properties in Lambton Shores. The newsletter features articles which promote the use of cover crops to improve soil health, reduce erosion and improve water quality. Our upcoming Biostrips Workshop and cover crop grant program are also highlighted.

**Lambton Shores Watershed Project** Spring 2018

**Cover Crop Edition**

Different cover crop species provide various benefits for the soil and the following crop. Legumes are known for their ability to fix nitrogen, brassicas break up compaction, and grasses act as an erodent species to reduce spring soil erosion. Using different cover crop species in combination can offer a wider variety of benefits. When determining what cover crop species mix is right for your system, it is important to consider your herbicide program and cover crop termination methods.

**Grasses:** wheat, barley, oats & rye  
**Benefits:**

- Erosion quickly
- Overwinter
- Reduce soil erosion

**Brassicas:** oilseed radish, turnip & oilseed radish  
**Benefits:**

- Soil compaction
- Suppress weeds
- Nutrient scavenger

**Legumes:** clover, hairy vetch & field peas  
**Benefits:**

- Consist nitrogen
- Build organic matter
- Reduce soil erosion

**Soil Testing Methods**  
 Soil testing is central to any variable rate system. Based on the resolution of your management zones, different soil sampling techniques can be used. Bulk sampling typically covers an area of 100-200 acres. Grid sampling consists of one sample per 10-20 ft. Grids can be set at various sizes but remain constant across a field. Zone soil sampling uses predetermined zones based off various data sets, which may include yield data, satellite imagery and topography. At least one soil test should be done in each zone. Soil test results can be used to evaluate management zones and to prescribe fertilizer application rates.



### Soil Health Conference

Our Soil Health Conference in Chatham was extremely successful! Over 185 producers, attended the event, majority of professions broke down into: 75% cash crop producers, 33% vegetable producers, 26% ag business, 22% livestock producers, 19% Certified Crop Advisors (CCA), as well as organic producers, government staff and conservation organizations.

Speakers included Frank Gibbs (formerly of USDA), Dale Cowan (International CCA of the Year), Dr. Wendy Taheri, Dr. David Lobb, Dr. Ivan O'Halloran and Anne Verhallen, all of whom spoke about phosphorus, soil health, economics of soil loss, soil microorganisms and 4R Nutrient Management. Additionally, 15 local farmers spoke on informal discussion panels to share their experiences with improving soil health and reducing soil erosion.

An important message from the conference was to remember that there is no single answer to improving soil health and nutrient management – it takes a combination of BMPs and that the combination will change from farm-to-farm and even year-to-year.

Feedback comments included the following:

“Thank you for organizing such a great meeting. Good caliber of guest speakers with great take home messages. It was educational with lots to think about. Hope you can do this again”

“Just wanted to say - great job. Thank you for the opportunity to participate. I really enjoyed the mix of speakers and loved hearing the farmers, especially the Soil Network participants present.”

“The conference was excellent, speakers, location, logistics and all. The discussions and information exchanged was very timely. Your team from SCRCA all deserve a pat on the back.”



Survey results included the following:

- 97% of attendees found that the conference demonstrated the value of implementing agricultural BMPs
- 100% of attendees found that the information provided was useful, new and increased their knowledge
- Most attendees indicated cost limits the adoption of BMPs followed by limited experience, risk (perceived or actual) and access to information
- 75% of respondents have at least 3 crops in their rotation
- 74% of respondents use cover crops
- 63% of respondents practice regular soil testing
- 58% of respondents practice reduced tillage
- 37% of respondents practice 4R Nutrient Stewardship
- Suggested for future discussion topics: cover crops, agricultural soil biology, biostrips/planting green and reducing compaction

Soil Health Conference Thursday February 15, 2018 8am-5pm			
Time	Main Ballroom	CEUs	Length
8:00-8:30AM	Registration		30min
8:30-8:40AM	Welcome		10min
8:40-9:15AM	Phosphorus Primers Ivan O'Halloran	0.5 NM	35min
9:15-10:15AM	Make Your Soil Smoke: Cover Crops, Drainage, Earthworms and More! Frank Gibbs	1.0 SW	60min
10:15-10:30AM	Refreshment Break		15min
10:30-11:30AM	Soil Degradation—The Cost to Agriculture and the Economy Dr. David Lobb	1.0 SW	60min
11:30-12:30PM	Managing Microbes: Mycorrhizal Fungi in Cropping Systems Dr. Wendy Taylor	1.0 SW	60min
12:30-1:15PM	Lunch		45min
Breakout Rooms			
Farmer Led Discussion Panels	 <b>VERITAS</b> Your forage partner	 <b>MAPLESEED</b> Your forage partner	See reverse side for more information
1:15-2:00PM	Reduced Tillage	Cover Crop & Rotational Grazing	0.5 SW 45min
2:00-2:45PM	Erosion Control Methods	Soil Stewards on Big Acres	0.5 SW 45min
2:45-3:30PM	Bio Strips & Planting Green	Making Intersowing Work	0.5 SW 45min
Main Ballroom			
3:30-3:45PM	Networking Break		15min
3:45-4:25PM	4R Nutrient Stewardship Dale Cowan @SCS4Agromony	1.0 NM	40min
4:25-4:55PM	In the Field Soil Health Tests Anne Verhalen @Anne_Verhalen	0.5 SW	30min
4:55-5:00PM	Wrap up		5min



**Meeting Date:** April 19, 2018  
**Report Date:** March 27, 2018  
**Submitted by:** Kelli Smith

**Item 11.2**

**Subject:** 2017 Municipal Drain Review Activities

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**Recommendation:**

That the Board of Directors acknowledges the report summarizing the 2017 Municipal Drain Review activities and updates.

**Background:**

Conservation Authorities (CAs) regulate activities that change, divert, or interfere in any way with the existing channel of a river, creek, stream or watercourse, or that interfere with wetlands. Municipal drains are generally watercourses as defined under the CA Act and are therefore regulated by CAs.

Staff help member municipalities meet regulatory requirements by issuing Standard Compliance Requirements (SCRs) as per the Drainage Act and Conservation Authorities Act (DART) Protocol and Letters of Review (LoR) for projects where DART does not apply (Drainage Act, S. 4: Petition Drains and S. 78: Improvements). Staff also meet with Drainage Superintendents on proposed projects and conduct site visits where necessary. If drain repair and maintenance activities are carried out (with or without permission) and result in impact on regulated areas with respect to the Conservation Authority's responsibilities under the Conservation Authorities Act, the Conservation Authority could be held liable for not under taking or enforcing its regulatory authority.

SCRs and LoRs outline project specific sediment and erosion control measures for all projects. Upstream and downstream flooding are considered where appropriate (e.g., culverts and enclosures) and advice is incorporated into review letters and SCRs. Interference with wetlands is discouraged by negotiating project specific mitigations. St. Clair Conservation staff work with municipalities to try to find solutions that meet the requirements of both the Drainage Act and the Conservation Authorities Act.

**On-site Meetings**

In 2017 SCRCA staff started to attend all on-site meetings held by the Municipalities for drainage projects. By doing this staff are able to bring forth any concerns regarding the proposed project early which can help to prevent hold ups later in the process. This also allows SCRCA to develop and maintain greater relationships with our Drainage Superintendents. Approximately 30 on-site meeting were attended by staff in 2017. Some concerns that are brought up include locations of wetlands and significant features. The SCRCA has policy in place with regards to wetlands which provides mitigations and advice for work within and around wetlands.

### **(Zsoldos Drain)**

A new municipal drain is proposed in geographic Zone Township, Chatham Kent. The location of the proposed drainage works is within/adjacent portions of the Skunks Misery Provincially Significant Wetland Complex. The new drainage works follow a clearcut of portions of this woodland and wetland. Note: a Woodland Conservation or Tree cutting bylaw does not exist in Chatham Kent. SCRCA biology staff notified (in writing) CK drainage staff and consultant Spriet Associates early in the proposed drainage process of the PSW presence. The PSW is regulated by the SCRCA Ontario Regulation 171/06 "Development, Interference with Wetlands and Alterations to Shorelines and Watercourses". CK has proceeded with drainage nevertheless and the report has received 3<sup>rd</sup> reading.

To complicate matters, the woodland and wetland is situated in both the SCRCA watershed and LTVCA watershed, with proposed drainage wholly outletting to SCRCA upper watershed tributaries.

SCRCA is working with LTVCA to address the violation and interference with the wetland caused by the clearcut. A separate but related issue is the proposed drainage works (Drainage Act) that as proposed could negatively impact the wetland.

Authority staff are proud of the success in working with municipalities in protecting the remaining wetlands in the watershed. Through this cooperation, SCRCA has generally not required written permission for new drainage works via Ontario Regulation 171/06 and has simply screened and provided general advice if appropriate to ensure wetlands are protected. However, with the concerns with the proposed works adjacent the PSW and the absence of any mention of the PSW in the drainage report, the SCRCA will require that C-K obtain formal written permission under SCRCA Regulation 171/06 to pursue the Zsoldos municipal drainage works. Adherence to the SCRCA Wetland Policies under Section 28 will be required.

### **A year in review – 2017**

2017 saw a total of 109 files submitted to SCRCA for review. 63 were reviewed under the DART protocol and received SCR permissions. 45 were reviewed by staff and received LoRs as the works were outside of those specified under the DART protocol.

Categories of Drain Review	January - April 2016	May - August 2016	September - December 2016	Totals
DART Protocol – SCR issued	17	24	22	<b>109</b>
Letter of Review Issued	16	18	11	
Other Types of Files (e.g., Environmental Assessment, sign-off, Assessment changes)	0	0	1	
<b>Total Files</b>	<b>33</b>	<b>42</b>	<b>34</b>	

**Meeting Date:** April 19, 2018  
**Report Date:** April 4, 2018  
**Submitted by:** Olivia Sroka

**Item 11.3**

**Subject:** Water Quality and Monitoring – Watershed Report Cards

**Recommendation:**

That the Board of Directors acknowledges this report dated April 4, 2018 on the completion of the mandatory Watershed Report Card, organized by Conservation Ontario, outlining watershed health within 2011-2015.

**Background:**

Every five years conservation authorities release watershed report cards to help watershed residents, agency staff and conservation authority directors understand environmental health on a watershed basis. Report cards provide a ‘check-up’ on the health of many of Ontario’s Watersheds. A comparison of SCRCA’s watershed conditions with neighbouring watersheds can be found at <http://watershedcheckup.ca/>

Figure 1 Watershed Checkup web page. Follow the links highlighted for other Conservation Authority Report Cards and results.

St. Clair Region Conservation Authority cards assess and grade surface water quality and forest conditions in 14 sub-watersheds. The Report Cards are compiled every 5 years therefore the 2018 Report Card is based off data collected from 2011-2015. Both the 2013 and 2018 Report Cards use the guidelines and updated grading system recommended by Conservation Ontario in 2011.

Surface water quality indicators include Total Phosphorus, benthic invertebrates, and bacteria (*E. coli*). Forest condition indicators include the percent forest cover, percent forest interior, and the percent of the riparian zone that is forested. Each of these indicators are graded with specific parameters and these grades have been defined from A to F (Excellent to Very Poor). The Report Card analysis is based on water quality data collected by St. Clair Conservation staff, and GIS mapping. The water quality information is collected at individual sites that are selected to reflect the subject watershed. The forest evaluation has been completed at a landscape level from analysis of aerial photographs.

Table 1 Surface Water Scoring and Overall Grade Calculation (Conservation Ontario 2011)

Total Phosphorus (mg/L)	<i>E. coli</i> (#100mL)	Benthic Score	Point Score	Grade	Overall Surface Water Quality Grade	
					Final Points	Final Grade
< 0.020	0 - 30	0.00 - 4.25	5	A	>4.4	A
0.020 - 0.030	31 - 100	4.26 - 5.00	4	B	3.5 - 4.4	B
0.031 - 0.060	101 - 300	5.01 - 5.75	3	C	2.5 - 3.4	C
0.061 - 0.180	301 - 1000	5.76 - 6.50	2	D	1.5 - 2.4	D
> 0.180	> 1000	6.51 - 10.00	1	F	<1.5	F

Table 2 Forest Cover Scoring and Overall Grade Calculation (Conservation Ontario 2011)

% Forest Cover	% Forest Interior	% Riparian Zone Forested	Point Score	Grade	Final Points	Final Grade
> 35.0	> 11.5	> 57.5	5	A	> 4.4	A
25.1 - 35.0	8.6 - 11.5	42.6 - 57.5	4	B	3.5 - 4.4	B
15.1 - 25.0	5.6 - 8.5	27.6 - 42.5	3	C	2.5 - 3.4	C
5.0 - 15.0	2.5 - 5.5	12.5 - 27.5	2	D	1.5 - 2.4	D
< 5.0	< 2.5	< 12.5	1	F	< 1.5	F

Results for this year's Report Card resulted in surface water quality grades for the St. Clair Region ranging from C to D. Overall, the Middle East Sydenham, Lower East Sydenham, Lower North Sydenham and Lambton Shores Tributaries scored C grades while the remaining sub-watersheds scored D grades. Forest condition grades ranged from C to F; with a C grade in Lambton Shores Tributaries, most watersheds receiving a D grade, and an F grade in Cow and Perch Creeks, and Lake St. Clair Tributaries.

The latest round of report cards reinforces the need for an aggressive strategy to change the watershed. With change and stressors, such as intense agricultural practices, population growth, commercial and industrial development and climate change continually affecting the watershed, recognition of local actions that improve the watershed health is very important. There have been collective efforts over the years including dozens of projects that have been completed through the Healthy Watershed Program and Healthy Lake Huron Clean Water Clean Beaches Program. Examples of these positive contributions are included and summarized in each watershed Report Card.

## St. Clair Region

**WATERSHED**

Report Card 2018



The St. Clair Region Conservation Authority has prepared this report card as a summary of the state of your forests, wetlands, and water resources.



## WHERE ARE WE?



### What is a Watershed?

A watershed is an area of land drained by a creek or stream into a river which then drains into a body of water such as a lake or pond. Everything in a watershed is connected. Our actions upstream can affect conditions downstream.

### Why Measure?

Measuring helps us better understand our watershed. We can target our work where it is needed and track progress. We measured:



Groundwater Quality



Surface Water Quality



Forest Conditions



Wetland Conditions

### GRADING

**A** Excellent

**B** Good

**C** Fair

**D** Poor

**F** Very Poor

Insufficient Data

### What is a watershed report card?

Ontario's Conservation Authorities report on watershed conditions every five years. The watershed report cards use Conservation Ontario guidelines and standards developed by Conservation Authorities and their partners.

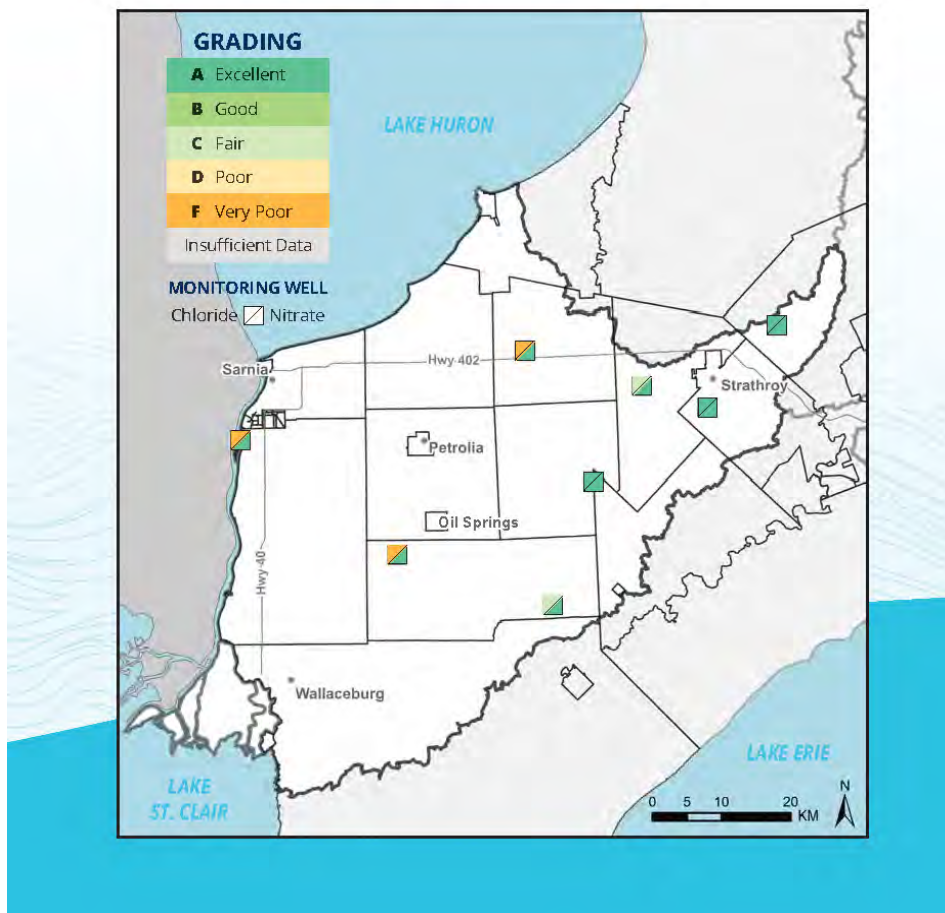


## GROUNDWATER QUALITY

Concentrations of nitrate and chloride were measured at eight Ministry of the Environment and Climate Change monitoring wells (learn about groundwater at [sourcewaterprotection.on.ca](http://sourcewaterprotection.on.ca)).

### What Did we Find?

- Nitrate concentrations are better than the drinking water guidelines for all wells (A grade).
- Concentrations of chloride approach or exceed the drinking water guidelines at some wells, resulting in a poorer grade (less than A grade).
- The boundaries of surface water and groundwater watersheds are not always the same. The quality of your well water may vary from that of the monitoring wells.







## SURFACE WATER QUALITY

Surface water quality was evaluated using three indicators: concentrations of phosphorus (nutrient) and *Escherichia coli* (bacteria) as well as the composition of benthic macroinvertebrate communities (benthos). Benthos are small aquatic animals that live at the bottom of watercourses, the type and number of these animals are measures of water quality.

### What Did we Find?

- Grades vary between C and D, with mostly D grades.
- The surface water quality in each sub watershed is influenced by the land use. Protection and enhancement of wetlands, forests and riparian buffers can help to improve water quality.

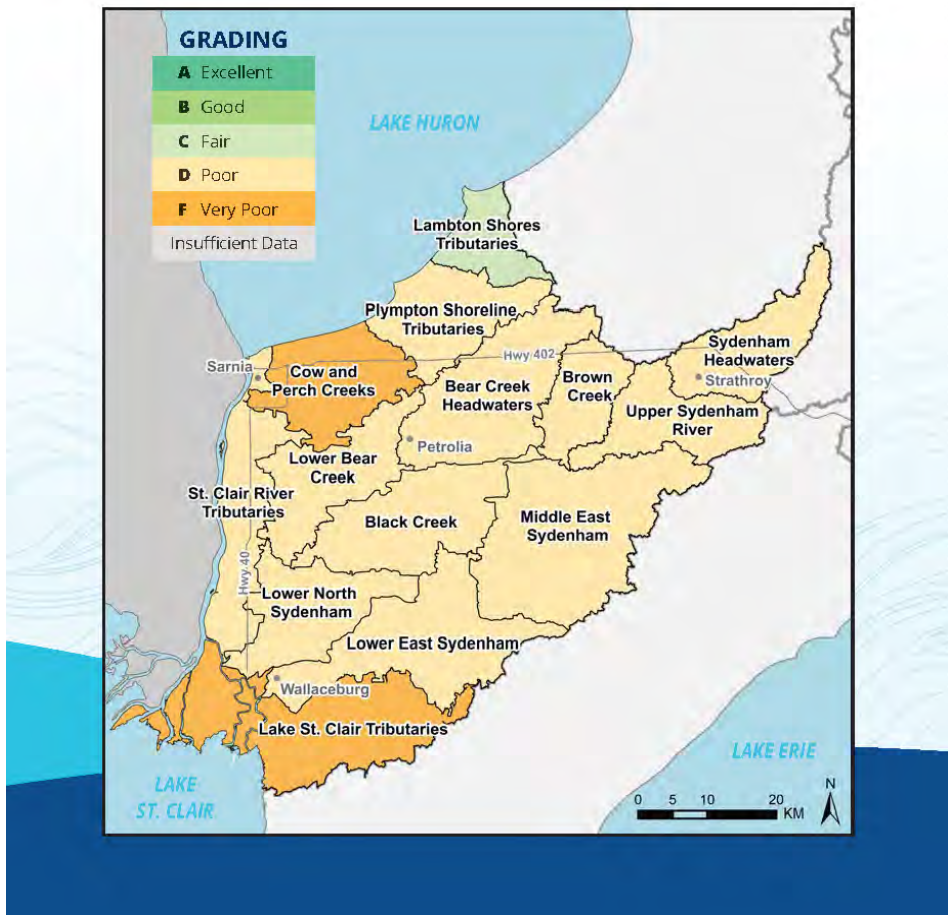


## FOREST CONDITIONS

*Geographic Information Systems (GIS) technology was used to assess forest conditions in the watershed. The three indicators included per cent forest cover, forest interior, and riparian cover (forest cover within 30m of a watercourse).*

### What Did we Find?

- Grades range from C to F, with mostly D grades.
- A lack of forest interior is a concern throughout the watershed. In many areas only small, fragmented woodlots exist that do not provide undisturbed areas for wildlife.
- Forests grow slowly, but environmental benefits begin as soon as trees are planted. Changes in forest cover are noticeable after a five year period.



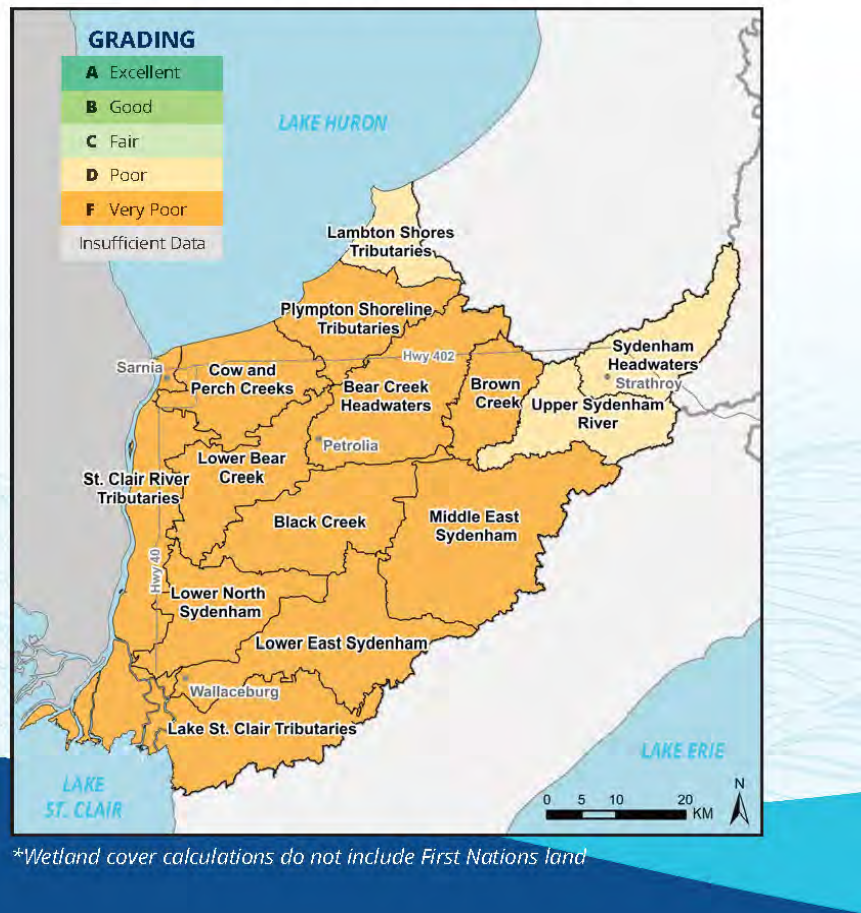
## WETLAND COVER

*Wetland conditions were graded based on the percentage of area that is identified as wetland using GIS technology.*

### What Did we Find?

- Grades vary from D to F, with mostly F grades.
- Only 0.1% of the St. Clair Region watershed is covered by wetlands. Wetlands reduce flooding and filter water. For a healthy watershed, Environment Canada recommends a minimum of 10% wetland cover.
- More wetlands are needed in strategic locations across sub watersheds. The Authority works with local landowners to create and restore wetland areas.

*For more details about the information found in these maps, visit [scrca.on.ca](http://scrca.on.ca) or contact us. You can find our contact information on the back panel.*





### **Non-point source pollution:**

- Comes from many sources
- Occurs when rain or snowmelt runs off fields, streets, or backyards
- Carries soil particles and pollutants to water bodies and groundwater

### **What actions could you take to reduce non-point source pollution?**

- Conserve and connect existing woodlands
- Create natural landscapes to filter stormwater
- Reduce amount of impervious surfaces and consider gravel or new permeable pavement options
- Control soil erosion through the use of grassed waterways, berms, cover crops, and crop residue
- Apply nutrients at rates and times that optimize crop uptake
- Dispose of chemicals properly through household hazardous waste days or drop-off locations
- See the back panel for more actions to reduce non-point source pollution

### **What local actions have been taken?**

- Public outreach events are held every year to increase awareness
- On average, 80,000 trees are planted and over 10 acres of wetland are restored in our region each year
- More than 850 landowner stewardship projects valued at over \$2.7 million have been completed through our Healthy Watersheds Program

## HOW CAN WE ENHANCE THE WATERSHED?

### What Can You Do?

- Plant native trees, shrubs, and wildflowers
- Retire and naturalize unproductive farmland
- Create wetlands to maintain water balance during wet and dry periods
- Reduce the amount of household chemicals you use and store such as antifreeze, paint, lawn chemicals, detergents, and cleaners
- Inspect and pump out your septic system every three to five years
- Restrict livestock from waterways
- Ensure manure storage facilities are adequate
- Decommission unused wells to prevent groundwater contamination



### What Can Your Community Do?

- Support ongoing improvements to municipal infrastructure
- Direct development away from areas of environmental significance
- Protect and enhance natural features including wetlands and woodlots
- Support local initiatives to monitor water quality and quantity
- Minimize use of road salt – salt (chloride) eventually washes into nearby waterways and can infiltrate groundwater
- Take actions to reduce carbon emissions

*Do you have questions not answered by this summary document? Visit [scrca.on.ca](http://scrca.on.ca) for the full report or contact us for more information:*



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**Phone:** 519-245-3710 | **Fax:** 519-245-3348

The Watershed Report Card is available online and in other formats upon request.

**Meeting Date:** April 19, 2018  
**Report Date:** April 4, 2018  
**Submitted by:** Greg Wilcox

**Item 11.4**

**Subject:** Biology Department Grant/Funding Update for 2018/19

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**Recommendation:**

That the Board of Directors acknowledges this report dated April 4, 2018 on the biology department's grant/funding update for 2018/19.

**Background:**

The Biology Department has had great success with grant proposals carrying into this year, with active grants currently totaling over **\$1,000,000** and a potential additional **\$1,185,000** from new applications in 2018/19.

**Financial Impact:**

Multi-year grants for 2018/19 include:

- A three year **\$160,300** grant from the Friends of the St. Clair River/Ontario Trillium Foundation to conduct aquatic inventories, restore aquatic habitat and for education and outreach.
- A three year **\$270,000** grant from Environment and Climate Change Canada for the "Sydenham River Healthy Watersheds Program – An Ecosystem Approach for Species at Risk."
- A two year **\$217,560** grant from Ontario Ministry of Agriculture, Food, and Rural Affairs for the "to restore, protect and conserve Great Lakes water quality and ecosystem health through Agriculture Outreach & Education"
- A two year **\$40,000** grant from Ontario Ministry of Agriculture, Food, and Rural Affairs for the "Healthy Lake Huron – Lambton Shores Clean Water, Clean Beaches Program"
- A three year **\$57,400** grant from Environment Canada and Climate Change for the "Healthy Watersheds Program – North Sydenham River Recovery."
- A three year **\$21,500** from Ontario Soil & Crop Improvement Association (Great Lakes Agriculture Stewardship Initiative) for Soil Health, Water Quality, and Pollinator Habitat Outreach and Education.

- A two year **\$18,074** grant from Environment and Climate Change Canada for the “North Sydenham Watershed Mussel Inventory”

As well, there were a number of one-year projects funded for 2018/19:

- **\$30,000** from the Ministry of Natural Resources and Forestry for the protection, evaluation and restoration of riparian wetlands.
- **\$23,378** from the Ministry of Environment and Climate Change (OCEF) for the “Sydenham Tree Planting and Baseline Health Assessment”
- **\$25,000** from the Ministry of Environment and Climate Change (Great Lakes Guardian Community Fund) for the “Sydenham River Recovery Program”
- **\$60,000** from Ministry of Environment and Climate Change for the “Healthy Lake Huron – Lambton Shores Clean Water, Clean Beaches Program”
- **\$10,000** from Environment and Climate Change Canada for the “Healthy Lake Huron – Lambton Shores Clean Water, Clean Beaches Program”
- **\$70,400** from Ministry of Natural Resources and Forestry Species at Risk Stewardship Fund for the “Sydenham River Habitat Stewardship Program”
- **\$20,000** from Ministry of Natural Resources and Forestry’s Land Stewardship and Habitat Restoration Program for Habitat Enhancement of the Hardy Creek Floodplain.

The following additional applications have been submitted to date for 2018/19 funding:

- **\$600,000** has been requested from Environment and Climate Change Canada (Great Lakes Protection Initiative – Preventing Toxic and Nuisance Algae Stream) for the “Reducing phosphorus loss through agricultural outreach & stewardship in Southwestern Ontario” (4 year proposal)
- **\$143,685** has been requested from the Ministry of Natural Resources and Forestry (Species at Risk Stewardship Fund) for the “Reptiles at Risk” Program (3 year proposal)
- **\$120,900** has been requested from Environment and Climate Change Canada (Great Lakes Protection Initiative – Citizen Science Stream) for the “St. Clair Region Farmers For Great Lakes Water Quality Science” (4 year proposal)
- **\$99,991** has been requested from Environment and Climate Change Canada (EcoAction) for the “St. Clair Region’s Freshwater Reach-ahead Program Pilot” (2 year proposal)

- **\$80,000** has been requested from the Canadian Agricultural Partnership for “reducing phosphorus loss through agricultural outreach and education” (18 month proposal)
- **\$60,000** has been requested from Ministry of Environment and Climate Change for the “Healthy Lake Huron – Lambton Shores Clean Water, Clean Beaches Program” (1 year proposal)
- **\$28,888** has been requested from Environment and Climate Change Canada (Habitat Stewardship Program – SAR Stream) for the “Barrier Removal on Bear Creek at Moore Habitat Management Area” (1 year proposal)
- **\$8,900** is requested annually from Fisheries and Oceans Canada for a contract to collect fisheries data (1 year proposal)
- **\$5,464** has been requested from TD Friends of the Environment Foundation for the “A.W. Campbell CA Pollinator Meadow” (1 year proposal)
- **\$7,050** has been requested from TD Friends of the Environment Foundation – TD Tree Days for Strathroy and Sarnia (1 year proposal)
- **\$30,858** has been requested from Canada Summer Jobs to fund three summer positions: A Biological Monitoring Assistant, and two Watershed Conservationists



**Meeting Date:** April 19, 2018  
**Report Date:** April 4, 2018  
**Submitted by:** Olivia Sroka

**Item 11.5**

**Subject:** Freshwater Mussel Research and Monitoring 2017

**Recommendation:**

That the Board of Directors acknowledges this report dated April 4, 2018 on mussel research and monitoring taking place throughout the Sydenham River watershed by SCRCA biology staff and other organizations.

**Background:**

Freshwater mussels play an extremely important role in the health of freshwater rivers and lakes. Buried beneath layers of sand they filter and clean water, are a source of food for many different species and most importantly, act as a “bioindicator” as their health has direct links to the overall health of the aquatic ecosystem. However, due to increased pollution, siltation, habitat loss and invasive species competition, many are listed as “at risk” in Ontario.

With at least 80 species of fish and 34 species of freshwater mussels historically found in the Sydenham River, it is one of the most species-rich watersheds in all of Canada – no other river in Canada has greater freshwater mussel diversity. With this knowledge, research and monitoring within this diverse system is an important action in protecting these degrading populations.

**SCRCA Projects - 2017:**

The Sydenham River is made up of two main branches, the East Branch and the North Branch. The East Branch has long been recognized as a hotspot for mussel diversity whereas the North Branch has often been overlooked and understudied. In order to work on closing these knowledge gaps, the SCRCA’s biology staff



Figure 1. SCRCA biology staff identifying collected mussel species

conducted 28 mussel surveys covering 14km of the North Branch in 2017 and plan to study another 14km in 2018.

This year alone, staff captured and processed 5,282 live mussels in addition to 3,040 old shells, thereby adding over 8,000 new data points to the North Branch of the Sydenham. Twenty species were observed including five Species at Risk. This important research project is being funded by the Ontario Trillium Foundation (OTF) and the Habitat Stewardship Program (HSP) for Species at Risk.

Table 1. 2017 North Sydenham Species List

2017 North Sydenham Species List	
Live	
Deertoe	Creek Heelsplitter
Fragile Papershell	Creeper
Giant Floater	Cylindrical Papershell
Lilliput	Fatmucket
Mapleleaf	Flutedshell
Paper Pondshell	White Heelsplitter
Wabash Pigtoe	Threeridge
Spike	Pink Heelsplitter
Round Pigtoe	Rainbow
Old Shells Only	
Slippershell	Salamander

In addition, the mussel relocation survival assessment phase of the 2016 Bear Creek barrier removal was conducted. The survey took place on July 31-August 1 and 296 live mussels were observed. Only one Species at Risk mussel (Mapleleaf mussel) was observed, however it was the most abundant species of those surveyed. A second survival survey will take place in 2018 to fulfill the permit requirements of the project.

### **2017 Canadian Freshwater Mollusc Research Meeting: November 8-9, 2017**

The second biennial Canadian Freshwater Mollusc Research Meeting was held in November at the Canada Centre for Inland Waters in Burlington, Ontario. The meeting was jointly hosted by Fisheries and Oceans Canada and the Ontario Ministry of Natural Resources and Forestry. This meeting was organized to bring together Canadian malacologists to share past, current, and ongoing research on freshwater molluscs. Topics of discussion included status and distribution, life history, conservation genetics, species at risk, threats, propagation activities, and outreach actions. With representation from the Pacific to the Atlantic, attendees came from federal departments, provincial/state agencies, academic institutions, environmental nongovernmental organizations, naturalist groups, zoos, museums, and interested citizens. SCRCA biologists attended the meeting and found it as a great environment for building relationships to promote future collaborations and research opportunities, as well as learn about other Freshwater Mussel research and initiatives taking place within other geographic regions.

### **The Sydenham River – An Important Piece to Mussel Research**

There are a number of organizations and researchers that travel to the Sydenham River to conduct research as it remains the most diverse mussel habitat in Ontario. Presented at the Canadian Freshwater Mollusc Research Meeting, three research projects listed below used the Sydenham River as a home base. Fisheries and Oceans and MNRF often invite SCRCA biologists to participate in mussel research projects when in SCRCA's watershed.

- **Exploring Ontario Nature's first riverine reserve: The Sydenham River Nature Reserve**

A group of biologists from the Department of Fisheries and Oceans has launched an inventory survey along a 2.5km stretch within the Sydenham River Nature Reserve. This specific reach has never been inventoried. After a three-day survey, a total of 1691 animals, representing 24 species, were observed, including seven Species at Risk (SAR). This survey provides a better understanding of reach variability as well as the freshwater mussel community throughout the river.

- **Selective feeding of freshwater mussels: implications for resource partitioning**

Researchers from the University of Guelph have been examining the feeding of three freshwater mussel species in the Sydenham River at Florence, ON in different flow conditions. The study showed that higher feeding was observed under flowing conditions across all the mussel species and that different mussel species were capable of selectively feeding on particular algal species.

- **Can Adaptive Cluster Sampling Improve Ontario Mussel Species at Risk Monitoring?**

Collaborations between MNRF and University of Trent studied simulation-based methods to evaluate whether adaptive clustering sampling could improve single-species monitoring. Data for eight mussel species (including three species at risk) collected from two sites (Rawdon Creek and Sydenham River) were used. It was determined in all cases that adaptive sampling was less accurate and efficient than simple random sampling or systematic sampling with random starts.

For more detailed explanations or to read about additional mussel research, please visit: <http://waves-vagues.dfo-mpo.gc.ca/Library/40663693.pdf>

**Conclusion:**

Mussel monitoring work conducted by SCRCA biology staff throughout the Sydenham watershed plays an important role in the overall research and knowledge of Ontario Freshwater Mussel populations. With the Sydenham River being the most diverse location in Ontario, current knowledge gaps should be filled in order to promote the best possible planning and management practices. SCRCA collects valuable baseline data that is contributing to closing these gaps and providing a greater understanding about species presence and distribution, especially Species at Risk. This data is valuable to a wide range of organizations including the Ministry of Natural Resources and Forestry and the Department of Fisheries and Oceans and will be used for various projects for years to come.



Figure 2. SCRCA technician works alongside MNRF staff to collect gravid (pregnant) mussels from the Sydenham for transport to hatchery for propagation. These mussels will then be returned.

**Meeting Date:** April 19, 2018  
**Report Date:** April 5, 2018  
**Submitted by:** Steve Shaw

**Item 12.1**

**Subject:** Conservation Services Spring Projects

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## Recommendation:

That the Board of Directors acknowledges the report summarizing conservation projects throughout the watershed this spring.

## Background:

### Stewardship Projects

- There were 12 projects funded by the Species at Risk Stewardship Fund (SARSF) for 2017- 2018. A total of \$31,500 from this program went toward funding riparian buffers, stream bank stabilization, wetland creation, upland habitat improvements, agricultural windbreaks and afforestation projects valued at more than \$168,000
- Construction for some projects began in February and March mainly for wetland creation. Most of the projects are expected to begin May 1st and be completed over the course of four to five weeks
- A new application for SARSF 2018 - 2019 was submitted to MNRF last fall. We received notification on April 5<sup>th</sup> that our proposal was not selected for funding for the 2018/19. SCRCA has received funding from this program since 2008, however the SARSF has changed some of their priority categories and competition for funding has increased. The review committee decided that the SCRCA proposal for stewardship projects was not strong enough to meet SAR recovery needs for priority species.



### Tree Planting Program

- Tree seedlings and shipping dates from supplying tree nurseries are operating approximately one to two weeks behind normal spring schedules this year.
- Nurseries don't expect to start lifting seedlings until the week of April 16<sup>th</sup> – 20<sup>th</sup> due to cold and wet conditions so far this spring.
- Trees are expected to arrive sometime around the 25<sup>th</sup> of April or later.

- SCRCA crews will be planting approximately 55,000 trees on 28 properties this spring.
- Another 5,500 trees will be distributed to an additional 40 landowners for planting.
- Two tractors will be rented and used to operate the two SCRCA owned mechanical tree planters. One hand planting crew will be required for planting difficult sites. Planting is expect to take place starting around the first week of May this year.
- Approximately 10 acres will be planted on Enbridge land at the Wilkesport site in St. Clair Township this spring. This will be the final year of an 8 year long project to “help reforest” Lambton County under a Naturalization Project they committed to in 2010 in partnership with SCRCA. Union Gas Limited will be subsidizing the cost of 4 of the 10 acres of this Enbridge project for compensation from a tree removal project in St. Clair Township in 2017
- Approximately 275,000 trees require spray maintenance this spring (under the 3 year vegetation control program) plus another 55,000 trees scheduled for planting this year. Two machine sprayers will start herbicide applications in April as soon as weather and site conditions permit.
- The 3 year tending work is paid in advance and carried forward each year to cover the cost of the labour and material.

## **Large Stock Trees**

- Approximately 850 large stock trees have been ordered for the spring
- Three municipalities are ordering trees this spring and two other municipalities are interested in a large stock tree program next year. The Municipality of Brooke-Alvinston is providing a financial incentive to its municipal property owners who purchase and plant trees on their property through this program.
- Trees range in size from a half metre tall for evergreen trees to 2.0 metres tall for the hardwood trees. Most of the trees are potted or in a dirt ball with burlap. Some species and oversized trees come in bare root form. The bare root trees are less expensive, however, they require much more protection when transporting and storing.

## **Managed Forest Tax Incentive Program (MFTIP)**

- Many forest property owners have recently been contacting SCRCA for assistance preparing a new plan or approving a renewed plan for the managed forest tax incentive program for the 2019 tax year.
- New plans must be approved by a plan approver and are due June 30<sup>th</sup>, 2018
- Plan renewals must also be approved by a plan approver and are due July 31<sup>st</sup>, 2018
- Minimum requirement for the program is 4 hectares of woodland exclusive of residence or non-forestry use structures
- Approved plans are sent to the MNRF and information is then sent to MPAC
- The MFTIP offers a reduction in property taxes to landowners of forested land who prepare a plan and agree to be good stewards of their property

**Meeting Date:** April 19, 2018  
**Report Date:** April 6, 2018  
**Submitted by:** Steve Shaw

**Item 12.2**

**Subject:** Conservation Services Larvicide Program

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## Recommendation:

That the Board of Directors acknowledges the report dated April 6, 2018 on the application of Larvicide to catch basins in Lambton County for the Control of West Nile Virus in 2018 and offer of services to the Municipality of Chatham-Kent

## West Nile Virus Program



- The County of Lambton operates a West Nile virus (WNV) program including a larvicide application program to control mosquito larva in catch basins. The Conservation Authority has been treating catch basins in all rural and urban areas in Lambton County, including the City of Sarnia since 2006 under direction from Lambton Public Health. SCRCA obtains permits each year from the Ministry of the Environment and trains, certifies and registers summer staff as pesticide technicians to treat catch basins with a mosquito larvicide product.
- Catch basins are treated with methoprene (mosquito larvicide) between July 1st and August 30<sup>th</sup> with 3 separate applications at 21-day intervals for mosquito control during the most vulnerable time of the year for transmitting the disease. Methoprene is a growth regulator that prevents the mosquito pupa from emerging as a biting adult mosquito. Approximately 65% of the Lambton County catch basins are located in the City of Sarnia.
- The three year contract for larvicide application between SCRCA and the County of Lambton ended in 2017 under the maximum extended contract term. SCRCA submitted a new price and treatment option plan to the County last month for a new three year contract term.
- A tender for a three year contract for larvicide application by the SCRCA was offered to the Municipality of Chatham-Kent this year and is currently being reviewed for consideration by County staff
- SCRCA staff also conduct efficacy tests in part with the treatment program by collecting mosquito pupa samples throughout the summer. Pupa are monitored for percent adult emergence. Past efficacy tests show an 80% average effectiveness at controlling mosquito emergence.

**Meeting Date:** April 19, 2018  
**Report Date:** April 6, 2018  
**Submitted by:** Steve Shaw

**Item 12.3**

**Subject:** Tree planting adjacent to open municipal drains

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## Recommendation:

That the Board of Directors approves the recommended revision to the SCRCA Private Tree Planting Agreement

## Background:

- Recently, an open ditch drain cleanout took place along the length of the drain where a landowner had planted trees and unfortunately, a large percentage of the trees were damaged in the process
- The landowner gave the cleanout contractor permission to work from his property as long as the contractor agreed to be careful not to damage the trees in the process
- The landowner later contacted SCRCA as well as the municipality to determine if the trees could be replaced
- The trees were planted as seedlings in 2009 as part of a Rural Lambton Stewardship Network (RLSN) habitat improvement project and fully funded by RLSN
- SCRCA was contracted by RLSN to plant the trees on the landowner's side of drain, which is where excavation equipment is normally used during a drain cleanout and where the spoil from the drain is normally placed
- An SCRCA tree planting agreement was still used even though it was a RLSN project
- The landowner was aware of the necessary permission requirements for planting trees along the property line but neglected to contact the municipality regarding the proposed tree planting along the drain
- Fortunately, this is a rare occurrence however; we need to avoid similar occurrences in the future.
- How can SCRCA effectively and efficiently work with landowners and their adjacent landowners to attain all tree planting objectives and ensure with funders that the projects are not only implemented but also successful in the long term?
- With these projects being carried out on private property, the landowner not only has the rights but also the responsibility for the works occurring on their property therefore, how can we ensure that the landowner obtains all necessary permissions and takes full responsibility for their project?
- The existing planting agreement requires landowners who wish to plant trees less than one metre from a neighbouring property must obtain the signature of the adjacent landowner under a statement permitting such encroachment within the property boundary. Should we also require a landowner to obtain permission from the



municipality, including a signature as well as the selection of material deposition or landowner paid disposal that would ensure that the property owner has discharged their responsibilities as a landowner in the preparation for a project to be carried out on their property?

- Therefore, staff propose to:
  - Revise the existing Private Landowner’s Tree Planting Agreement (below are excerpts from the agreement) to incorporate a clearer statement for planting along municipal drains
  - Add a statement outlining that when a landowner wishes to plant a row or more of trees along a municipal drain, the landowner agrees to have the spoil material from any future drain maintenance placed in another location and removed at the expense of the landowner
  - Incorporate a mandatory signature line where the municipality and/or municipal drainage superintendent and the landowner agree to the above method of future drain maintenance works should future maintenance risk damaging existing trees
  - A similar statement and signature line will be added for projects that are close to adjacent properties

*Example of proposed agreement modifications*

The LANDOWNER will:

15. Not cut, harvest or otherwise remove the trees from the planted area for a minimum of 15 years after planting unless for the purpose of plantation management.
16. Any projects, or portions thereof, where trees are to be planted in close proximity to property lines and/or municipal drains will require the landowner to obtain permission of the neighbour or the neighbouring user as part of the application process. The following table must be completed prior to SCRCA planting trees:

Neighbour or neighbouring user	I, the undersigned agree to permit the proponent to undertake the proposed planting plan on the condition outlined below:	Identify agreement with a check mark or not applicable
Name of the neighbouring landowner or Municipality: (written below)	That the trees will be planted less than one metre from or on the property boundary	<input type="checkbox"/> N/A
	That the trees will be planted _____ metres from the top of bank of the drain and the landowner agrees to have the spoil material from any future drain maintenance placed in another location and removed at the expense of the landowner	<input type="checkbox"/> N/A
Landowner	All trees will be planted within owned property	<input type="checkbox"/> N/A
Name: (written)		Signature:
Proponent:		Signature:



## Excerpt from existing landowner planting agreement....

The ST. CLAIR REGION CONSERVATION AUTHORITY will:

1. Provide the technical advice to the landowner to determine the number of trees to be planted, appropriate tree species, spacing to be used and any post planting problems which may arise.
2. Provide a sketch of the planting site.
3. Provide the necessary men and equipment to plant trees and apply herbicide at the price indicated on the tree planting plan summary.
8. **Not plant trees closer than one meter to a property boundary and/or municipal drain unless written permission has been obtained from the abutting landowner.**
9. Provide future vegetation management (one application of pre-emergent herbicide (per year) at the request and expense of the landowner.
10. Endeavour to inspect the planting at one-half, one and one-half and five and one-half years after planting and at other times requested by the landowner.

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AUTHORITIES REPRESENTATIVE

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DATE

**NOTICE TO APPLICANT**  
Pursuant to Bill 49, The Municipal Freedom of  
Information and Protection of Privacy Act, 1989

**LEGAL AUTHORITY TO COLLECT INFORMATION**

Conservation Authorities act, R.S.O. 1980

**Principal purpose for which personal information is intended to be used:**

the information collected on this document will be used for

- a) processing your application and administering the reforestation programs for current and future
- b) producing reforestation program summaries and reports for internal use and public distribution
- c) future mailing and distribution of information about SCRCA services

The Authority Officer who can answer questions about the collection is the General Manager. As the applicant I confirm that I have read and agree to the principal purposes for which the personal information is intended to be used. I also agree to abide by the regulations and conditions of the Tree Planting Agreement as set forth by the St. Clair Region Conservation Authority.

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LANDOWNER SIGNATURE

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DATE

**Meeting Date:** April 19, 2018 **Item 13.1**  
**Report Date:** April 4, 2018  
**Submitted by:** Dallas Cundick, Environmental Planner/ Regulations Officer  
 Melissa Deisley, Regulations Officer  
**Subject:** Regulations Summary Report

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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 February 1, 2018 to March 31, 2018

### Regulations Permits:

<b>Application No:</b>	R#2018-018	<b>Municipality:</b>	St. Clair
<b>Subject Property:</b>	Old River Road, Part 3, Plan 25R7404		
<b>Proposal:</b>	New Single Family Dwelling		
<b>Submission Complete By:</b>	3/2/2018	<b>Permit Issued:</b>	3/29/2018
		<b>Days:</b>	27

<b>Application No:</b>	R#2018-016	<b>Municipality:</b>	St. Clair
<b>Subject Property:</b>	817 St. Clair Parkway		
<b>Proposal:</b>	Addition/Renovation to Existing Dwelling		
<b>Submission Complete By:</b>	3/2/2018	<b>Permit Issued:</b>	3/28/2018
		<b>Days:</b>	26

<b>Application No:</b>	R#2018-012	<b>Municipality:</b>	Chatham-Kent
<b>Subject Property:</b>	Lindsay Road, 820m North of Pioneer Line		
<b>Proposal:</b>	Culvert Replacement		
<b>Submission Complete By:</b>	3/22/2018	<b>Permit Issued:</b>	3/22/2018
		<b>Days:</b>	1

<b>Application No:</b>	R#2018-009	<b>Municipality:</b>	Strathroy-Caradoc
<b>Subject Property:</b>	6774 Calvert Drive		
<b>Proposal:</b>	Horizontal Directional Drill under Ysebert Drain		
<b>Submission Complete By:</b>	3/16/2018	<b>Permit Issued:</b>	3/21/2018
		<b>Days:</b>	5

<b>Application No:</b>	R#2018-008	<b>Municipality:</b>	Strathroy-Caradoc
<b>Subject Property:</b>	6939 Calvert Drive		
<b>Proposal:</b>	Horizontal Directional Drill under Ysebert Drain		
<b>Submission Complete By:</b>	3/16/2018	<b>Permit Issued:</b>	3/21/2018
		<b>Days:</b>	5

<b>Application No:</b>	R#2018-007	<b>Municipality:</b>	Strathroy-Caradoc
<b>Subject Property:</b>	7162 Calvert Drive		
<b>Proposal:</b>	Horizontal Directional Drill under Campbell Drain		
<b>Submission Complete By:</b>	3/16/2018	<b>Permit Issued:</b>	3/21/2018
		<b>Days:</b>	5

<b>Application No:</b>	R#2018-006	<b>Municipality:</b>	Point Edward
<b>Subject Property:</b>	1220 Fort Street		
<b>Proposal:</b>	2018 Dredging Permit		
<b>Submission Complete By:</b>	2/20/2018	<b>Permit Issued:</b>	3/21/2018
		<b>Days:</b>	29

<b>Application No:</b>	R#2018-002	<b>Municipality:</b>	Chatham-Kent
<b>Subject Property:</b>	8902 Bush Line		
<b>Proposal:</b>	Install New 6 inch Steel Main via HDD		
<b>Submission Complete By:</b>	3/15/2018	<b>Permit Issued:</b>	3/15/2018
		<b>Days:</b>	1

<b>Application No:</b>	FA#2018-015	<b>Municipality:</b>	Lambton Shores
<b>Subject Property:</b>	42 MacHenry Street		
<b>Proposal:</b>	Remediation of Back Yard (Landscaping)		
<b>Submission Complete By:</b>	3/13/2018	<b>Permit Issued:</b>	3/13/2018
		<b>Days:</b>	1

<b>Application No:</b>	FA#2018-014	<b>Municipality:</b>	St. Clair
<b>Subject Property:</b>	4555 St. Clair Parkway		
<b>Proposal:</b>	Repair/Replace Existing Seawall along Brander Park		
<b>Submission Complete By:</b>	3/7/2018	<b>Permit Issued:</b>	3/12/2018
		<b>Days:</b>	5

<b>Application No:</b>	FA#2018-006	<b>Municipality:</b>	Plympton-Wyoming
<b>Subject Property:</b>	3260 Devonshire Road		
<b>Proposal:</b>	Groyne Construction and Mitigation Measures		
<b>Submission Complete By:</b>	2/1/2018	<b>Permit Issued:</b>	2/14/2018
		<b>Days:</b>	13

<b>Application No:</b>	FA#2018-013	<b>Municipality:</b>	Chatham-Kent
<b>Subject Property:</b>	Pond Road Bridge over East Otter Creek		
<b>Proposal:</b>	Bridge Rehabilitation		
<b>Submission Complete By:</b>	3/6/2018	<b>Permit Issued:</b>	3/6/2018
		<b>Days:</b>	1

<b>Application No:</b>	FA#2018-009	<b>Municipality:</b>	Plympton-Wyoming
<b>Subject Property:</b>	3544 Queen Street		
<b>Proposal:</b>	Construct New Dwelling		
<b>Submission Complete By:</b>	2/6/2018	<b>Permit Issued:</b>	2/16/2018
		<b>Days:</b>	10

<b>Application No:</b>	FA#2018-011	<b>Municipality:</b>	St. Clair
<b>Subject Property:</b>	1417 Moore Line		
<b>Proposal:</b>	Construction of an Addition		
<b>Submission Complete By:</b>	1/26/2018	<b>Permit Issued:</b>	2/26/2018
		<b>Days:</b>	31

<b>Application No:</b>	FA#2018-008	<b>Municipality:</b>	Lambton Shores
<b>Subject Property:</b>	5486 Beach Street		
<b>Proposal:</b>	Garage Addition		
<b>Submission Complete By:</b>	1/30/2018	<b>Permit Issued:</b>	2/16/2018
		<b>Days:</b>	17

<b>Application No:</b>	FA#2018-005	<b>Municipality:</b>	Lambton Shores
<b>Subject Property:</b>	6430 West Parkway Drive		
<b>Proposal:</b>	Construct New Dwelling		
<b>Submission Complete By:</b>	1/25/2018	<b>Permit Issued:</b>	2/9/2018
		<b>Days:</b>	15

<b>Application No:</b>	FA#2018-007	<b>Municipality:</b>	Sarnia
<b>Subject Property:</b>	782 Tudor Close West		
<b>Proposal:</b>	Shoreline Protection Improvements		
<b>Submission Complete By:</b>	2/28/2018	<b>Permit Issued:</b>	3/1/2018
		<b>Days:</b>	1

<b>Application No:</b>	FA#2018-010	<b>Municipality:</b>	Dawn-Euphemia
<b>Subject Property:</b>	3332 Bentpath Line		
<b>Proposal:</b>	Expansion of Dawn H Compressor Station Cleanup		
<b>Submission Complete By:</b>	1/29/2018	<b>Permit Issued:</b>	2/22/2018
		<b>Days:</b>	24

<b>Application No:</b>	FA#2018-004	<b>Municipality:</b>	Sarnia
<b>Subject Property:</b>	790 Tudor Close West		
<b>Proposal:</b>	Shoreline Protection Improvements		
<b>Submission Complete By:</b>	2/1/2018	<b>Permit Issued:</b>	3/1/2018
		<b>Days:</b>	28

**Total No. of Applications: 19      Average No. of Days to Issue Permit: 13**

Permit Review Timelines are outlined in the document “*Policies and Procedures for Conservation Authority Plan Review and Permitting Activities*” Final Version May 2010, completed by the Conservation Authority Liaison Committee (CALC). In the document it states;

- CAs are to make a decision (i.e. recommendation to approve or referred to a Hearing) with respect to a permission (permit) application and pursuant to the CA Act within 30 days for a minor application and 90 days for a major application.

### Regulations Inquiries:

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<b>File Reference:</b>	R#2018-005Q	<b>Municipality:</b>	Brooke-Alvinston
<b>Subject Property:</b>	6684 Oil Springs Line	<b>Date:</b>	3/21/2018

<b>File Reference:</b>	R#2018-003Q	<b>Municipality:</b>	Plympton-Wyoming
<b>Subject Property:</b>	8 Vacant lots on Augusta Street	<b>Date:</b>	3/16/2018

<b>File Reference:</b>	R#2018-001Q	<b>Municipality:</b>	Strathroy-Caradoc
<b>Subject Property:</b>	250 Joel Court	<b>Date:</b>	3/14/2018

<b>File Reference:</b>	F#2018	<b>Municipality:</b>	Sarnia
<b>Subject Property:</b>	1010 Plank Road	<b>Date:</b>	3/7/2018

<b>File Reference:</b>	F#2018	<b>Municipality:</b>	Southwest Middlesex
<b>Subject Property:</b>	Century Dr and Springfield Road	<b>Date:</b>	2/2/2018

<b>File Reference:</b>	F#2018	<b>Municipality:</b>	Lambton Shores
<b>Subject Property:</b>	6991 Lakeshore Road	<b>Date:</b>	2/15/2018

<b>File Reference:</b>	F#2018	<b>Municipality:</b>	Lambton Shores
<b>Subject Property:</b>	5428 Oak Aveue	<b>Date:</b>	1/26/2018

<b>File Reference:</b>	F#2018	<b>Municipality:</b>	Lambton Shores
<b>Subject Property:</b>	6218 Juniper Lane	<b>Date:</b>	1/26/2018

<b>File Reference:</b>	F#2018	<b>Municipality:</b>	Brooke-Alvinston
<b>Subject Property:</b>	6246 Shiloh Line	<b>Date:</b>	3/1/2018

<b>File Reference:</b>	F#2018	<b>Municipality:</b>	Sarnia
<b>Subject Property:</b>	2873 Churchill Line	<b>Date:</b>	2/15/2018

<b>File Reference:</b>	F#2017	<b>Municipality:</b>	Middlesex Centre
<b>Subject Property:</b>	10027 Ilderton Road	<b>Date:</b>	11/14/2017

<b>File Reference:</b>	F#2018	<b>Municipality:</b>	Warwick
<b>Subject Property:</b>	5896 First School Road	<b>Date:</b>	2/22/2018

**Violations:**

<b>File Reference:</b>	FV#201710	<b>Municipality:</b>	Chatham-Kent
<b>Subject Property:</b>	Lot 14, Con 11, Zone		
<b>Proposal:</b>	Wetland Clearing		
<b>Notice of Violation Issued:</b>	3/22/2018		

<b>File Reference:</b>	FV#201610	<b>Municipality:</b>	Plympton-Wyoming
<b>Subject Property:</b>	Lot 39, Con Front, Plympton		
<b>Proposal:</b>	Unauthorized Shoreline Protection Works		
<b>Update:</b>	<p>Correspondence being sent confirming action required by end of May 2018 to remedy the violation;</p> <p>If violation is not remedied SCRCA staff to discuss with SCRCA Solicitor on proceeding with charges;</p> <p>Cost estimate to proceed with charges has been requested;</p> <p>SCRCA staff are reviewing cost recovery options;</p>		

**Meeting Date:** April 19, 2018 **Item 13.2**  
**Report Date:** April 4, 2018  
**Submitted by:** Patricia Hayman, Director of Planning  
 Erica Ogden, Planner  
**Subject:** Planning Activity Summary – January 1, 2018 to March 31, 2018

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A summary of staff activity related to Municipal Plan Input and Review is presented below. This report covers the period from January 1, 2018 to March 31, 2018

## File Summary

### **Adelaide-Metcalf**

File Reference:	PL#2018-011	Municipal Reference:	SEV B02-2018
Property Location:	6259 Calvert Drive		

### **Dawn-Euphemia**

File Reference:	PL#2018-008	Municipal Reference:	SEV B001-18
Property Location:	5176 Lambton Line		

File Reference:	PL#2018-009	Municipal Reference:	SEV B002-18
Property Location:	1992 Hale School Road		

### **Enniskillen**

File Reference:	PL#2018-001	Municipal Reference:	OPA & ZBA
Property Location:	Municipality Wide		

### **Middlesex Centre**

File Reference:	PL#2018-023	Municipal Reference:	SUB
Property Location:	Poplar Woods Development		

File Reference:	PL#2018-024	Municipal Reference:	SUB
Property Location:	10036 Ilderton Road		

### **Plympton-Wyoming**

File Reference:	PL#2018-003	Municipal Reference:	VAR A-04/18
Property Location:	3718 Beverly Glen		

File Reference:	PL#2018-004	Municipal Reference:	VAR A-05/18
Property Location:	Ivy Lane		

File Reference:	PL#2018-007	Municipal Reference:	OPA#46
Property Location:	3476 Lakeshore Road		

## Plympton-Wyoming Continued

File Reference:	PL#2018-020	Municipal Reference:	GI
Property Location:	Bluepoint Condo		

File Reference:	PL#2018-022	Municipal Reference:	SUB
Property Location:	Ferne Avenue & Queen Street		

## Point Edward

File Reference:	PL#2018-025	Municipal Reference:	SUB
Property Location:	1400 Venetian Boulevard		

## Sarnia

File Reference:	PL#2018-010	Municipal Reference:	VAR A6/2018
Property Location:	1724 Lakeshore Road		

File Reference:	PL#2018-014	Municipal Reference:	OPA /SUB
Property Location:	834 Lakeshore Road		

File Reference:	PL#2018-021	Municipal Reference:	SPA
Property Location:	1525 Modeland/ Berger		

## St. Clair

File Reference:	PL#2018-002	Municipal Reference:	SEV B01-18
Property Location:	364 Moore Line		

File Reference:	PL#2018-006	Municipal Reference:	VAR A-02-18
Property Location:	4444 St.Clair Parkway		

## Strathroy-Caradoc

File Reference:	PL#2018-005	Municipal Reference:	SEV B1/18
Property Location:	Wright Street		

File Reference:	PL#2018-017	Municipal Reference:	SUB 39T-SC1704
Property Location:	22828 Rougham Road		

File Reference:	PL#2018-026	Municipal Reference:	SUB 39T-SC1303
Property Location:	Thorn Drive		

## Reference Codes

- GI General Inquiry
- OPA Official Plan Amendment
- SEV Severance
- SPA Site Plan Approval
- SUB Subdivision
- VAR Variance
- ZBA Zoning By-law Amendment

## Meetings

### January

Date	Details
17	Bluewater Subdivision Meeting, Town of Plympton-Wyoming, Erica Ogden & Sarah Hodgkiss
26	Enniskillen planning comments, SCRCA GM and Planning staff, Duncan McTavish, William Nywening
26	Conference call re Sarnia Sifton and Berger/Modeland developments, Tammie Ryall, Patty Hayman
31	Pre-consultation Meeting, Point Edward, Erica Ogden

### February

Date	Details
7	Poplar Woods Subdivision Meeting, Middlesex Centre, Erica Ogden, Sarah Hodgkiss, Linda Nicks
7	Level 2 training for CA Provincial Offences Officers, Dallas Cundick
8	1724 Lakeshore Road Pre-consultation Meeting, Sarnia, Erica Ogden, Melissa Deisley
13	Level 2 training for CA Provincial Offences Officers, Dallas Cundick
21	Supervisors Training re Respectful Workplace webinar – Patty Hayman et al
21	Draft Watershed Planning Guidance Webinar – Sarah Hodgkiss, Erica Ogden
23	CA Planning Ecologists meeting – Sarah Hodgkiss

### March

Date	Details
5	Conference call re Sarnia Berger Modeland consultant, Patty Hayman
7	10036 Ilderton Road Pre-consultation Meeting, Middlesex Centre, Erica Ogden
9	LPAT Bill 139 London, Dallas Cundick and Erica Ogden
16	Conference call re SMP with Baird, Patty Hayman
19	834 Lakeshore Road Meeting, Sarnia, Erica Ogden, Sarah Hodgkiss
21	LPAT Primer webinar, GM, Planners
27	Level 2 training for CA Provincial Offences Officers, Dallas Cundick



**Meeting Date:** April 19, 2018  
**Report Date:** March 22, 2018  
**Submitted by:** Kelli Smith

**Item 13.3**

**Subject:** Drainage Act and Conservation Authorities Act Protocol (DART)  
 Completed Files

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**Recommendation:**

That the board acknowledges and concurs with the October 2017 to March 2018 municipal drain activity report associated with the Drainage Act and Conservation Authorities Act Protocol (DART)

**Background:**

**SCRCA DART FILES**

**2017 OCTOBER**

<b>FHR #</b>	<b>Municipality</b>	<b>Geographic Township</b>	<b>Drain Name</b>	<b>Project Description</b>	<b>SCRs Issued</b>
2829	Chatham-Kent	Chatham	Cameron Drain	Bottom cleanout, brushing bank slope	2
2823	Chatham-Kent	Dover	Hyatt Outlet Drain	Bottom cleanout, brushing bank slope, culvert replacement	3
2825	Chatham-Kent	Dover	Henderson Hebert Drain	Bottom cleanout, brushing bank slope	2
2826	Southwest Middlesex	Ekfrid	John McLachlin Drain	Full cleanout, culvert replacement	2
2827	Southwest Middlesex	Ekfrid	Black Branch of Morrow Drain	Full cleanout	1
2828	Southwest Middlesex	Mosa	Peter Mitchell Drain	Spot cleanout, brushing bank slope, brushing top of bank, debris removal	4

**SCRCA DART FILES****2017 NOVEMBER**

<b>FHR #</b>	<b>Municipality</b>	<b>Geographic Township</b>	<b>Drain name</b>	<b>Project Description</b>	<b>SCRs Issued</b>
2841	Enniskillen	Enniskillen	Marthaville Drain	Bottom cleanout brushing bank slope	2
2834	Plympton-Wyoming	Plympton	Waddell Drain	Bottom cleanout	1
2835	Plympton-Wyoming	Plympton	Paul Park Drain	Brushing bank slope, bottom cleanout	2
2836	Southwest Middlesex	Ekfrid	White Drain	Full cleanout	1
2838	Southwest Middlesex	Ekfrid	McKellar Drain	Brushing bank slope, brushing top of bank	2
2833	Southwest Middlesex	Mosa	Black Branch of Morrow Drain	Beaver dam removal	1
2837	Southwest Middlesex	Mosa	Burchell-Sutherland Drain	Brushing top of bank, brushing bank slope	2
2839	Southwest Middlesex	Mosa	Stocking Drain	Brushing top of bank, bottom only cleanout plus one bank slope	2

**SCRCA DART FILES****2018 JANUARY**

<b>FHR #</b>	<b>Municipality</b>	<b>Geographic Township</b>	<b>Drain name</b>	<b>Project Description</b>	<b>SCRs Issued</b>
2747	Chatham-Kent	Chatham	Otter Creek Drain	Brushing bank slope	1
2846	Chatham-Kent	Zone	Dankey Creek	Bottom only cleanout, brushing bank slope	2

**SCRCA DART FILES****2018 FEBRUARY**

<b>FHR #</b>	<b>Municipality</b>	<b>Geographic Township</b>	<b>Drain name</b>	<b>Project Description</b>	<b>SCRs Issued</b>
2859	Chatham-Kent	Zone	McIntyre Drain	Brushing bank slope, brushing top of bank	2
2847	St. Clair	Moore	Burton Creek Drain	Spot cleanout, debris removal	2

**SCRCA DART FILES****2018 MARCH**

<b>FHR #</b>	<b>Municipality</b>	<b>Geographic Township</b>	<b>Drain name</b>	<b>Project Description</b>	<b>SCRs Issued</b>
2862	Chatham-Kent	Chatham	Boynton Drain	Brushing bank slope, bottom only cleanout	2
2863	Enniskillen	Enniskillen	Bradley Drain	Spot cleanout	1

**Meeting Date:** April 19, 2018  
**Report Date:** April 3, 2018  
**Submitted by:** Patty Hayman

**Item 13.4**

**Subject:** Lake Huron Shoreline Management Plan update – Reach 5 (Murphy Rd) and Reach 36/37 Dynamic Beach (West Ipperwash)

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**Recommendation:**

That the Board of Directors approves the update on Lake Lake Huron Shoreline Management Plan (SMP) Reaches 5 and 36/37 Dynamic Beach studies, which reduces the default dynamic beach limit based on sound coastal engineering modelling and principles. Accordingly, updates be made to SCRCA documents (ie SMP) for consistency purposes.

**Background:**

The Lake Huron Shoreline Management Plan was approved by the Board of Directors in 2015.

In 2016/17, SCRCA retained W.F. Baird and Associates, Coastal Engineering to undertake the above noted dynamic beach studies. Numerous updates on the studies were forwarded to the Board of Directors in 2016 and 2017. In 2016 public open houses were held and in 2017 further consultation on the West Ipperwash study was necessary due to the complex issues in this Reach.

These studies are included as additional references in the Directors Board Package and on the Director Access website.

Revisions to the SMP are summarized in the Preface Section to the SMP. A track changes document citing full revisions of the full SMP is available on the Directors Access page on the Authority website. A complete hard copy of the SMP (142 pages) was provided in December 2015.

**Strategic Objectives(s):**

**Meets Goal 1 and Strategic Action 1 of SCRCA Strategic Plan**

**Study Findings:**

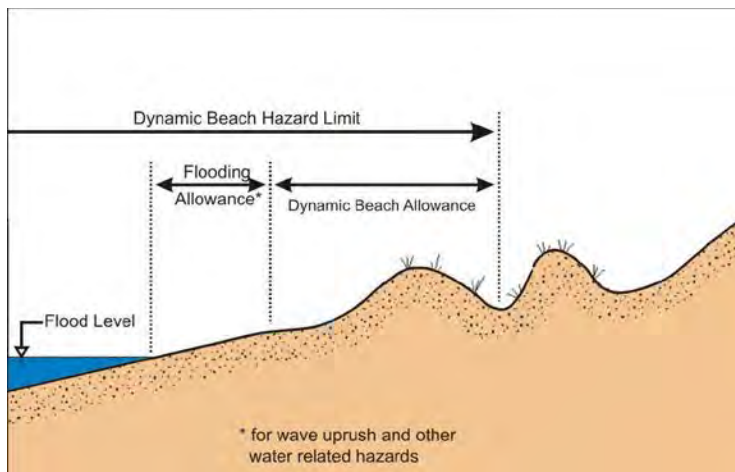
As the dynamic nature of the beach was unknown at the time of historic development, a well defined building line was established on a beach deposit. The 2010 provincial dynamic beach default limit extended beyond the development line. The nature of the beach in the vicinity of the development had also been impacted.

Based on the results of the assessments, Baird and Associates recommended that the dynamic beach hazard limit could be reduced. This was based on sound coastal engineering modelling and principles and is outlined extensively in the individual

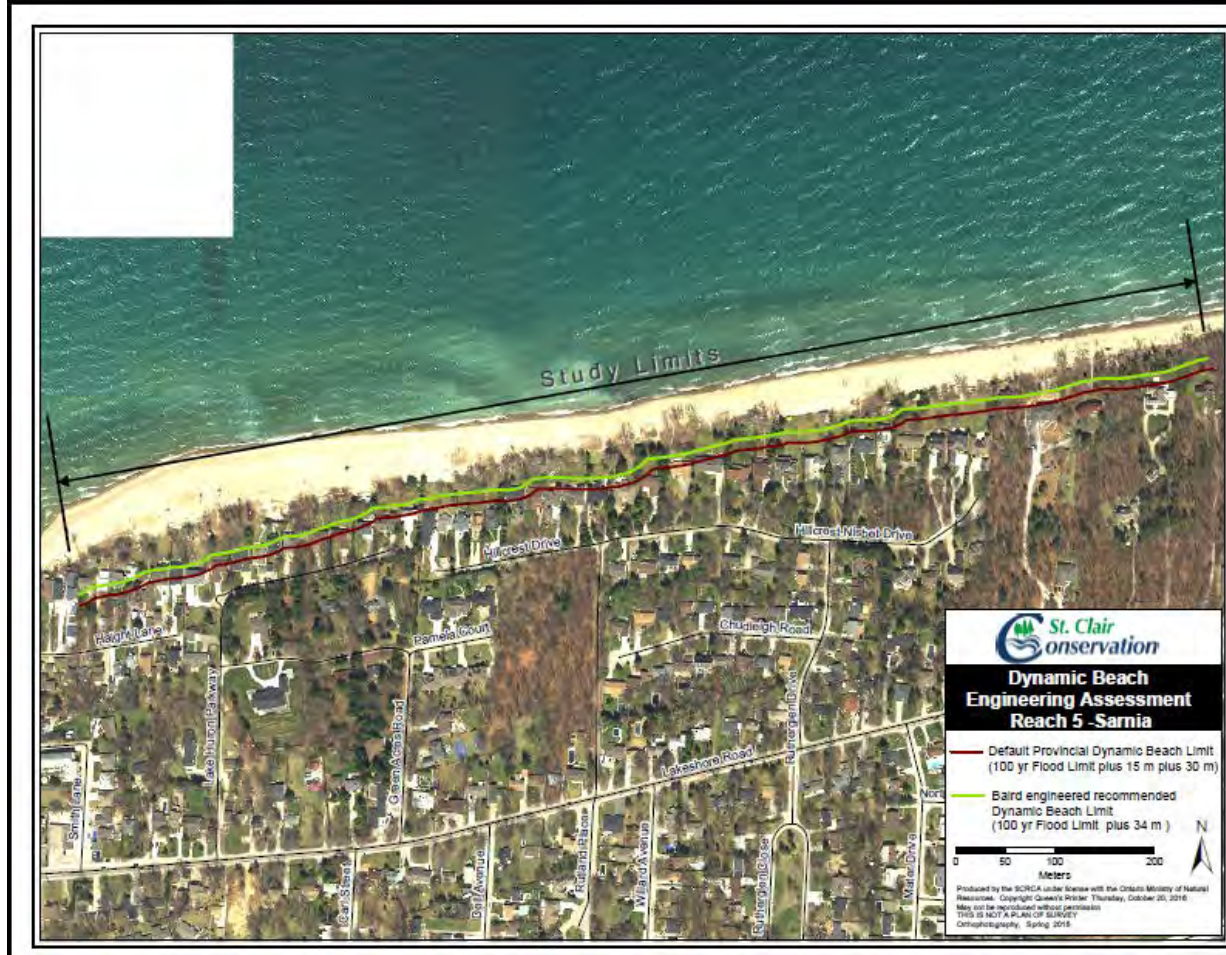
reports. No objections were received on the recommendation of a reduced hazard limit as presented. The consultation process was a beneficial exercise as best management practices were discussed thoroughly with expertise from a well respected coastal engineering firm. Residents and the KSPFN community were appreciative of the expertise and opportunity to discuss issues with the consultant and SCRCA Planning and Regulations staff.

## Financial Impact:

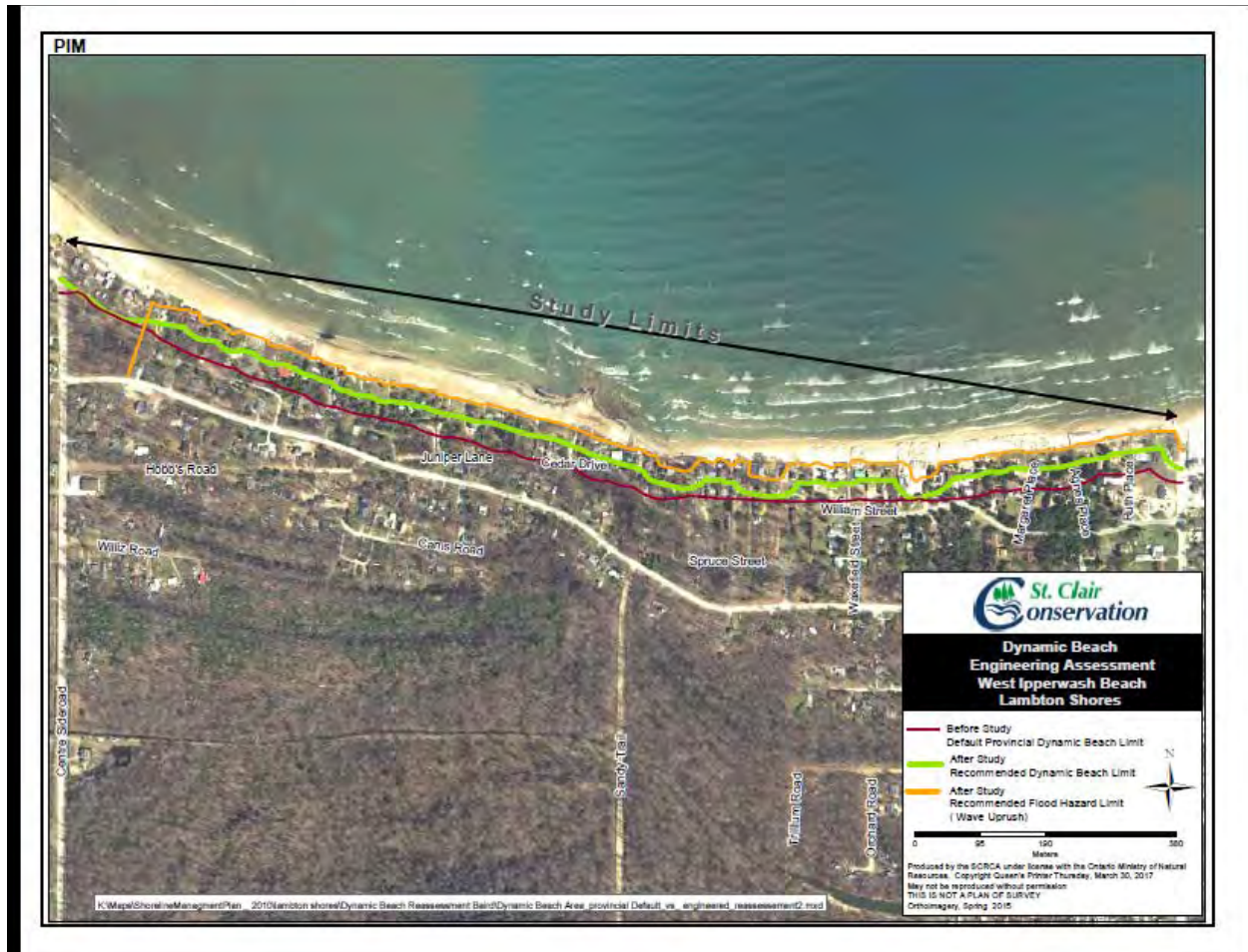
The individual technical studies financial arrangements were previously approved with grants and special benefitting municipalities sharing costs. No financial impact to SCRCA for changes to documents. Changes done in house and is a Regulatory requirement. Positive financial impact for individual residents as options for redevelopment on parcels were extremely limiting; particularly West Ipperwash.



MNRF Provincial Dynamic Beach diagram from Technical guidelines



Reach 5 (Murphy Beach, Sarnia) Dynamic Beach limit - Before and after study



Reach 36/37 (West Upperwash Beach, Lambton Shores) Dynamic Beach limit - Before and after study

## Preface to SCRCA Lake Huron Shoreline Management Plan

These explanatory notes describe proposed 2018 amendments to the St. Clair Region Conservation Authority Lake Huron Shoreline Management Plan. The chart below identifies whether the amendment is a i) housekeeping change or ii) technical change identified through a study and subject to a formal public review process.

H- Housekeeping, T- Technical

BA – Baird and Associates Coastal Engineers

CA – St. Clair Region Conservation Authority

Amendment	Type	Page	Source
The Provincial Policy Statement (PPS) (MMAH, <del>April 30, 2014</del> <sup>March 1, 2014</sup> ) was issued under the Planning Act. It replaces the PPS issued <del>March 1, 2005 y 22, 1996</del> and amended <del>May 22, 1996. February 1, 1997.</del>	H	1	CA
The PPS (2014 <del>05</del> )	H	2	CA
SMP, Section 1 Introduction  <u>On December 12, 2017, Bill 139 Building Better Communities and Conserving Watersheds Act, 2017 received Royal Assent. Bill 139 enacted the Local Planning Appeal Tribunal Act, the Local Planning Appeal Support Centre and amended the Planning Act, the Conservation Authorities Act and various other Acts. Changes to the Conservation Authorities Act strengthened oversight and accountability, increased clarity and consistency in Conservation Authority programs and services, improved collaboration and engagement, modernized funding mechanisms and increased clarity and consistency in regulatory requirements. The Regulatory requirements refer to Section 28 under the Conservation Authorities Act “Development, Interference with Wetlands and Alterations to Shorelines and Watercourses” Regulation. In 1998, the Conservation Authorities Act was amended as part of the Red Tape Reduction Act (Bill 25), to ensure that Regulations under the Act were consistent across the province and complementary to provincial policies. Significant changes were made to Section 28, which led to the replacement of the “Fill, Construction and Alteration to Waterways” Regulations with the current “Development,</u>	H	2	CA



Amendment	Type	Page	Source
<p><del>Interference with Wetlands and Alterations to Shorelines and Watercourses” Regulation (MNR/CO, 2008).</del></p>			
<p>SMP Section 4.4.2 Identifying Dynamic Beaches</p> <p>Reach 5 Murphy Beach (<u>Lake Huron Parkway to Hillcrest Drive to Nesbit Drive, Sarnia</u>)</p> <p><u>The 2010 provincial dynamic beach “default” limit extended beyond a well defined existing building line. In 2016, Baird &amp; Associates completed a dynamic beach assessment for this Reach to carry out a more area specific analysis to assess and potentially reduce the hazard limit. The study involved: assembling and reviewing existing data, a site reconnaissance, beach profile survey, beach sediment grain size analysis, numerically modelling (COSMOS) cross shore processes on the nearshore profiles, and examining and assessing the response to storm events. Based on the results of the assessment, Baird and Associates recommended that the dynamic beach hazard limit could be reduced in Reach 5. General recommendations included maintaining existing vegetation, regenerating additional native vegetation and encouraging dune development. It was also recommended that the natural dune height be maintained where it is undisturbed and controlled access be provided (dune walkovers). The slope of the lakeward side of the dune should be 1:5 (vertical: horizontal) or flatter. The full report is available at <a href="#">www.</a></u></p>	T	30	BA
<p>Reach 36 to 37/38 (Lambton Shores)</p> <p>Reaches 36/37 <u>West Ipperwash Beach</u></p> <ul style="list-style-type: none"> <li><u>In 2017, Baird &amp; Associates completed a dynamic beach assessment for Reaches 36 and 37. The purpose of the study was to carry out a site specific analysis using accepted scientific and engineering principles, to assess the hazard limit. The study involved: assembling and reviewing existing data, a site reconnaissance (Unoccupied Aerial</u></li> </ul>	T	31	BA

Amendment	Type	Page	Source
<p><a href="#">Vehicle</a>), <a href="#">beach profile surveys</a>, <a href="#">beach sediment grain size analysis</a>, <a href="#">numerically modelling (COSMOS) cross shore processes on the nearshore profile</a>, <a href="#">an assessment of shore protection and development of a Best Management Practices brochure</a>. <a href="#">A recommended dynamic beach hazard limit was mapped</a>. <a href="#">It was noted that the recommended dynamic beach hazard limit is the minimum allowance in accordance with the provisions of the Provincial Policy Statement and supporting Technical Guide</a>. <a href="#">Baird &amp; Associates assessed the effectiveness of the existing seawalls within these reaches and found many susceptible to overtopping and not sufficient to reduce flooding and erosion of the beach</a>. <a href="#">A beach offers natural protection against flood and erosion and dunes absorb wave energy during large storms protecting inland areas</a>. <a href="#">The construction of seawalls prevents the beach from behaving dynamically and restricts the natural beach response</a>. <a href="#">Seawall construction in the dynamic beach is detrimental and not recommended</a>. <a href="#">The study further recommends that where the natural dune height has been lowered, the dune should be restored with native or comparable sand and beach access should be controlled to minimize disturbance to the dune profile and vegetation</a>. <a href="#">The full report is available at <a href="#">www</a></a>.</p>			
Table 6.1 revisions based on Dynamic Beach Studies for Reach 5 and 36/37	T	55	CA based on BA study
Consultation carried out for Reach 5	H	57	CA
Consultation carried out for Reach 36/37	H	58	CA
Section 9.0 References Section – added Reach 5 and 36/37 Beach study references	H	71	CA
Appendix B Shoreline Reach Descriptions for Reach 5 and 36/37 and revisions to SCRCA Hazard Mapping	T	n/a	CA based on BA study/engineered maps
Appendix C Addition of public open house comments for Reach 5 and 36/37	H	n/a	CA/BA

**Meeting Date:** April 19, 2018  
**Report Date:** March 12, 2018  
**Submitted by:** Erica Ogden

**Item 13.5**

**Subject:** Bill 139 Changes  
Local Planning Appeal Tribunal (Former Ontario Municipal Board)

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**Recommendation:**

That the Board of Directors acknowledges the report, dated March 12, 2018, regarding the Bill 139 changes related to the Local Planning Appeal Tribunal.

**Background:**

The review of the Ontario Municipal Board (OMB) began in Spring 2016 and has concluded with the creation of the Local Planning Appeal Tribunal (LPAT) to replace the OMB. Staff attended an in-person session to discuss the OMB on October 27, 2016.

In addition to the changes to the Conservation Authorities Act, Bill 139 – *Building Better Communities and Conserving Watersheds Act, 2017*, which received Royal Assent December 12, 2017, also made changes to the planning process. Staff attended an information session about the changes to the planning process on March 9, 2018. The majority of changes discussed below take effect on April 3, 2018. This report focuses only on changes related to the Conservation Authority and does not specifically address all changes related to municipalities.

The Authority is involved in the planning process through our delegated responsibility from the Ministry of Natural Resources and Forestry to provide comments on natural hazards and our agreements with member municipalities to provide comments on natural heritage.

The Bill 139 changes related to the planning process included:

- repealing the OMB and replacing it with the LPAT,
- establishing the Local Planning Appeal Support Center, and;
- making changes to the Planning Act.

The LPAT will be an independent, province-wide appeal body for land use planning matters. The hearing process will be modernized and made less adversarial by promoting active adjudication, limiting oral evidence and cross examination, requiring mediation before hearings and improving timelines.

The Local Planning Appeal Support Center will be a separate agency, intended to help level the playing field for citizens and provide information on land use planning, appeal procedures and advice. A new user friendly website will be created, with publically accessible decisions on appeals.

Of the changes made to the Planning Act, a summary of those changes which relate to the Authority's responsibilities are outlined below. The direct relation to the Authority is highlighted in *italics*.

### Longer Decision Timelines

The intended outcome of increasing the decision timelines is to provide more time to assess planning matters, hear input from the public and negotiate solutions to possible issues to avoid potential appeals before making a decision.

- Official Plan Amendments – 210 days extended from 180 days
- Zoning By-law Amendments – 150 days extended from 120 days

*The Conservation Authority will have more time to provide comments to the municipality and work with applicants to achieve a resolution.*

### Consistency/Conformity Standard

Changes to the Planning Act will restrict the grounds for an appeal of official plan amendments and zoning by-law amendments to **only** matters of consistency and/or conformity with provincial and/or municipal policies and plans. This change will limit the ability of the LPAT to overturn decisions made by locally-elected councils, whereas previously the OMB could make any planning decision that council could have made.

The LPAT must dismiss an appeal of a local decision unless it is inconsistent with the Provincial Policy Statement (PPS), does not conform/conflicts with provincial plans, or does not conform with applicable official plans (e.g. upper-tier official plan). If a local decision is determined to be inconsistent or conflicting with policies, the matter must return to the municipality for a new decision. This change does not apply to appeals exclusively site-specific in nature (e.g. subdivision, consents, minor variances).

*Conservation Authority concerns related to Natural Hazards and Natural Heritage will continue to be a grounds for an appeal as they stem from the PPS.*

### Requirement to Send New Information Back to the Municipality

The LPAT is required to send new information at subdivision hearings back to the municipality for re-evaluation of the original decision, if requested by the municipality. Previously, the OMB had the authority to determine whether to send new information back to the municipality. If material is sent back to the municipality, they have 60 days to reconsider the decision and make a written recommendation back to the LPAT.

*The Conservation Authority, working with the Municipality, can also review new information and provide input to recommendations.*

### No Appeal of Major Provincial Decisions

With this change, no appeals of provincial decisions on official plans and major official plan updates will be permitted. The intended outcome is to reduce the number of appeals and increase the implementation of provincial policies, in order to protect important provincial interests such as public health and safety.

*Improved implementation of provincial policies related to Natural Hazard and Natural Heritage will assist the Conservation Authority when reviewing applications.*

### Climate Change

All municipal official plans are required to include climate change policies to identify goals, objectives and actions to mitigate greenhouse gas emissions and adapt to a changing climate, including through increased resiliency.

*This requirement further supports the Conservation Authority's strategic plan objectives.*

Prepared By: Tracy Prince  
April 5, 2018

**ST CLAIR REGION CONSERVATION AUTHORITY**  
**Statement of Revenue and Expenditure**  
**For the Two Months Ended 28/02/2018**

**Item 14.1**

	Actual To Date			Annual Budget		Variance from Budget	
	Revenue	Expenditures	Surplus(Deficit)	Revenue	Expenditures	Revenue	Expenditures
<b>Flood Control &amp; Erosion Control</b>	\$1,020,351	\$97,609	\$922,742	\$1,851,200	\$1,851,200	(\$830,849)	(\$1,753,591)
<b>Capital Projects/WECI</b>	\$254,500	\$2,500	\$252,000	\$267,500	\$267,500	(\$13,000)	(\$265,000)
<b>Conservation Area's Capital Development</b>	\$68,500	\$649	\$67,851	\$68,500	\$68,500	\$0	(\$67,851)
<b>IT Capital</b>	\$3,224	\$0	\$3,224	\$19,200	\$19,200	(\$15,976)	(\$19,200)
<b>Equipment</b>	\$11,800	\$0	\$11,800	\$72,000	\$72,000	(\$60,200)	(\$72,000)
<b>Planning &amp; Regulations</b>	\$267,743	\$66,818	\$200,925	\$558,155	\$558,155	(\$290,412)	(\$491,337)
<b>Technical Studies</b>	\$383,960	(\$22,228)	\$406,188	\$316,819	\$316,819	\$67,140	(\$339,047)
<b>Recreation</b>	\$126,323	\$19,488	\$106,835	\$1,305,160	\$1,305,160	(\$1,178,837)	(\$1,285,672)
<b>Property Management</b>	\$33,061	\$33,607	(\$546)	\$243,096	\$243,096	(\$210,035)	(\$209,489)
<b>Education and Communication</b>	\$91,289	\$30,815	\$60,474	\$232,110	\$232,110	(\$140,822)	(\$201,295)
<b>Source Water Protection</b>	\$0	\$12,607	(\$12,607)	\$160,400	\$160,400	(\$160,400)	(\$147,793)
<b>Conservation Services/Healthy Watersheds</b>	\$766,446	\$132,969	\$633,477	\$754,335	\$754,335	\$12,112	(\$621,366)
<b>Administration/AOC Management</b>	\$545,215	\$81,878	\$463,337	\$1,167,112	\$1,167,112	(\$621,897)	(\$1,085,235)
	<b>\$3,572,411</b>	<b>\$456,712</b>	<b>\$3,115,699</b>	<b>\$7,015,587</b>	<b>\$7,015,587</b>	<b>(\$3,443,176)</b>	<b>(\$6,558,875)</b>

**Notes:**

1. Municipal matching, non-matching, and Recreation levies 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. The variances will reduce and disappear as the year progresses.

**ST. CLAIR REGION CONSERVATION AUTHORITY**  
**DISBURSEMENTS FROM January 1 to March 31 2018**

**Item 14.2**  
**Sarah Kellestine**

<b>CHQ. #</b>	<b>DATE</b>	<b>VENDOR</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
19570	2/27/2018	Compass Group Canada	Soild Health conference - Meal	\$ 6,688.65
19616	3/15/2018	STRATHROY WELDING AND REPAIRS	Highland Glen - Dock	\$ 6,945.55
19510	1/10/2018	LAMBTON COLLEGE	Flood Monitoring	\$ 8,000.00
19547	2/6/2018	South West Fence & Decks	Steps - Kenwick Park	\$ 9,017.47
19628	3/27/2018	Minister of Finance	Return of WECl funds	\$ 10,735.16
19532	2/6/2018	Facca Incorporated	Aamjiwnaang Shoreline Restoration	\$ 12,441.98
19597	3/15/2018	BF ENVIRONMENTAL CONSULTANTS	Wetland Creation	\$ 12,478.05
19503	1/10/2018	CONSERVATION ONTARIO	2018 CO Levy	\$ 14,650.00
19625	3/15/2018	MPW Chartered Professional Accountants LLP	Audit	\$ 15,434.67
19519	1/10/2018	SHOREPLAN ENGINEERING LTD.	Courtright and Brightsgrove	\$ 27,638.11
19593	3/8/2018	Bre-Ex Construction Inc	Courtright Park	\$ 141,705.83

**\$ 265,735.47**

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

**INTERNET BANKING January to March 2018**

<b>TRANS #</b>	<b>DATE</b>	<b>VENDOR</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
8888	2/28/2018	WORKPLACE SAFETY & INS. BOARD	WSIB	\$ 5,427.80
8868	2/28/2018	Municipality of Chatham-Kent - Property Taxes	Property Taxes	\$ 5,483.88
8913	3/31/2018	WORKPLACE SAFETY & INS. BOARD	WSIB	\$ 5,925.90
8865	2/28/2018	MASTERCARD	Employee Expenses	\$ 6,795.64
8854	1/31/2018	WORKPLACE SAFETY & INS. BOARD	WSIB	\$ 6,890.32
8902	3/31/2018	MASTERCARD	Employee Expenses	\$ 7,150.40
8850	1/31/2018	RWAM Insurance Administrators Inc	Group Benefits	\$ 11,725.51
8907	3/31/2018	RWAM Insurance Administrators Inc	Group Benefits	\$ 11,856.10
8878	2/28/2018	RWAM Insurance Administrators Inc	Group Benefits	\$ 11,961.94
8881	2/28/2018	Township of St. Clair - Property Taxes	Property Taxes	\$ 16,099.17
8846	1/31/2018	OMERS	Pension	\$ 32,562.90
8874	2/28/2018	OMERS	Pension	\$ 33,214.28
8903	3/31/2018	OMERS	Pension	\$ 36,284.64
8848	1/31/2018	RECEIVER GENERAL	Source Deduction	\$ 50,410.71

8876	2/28/2018 RECEIVER GENERAL	Source Deduction	\$ 51,054.05
8905	3/31/2018 RECEIVER GENERAL	Source Deduction	\$ 55,348.47

\$ 348,191.71

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

**PAYROLL RUNS**

	\$	54,569.45
PAYROLL NO. 1	\$	56,339.71
PAYROLL NO. 2	\$	56,050.84
PAYROLL NO. 3	\$	56,230.00
PAYROLL NO. 4	\$	57,004.19
PAYROLL NO. 5	\$	65,256.18
PAYROLL NO. 6		
PAYROLL NO.		
PAYROLL NO.		

**TOTAL PAYROLL RUNS -**

\$ 345,450.37

**TOTAL DISBURSEMENTS -**

\$ 959,377.55

## 2018 GENERAL LEVY SUMMARY

GLYSUM2018  
Sarah Kellestine  
31-Mar-18

<u>MUNICIPALITY</u>	<u>GROSS LEVY</u>	<u>PAID TO DATE</u>	<u>OUTSTANDING</u>
Sarnia	\$ 338,134.00	\$ 84,533.50	\$ 253,600.50
Chatham-Kent	112,683.00		112,683.00
Brooke-Alvinston Twp.	14,218.00	14,218.00	0.00
Dawn Euphemia Twp.	21,506.00	5,376.50	16,129.50
Enniskillen Twp.	15,762.00		15,762.00
Lambton Shores M.	42,668.00	42,668.00	0.00
Oil Springs V	1,710.00	1,710.00	0.00
Petrolia T	21,898.00	21,898.00	0.00
Plympton-Wyoming T	45,371.00		45,371.00
Point Edward V	20,209.00	20,209.00	0.00
St. Clair Twp.	95,034.00		95,034.00
Warwick Twp.	17,812.00	17,812.00	0.00
Adelaide Metcalfe Twp.	15,479.00		15,479.00
Middlesex Centre Twp.	18,349.00	18,349.00	0.00
Newbury V	1,257.00	1,257.00	0.00
Southwest Middlesex M.	9,852.00	9,852.00	0.00
Strathroy-Caradoc M.	71,914.00	17,978.50	53,935.50
<b>TOTAL</b>	<b>\$ 863,856.00</b>	<b>\$ 255,861.50</b>	<b>\$ 607,994.50</b>



## Item 14.4

Non-registered account #440-17189-13

February 28, 2018

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10547

ST. CLAIR REGION  
CONSERVATION AUTHORITY  
205 MILL POND CRESCENT  
STRATHROY ON N7G 3P9



## Your Investment Report

### ▶ Account Summary

This table provides an overview of your account, including the opening and closing balance for the reporting period.

Your Investments	Opening Value Jan 1, 2018	Closing Value Feb 28, 2018	Balance on Feb 28, 2018 (CAD\$)
Canadian Dollar Investments			
Cash Account	1,413,457.76	1,417,567.39	1,417,567.39
	1,413,457.76	1,417,567.39	<b>1,417,567.39</b>
<b>Grand Total (CAD\$)</b>			<b>1,417,567.39</b>
		<b>Last Statement Dec 31, 2017</b>	<b>1,413,457.76</b>

You can access your up-to-date account information online through BMO Nesbitt Burns Gateway at:  
<https://gateway.bmonesbittburns.com>.  
If you have not yet registered for Gateway access, please contact your Investment Advisor.

### ▶ We're here to help

Our team is dedicated to helping you succeed in meeting all of your wealth management goals. Please call any member of the team referenced below if you have questions about Your Investment Report. Visit [bmo.com/nesbittburns](http://bmo.com/nesbittburns) for the latest information on investing and wealth planning.

JONATHAN BATCH  
Investment Advisor  
519-646-3044

Batch Investment Group  
[www.batchinvestmentgroup.com](http://www.batchinvestmentgroup.com)  
Assistant: Sharon Tingley  
[sharon.tingley@nbpcd.com](mailto:sharon.tingley@nbpcd.com)

DAVID HAAK  
Branch Manager  
(519) 672-8560

Suite 1900, One London Place, 255 Queens Avenue, London, ON N6A 5R8

BMO Nesbitt Burns Inc. is a Member - Canadian Investor Protection Fund.  
Member of the Investment Industry Regulatory Organization of Canada.

Non-registered account #440-17189-13

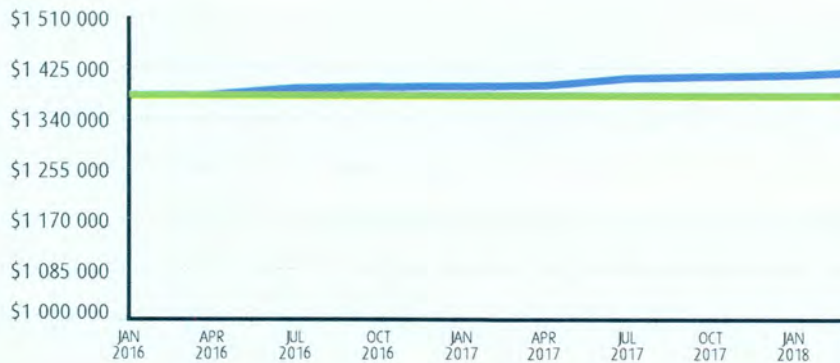
February 28, 2018

## ► Changes to your account

This table provides a summary of the change in value of your account, including all deposits, withdrawals and the change in market value of your investments, for both the current year and as of the start of reporting. Where applicable, balances have been converted to Canadian dollars, see page 1 for exchange rates.

	This Year (2018)	Since January 1, 2016
<b>Opening Value</b>	<b>1,413,457.76</b>	<b>1,379,179.68</b>
Deposited	+ 0.00	+ 0.00
Withdrawn	- 0.00	- 0.00
<b>Net Invested</b>	<b>= 0.00</b>	<b>= 0.00</b>
Change In Market Value	+ 4,109.63	+ 38,387.71
<b>Closing Value on Feb 28, 2018</b>	<b>1,417,567.39</b>	<b>1,417,567.39</b>

Net Invested is the value of total deposits less the value of total withdrawals.



■ MARKET VALUE  
■ NET INVESTED

**The Change in Market Value of your account since January 1, 2016 is \$38,387.71.**

This amount includes gains, losses and income received with respect to the investments held in your account.




Non-registered account #440-17189-13

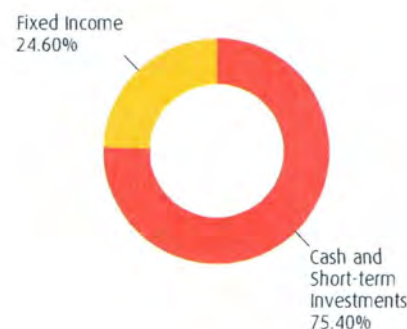
February 28, 2018

## ▶ Summary of your investments in Canadian dollars

### Your Investor Profile

Investment Objective Income  
Time Horizon 10 yrs and more

Investment Category	Amount	Target %	Holdings %
 Cash and Short-term Investments	1,067,567.39	10.00	75.40
 Fixed Income	350,000.00	90.00	24.60
 Equities	0.00	0.00	0.00
<b>Total</b>	<b>1,417,567.39</b>		<b>100.00</b>



The investments in your account have been chosen based on the investment objectives you selected on the Client Account Agreement. As your life circumstances change, it is important to talk to your Investment Advisor about updating these objectives as may be applicable.

## Your Canadian Dollar Investments

All amounts are reported in Canadian Dollars.

### ▶ Income you received

Type of Income	Current Month	Year to Date
Interest	4,109.63	4,109.63
<b>Total</b>	<b>4,109.63</b>	<b>4,109.63</b>

### ▶ Your investment details

	Quantity	Cost		Market Value on February 28, 2018	
		Per Unit	Total	Per Unit	Total
<b>Cash Account</b>					
<b>• Cash and Short-term Investments</b>					
CASH			306,045.39		306,045.39
CONCENTRA BANK GIC ANNUAL DUE 06/08/2018 1.550%	87,000	100.000	87,000.00	100.000	87,000.00
PEOPLES TRUST GIC ANNUAL DUE 06/08/2018 1.800%	88,000	100.000	88,000.00	100.000	88,000.00

Non-registered account #440-17189-13

February 28, 2018

## Your Canadian Dollar Investments (continued)

All amounts are reported in Canadian Dollars.

### ▶ Your investment details (continued)

	Quantity	Per Unit	Cost		Market Value on February 28, 2018	
			Per Unit	Total	Per Unit	Total
VANCITY GIC ANNUAL DUE 06/08/2018 1.250%	87,000	100.000		87,000.00	100.000	87,000.00
BMO TRUST COMPANY GIC ANNUAL DUE 08/20/2018 1.400%	153,800	100.000		153,800.00	100.000	153,800.00
LAURENTIAN BANK GIC ANNUAL DUE 08/20/2018 1.460%	100,000	100.000		100,000.00	100.000	100,000.00
BANK OF MONTREAL GIC 30 DAY CASHABLE ANNUAL DUE 11/26/2018 0.850%	245,722	100.000		245,722.00	100.000	245,722.00
<b>Subtotal</b>				<b>1,067,567.39</b>		<b>1,067,567.39</b>
<b>Fixed Income</b>						
<b>Fixed Income</b>						
CANADIAN WESTERN BANK GIC ANNUAL DUE 05/13/2019 2.200%	100,000	100.000		100,000.00	100.000	100,000.00
EQUITABLE BANK GIC ANNUAL DUE 05/13/2019 2.200%	100,000	100.000		100,000.00	100.000	100,000.00
HOMEQUITY BANK GIC ANNUAL DUE 05/13/2021 2.220%	50,000	100.000		50,000.00	100.000	50,000.00
PRESIDENT'S CHOICE BANK GIC ANNUAL DUE 05/13/2021 2.360%	100,000	100.000		100,000.00	100.000	100,000.00
<b>Fixed Income Subtotal</b>				<b>350,000.00</b>		<b>350,000.00</b>
<b>Subtotal</b>				<b>350,000.00</b>		<b>350,000.00</b>
<b>Total for Cash Account</b>				<b>1,417,567.39</b>		<b>1,417,567.39</b>
<b>Total Canadian Dollar Investments</b>				<b>1,417,567.39</b>		<b>1,417,567.39</b>

Average cost and market price indicator descriptions can be found in Important information about your account at the end of this statement.

Non-registered account #440-17189-13

February 28, 2018

## ▶ Account activity for this month

Date	Activity	Description	Quantity	Unit Price	Commission	Amount
<b>Cash Account</b>						
Jan 1, 2018		<b>Opening Cash Balance</b>				<b>0.76</b>
Feb 20, 2018	Redemption	VANCITY GIC ANNUAL DUE 02/20/2018 INT 1.350% ISSUE REDEEMED FOR CASH	-301,935		0.00	301,935.00
Feb 20, 2018	Interest	VANCITY GIC ANNUAL DUE 02/20/2018 INT 1.350% CPN INT ON 301935 BND REC 02/16/18 PAY 02/17/18	301,935		0.00	4,109.63
.....						
Feb 28, 2018		<b>Closing Cash Balance</b>				<b>306,045.39</b>

This report includes only activity recorded in your account since your last report. For a more comprehensive listing of your account activity, sign into your BMO Nesbitt Burns Gateway at: <https://gateway.bmonesbitburns.com>.



Non-registered account #440-17189-13

February 28, 2018

## Your Year-to-Date Fees Summary

### ▶ Fees you paid

This section summarizes all compensation received by BMO Nesbitt Burns with respect to your account. Our compensation comes from two sources: what we charge you directly (Operating and Transaction Charges), and what we receive through any third parties.

	CAD (\$)
<b>Operating charges</b>	
<b>Total operating charges</b>	<b>0.00</b>
<b>Transaction charges</b>	
<b>Total transaction charges</b>	<b>0.00</b>
<b>Total fees you paid in 2018</b>	<b>0.00</b>

Please see examples of standard operating charges in the Important Information about your Account section. Some fees and charges may be reported as before-tax amounts and applicable tax is being reported separately within the 'Sales Tax' line item. Where this is not possible the sales tax is included within the line item. Please contact your Investment Advisor if you have any questions about your 'Year-to-Date Fees Summary'.

### ▶ Payments BMO received from third parties

	CAD (\$)
<b>Total payments BMO Nesbitt Burns received from third parties in 2018</b>	<b>0.00</b>

### ▶ Bulletin board

For foreign exchange rates, please refer to the Account Summary section on page one of your statement.

Non-registered account #440-17189-13

February 28, 2018

## ▶ Important information about your account

### About this statement

BMO Nesbitt Burns Inc. shall assume the contents of this statement has been acknowledged as correct, approved and consented by you unless we receive written notice to the contrary within 45 days after it is sent to you.

Please let your Investment Advisor or Branch Manager know if there are any changes in your personal or financial situation so that we can ensure you are on track to meet your investment objectives.

The Average Cost and Total Cost for long positions incorporates the book cost of your investment, comprised of, the total amount paid, transaction charges, commissions and fees, adjusted for any corporate actions, reinvested distributions and return of capital. The Average Cost and Total Cost for short positions incorporates the book cost of your investment comprised of the total amount received, net of any transaction charges, commissions and fees, adjusted for distributions (other than dividends), returns of capital and corporate actions. Book cost on transferred in securities reflects the book cost provided by the transferring institution, or if not provided, the market value on the date of the transfer.

Client cash balances in non-registered accounts are held by BMO Bank of Montreal, and client cash balances in registered accounts are held by BMO Trust Company.

### Legend of Average Cost indicators

**M** - Market Value information was used to estimate part or all of the Average Cost for this security position.

**N/D** - Average cost for this security holding cannot be determined.

**O** - Market Value information as of October 2, 2015 was used to estimate part or all of the Average Cost for this security position.

Valuations of the securities positions shown in this statement are provided by BMO Nesbitt Burns and are based on information and sources BMO Nesbitt Burns believes to be reliable. However, the market value cited may be subject to change and we cannot be held responsible if the actual market price differs from the said market price.

BMO Nesbitt Burns Inc. acted as principal in all transactions shown in this statement with the symbol "†" in the "Description" column. In all other transactions, BMO Nesbitt Burns acted as agent.

A free credit balance represent funds payable on demand which, although properly recorded in our books, are not segregated and may be used in the conduct of our business. All security positions displayed are segregated unless otherwise indicated. Should there be a security in which the account holds a portion of the quantity segregated and a portion registered in your name, this will be indicated under the security description column.

A copy of our most recent statement of our financial condition and a list of directors and senior officers are available on request. Clients in British Columbia are entitled to certain information about BMO Nesbitt Burns, including information about commission and fees, and any administrative proceedings that may relate to the firm and its staff. For Related and Connected Issuer and Conflicts of Interest Statement, please visit our website: [http://www.bmo.com/nesbitburns/about/nb/bmonb/regulatory\\_documents/conflict\\_s\\_of\\_interest](http://www.bmo.com/nesbitburns/about/nb/bmonb/regulatory_documents/conflict_s_of_interest).

### Price of the securities in your accounts

We strive to provide accurate and current prices for securities. However, because we use numerous information sources for pricing, we cannot guarantee pricing accuracy for securities. Please call your Investment Advisor for the most current prices.

### Legend of Market Price Indicators

**E** - There is no active market for this security so we have estimated its market value.

**N** - We are unable to obtain a reliable market value for the security. Therefore, in accordance with our standard practice, the market value of the security is not determinable and has been set to zero. This does not mean that the security does not have a value but only that a value cannot be assigned at this time.

### Deferred Sales Charge (DSC)

Securities with "Deferred Sales Charge" in the security description may be subject to deferred sales charges when sold.

### Investor protection

Customers' accounts are protected by the Canadian Investor Protection Fund within specified limits. A brochure describing the nature and limits of coverage is available upon request.

For Preferred or Preferred Plus accounts, deposits in your Canadian dollar bank account with Bank of Montreal are insurable under the Canada Deposit Insurance Corporation Act.

Deposits in your US Dollar bank account with Bank of Montreal are not insurable under the Act and are not insured by the Canadian Investor Protection Fund.

Securities held by BMO Nesbitt Burns Inc. in your Account as well as any cash held temporarily by BMO Nesbitt Burns Inc. for subsequent credit to the chequing/savings component of your Account are not deposits which are insured under the Canada Deposit Insurance Corporation Act.

### Insurance products

All insurance products, including segregated funds, are offered through BMO Nesbitt Burns Financial Services Inc. by licensed life insurance agents, and, in Quebec, by financial security advisors.

### You can always reach us.

If you are unable to reach your BMO Nesbitt Burns Investment Advisor, the telephone number indicated on the front page of this statement will connect you with your BMO Nesbitt Burns Branch.

Please record your BMO Nesbitt Burns Branch telephone number for future reference.

A complete list of branches and contact information is available under "Contact Us" at [www.bmonb.com](http://www.bmonb.com).

Due to space limitations on the page, we may have used some abbreviations on your statement. These abbreviations stand for the following: NCI: Non-Certificate Issue (GIC/Mutual Funds); NVS: Non-Voting Shares; RS: Restricted Shares; RVS: Restricted Voting Shares; SUB: Subscription; SVS: Subordinate Voting Shares; WTS: Warrants; RTS: Rights; DSC: Deferred Sales Charge.

### Operating Charges

Client households minimum annual fee = \$500; Administration of RRSP/RRIF Fee: \$125 per year; Administration of RESP/TFSA: \$50 per year; Administration of Locked-In RRSP, LIRA, LIF, LRIF Fee: \$62.50 per year; Transfer-out of Non-Registered or Registered Account: Fully and partial: \$135 per account; Partial withdrawal of a Registered Account (excluding TFSA, LIF, LRIF and RRIF): \$25 per request; Full Deregistration of a Registered Account (excluding TFSA): \$100 per account. GST / PST / HST where applicable will be added to these fees.

The GST/HST registration number for BMO Nesbitt Burns Inc. is 103854261RT


BMO Wealth Management is the brand name for a business group consisting of Bank of Montreal and certain of its affiliates, including BMO Nesbitt Burns Inc., in providing wealth management products and services. "Nesbitt Burns" is a registered trade-mark of BMO Nesbitt Burns Inc., a wholly-owned subsidiary of Bank of Montreal. ®/TM Registered trade-marks of Bank of Montreal, used under licence.

BMO Nesbitt Burns Inc. is a Member - Canadian Investor Protection Fund. Member of the Investment Industry Regulatory Organization of Canada.

BMO Nesbitt Burns refers to BMO Nesbitt Burns Inc. and your account at BMO Nesbitt Burns Inc.



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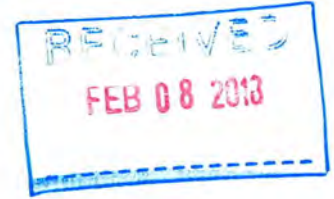
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ST. CLAIR REGION CONSERVATION  
 AUTHORITY  
 205 MILL POND CRES  
 STRATHROY ON N7G 3P9

Account Number: **460-16010**  
 Account Type: Regular Account  
 For the Period: **January 1 to 31, 2018**  
 Last Statement: December 29, 2017

**Address Information**

255 Queens Avenue  
 Suite 900  
 London ON  
 N6A 5R8





Phone: (519) 679-9490  
 Website: [www.scotiawealthmanagement.com](http://www.scotiawealthmanagement.com)  
 Branch Manager: Matt Berry

**Your Wealth Advisor**

Craig Emptage (519) 660-3259  
[craig.emptage@scotiawealth.com](mailto:craig.emptage@scotiawealth.com)

**CANADIAN Account Overview**

Currency: CANADIAN DOLLAR

Asset Class Summary	Jan. 31, 2018 Market Value	% of Total Assets
 <b>Fixed Income</b>	306,146	41.54
 <b>Other</b>	430,709	58.46
<b>Total Value of Account</b>	<b>\$736,855</b>	<b>100.00</b>
Total Value on Last Statement, December 29, 2017	\$742,139	



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Regulated by  
 Investment Industry Regulatory  
 Organization of Canada



## Details of Your Account Holdings

Type	Security Description	Quantity	Average Cost	Adjusted Book Value	Market Price	Market Value
<b>Fixed Income</b>						
CASH	MANULIFE STRATEGIC INCOME FUND CL F NL (659)	6,307.242	12.732	80,308	11.939	75,302
CASH	PIMCO MONTHLY INCOME FUND (CANADA) CL M (505)	16,138.443	14.486	233,794	14.304	230,844
<b>Total Fixed Income</b>						<b>\$306,146</b>
<b>Other</b>						
CASH	MACKENZIE GLOBAL TACTICAL INVESTMENT GRADE BD FD SERIES PWF (6526)	22,308.478	9.988	222,824	9.764	217,820
CASH	SIGNATURE CANADIAN BOND CORP CLASS EF NL (15137)	21,707.863	10.282	223,202	9.807	212,889
<b>Total Other</b>						<b>\$430,709</b>
<b>Total Account Holdings</b>				<b>\$760,128</b>	<b>\$736,855</b>	

The average cost and adjusted book value displayed on this statement incorporates re-invested dividends and/or mutual fund distributions and does not necessarily reflect your original purchase price. Please see Average Cost & Adjusted Book Value in the Statement Notes for more information.

## Monthly Activity

Date	Type	Activity	Description	Quantity	Price	Credit/Debit(-)
<b>Opening Cash Balance</b>						<b>\$0.00</b>
Jan. 02, 2018	CASH	DIVIDEND	PIMCO MONTHLY INCOME FUND (CANADA) CL M (505) REINVEST 12/29/17 @ \$14.3614 PLUS FRACTIONS OF 0.248 BOOK VALUE \$836.52	58		
Jan. 17, 2018	CASH	FEE	MPP MANAGED PORTFOLIOS GST/HST 86817 6249 RT0001 QST/TVQ 1019148099 TQ0001 TID#0110F000088126 TID#0110F000088126			-2,114.52
Jan. 22, 2018	CASH	DIVIDEND	MACKENZIE GLOBAL TACTICAL	39		

## Monthly Activity - continued

Date	Type	Activity	Description	Quantity	Price	Credit/Debit(-)
			INVESTMENT GRADE BD FD SERIES PWF (6526) REINVEST 01/19/18 @ \$9.7738 PLUS FRACTIONS OF 0.872 BOOK VALUE \$389.70			
Jan. 22, 2018	CASH	SELL	PIMCO MONTHLY INCOME FUND (CANADA) CL M (505) PLUS FRACTIONS OF 0.525 SOLICITED	-147	14.3333	2,114.52
Jan. 29, 2018	CASH	DIVIDEND	MANULIFE STRATEGIC INCOME FUND CL F NL (659) REINVEST 01/26/18 @ \$11.9931 PLUS FRACTIONS OF 0.891 BOOK VALUE \$202.58	16		

**Closing Cash Balance**

**\$0.00**

## Summary

### Income Summary

	This Period	Year-to-Date
<b>Total Income</b>	<b>\$0</b>	<b>\$0</b>



## Go Paperless – with **Scotia Online!**

ScotiaMcLeod clients can choose paperless record keeping within **Scotia Online**. Receive monthly statements, trade confirmations, mutual fund prospectuses and annual trading summaries all within the secure environment of your **Scotia Online** account.

To learn more about the ScotiaMcLeod services and features available through **Scotia Online**, please contact your advisor or member of their team.

**Terms and Conditions**

Terms and Conditions are applicable to your account(s). For further details of these terms and conditions go on-line or speak to your Investment Advisor. <http://www.scotiabank.com/ca/common/pdf/scotiamcleod/TandC.pdf>

**Average Cost & Adjusted Book Value**

Adjusted book value is average cost times the number of shares that you hold of a security. The average cost and adjusted book value displayed on this statement may represent: 1) your total cost, including commission and fees, of acquiring the security, 2) the value at the time the security was transferred into the account, 3) the effect of subsequently re-invested dividends and/or mutual fund distributions, 4) revisions as a result of security reorganizations and other corporate actions, 5) values which you have provided and requested that we reflect, or a combination of the foregoing. A statement message will advise you that an adjustment has been made in the month it occurs. This information has been calculated to the best of our ability unless provided by you. This information should not be used for the purposes of tax reporting.

**Statement Frequency**

Statements are issued whenever there has been activity in the account during the past month; otherwise statements are issued on a quarterly basis.

**Leverage / Margin Risk Disclosure Statement**

The use of leverage may not be suitable for all investors. Using borrowed money (whether through a margin account or any other method of borrowing) to finance the purchase of securities involves greater risk than using cash resources only. If you borrow money to purchase securities, your responsibility to repay the loan and pay interest as required by its terms remains the same even if the value of the securities purchased declines.

**Wealth Advisor Information**

Details of the individual representative who accepted your order(s) are available upon request. Please contact the Branch Manager.

**Cash Balances**

This section shows the balance in your account, including all transactions that have settled. A debit balance is indicated by "-" and represents an amount owed to Scotia Capital Inc. ("ScotiaMcLeod"). Free credit balances in Regular accounts represent funds payable on demand which, although properly recorded in our books, are not segregated and may be used in the conduct of our business. Cash balances in Registered accounts are held in trust by the trustee.

**Asset Class Summary**

Asset classes you hold will be displayed under the Asset Class Summary section in the statement. Only the asset classes of securities you hold in your account will be displayed on your statement. The classification "Other" includes Principal Protected Notes, Principal at Risk Notes, and some Exempt Market products. Please speak directly with your Wealth Advisor to ensure you understand the products held in your account. The term "Total Value of Account" refers to the total market value of priced securities within your account, by currency, including cash balances at the close of the date indicated.

**Income Summary (Regular Accounts Only)**

Dividend and/or interest income that has been credited to your account this month and year-to-date are summarized in this section. Accrued or deemed interest on debt or discount securities purchased or sold is not included.

**Payment Information (RIF and LIF Accounts Only)**

The information displayed reflects our records as of the statement date. Minimum Annual Payment refers to the minimum annual amount required from your RRIF account by Canada Revenue Agency. If, according to our records, you have elected to receive an annual amount greater than the minimum payment, then this amount will be displayed as the Elected Payment Amount. Withholding tax will be charged for amounts withdrawn in excess of the Minimum Annual Payment. The Year to Date Payment amount displayed is the total amount of the payments sent to you, after withholding tax has been deducted, if applicable.

**Monthly Activity**

This section shows all the activity in your account during the month. The Date column refers to the settlement date in the case of executed trades, or processing date in the case of other entries. Direct Funds Transfers made to your account on the last business day of the month may not appear on your month end statement until the following month.

**Short Account**

Proceeds from declared short sales have been segregated into a SHORT account and market increases and/or decreases from the original sale price are marked to the market. Such increases and/or decreases are transferred to your margin account weekly. Transfers are reflected with the description "Mark to Market."

**Details of Your Account Holdings**

The market valuation information has been obtained from sources believed to be reliable; however, we cannot guarantee their accuracy. Our best efforts have been made to price all securities; however, in some circumstances, we may be unable to obtain valuations. A current market quotation can be made available upon request.

**Segregated Quantity**

Securities regulations stipulate that all fully paid and excess margin securities must be promptly segregated and are not available for use in the general conduct of our business. All security positions displayed under the account holdings section are segregated unless otherwise indicated. Should there be a security in which the account holds a portion of the quantity segregated and a portion registered in your name, this will be indicated under the security description column.

**Remuneration for Order Flow**

In connection with certain trades in securities that are executed for you in the U.S. marketplace, ScotiaMcLeod will receive remuneration for directing orders to a particular broker-dealer or market center for execution. The source and amount of any such remuneration received by ScotiaMcLeod in connection with any transaction executed on your behalf shall be disclosed to you upon request.

**Member - Canadian Investor Protection Fund**

Customers' accounts are protected by the Canadian Investor Protection Fund within specified limits. A brochure describing the nature and limits of coverage is available upon request.

**Endnotes**

1. There has been an adjustment made to this book value during the statement period.
2. There is no active market for this investment, and therefore the market value has been estimated.
3. There is no active market for this investment, and the market value cannot be determined.
4. If this position is sold, a sales charge may be applied to the proceeds.
5. Some or all of the book value of this position has been determined using a market value calculation.
6. The book value of this position cannot be determined.

**Other Information**

Employees of The Bank of Nova Scotia ("Scotiabank") and/or ScotiaMcLeod are not authorized to provide tax or legal advice. Please consult your accountant or lawyer on such matters.

The financial statement of Scotiabank and Scotia Capital Inc. as at the close of the last financial year and a current list of directors and officers will be furnished upon request. Clients in British Columbia are entitled to certain additional information about ScotiaMcLeod, including information about commissions and fees that we charge, and about any administrative proceedings that may relate to the firm or its staff.


This statement reflects all obligations of the firm to you. Please examine this statement of account promptly. Any errors or omissions or unauthorized discretionary transactions must be reported in writing within 60 days as of the date of this statement to: Scotia Capital Inc. Director, Compliance, 20 Queen St. W – 4th Floor Toronto, Ontario M5H 3R3 or you will be precluded from asserting that errors or omissions have occurred.

T: 1-800-377-0065 F: 416-350-3088  
 em: [scotiamcleodcomplaints@scotiabank.com](mailto:scotiamcleodcomplaints@scotiabank.com)

**Code Information**

<b>Code:</b>	Nonvot	Resvot	Subvot
<b>Definition:</b>	Non-voting	Restricted Voting	Subordinate voting

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ST. CLAIR REGION CONSERVATION  
 AUTHORITY  
 205 MILL POND CRES  
 STRATHROY ON N7G 3P9

Account Number: **460-16010**  
 Account Type: Regular Account  
 For the Period: **February 1 to 28, 2018**  
 Last Statement: January 31, 2018

**Address Information**

255 Queens Avenue  
 Suite 900  
 London ON  
 N6A 5R8





Phone: (519) 679-9490  
 Website: [www.scotiawealthmanagement.com](http://www.scotiawealthmanagement.com)  
 Branch Manager: Matt Berry

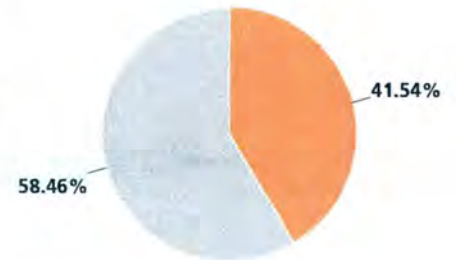
**Your Wealth Advisor**

Craig Emptage (519) 660-3259  
[craig.emptage@scotiawealth.com](mailto:craig.emptage@scotiawealth.com)

**CANADIAN Account Overview**

Currency: CANADIAN DOLLAR

Asset Class Summary	Feb. 28, 2018 Market Value	% of Total Assets
 <b>Fixed Income</b>	306,226	41.54
 <b>Other</b>	430,846	58.46
<b>Total Value of Account</b>	<b>\$737,072</b>	<b>100.00</b>
Total Value on Last Statement, January 31, 2018	\$736,855	



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## Details of Your Account Holdings

Type	Security Description	Quantity	Average Cost	Adjusted Book Value	Market Price	Market Value
<b>Fixed Income</b>						
CASH	MANULIFE STRATEGIC INCOME FUND CL F NL (659)	6,323.023	12.730	80,498	12.018	75,990
CASH	PIMCO MONTHLY INCOME FUND (CANADA) CL M (505) See Endnote 1	16,193.301	14.485	234,571	14.218	230,236
<b>Total Fixed Income</b>						<b>\$306,226</b>
<b>Other</b>						
CASH	MACKENZIE GLOBAL TACTICAL INVESTMENT GRADE BD FD SERIES PWF (6526)	22,347.964	9.987	223,207	9.748	217,848
CASH	SIGNATURE CANADIAN BOND CORP CLASS EF NL (15137)	21,707.863	10.282	223,202	9.812	212,998
<b>Total Other</b>						<b>\$430,846</b>
<b>Total Account Holdings</b>				<b>\$761,478</b>	<b>\$737,072</b>	

The average cost and adjusted book value displayed on this statement incorporates re-invested dividends and/or mutual fund distributions and does not necessarily reflect your original purchase price. Please see Average Cost & Adjusted Book Value in the Statement Notes for more information.

## Monthly Activity

Date	Type	Activity	Description	Quantity	Price	Credit/Debit(-)
<b>Opening Cash Balance</b>						
<b>\$0.00</b>						
Feb. 01, 2018	CASH	DIVIDEND	PIMCO MONTHLY INCOME FUND (CANADA) CL M (505) REINVEST 01/31/18 @ \$14.3039 PLUS FRACTIONS OF 0.858 BOOK VALUE \$784.68	54		
Feb. 20, 2018	CASH	DIVIDEND	MACKENZIE GLOBAL TACTICAL INVESTMENT GRADE BD FD SERIES PWF (6526) REINVEST 02/16/18 @ \$9.7174 PLUS FRACTIONS OF 0.486	39		

## Monthly Activity - continued

Date	Type	Activity	Description	Quantity	Price	Credit/Debit(-)
			BOOK VALUE \$383.71			
Feb. 26, 2018	CASH	DIVIDEND	MANULIFE STRATEGIC INCOME FUND CL F NL (659) REINVEST 02/23/18 @ \$12.0046 PLUS FRACTIONS OF 0.781 BOOK VALUE \$189.45	15		

**Closing Cash Balance**

**\$0.00**



## Summary

### Income Summary

	This Period	Year-to-Date
<b>Total Income</b>	<b>\$0</b>	<b>\$0</b>

## A Note From ScotiaMcLeod

### Tax document update

If you selected "paperless delivery," your 2017 tax documents will be available on Scotia OnLine (select "Communication Centre" and "Brokerage Tax Documents"). Paperless tax documents will not be mailed to you: you can save them as PDF and print if you require hard copies (note: we recommend using an updated browser for this).

Tax documents have different delivery deadlines and will be posted as they become available. Please check Scotia OnLine regularly for your tax documents (and any amendments) between now and the end of March to ensure you have all the required tax information before filing your return.

**Terms and Conditions**

Terms and Conditions are applicable to your account(s). For further details of these terms and conditions go on-line or speak to your Investment Advisor.  
<http://www.scotiabank.com/ca/common/pdf/scotiamcleod/TandC.pdf>

**Average Cost & Adjusted Book Value**

Adjusted book value is average cost times the number of shares that you hold of a security. The average cost and adjusted book value displayed on this statement may represent: 1) your total cost, including commission and fees, of acquiring the security, 2) the value at the time the security was transferred into the account, 3) the effect of subsequently re-invested dividends and/or mutual fund distributions, 4) revisions as a result of security reorganizations and other corporate actions, 5) values which you have provided and requested that we reflect, or a combination of the foregoing. A statement message will advise you that an adjustment has been made in the month it occurs. This information has been calculated to the best of our ability unless provided by you. This information should not be used for the purposes of tax reporting.

**Statement Frequency**

Statements are issued whenever there has been activity in the account during the past month; otherwise statements are issued on a quarterly basis.

**Leverage / Margin Risk Disclosure Statement**

The use of leverage may not be suitable for all investors. Using borrowed money (whether through a margin account or any other method of borrowing) to purchase securities involves greater risk than using cash resources only. If you borrow money to purchase securities, your responsibility to repay the loan and pay interest as required by its terms remains the same even if the value of the securities purchased declines.

**Wealth Advisor Information**

Details of the individual representative who accepted your order(s) are available upon request. Please contact the Branch Manager.

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**Asset Class Summary**

Asset classes you hold will be displayed under the Asset Class Summary section in the statement. Only the asset classes of securities you hold in your account will be displayed on your statement. The classification "Other" includes Principal Protected Notes, Principal at Risk Notes, and some Exempt Market products. Please speak directly with your Wealth Advisor to ensure you understand the products held in your account. The term "Total Value of Account" refers to the total market value of priced securities within your account, by currency, including cash balances at the close of the date indicated.

**Income Summary (Regular Accounts Only)**

Dividend and/or interest income that has been credited to your account this month and year-to-date are summarized in this section. Accrued or deemed interest on debt or discount securities purchased or sold is not included.

**Payment Information (RIF and LIF Accounts Only)**

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**Remuneration for Order Flow**

In connection with certain trades in securities that are executed for you in the U.S. marketplace, ScotiaMcLeod will receive remuneration for directing orders to a particular broker-dealer or market center for execution. The source and amount of any such remuneration received by ScotiaMcLeod in connection with any transaction executed on your behalf shall be disclosed to you upon request.

**Member - Canadian Investor Protection Fund**

Customers' accounts are protected by the Canadian Investor Protection Fund within specified limits. A brochure describing the nature and limits of coverage is available upon request.

**Endnotes**

1. There has been an adjustment made to this book value during the statement period.
2. There is no active market for this investment, and therefore the market value has been estimated.
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5. Some or all of the book value of this position has been determined using a market value calculation.
6. The book value of this position cannot be determined.

**Other Information**

Employees of The Bank of Nova Scotia ("Scotiabank") and/or ScotiaMcLeod are not authorized to provide tax or legal advice. Please consult your accountant or lawyer on such matters.

The financial statement of Scotiabank and Scotia Capital Inc. as at the close of the last financial year and a current list of directors and officers will be furnished upon request. Clients in British Columbia are entitled to certain additional information about ScotiaMcLeod, including information about commissions and fees that we charge, and about any administrative proceedings that may relate to the firm or its staff.

This statement reflects all obligations of the firm to you. Please examine this statement of account promptly. Any errors or omissions or unauthorized discretionary transactions must be reported in writing within 60 days as of the date of this statement to: Scotia Capital Inc. Director, Compliance, 20 Queen St. W - 4th Floor Toronto, Ontario M5H 3R3 or you will be precluded from asserting that errors or omissions have occurred.

T: 1-800-377-0065 F: 416-350-3088  
 em: [scotiamcleodcomplaints@scotiabank.com](mailto:scotiamcleodcomplaints@scotiabank.com)

**Code Information**

<b>Code:</b>	Nonvot	Resvot	Subvot
<b>Definition:</b>	Non-voting	Restricted Voting	Subordinate voting

ACPCE07 - 7644  
 SWSTM11000\_1130189\_001 E D **02740** 

ST. CLAIR REGION CONSERVATION  
 AUTHORITY  
 205 MILL POND CRES  
 STRATHROY ON N7G 3P9

Account Number: **460-16010**  
 Account Type: Regular Account  
 For the Period: **March 1 to 29, 2018**  
 Last Statement: February 28, 2018



**Address Information**

255 Queens Avenue  
 Suite 900  
 London ON  
 N6A 5R8



Phone: (519) 679-9490  
 Website: [www.scotiawealthmanagement.com](http://www.scotiawealthmanagement.com)  
 Branch Manager: Matt Berry

**Your Wealth Advisor**

Craig Emptage (519) 660-3259  
[craig.emptage@scotiawealth.com](mailto:craig.emptage@scotiawealth.com)

**CANADIAN Account Overview**

Currency: CANADIAN DOLLAR

Asset Class Summary	Mar. 29, 2018 Market Value	% of Total Assets
 <b>Fixed Income</b>	306,841	41.48
 <b>Other</b>	432,756	58.52
<b>Total Value of Account</b>	<b>\$739,597</b>	<b>100.00</b>
Total Value on Last Statement, February 28, 2018	\$737,072	



JTA2473165-0016423-02740-0003-0001-00-



## Details of Your Account Holdings

Type	Security Description	Quantity	Average Cost	Adjusted Book Value	Market Price	Market Value
<b>Fixed Income</b>						
CASH	MANULIFE STRATEGIC INCOME FUND CL F NL (659)	6,323.023	12.730	80,498	11.974	75,712
CASH	PIMCO MONTHLY INCOME FUND (CANADA) CL M (505)	16,244.671	14.484	235,301	14.228	231,129
<b>Total Fixed Income</b>						<b>\$306,841</b>
<b>Other</b>						
CASH	MACKENZIE GLOBAL TACTICAL INVESTMENT GRADE BD FD SERIES PWF (6526) See Endnote 1	22,411.037	9.987	223,819	9.738	218,239
CASH	SIGNATURE CANADIAN BOND CORP CLASS EF NL (15137)	21,707.863	10.282	223,202	9.882	214,517
<b>Total Other</b>						<b>\$432,756</b>
<b>Total Account Holdings</b>				<b>\$762,820</b>	<b>\$739,597</b>	

The average cost and adjusted book value displayed on this statement incorporates re-invested dividends and/or mutual fund distributions and does not necessarily reflect your original purchase price. Please see Average Cost & Adjusted Book Value in the Statement Notes for more information.

## Monthly Activity

Date	Type	Activity	Description	Quantity	Price	Credit/Debit(-)
<b>Opening Cash Balance</b>						
<b>\$0.00</b>						
Mar. 01, 2018	CASH	DIVIDEND	PIMCO MONTHLY INCOME FUND (CANADA) CL M (505) REINVEST 02/28/18 @ \$14.2184 PLUS FRACTIONS OF 0.370 BOOK VALUE \$730.40	51		
Mar. 26, 2018	CASH	DIVIDEND	MACKENZIE GLOBAL TACTICAL INVESTMENT GRADE BD FD SERIES	63		

Monthly Activity - continued

Date	Type	Activity	Description	Quantity	Price	Credit/Debit(-)
			PWF (6526) REINVEST 03/23/18 @ \$9.7083 PLUS FRACTIONS OF 0.073 BOOK VALUE \$612.33			

**Closing Cash Balance** **\$0.00**

Summary



Income Summary

	This Period	Year-to-Date
<b>Total Income</b>	<b>\$0</b>	<b>\$0</b>



Starting in late April, clients with registered accounts (excluding RESPs) will be able to hold cash and securities in US dollars.

For more information, contact your Advisor Team.

A Note From ScotiaMcLeod

**Important Updates to the Relationship Disclosure Document and Terms and Conditions**

Please note that updates have been made to Section 1.13 ("Our Trading and Brokerage Practices") and Section 2.13 ("Currency Conversion") of the ScotiaMcLeod Relationship Disclosure Document and Terms and Conditions. Note that Section 2.5 ("General Terms and Conditions Applicable to All Accounts") has been amended to remove the disclosure regarding Multiple Markets in Canada as this information is covered in Section 1.13.

The updated version of the Relationship Disclosure Document and Terms and Conditions can be found here: [http://www.scotiabank.com/ca/common/pdf/scotiampleod/T\\_and\\_C\\_EN.pdf](http://www.scotiabank.com/ca/common/pdf/scotiampleod/T_and_C_EN.pdf). For a physical copy of the updated document contact our call centre at 1-866-437-4990 or your advisor to arrange for a copy to be sent to you.

**Updated ScotiaMcLeod Referral Disclosures Document**

Please be advised that updates have been made to the ScotiaMcLeod Referral Disclosures document, which can be found in the following link: <http://www.scotiabank.com/ca/common/pdf/scotiampleod/Ref-Disclosures-Eng-1115.pdf>. Alternatively, the document can be sent directly to you by contacting either the call centre at 1-866-437-4990 or your advisor team.

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### Tax document update

If you selected "paperless delivery," your 2017 tax documents will be available on Scotia OnLine (select "Communication Centre" and "Brokerage Tax Documents"). Paperless tax documents will not be mailed to you: you can save them as PDF and print if you require hard copies (note: we recommend using an updated browser for this).

Tax documents have different delivery deadlines and will be posted as they become available. Please check Scotia OnLine regularly for your tax documents (and any amendments) between now and the end of March to ensure you have all the required tax information before filing your return.

## Your Personal Investment Profile

The following information reflects your stated investment objectives and risk tolerance for this account, as well as your overall investment knowledge. If you would like to make any changes, have questions about whether or not this is appropriate for you or would like to discuss how your current investments correspond to this profile, please contact your Wealth Advisor.

For more information, please review Guidelines for Investment Objectives and Related Account Risk Factors in the ScotiaMcLeod Relationship Disclosure Document and Terms and Conditions brochure.

Alternatively, please visit <http://www.scotiabank.com/ca/common/pdf/scotiamcleod/TandC.pdf>.

### Investment Objectives

Income:	100%
Growth:	
Speculative Trading:	

### Risk Tolerance

Low:	85%
Medium:	15%
High:	

### Overall Investment Knowledge

Investment Knowledge:	Medium
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### Time Horizon

Long Term:	7+ Years
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**Terms and Conditions**

Terms and Conditions are applicable to your account(s). For further details of these terms and conditions go on-line or speak to your Investment Advisor.  
<http://www.scotiabank.com/ca/common/pdf/scotiamcleod/TandC.pdf>

**Average Cost & Adjusted Book Value**

Adjusted book value is average cost times the number of shares that you hold of a security. The average cost and adjusted book value displayed on this statement may represent: 1) your total cost, including commission and fees, of acquiring the security, 2) the value at the time the security was transferred into the account, 3) the effect of subsequently re-invested dividends and/or mutual fund distributions, 4) revisions as a result of security reorganizations and other corporate actions, 5) values which you have provided and requested that we reflect, or a combination of the foregoing. A statement message will advise you that an adjustment has been made in the month it occurs. This information has been calculated to the best of our ability unless provided by you. This information should not be used for the purposes of tax reporting.

**Statement Frequency**

Statements are issued whenever there has been activity in the account during the past month; otherwise statements are issued on a quarterly basis.

**Leverage / Margin Risk Disclosure Statement**

The use of leverage may not be suitable for all investors. Using borrowed money (whether through a margin account or any other method of borrowing) to finance the purchase of securities involves greater risk than using cash resources only. If you borrow money to purchase securities, your responsibility to repay the loan and pay interest as required by its terms remains the same even if the value of the securities purchased declines.

**Wealth Advisor Information**

Details of the individual representative who accepted your order(s) are available upon request. Please contact the Branch Manager.

**Cash Balances**

This section shows the balance in your account, including all transactions that have settled. A debit balance is indicated by "-" and represents an amount owed to Scotia Capital Inc. ("ScotiaMcLeod"). Free credit balances in Regular accounts represent funds payable on demand which, although properly recorded in our books, are not segregated and may be used in the conduct of our business. Cash balances in Registered accounts are held in trust by the trustee.

**Asset Class Summary**

Asset classes you hold will be displayed under the Asset Class Summary section in the statement. Only the asset classes of securities you hold in your account will be displayed on your statement. The classification "Other" includes Principal Protected Notes, Principal at Risk Notes, and some Exempt Market products. Please speak directly with your Wealth Advisor to ensure you understand the products held in your account. The term "Total Value of Account" refers to the total market value of priced securities within your account, by currency, including cash balances at the close of the date indicated.

**Income Summary (Regular Accounts Only)**

Dividend and/or interest income that has been credited to your account this month and year-to-date are summarized in this section. Accrued or deemed interest on debt or discount securities purchased or sold is not included.

**Payment Information (RIF and LIF Accounts Only)**

The information displayed reflects our records as of the statement date. Minimum Annual Payment refers to the minimum annual amount required from your RRIF account by Canada Revenue Agency. If, according to our records, you have elected to receive an annual amount greater than the minimum payment, then this amount will be displayed as the Elected Payment Amount. Withholding tax will be charged for amounts withdrawn in excess of the Minimum Annual Payment. The Year to Date Payment amount displayed is the total amount of the payments sent to you, after withholding tax has been deducted, if applicable.

**Monthly Activity**

This section shows all the activity in your account during the month. The Date column refers to the settlement date in the case of executed trades, or processing date in the case of other entries. Direct Funds Transfers made to your account on the last business day of the month may not appear on your month end statement until the following month.

**Short Account**

Proceeds from declared short sales have been segregated into a SHORT account and market increases and/or decreases from the original sale price are marked to the market. Such increases and or decreases are transferred to your margin account weekly. Transfers are reflected with the description "Mark to Market."

**Details of Your Account Holdings**

The market valuation information has been obtained from sources believed to be reliable; however, we cannot guarantee their accuracy. Our best efforts have been made to price all securities; however, in some circumstances, we may be unable to obtain valuations. A current market quotation can be made available upon request.

**Segregated Quantity**

Securities regulations stipulate that all fully paid and excess margin securities must be promptly segregated and are not available for use in the general conduct of our business. All security positions displayed under the account holdings section are segregated unless otherwise indicated. Should there be a security in which the account holds a portion of the quantity segregated and a portion registered in your name, this will be indicated under the security description column.

**Remuneration for Order Flow**

In connection with certain trades in securities that are executed for you in the U.S. marketplace, ScotiaMcLeod will receive remuneration for directing orders to a particular broker-dealer or market center for execution. The source and amount of any such remuneration received by ScotiaMcLeod in connection with any transaction executed on your behalf shall be disclosed to you upon request.

**Member - Canadian Investor Protection Fund**

Customers' accounts are protected by the Canadian Investor Protection Fund within specified limits. A brochure describing the nature and limits of coverage is available upon request.

**Endnotes**

1. There has been an adjustment made to this book value during the statement period.
2. There is no active market for this investment, and therefore the market value has been estimated.
3. There is no active market for this investment, and the market value cannot be determined.
4. If this position is sold, a sales charge may be applied to the proceeds.
5. Some or all of the book value of this position has been determined using a market value calculation.
6. The book value of this position cannot be determined.

**Other Information**

Employees of The Bank of Nova Scotia ("Scotiabank") and/or ScotiaMcLeod are not authorized to provide tax or legal advice. Please consult your accountant or lawyer on such matters.

The financial statement of Scotiabank and Scotia Capital Inc. as at the close of the last financial year and a current list of directors and officers will be furnished upon request. Clients in British Columbia are entitled to certain additional information about ScotiaMcLeod, including information about commissions and fees that we charge, and about any administrative proceedings that may relate to the firm or its staff.

This statement reflects all obligations of the firm to you. Please examine this statement of account promptly. Any errors or omissions or unauthorized discretionary transactions must be reported in writing within 60 days as of the date of this statement to: Scotia Capital Inc. Director, Compliance, 20 Queen St. W - 4th Floor Toronto, Ontario M5H 3R3 or you will be precluded from asserting that errors or omissions have occurred.

T: 1-800-377-0065 F: 416-350-3088  
 em:scotiamcleodcomplaints@scotiabank.com

**Code Information**

<b>Code:</b>	Nonvot	Resvot	Subvot
<b>Definition:</b>	Non-voting	Restricted Voting	Subordinate voting

<b>SCRCA Joint Health &amp; Safety Committee Meeting</b> <b>Agenda – Draft</b> Wednesday November 29, 2017, 8:30 a.m		Upper Board Room 205 Mill Pond Cres. Strathroy, ON	
<b>Meeting called by:</b>	JHSC Committee	<b>Type of meeting:</b>	Quarterly
<b>Facilitator:</b>	D. Skinner	<b>Minutes:</b>	Kelli Smith
<b>Attendees:</b>	K. Baker, G. Baxter, S. Hodgkiss, D. Cundick		
<b>Guests:</b>			
<b>Please read:</b>	Minutes from previous meeting & come prepared to present information on your Action Items (see 2.1)	<b>Please bring:</b>	Inspection reports
<b>Agenda Items</b>			
<b>1. Motion to approve September 27, 2017 meeting minutes (Kevan)</b> Moved by: Sarah H Seconded by: Glenn B <b>Carried</b>			
<b>2. Business arising from the minutes</b> <ol style="list-style-type: none"> <li>2.1. Review of Action Items:</li> <li>2.2. Election of new staff representative (Dallas, Kevan and Sarah)               <ul style="list-style-type: none"> <li>- Glenn Baxter was elected as worker rep.</li> </ul> </li> <li>2.3. Assigned sub-committee for Evacuation Accountability Plan – Will revise existing at meeting(Kevan)               <ul style="list-style-type: none"> <li>- Update current policy, and bring revised copy to March meeting. Kevan to contact fire department/Fire Chief</li> </ul> </li> <li>2.3. Report on alternatives/solutions regarding Shane's workspace (Girish)               <ul style="list-style-type: none"> <li>- Waiting on update from Girish</li> </ul> </li> <li>2.5. Confirm policies (i.e. Dam Safety, Visitor Policy, Violence Policy &amp; Procedure and Harassment Policy &amp; Procedure) have been added to admin manual (Dallas)               <ul style="list-style-type: none"> <li>- Admin manual to be updated to include health and safety policies as appropriate</li> <li>- Dallas to confirm updates and policies are in health and safety manual</li> </ul> </li> <li>2.6. Is McLean considered a workplace that requires semiannual inspections? (Kevan)               <ul style="list-style-type: none"> <li>- Yes, December inspection scheduled, at workshop</li> </ul> </li> </ol> <p><b>Kevan Baker</b> to report on:</p> <ol style="list-style-type: none"> <li>2.7. Review of Incident/Injury Investigation Reports since Sept 29, 2017 meeting               <ul style="list-style-type: none"> <li>- Everyone is healthy and safe</li> </ul> </li> <li>2.8. Administrative Support               <ul style="list-style-type: none"> <li>- Ashley to be administrative support for committee</li> </ul> </li> <li>2.9. Upcoming Workplace Inspections               <ul style="list-style-type: none"> <li>• Henderson – October 19 (Don/Kevan) Completed no concerns</li> <li>• Warwick – October 26 (Don/Kevan) 220 plug required repair/replacement, everything else satisfactory</li> </ul> </li> </ol>			

- Campbell – November 16 (Don/Kevan)  
Completed, no concerns
- McLean – December 7 (Don/Kevan)

### 3. Area Reports & Workplace Inspections

- 3.1. LCH, WWK, AWC, McLean - (**Kevan & Glenn**)
  - Inspection for McLean scheduled for December
- 3.2. LCH Education Centre – (**Kevan**)
- 3.3. General CAs - Strathroy, CW, McKeough - (**Sarah H.**)
  - Carbon monoxide and smoke detectors in Clark Wright workspace
- 3.4. Other Departments (**JHSC as received**)

### 4. New Business

- 4.1. Review of Incident/Injury Investigation Reports since September 27, 2017 meeting
- 4.2. Evacuation of office held on **November 7, 2016** – suggestions re: accountability of staff once we meet at the front sign
- 4.3. Establish new Health & Safety goals for 2018
  - Appoint worker rep for 2018 – Sarah's term is ending
  - Follow goals and objectives of 2017
- 4.4. Establish roles for JHSC Members for 2018
  - Motion for co-chair, Dallas nominates Sarah, seconded by Glenn; carried
  - Glenn to conduct workplace inspections for all campgrounds
  - Sarah and Dallas to split workplace inspections for Strathroy office, Clark Wright, McKeough
- 4.5. Establish JHSC Meeting dates for 2018
  - Sarah to update based on calendars
- 4.6. Establish new Workplace Inspection Calendar for 2018
  - Sarah to update based on calendars
- 4.7. Glenn to advise committee on certification schedule

### 5. Goals and Objectives in 2017

- 5.1. To regularly review MOL website to educate ourselves and learn from documented investigations and fines (ongoing)
- 5.2. To review Health and Safety Manual and make changes as necessary (ongoing)
- 5.3. To appoint a worker rep. in October, 2017 for a 3-year term (to replace Don Skinner)
- 5.4. Conduct workplace inspections as required (at least one location each month)
- 5.5. To encourage supervisors to complete safety reviews and 5-point check lists on a more frequent basis (ongoing)
- 5.6. To update the JHSC files on the O drive (ongoing)
- 5.7. To recommend that Supervisors schedule retraining refreshers with their staff, once a month (ongoing)
- 5.8. To send occasional Health & Safety Bulletins to all staff (i.e. Hot & Cold Weather Alerts forwarded to all staff as received from Lambton Public Health)

### 6. Proposed next meeting dates: March 28, 2018

### 7. Adjournment

Moved by: Dallas C  
Seconded by: Sarah H  
**Carried**

**Misc. Information**

<b>Contacts:</b>	Worker Co-chair: Management Co-chair: Workplace Inspectors: Worker Reps.: Meeting Recorder:	<b>Don Skinner (term completed 30-Nov-2017)</b> Kevan Baker Sarah Hodgkiss, Don Skinner, Kevan Baker Glenn Baxter, Sarah Hodgkiss, Dallas Cundick Kelli Smith
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*Kevan Baker*

Signature of Co-Chair

*March 21/2018*

Date

*Sarah Hodgkiss*

Signature of Worker Representative

*March 21/2018*

Date

**Meeting Date:** April 19, 2018  
**Report Date:** March 22, 2018  
**Submitted by:** Kelly Johnson

**Item 15.1**

**Subject:** St. Clair River Area of Concern Update

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**Recommendation:**

That the Board of Directors acknowledges the St. Clair River Area of Concern report dated March 22, 2018.

**Background:**

Upon request of the Walpole Island Heritage Committee April White of Environment and Climate Change Canada along with Kelly Johnson, St. Clair River Remedial Action Plan Coordinator attended the Walpole Island First Nation Chief and Council meeting on February 27, 2018. April White made a presentation to Chief and Council regarding re-designation of the Beneficial Use Impairments (BUIs) – “Bird or Animal Deformities or Reproductive Problems”, “Restrictions on Dredging” and “Beach Closings”. Chief and Council voted to acknowledge the recommendation. Aamjiwnaang First Nation previously passed a similar motion in regard to re-designation of the BUIs. Support to re-designate the BUIs from “Impaired” to “Not Impaired” has also been received from the Canadian RAP Implementation Committee (CRIC) and the Bi-National Public Advisory Council (BPAC). The three BUIs will now continue on through the re-designation process.



**Meeting Date:** April 19, 2018  
**Report Date:** April 3, 2018  
**Submitted by:** Nicole Drumm

**Item 15.2**

**Subject:** SCRCA Project Tour

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Staff is proposing a Conservation Authority Project Tour on Thursday, June 28, 2018 from 8:30a.m. to 12:00p.m. The bus will leave and return to the Mooretown Sports Complex. We will have lunch followed by the Board meeting. This year, we will be focusing on projects in the western portion of our watershed.

### **Proposed Tour Highlights**

- Courtright Waterfront Park Shoreline Improvement Project
- Aamjiwnaang Shoreline Naturalization Project
- Guthrie Park; Area of Concern update
- Bear Creek Barrier Removal
- Stewardship Projects
- Moore Wildlife Habitat Management Area

# 2018 Special Events

## Soil Health Conference

Date: Thursday, February 15, 2018

Time: 8am to 5pm

Location: John Bradley Convention Centre, Chatham

## A.W. Campbell Maple Syrup Festival

Date: Saturday, March 17 to Sunday, March 18, 2018

Time: 10am to 3pm

Location: A.W. Campbell Conservation Area



## Sydenham River Canoe and Kayak Race

Date: Sunday, April 22, 2018

Registration: 10am to 11am

Start Location: Mossie Line at the Sydenham River

End Location: Shetland Conservation Area



## Denning's Strathroy Memorial Forest Dedication

Date: Sunday, May 27, 2018

Time: 2pm

Location: 32 Metcalfe Street West, Strathroy

## Member's Project Tour

Date: Thursday, June 28, 2018

Time: 8:30am to 12:00pm

## Great Canadian Shoreline Cleanup – Ipperwash Beach

Date: Saturday, September 8, 2018

Time: 9am to 11am

Location: Centre Ipperwash Beach boat launch



## Denning's Chatham-Kent and West Elgin Memorial Forest Dedication

Date: Sunday, September 16, 2018

Time: 2pm

Location: Keith McLean Conservation Lands

## A Geocaching Adventure

Date: Sunday, September 16, 2018

Time: 9am

Location: Lorne C. Henderson Conservation Area

## Foundation Memorial Forest Dedication

Date: Sunday, September 23, 2018

Time: 2pm

Location: Lorne C. Henderson Conservation Area



**Meeting Date:** April 19, 2018  
**Report Date:** April 4, 2018  
**Submitted by:** Sharon Nethercott, Melissa Gill

**Item 15.4**

**Subject:** Conservation Education Progress Report

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### **Winter Programing**

Thanks to the Sarnia Lambton Environmental Association, Groundwater and River Bottom Critters programs were the focus of our winter season for students in Kindergarten to Grade 12. Several primary classes also visited Henderson Conservation Area, experiencing an enjoyable and educational winter program with snow on the ground! Union Gas Funding for the Spring Water Awareness Program has ended after 7 years. Staff is currently looking for a new funding source to continue this informative and educational safety program.



*Winter programing at the LC Henderson Conservation Area*

### **Healthy Kids Community Challenge**

Power off and Play, Funded by Ministry of Health and Long-Term Care. The SCRC received \$8,000 in grant money to promote being active. Staff designed a school yard winter program to encourage kids to get outside and play. 6 classes at 5 different schools each participated in 40 minutes of outside nature activities. Post cards promoting hiking trails at our C.A.'s were also distributed to encourage families to visit C.A.'s.

### **Education Fees**

Education Fees have not increased in over 15 years. They are currently under review for the 2018/2019 school year.

### **Special Events**

*Maple Syrup Festival:* The Alvinston Maple Syrup Festival was a popular place to spend the last weekend of March Break. Bright sunny days and cold frosty nights made for great weather conditions and helped to keep the ground a little less muddy. Over 1,300 visitors walked the trails and viewed the historic displays of making maple syrup.

*Canoe Race:* April 22 is set aside for this year's paddle down the Sydenham. Find a partner and enjoy the beauty of the river on Earth Day! Registration begins at 10:00 a.m.

### **Specialist High Skills Major (SHSM)**

Staff is currently developing two new Certification Workshops to add to our SHSM program offerings; Animal and Plant Management, and Habitat Restoration. Both Certifications will focus on Species at Risk within the Sydenham watershed. Students will be introduced to the ways SCRCA manages Conservation Areas to protect and improve habitat for local Species at Risk.

### **ICE Training**

ICE (Innovation, Creativity and Entrepreneurship) training partnerships continue to grow. SCRCA education staff have two training sessions planned for spring 2018. One partnership with St. François Xavier French Catholic School, Sarnia, will focus on improving the trails at LC Henderson C.A. The other training with Holy Cross Catholic School in Strathroy will focus on coping with mental health issues amid today's stresses by spending time in nature.

### **Fun Fest**

SCRCA staff will be participating in Kids Fun Fest 2018 on Saturday June 9th in Sarnia. The booth will promote camping and SCRCA programs. SCRCA staff will provide children with a hands-on nature themed activity. Past years have included themes such as nest building, mud painting, temporary nature art, and nature-themed games.



*Education staff were on hand at the Maple Syrup Festival to teach visitors about maple syrup production*



*Hands-on nature themed activity at last year's Sarnia Kid's Fun Fest*