



Board of Directors *Notice of Meeting*

**April 23rd - 10:00 a.m., Strathroy-Caradoc Municipal Office
52 Frank Street, Strathroy – second floor**

Tentative Agenda

1. Chair's Remarks
2. Declaration of Pecuniary Interests
3. Minutes
4. General Manager's Report
5. Chair & Conservation Ontario Report
 - (i) Minutes of March 30, 2015 meeting
6. Business arising from last meeting
7. Conservation Area Reports
 - (i) Conservation Areas Update
 - (ii) Agricultural Land Lease report
8. Water Resources Reports
 - (i) Current Watershed Conditions
 - (ii) Cathcart Park Shore Protection Revitalization Project
 - (iii) 2014-15 WECI Projects
 - (iv) Climate Change Trend Analysis
 - (v) Equestrian Activities in the McKeough Floodway
9. Biology Reports
 - (i) Healthy Watersheds
 - (ii) Summarized Municipal Drain Review activities
 - (iii) Water Quality and Biodiversity
 - (iv) Kettle and Stony Point First Nation Partnership
 - (v) Agricultural Management Plans for McKeough Upstream Properties
10. Conservation Services Report
 - (i) Conservation Services Report
 - (ii) Larvicide Report
11. Planning Department Reports
 - (i) Regulations Summary Report
 - (ii) Monthly Planning Activity Summary Report
 - (iii) Hazard land Fragmentation
 - (iv) St. Clair River AOC update
 - (v) Dart Activity Report
 - (vi) Memorandum of Agreement for Planning Advisory services

12. Finance Reports
 - (i) Revenue & Expenditure Report
 - (ii) January, February & March disbursements
 - (iii) 2014 General Levy update
 - (iv) Investment Statements
 - (v) Accessibility Improvements
 - (vi) Employment Program Report
 - (vii) Joint Health & Safety Committee Meeting minutes
 - (viii) Insurance Presentation
13. Communications Reports
 - (i) Bus Tour
 - (ii) Conservation Education
14. New Business
15. Adjournment

Please contact Marlene (call 519-245-3710, 1-866-505-3710 or e-mail mdorrestyn@scrca.on.ca) at the Administration Office by April 20th, if you are unable to attend.

April 23, 2015

Board of Directors Proposed Resolutions

2. It is requested that each Director declare a conflict of interest at the appropriate time, on any item within this agenda in that a Director may have pecuniary interest.
3. (i) Moved by: _____ Seconded by: _____
That the minutes of the Board of Directors meeting, held February 19, 2015, be approved as distributed.
4. (i) Moved by: _____ Seconded by: _____
That the Board of Directors acknowledges the General Manager's report, dated April 14, 2015.
5. (i) Moved by: _____ Seconded by: _____
That the Board of Directors acknowledges the report regarding the Conservation Ontario meeting of March 30, 2015.
6. (i) Moved by: _____ Seconded by: _____
That the Board of Directors acknowledges the updates on business arising from the February 19, 2015 Board of Director's meeting.
7. (i) Moved by: _____ Seconded by: _____
That the Board of Directors acknowledges the Conservation Lands Update dated April 10, 2015, outlining development and management activities on Conservation Areas, McKeough Upstream Lands and Foundation Lands.
7. (ii) Moved by: _____ Second by: _____
That the Board of Directors acknowledges the Agricultural Land Lease report dated April 10, 2015 and approves the increase in lease lengths from 3 to 5 years.
8. (i) Moved by: _____ Seconded by: _____
That the Board of Directors acknowledges the report dated April 10, 2015 on the current watershed conditions and Great Lakes water levels.
8. (ii) Moved by: _____ Seconded by: _____
That the Board of Directors acknowledges the report dated April 9, 2015 on the Cathcart Park Shore Protection Revitalization Project and LAWSS Repair project.

8. (iii) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 9, 2015 on Water and Erosion Control Infrastructure Projects and approves the projects submitted for funding in 2015-2016 and further will assist staff in obtaining matching funds, where required, to support these projects upon confirmation of funding approval.
8. (iv) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 9, 2015, on the Climate Change trend analysis on the watershed.
8. (v) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated March 27, 2015, regarding Equestrian activities in the McKeough Floodway and further that staff be directed to review the status of the equestrian access experiment and provide a report with recommendations to the Board of Directors this fall.
9. (i) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 10, 2015 on the Healthy Watersheds Program in Lambton Shores – a Five Year Review, and endorses staff efforts to engage private landowners in Best Management Practices to improve the surface water quality.
9. (ii) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 8, 2015 summarizing Municipal Drain Review activities and the outcome of the Great Lakes Sustainability Fund Municipal Drain Habitat Enhancement Program.
9. (iii) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 13, 2015 on Water Quality and monitoring aquatic bioindicator species in the SCRCA, and acknowledges the value of continuing to support monitoring and reporting on the aquatic health of St. Clair Conservation watersheds.
9. (iv) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 13, 2015 on the Kettle and Stony Point First Nation Partnership, and endorses continued staff involvement in youth education and community outreach and engagement at Kettle and Stony Point.
9. (v) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 8, 2015 on the Agricultural Management Plans for the McKeough Upstream Properties and the projects implemented as a result of these plans.

10. (i) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 9, 2015 regarding Conservation Services projects and programs.
10. (ii) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 9, 2015 on the application of Larvicide to catch basins in Lambton County for the control of West Nile Virus in 2015.
11. (i) Moved by: Seconded by:
That the Board of Directors acknowledges and concurs with the Regulations Summary Reports on "*Development, Interference with Wetlands & Alterations to Shorelines & Watercourses*" Regulations (Ontario Regulation 171/06), for February and March 2015.
11. (ii) Moved by: Seconded by:
That the Board of Directors acknowledges the St. Clair Region Conservation Authority's monthly Planning Activity Summary Reports for February and March 2015.
11. (iii) Moved by: Seconded by:
That the Board of Directors acknowledges the discussion paper dated April 10, 2015 on hazard land fragmentation and further that Authority staff be directed to develop guiding principles and municipal plan review and input policy on the fragmentation of hazard lands for review by the Board of Directors.
11. (iv) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 7, 2015 regarding the St. Clair River Area of Concern (AOC).
11. (v) Moved by: Seconded by:
That the Board of Directors acknowledges the report, dated April 7, 2015 on Drainage Act and Conservation Authority Act Protocol (DART) Municipal drain activities for January, February and March 2015.
- 11.(vi) Moved by: Seconded by:
That the Board of Directors acknowledges the signing of the enclosed Memorandum of Agreement for planning advisory services between the County of Lambton Planning Department and St. Clair Region Conservation Authority and that staff endeavour to seek similar MOA's with other upper and lower tier municipalities.
12. (i) Moved by: Seconded by:
That the Board of Directors acknowledges the revenue and expenditure report to March 31, 2015, as it relates to the budget.

12. (ii) Moved by: Seconded by:
That the Board of Directors approves the January, February and March 2015 disbursements as presented in the amount of \$1,265,590.93.
12. (iii) Moved by: Seconded by:
That the Board of Directors acknowledges the status report on the 2015 general levy receipts to date.
12. (iv) Moved by: Seconded by:
That the Board of Directors acknowledges the 2014 Investment Statement and March 31, 2015 report.
12. (v) Moved by: Seconded by:
That the Board of Directors acknowledges the report, dated April 13, 2015 regarding accessibility improvements to the Administration Office.
12. (vi) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 14, 2015 on the approval from the Ministry of Training, Colleges and University for the JCP program involving eight participants.
12. (vii) Moved by: Seconded by:
That the Board of Directors acknowledges the minutes of the Joint Health and Safety Committee meeting held December 4, 2014.
- 12.(viii) Moved by: Seconded by:
That the Board of Directors acknowledges the presentation by Paul Speck, Marsh Insurance Canada, regarding Authority policy and Authority and Board liability.
13. (i) Moved by: Seconded by:
That the Board of Directors acknowledges the report dated April 14, 2015 on the proposed project tour scheduled for June 25, 2015.
13. (ii) Moved by: Seconded by:
That the Board of Directors acknowledges the Conservation Education Report, dated April 14, 2015 including the winter programming, program development and expansion, Special Events, and Community Partnerships.
15. Moved by: Seconded by:
That the meeting be adjourned.

General Manager's Report 4. (i)



To: Board of Directors
Date: April 14, 2015
From: Brian McDougall, General Manager

New Member Orientation

- ☞ staff hosted 9 Board members at the orientation for new members on April 2nd
- ☞ senior staff made a presentation outlining the works undertaken in their sector of the organization
- ☞ several diverse questions and enlightening discussions provided a well-rounded introduction to the Authority

The Coastal Centre

- ☞ the Lake Huron Centre For Coastal Conservation is an organization formed to work with partners to achieve a healthy Lake Huron coastal ecosystem
- ☞ they are a partner with the Authority in the Healthy Lake Huron program and we continue to look for additional partnership opportunities
- ☞ they have provided us with copies of their 2013 and 2014 Annual Report for your review

Ipperwash Beach Management Working Group

- ☞ as directed by the Board at their February meeting, I have been attending the working group meetings as the Authority's representative
- ☞ this group has been established to provide a forum for the parties to discuss their views regarding Ipperwash Beach, share perspectives, reconcile differences, and seek an agreement about the management of the beach
- ☞ by next week's Board Meeting the group will have met 6 times and have been able to achieve agreement by all parties regarding the establish signage and control structures that will all but eliminate motorized vehicles on the centre Ipperwash section of the beach for 2015
- ☞ the group has a couple of significant issues to work on in the near future
- ☞ the long term management plan for centre Ipperwash beach and the management of the Ministry of Natural Resources and Forests (MNRF) properties
- ☞ these properties have provided the public with access to the beach, washroom facilities, garbage collection and off street parking
- ☞ due to funding cutbacks and reduced focus on recreation, MNRF is no longer able to undertake maintenance on these properties and Ontario Parks, who has been helping with maintenance in the recent past, are no longer able to assist

- ☞ all parties represented in the working recognize that these are important public properties to provide public access to one of the finest beaches on Lake Huron, however with additional benefits of improved tourism and economic stimulus, which could result for the additional public attraction to the area – this maintenance is seen as a priority
 - ☞ MNRF is seeking one group to act as a lead in a community cooperative group to sign an agreement to undertake the long term management and maintenance of these Provincially owned properties
 - ☞ there is concern however, that such an agreement will not be in place for the quickly approaching beach season
 - ☞ the Authority, the Municipality of Lambton Shores and the Kettle and Stony Point First Nation are all options to undertake this maintenance for 2015
 - ☞ maintenance of these properties cannot be accomplished within the Authority's current work plan
 - ☞ administration of contracts with local contractors may be feasible but the list of required tasks must be developed to ensure that needs are met and the contractors are in place to meet these needs
- ☞ **Reminder:** *the next Board Meeting will coincide with the Authority's Annual Project Tour on June 25th*



Ontario Minister of the Environment Jim Bradley presents Award of Environmental Excellence to Coastal Centre Chair, Pamela Scharfe and Coast Resource Manager, Geoff Peach.

The Coastal Centre was presented with the Ontario Minister of the Environment's Award of Environmental Excellence on July 30, 2013 at Queen's Park. "This is a real honour, and so wonderful to have our Centre recognized for all the work we do for a better Lake Huron," said Coastal Centre Board Chair Pamela Scharfe.

Centre Researches Small Life in the Lake

The Coastal Centre received its second consecutive Science Horizons sponsored internship, a six-month funded position that enabled us to hire a recent graduate to carry out research along Lake Huron. This year, Jessica Frigault, a graduate of University of Guelph's Zoology program, was hired to study benthic invertebrates, the small bugs that live in nearshore lake sediments, and that can tell us about the state of health of our nearshore waters and beaches.



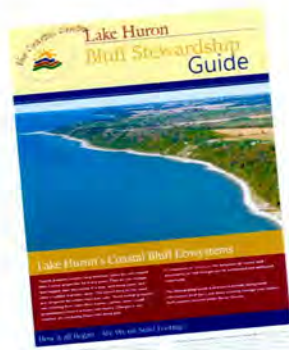
Celebrating Coastal Champions

Thanks to a grant from the Lake Simcoe-Southern Georgian Bay Stewardship Fund, the Coastal Centre will be spending the next three years implementing its "Green Ribbon Champion" landowner stewardship award program in the Township of Tiny on southern Georgian Bay. Private landowners are provided guidance on how to restore or enhance degraded beaches with stewardship advice from the Coastal Centre, and access to sand fencing, sensitive area signs and dune vegetation used to rehabilitate dune systems.

Municipal Coastal Clinics: practical seminars for Councils and staff

Municipal Coastal Clinics is a workshop series for municipalities to transfer information and best practices for beach management. In 2013, the Coastal Centre offered these one-hour seminars by webinar as an alternative and accessible way to share information. This year's clinics included Rural Stormwater Management, Species at Risk, and Phragmites Control Approaches.





New Bluff Stewardship Guide

The Coastal Centre released its Bluff Stewardship Guide; a new landowner resource developed by the Coastal Centre published and distributed in 2013.

This newspaper-style document provides landowners who live next to a bluff or gully along Lake Huron with important information on the nature of this special environment, and ways to reduce the risk from erosion, enhance biodiversity,

improve water quality and take adaptive measures with respect to climate change.

The guide is available online or in hard copy. Funding for this publication was made possible from the Erb Family Foundation, HIVA Foundation, Mountain Equipment Co-op, TD Friends of the Environment and Huron County Clean Water Project.

Other work in 2013...

- Phragmites research and control advice
- Dune restoration planting at Kincardine, Goderich, Huron-Kinloss and Sarnia, Ontario
- Participated as Regional Juror for the International 'Blue Flag' beach management program
- Participated on the inter-agency Southeast Shore Working Group
- Participated on the Maitland Valley Conservation Authority Water Action Team
- Participated on Huron County Water Protection Steering Committee
- Advisor to Pitcher's Thistle-Dune Grasslands Recovery Team
- Continued to develop an information-rich and interactive website
- Public awareness and interaction through E-news, Facebook and Twitter
- Coastal advisor to Conservation Authority partners
- Advised participating municipalities concerning local coastal issues
- Regular media interviews (from local to national) on Lake Huron issues



A Little Help from Our Friends...(funding partnerships)

- Saugeen Conservation
- Maitland Valley Conservation Authority
- Town of Saugeen Shores
- Municipality of Kincardine
- Township of Huron-Kinloss
- Township of Ashfield-Colborne-Wawanosh
- Town of Goderich
- Municipality of Central Huron
- Bruce Power
- Ontario Trillium Foundation
- Science Horizons (Environment Canada)
- Habitat Stewardship Program (Environment Canada)
- Bruce Resource Stewardship Network
- Great Lakes Guardian Fund (Ontario)
- Erb Family Foundation
- HIVA Foundation
- Mountain Equipment Co-op
- Grand Bend Community Foundation
- Nuclear Waste Management Organization
- Ontario Ministry of the Environment
- TD Friends of the Environment
- Private donors

Thanks to all those who assisted the Coastal Centre this year to advance the cause of coastal conservation.



Centre Mission:
To provide leadership and expertise, in collaboration with partners, to achieve a healthy Lake Huron coastal ecosystem.

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The Coastal Centre is a member of Living Lakes Canada, Coastal Zone Canada Association, and the International Association of Great Lakes Researchers.



Coastal Centre Holds 8th Biennial Conference



In June, The Coastal Centre held its 8th "Is the Coast Clear?" conference on Lake Huron's coastal environment. About 140 delegates congregated at the Oakwood Resort in Grand Bend to hear a group of experts discuss current and emerging issues challenging our shores. Keynote speaker, Mayor Mike Bradley, shared his views on a range of issues facing the

City of Sarnia, the largest city of Lake Huron. The second keynote speaker, Dr. Allan Crowe, talked about some of the challenges facing some of our lake's beaches and the need to embrace a new era of stewardship. Other talks included dune conservation, algae blooms, lake floor geology, and water stewardship programs.

Strategic Planning

The Coastal Centre undertook a review of its Strategic Plan which was first developed in 2003. The US-based organization Freshwater Future assisted with this review, which included a large external outreach to area organizations and individuals interested in the Coastal Centre's mission. The update is expected by late 2014 and will be posted on the Coastal Centre's website.

Research: *Climate Change Effects on Bluff Ecosystems*

The Coastal Centre embarked on its 3rd consecutive six-month research internship project in 2014. This year, Jasmine Bhurji, a geomorphology and geomatics specialist, is involved in investigating how climate change could affect our coastal bluffs, particularly with respect to influences on erosion and slope instability. Working with area conservation authorities, the Coastal Centre has drawn together information on historical erosion rates, temperature and precipitation trends, the role of ice and nearshore down-cutting, and the influence of human activity. This work will inform agencies, municipalities and landowners on what to pay attention to as changes to climate occurs.

This study was sponsored by the Science Horizons Youth Internship Program through Environment Canada.





"Caring for Our Coast" is a landowner guide produced by the Centre targeted to the Grand Bend to Ipperwash area. It includes tips on how to maintain or improve the coastal environment of this area.

The Coastal Centre produced a Stewardship Guide for the southern shores of Georgian Bay, intended for landowners, municipalities, agencies and anyone interested in the future of south Georgian Bay's shores.



Southern Georgian Bay SHORELINE STEWARDSHIP GUIDE



Other work in 2014...

- Phragmites control in Kincardine
- Beach stewardship in Tiny Township
- Guest panelist at Climate Change forum in Grand Bend
- Beach clean-ups at several shoreline communities
- Coast Watchers volunteer monitoring program
- Classroom presentations and dune restoration activities through our 'Living Beaches Coastal Studies' program
- Community 'Beach Talks' for those interested in learning more about beaches
- Presented Coastal Centre's position statement on Extreme Lake Levels
- Participated as Juror on the Great Lakes Blue Flag program
- Participated on Healthy Lake Huron group
- Participated on Huron Clean Water Committee
- Media interviews
- Provided advice to partner municipalities on coastal issues



A Little Help from Our Friends... (funding partnerships)

- Saugeen Conservation
- Maitland Valley Conservation Authority
- Town of Saugeen Shores
- Municipality of Kincardine
- Township of Huron-Kinloss
- Township of Ashfield-Colborne-Wawanosh
- Town of Goderich
- Municipality of Central Huron
- Bruce Power
- Healthy Lake Huron
- Environment Canada
- Nuclear Waste Management Organization
- Lake Huron Water Supply
- Ontario Trillium Foundation
- Huron County Clean Water Project
- Ministry of Environment and Climate Change
- B.M. Ross and Associates

Thanks to all those who assisted the Coastal Centre this year to advance the cause of coastal conservation.



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The Coastal Centre is a member of Living Lakes Canada, Coastal Zone Canada Association, and the International Association of Great Lakes Researchers.



**Conservation
ONTARIO**
Natural Champions

MISSION

*To promote and
continually
strengthen a
watershed-based
conservation
coalition in
Ontario*

COUNCIL MEETING AGENDA

ANNUAL GENERAL MEETING

March 30, 2015

Registration: 8:30 a.m.

Meeting Time: 9:00 – 3:00

Black Creek Pioneer Village

1000 Murray Ross Parkway, Downsview

1. Welcome from the Chair
2. Resolution re: AGM Date Change
3. Adoption of the Agenda
4. Declaration of Conflict of Interest
5. Approval of the Minutes of the Previous Meeting
6. Business Arising from the Minutes
7. Conservation Ontario’s 2014 Annual Report & Presentation
8. Conservation Ontario Members Survey of the 2014 Council Year 1-11
Members Survey – Videoconference. 12-13
9. 2014 Audit Findings Report and Financial Statements 14-54
Appointment of Auditors for 2015-2019 55
10. Voting Delegates & Alternates; 2015 Committee Representatives. . . 56-58
11. CO Council Orientation – Presentation
12. Election of Conservation Ontario Chair, 2 Vice Chairs and 3 Directors
13. Update on 2016-2020 CO Strategic Plan
14. Motion to move from Full Council to Committee of the Whole
15. Committee of the Whole - Items for Decision
 - 1) 2015 Special Projects Budget (K.Gavine, J.Dunning) 59-61
 - 2) Revisions to Multi-stakeholder 2015 Review Summit Areas of Agreement (B.Fox)* 62-66
 - 3) Climate Change Update & Conservation Ontario’s Comments on the “Climate Change Discussion Paper” (EBR# 012-3452)(J.Rzadki,L.Rich)* 67-80
 - 4) Conservation Ontario’s Comments on the proposed “Great Lakes Protection Act” (EBR# 011-6461) (B.Fox, L.Rich). 81-92

5) Conservation Ontario’s Comments on the “Discussion Paper: Enhancements to the microFIT Program” (L.Rich)*	93-98
6) Conservation Ontario’s Comments on the “Discussion Paper: Enhancements to the FIT Program” (L.Rich)*	99-105
7) Intervenor Status - Campbell vs. Bruce County (N.Lobley)*	106-111
8) Conservation Ontario’s Comments on the “Provincial Bait Policy Review – Angler Use and Movement of Baitfish in Ontario” (EBR#012-2836) (L.Rich)	112-115
9) DFO-CO MOU Workplan Working Group (B.Fox, L.Rich)	116
10) CO Representation On Elevation Strategy-Related Committees (R.Wilson, G.Peacock)	117-118
11) Board of Directors Meeting Minutes to be received:	
• November 17, 2014	119-122
• January 20, 2015	123-127
16. Program Updates	
1) Source Water Protection (C.Gowda)	128-134
2) Marketing and Communications (J.Lewington, J.Crittenden)	135-138
3) Business and Partnership Development (J.Rzadki)	139-141
4) Conservation Authority Member Services (B.Fox)	142-146
17. Committee of the Whole – Items for Information	
1) General Managers Report (K.Gavine)	147-148
2) Conservation Ontario’s Business Case for Strategic Reinvestment in Ontario’s Flood Management Programs (Flood Business Case) (J.Rzadki)*	149-158
3) Conservation Authorities Act Review – Status Update (K.Gavine)*	159-160
4) 2014-2015 Conservation Ontario (CO) Representatives and Conservation Authorities Program Discussion Group List (B.Fox)	161-170
5) Great Lakes Water Quality Agreement Executive Committee and Annexes Sub-Committees - Updates (B.Fox)	171-173
6) Insurance Committee Update and 2015 Renewal (D.Sanderson)	174-177
7) CO Section 28 Regulations Workshop (L.Rich)*	178-181
8) Submission of Conservation Ontario’s Annual Effectiveness Report on the Class Environmental Assessment for Remedial Flood and Erosion Control Projects (L.Rich)	182
9) Conservation Ontario’s Contributions to the Ontario Aquatic Referral Protocol (2015) (L.Rich)	183
10) Conservation Authorities University – Update (D.Martin-Downs)*	184-186
11) Oak Ridges Moraine Foundation Update (R.Messervy)	187-197
12) Innovative Stormwater Management - Low Impact Development Technologies and Green Infrastructure Ontario Update (J.Rzadki)*	198-209
13) 2015 Latonell Conservation Symposium Update (J.Lewington)	210-211
14) Coordinated Review of the Four Provincial Plans (L.Rich)	212-213
15) Project Tracking	214-234
16) Correspondence	
• John Baird to Chair Hibma re IJC Report	235
• Bill Mauro (MNR) to Chair Hibma re Premier’s Mandate Letter	236
18. Motion to Move from Committee of the Whole to Full Council	
19. Council Business	
- Council Adoption of Recommendations	
20. New Business	
21. Adjourn	

***verbal presentation and discussion will be encouraged**

Status Report

5. (i)



To: Board of Directors
Date: April 7, 2014
From: Brian McDougall, General Manager
Subject: Conservation Ontario

- ☞ attached is the agenda from the March 30, 2015 Council Meeting
- ☞ The 2014 Annual Report for Conservation Ontario will be provided upon receipt
- ☞ the 2014 Audited Financial Statements were reviewed and accepted

- ☞ the Chair, 2 Vice Chairs and the voting delegate Director were all re-elected



Richard (Dick) Hibma
Chair
Chair of the Grey Sauble Conservation Authority



Mark Burnham
Vice Chair and Treasurer
Chair of Mississippi Valley Conservation Authority



Lin Gibson
Vice Chair
Chairperson of Conservation Sudbury (NDCA)

- ☞ the two General Manager Directors were newly elected



Jane Mitchell
Director
Chair of Grand River Conservation Authority
[More Information](#)



Steve Knechtel
Director
General Manager of Cataraqui Region Conservation Authority
[More information](#)

Ken Phillips
Director
General Manager, Conservation Halton

Staff Report

6. (i)



To: Board of Directors
Date: April 15, 2015
From: Marlene Dorrestyn
Subject: Business Arising from February 19, 2015 meeting

- request was made for the meeting packages to go paperless. A link to the digital packages will be sent out to the directors who requested that format. Digital minutes will also be sent to those same people.

Staff Report

7.(i)



To: Board of Directors
Date: April 10, 2015
From: Kevan Baker, Director of Lands
Subject: Lands Update

Conservation Areas:

- the Conservation Authority owns 15 conservation areas in the watershed
- 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 over 415 seasonal campers
- profits obtained from our campgrounds are used to offset capital improvements
- the camping season in 2015 runs from Friday, May 1st to Thanksgiving Day
- over the winter months we have accepted campsite reservations at the administration office for our 3 regional campgrounds; as of March 31st over 508 reservations have been taken, collecting over \$ 77,000.00 in revenue (GST adjusted)(down slightly from 2014)

Warwick Conservation Area:

- construction has started on the new access roadway into the Conservation Area, weather permitted it is anticipated that the road will be completed by May 1st
- 15 new picnic tables have been purchased & assembled
- pool washroom and pump house has been resided with steel
- roads to be upgraded with gravel
- a superintendent's office has been constructed within the existing workshop
- a new campground reservation and accounting system has been implemented



L.C. Henderson Conservation Area:

- 15 new picnic tables have been purchased & assembled
- upgrades have been completed to the WIFI system (campers association assisted financially towards this project)

- roads to be upgraded with gravel
- the main pavilion roof to be replaced with steel
- basketball and volleyball standards to be upgraded (Foundation bingo)

A.W. Campbell Conservation Area:

- 15 new picnic tables have been purchased & assembled
- roads to be upgraded with gravel
- hydro panel at pool building has been upgraded
- 4 new entrance gates have been installed
- 2 new portable washrooms have been purchased and assembled (Foundation bingo)
- more than 30 ash trees have been removed from within the campground area
- a new campground reservation and accounting system has been implemented



Other Conservation Areas:

- new property identification signs have been installed at Tony Stranak and Clark Wright Conservation Areas
- additional boardwalks and trail resurfacing to take place at the Strathroy Conservation Area
- boat ramp and harbour area has been dredged at the Highland Glen Conservation Area

McKeough Upstream Lands:

- Property 38 – a wetland to be developed
- Property 97 – soil erosion works have been completed
- approximately 5.2 acres of grass buffer strips have been planted along drains and natural water courses throughout the McKeough Upstream Lands
- Property 38 & 39 - two homes and 5 out buildings have been demolished; materials will be removed from the site once the half load restrictions have been lifted



Lambton County Lands:

Lambton County Heritage Forest:

- staff regularly inspect and perform maintenance on the 8 kms of trails
- Forestry staff to inventory, mark and oversee logging operations within one of the forestry compartments

Marthaville:

- staff regularly inspect and perform maintenance
- phragmites around the ponds to be managed with herbicide

Bowes Creek:

- Forestry staff to manage the existing 50,000 seedlings
- new gates to be installed on the access laneway
- a looped trail to be developed between the St. Clair Parkway and the rail tracks

Perch Creek:

- staff regularly inspect and perform maintenance
- existing trails will be cut by a local grass contractor

Foundation Lands:

Harrison Woodlot:

- a new property identification sign has been installed

Keith McLean Conservation Lands:

- a 50 x 65 ft gravel parking lot to be constructed
- 2 access gates to be installed at the Rose Beach Line entrance
- Grass buffer strips have been planted along the municipal drain

Staff Report

7.(ii)



To: Board of Directors
Date: April 10, 2015
From: Kevan Baker, Director of Lands
Subject: Agricultural Land Lease Report

Background:

- the Conservation Authority owns and leases over 1000 acres of agricultural lands in its conservation areas and at the McKeough Upstream Lands
- these lands are leased to area farmers under the board approved 3 year lease
- the current 3 year leases expire at the end of this year
- during the previous tender process in 2012 the board of directors indicated a need to extend the lease lengths to 5 years from the current 3 year term

Advantages:

- longer lease periods would provide security to the tenant as well would encourage better crop rotation opportunities
- tenants may also take more ownership in the property, being more involved in routine maintenance and stewardship projects
- there may be some financial benefit, as our lands maybe more attractive to individuals looking to rent long term

Staff Report

To: Board of Directors – AGM Report 2014
Date: April 10th, 2015
From: Steve Clark, Water Resources Specialist
Subject: Current Watershed and Lake Level Conditions

Precipitation and Streamflow Conditions

- The spring freshet period for 2015 continued over an extended period of almost 20 days due to relatively cold overnight conditions with only slightly warmer daytime temperatures slowing the thaw period considerably
- During this period SCRCA issued three Watershed Conditions Statements for Water Safety (Mar 15th and 19th; April 10th) relating to higher flows (fig 1) on all watercourses with high water level conditions and some flooding into floodplain areas
- Ice remained in place until the last week of the freshet in the lower reaches of the watershed between Dresden and Wallaceburg and north toward the McKeough. Later in the period ice eroded in place due to its consistent thickness and a solid integrity, finally moving out in mid to late March
- Flows at Wallaceburg increased in mid-March to peak levels following the reduction of ice and the release of snowpack into the watercourses. Outflows were partly restricted however due to the limiting factor of existing ice conditions in the Chenal and onward into Lake St. Clair which did not begin break up until the last week of March.
- Current levels reported at all stations (fig 2) are generally at or slightly above seasonal normal numbers following the loss of snow during spring thaw and the lack of any significant precipitation.

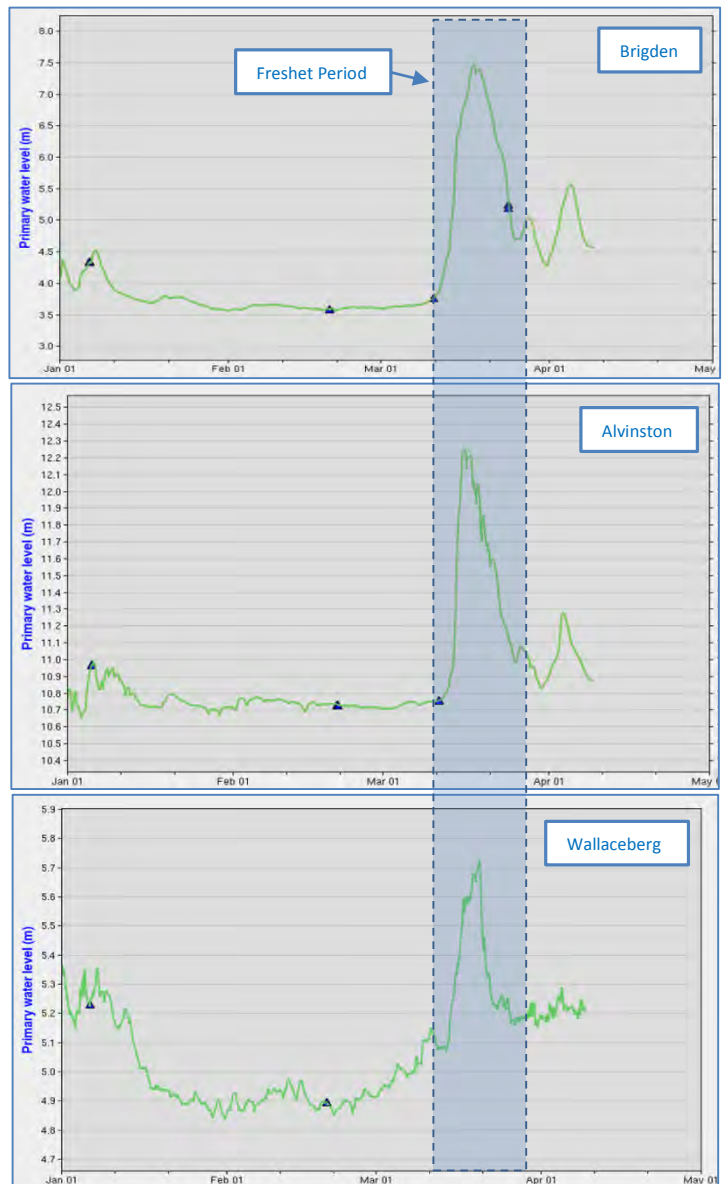
8.(i)



Highlights:

- Lengthy freshet period with long term ice melting
- Very dry first quarter with 55% normal precipitation
- Lake levels continue to improve over 2014

Fig 1. Station Level Comparison Year to Date – (WSC data.)



- While precipitation numbers were moving toward a predicted yearly average of 100% near the end of 2014, the first quarter of 2015 is extremely dry (fig 3) with only **55%** of the normal precipitation and only **25%** of the normal March values.

Current Month (to Date)	Sarnia	Strathroy	London	Windsor
March % of Normal	22%	16%	24%	36%
Total Precipitation	13.7	12.2	19.1	27.2

Fig 2. Current river levels compared to period of record average (SCRCA March data)

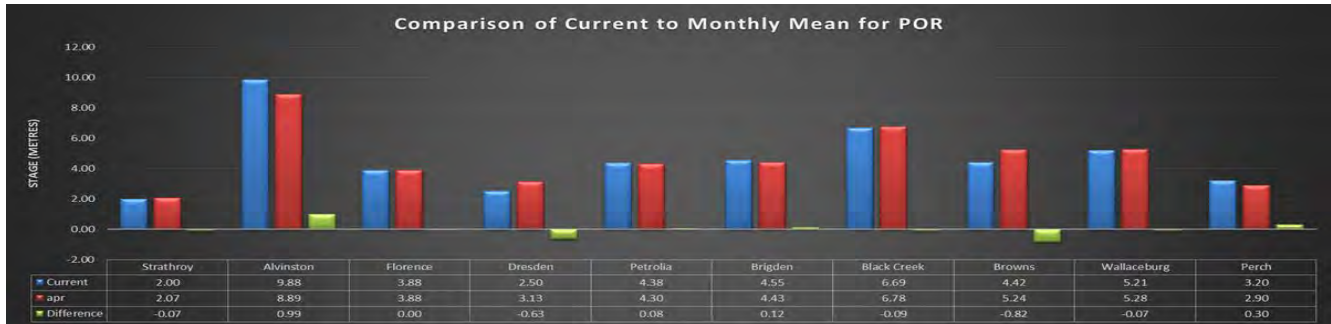


Fig 3. Regional Precipitation 2014 Summary (Source: SCRCA)

Precipitation (mm)	Sarnia		Strathroy		London		Windsor	
	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal
Last Quarter								
March	13.7	62.6	12.2	74.9	19.1	78.4	27.2	75
February	19.9	47.7	43.2	61.1	34.7	60	58.4	57.3
January	22.9	50.1	66.6	75.3	61.4	74.2	53.2	57.6
Averages								
last 3 month totals	56.5	160.4	122	211.3	115.2	212.6	138.8	189.9
last 3 month % of normal	35.2%		57.7%		54.2%		73.1%	
regional average	55.1%							
last 6 month totals	173.4	370.8	279	469	274.7	469.9	287.9	405
last 6 month % of normal	46.8%		59.5%		58.5%		71.1%	
regional average	58.9%							
last 12 month totals	575.7	846.8	844.9	945.1	826.4	987	978.5	918.4
last 12 month % of normal	68.0%		89.4%		83.7%		106.5%	
regional average	86.9%							

Flood Threat

With the elimination of snowpack across the watershed (fig 4), flows are at normal levels with some high flows associated with storm events notably in early April. Watercourses are however, now able to accommodate additional rain events as we move into the spring season. As always conditions will be monitored in response to any significant changes and advisories will be provided as conditions dictate.

Weather Forecast (Data: Weather Network, Environment Can)

Environment Canada (EC) and the Climate Prediction Center (CPC) continue to forecast below normal temperatures into the spring. A slight trend toward seasonal normal temperatures is expected into May. Similarly precipitation is expected to be normal however the lack of precipitation in the first few months of 2015 may result in reduced surface water and the potential for low water conditions by the summer months. Temperatures are expected to be above normal this summer with the warmest in late July and early August (fig 5).

Fig 4. Snow Conditions (Source: SCRCA)

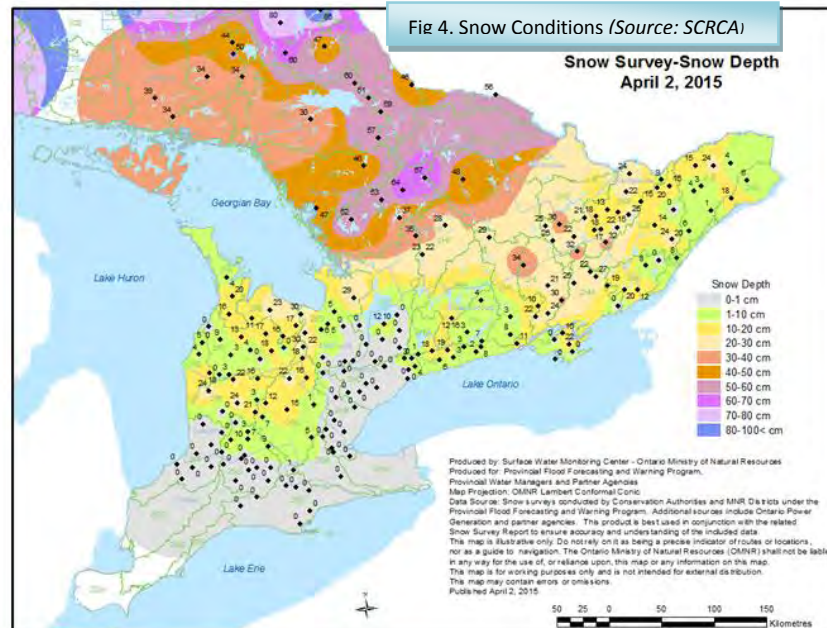
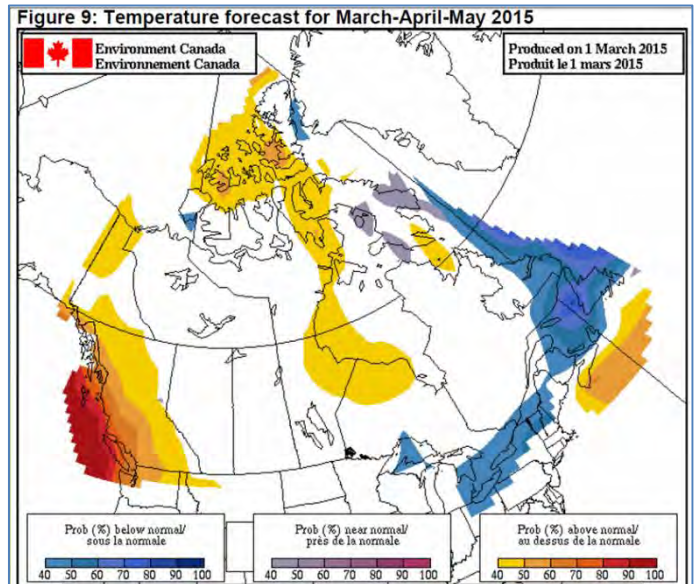
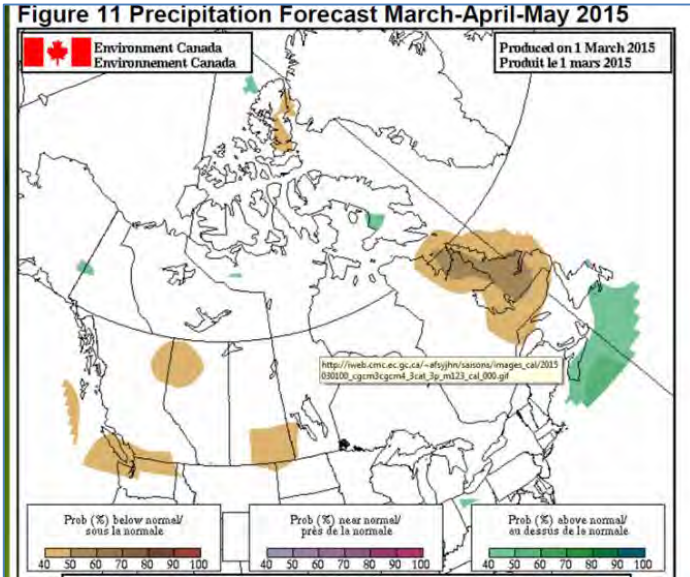


Fig 5. Current Great Lakes Levels (Canadian Hydrometric Service)



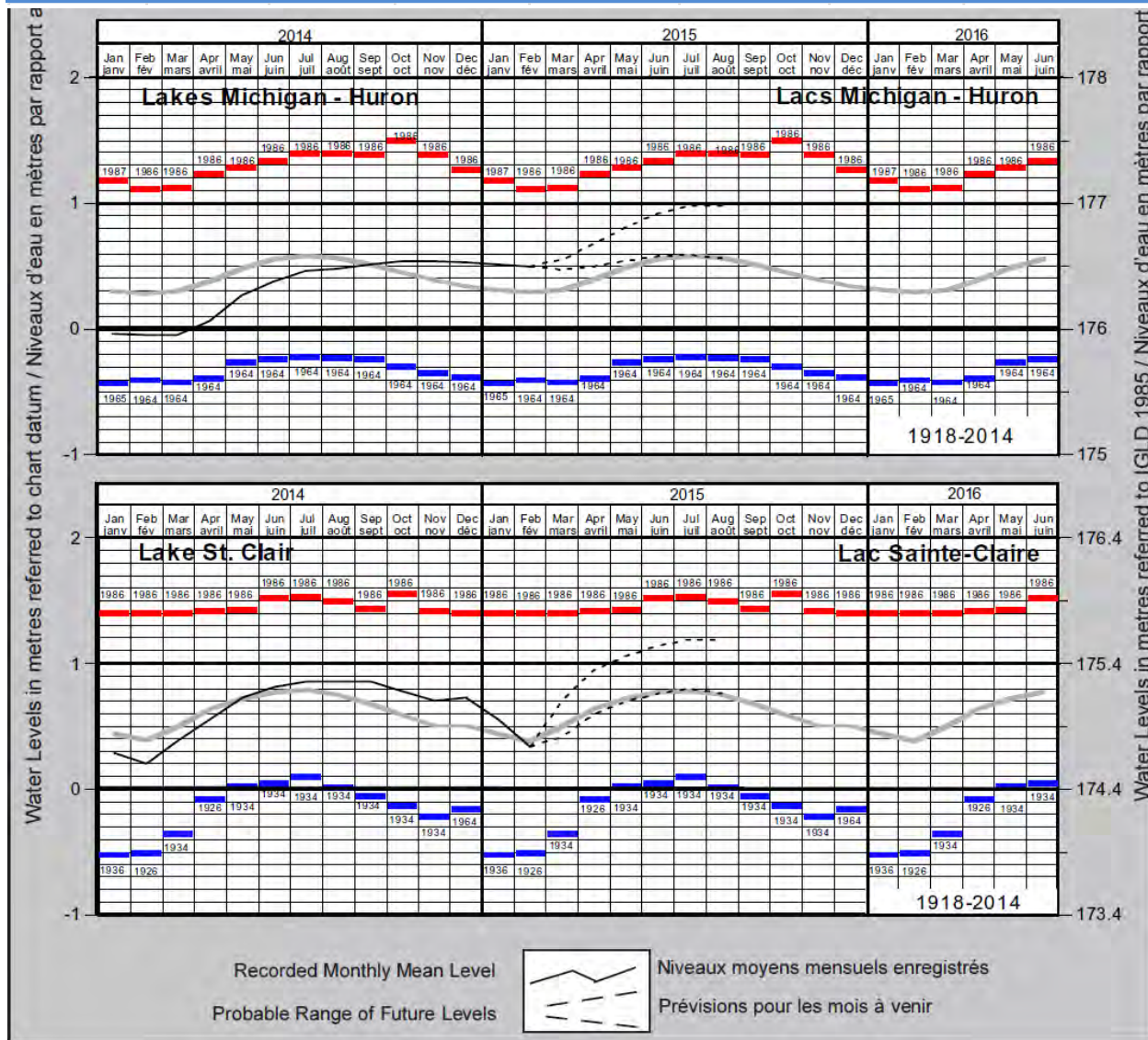
May	<ul style="list-style-type: none"> Slightly below average temperatures (1°C) and precipitation for the month
Summer	<ul style="list-style-type: none"> Above normal temperatures and precipitation are expected into the summer season
12 Month Outlook Summary	

Great Lakes Levels (Canadian Hydrometric Service – February 2015)



The monthly comparison for February 2015 (current available data) lake levels continued to improve significantly compared to February 2014 for Lake Huron with a level of **176.5m**, an increase of **55cm** making levels higher than both the 10 year average as well as the overall average for the entire period of record. This is positive news moving into the summer. Lake St. Clair however did not fair quite as well with levels **11cm** lower over the same month last year and **25cm** lower when compared to the 10 year average. Significant ice remains along the Lake Huron shoreline as of this report. Long term trends continue to predict increasing lake levels into the summer.

Units	Current Monthly Level	Monthly Level Last Year	Change 2014/2015	Current Month Avg for Last 10 Years	Change Current compared to 10 year	Anticipated Next Month	Average for Period of Record (96 years)
Lake St. Clair							
Metric (m)	174.5	174.61	-0.11	174.75	-0.25	174.97	174.98
Imperial (ft)	572.50	572.87	-0.36	573.33	-0.82	574.05	574.08
Lake Huron							
Metric (m)	176.5	175.95	0.55	175.91	0.59	176.50	176.32
Imperial (ft)	579.07	577.26	1.80	577.13	1.94	579.07	578.48



Recorded Monthly Mean Level Niveaux moyens mensuels enregistrés
 Probable Range of Future Levels Prévisions pour les mois à venir

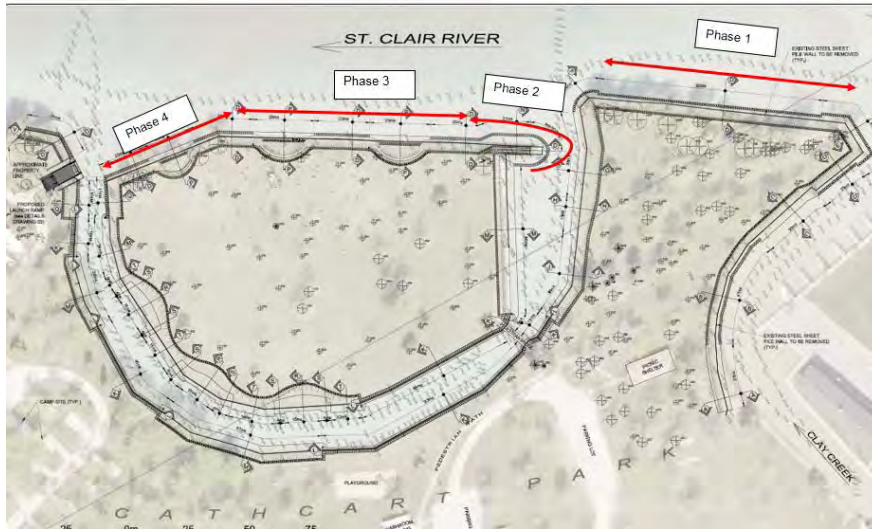
All - time Average
 Historical extremes - Maximum / Year

Staff Report

8. (ii)



To: Board of Directors
Date: April 9, 2015
From: Girish Sankar, Manager of Water Resources
Subject: Cathcart Park Shore Protection and LAWSS repair work



- December 5th 2014 - Township and Authority staff met on site with the design engineer, site supervisor and representatives of the contractor (Wicks Contracting)
- construction work started second week of January 2015.
- approximately 100 m of shoreline has been completed in this phase.

- a habitat pod was constructed along the shoreline to enhance the habitat features
- construction work was completed as of February 5, 2015
- spring inspection is planned for 3rd week of April.
- site restoration and landscaping will be completed in May 2015.



LAWSS Shoreline Repair

- contract awarded to AMICO Construction
- repair work started on January 26, 2015
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 280 meters of Shoreline work will be repaired in this work
- all in water work completed as of March 31, 2015
- project delayed due to weather conditions and MOL concerns
- 75% of construction work is complete as of April 9, 2015
- construction work will be completed by April 2015.
- restoration work will be completed in May 2015



Staff Report

8. (iii)



To: Board of Directors
Date: April 9, 2015
From: Girish Sankar, Manager of Water Resources
Subject: Water & Erosion Control Infrastructure (WECI) Projects

- applications for grants have been submitted for funding for in 2015-2016 for the project in the table below
- applications will be reviewed by a committee of provincial and conservation authority staff representatives later this month 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

Structure	Project Name	Description of Work	Total Project Cost (\$)	Grant Requested (\$)
Sarnia Shoreline Protection	Shoreline Repair (Helen and Kenwick St) Phase 1	carry out construction of Phase 1 from the recommendation of Engineering study.	\$600,000	\$300,000
McKeough Floodway	McKeough Floodway Berm Repair	perform repair work along the floodway	\$200,000	\$100,000
McKeough Floodway	McKeough Floodway Outlet	repair a section of the floodway outlet under St. Clair Parkway	\$280,000	\$140,000
McKeough Floodway	McKeough slope Stability investigation	Study- instability is being observed along the McKeough Floodway. Failure scarps and tension cracks are noticed along the face of the slope	\$15,000	\$7,500
Arda dyke	Hazard Tree Removal	remove trees, shrubs and debris that have the potential to cause slope stability issues	\$24,000	\$12,000
Esli Dodge	Esli Dodge Repair Project	repair of Concrete cable/ retaining wall	\$15,000	\$7,500
L.C. Henderson	L.C.H. Outfall repair project	Spillway Repair	\$30,000	\$15,000
Wallaceburg Retaining wall	Wallaceburg Retaining wall inspection	inspection of retaining wall in Wallaceburg	\$25,000	\$12,500

Staff Report

8. (iv)



To: Board of Directors
Date: April 9, 2015
From: Girish Sankar, Manager of Water Resources
Subject: Climate trends in SCRCA watershed

Climate Trends and Analysis

Data from the identified Environment Canada station locations were selected to provide a regional cross-sectional range of temperature and precipitation information over a 49 year POR. Focus was centered on temperature and precipitation as indicators to reflect the effects of climate change in the region.

The temperature data were analyzed focusing on the following:

- 1) number of days per year with temperatures exceeding 30 degrees C.
- 2) number of days per year with temperatures not exceeding 0 degrees C.

Based on each location, graphs were generated and subsequent trend lines created from the graphed data to provide the overall tendency for increase or decrease in values from 1966 to 2014. Figures 4 to 7 show the number of days per year where the max daily temperature exceeded 30 degrees C. Figures 8 to 11 show the number of days per year where the temperature was below 0 degrees C for the entire day.

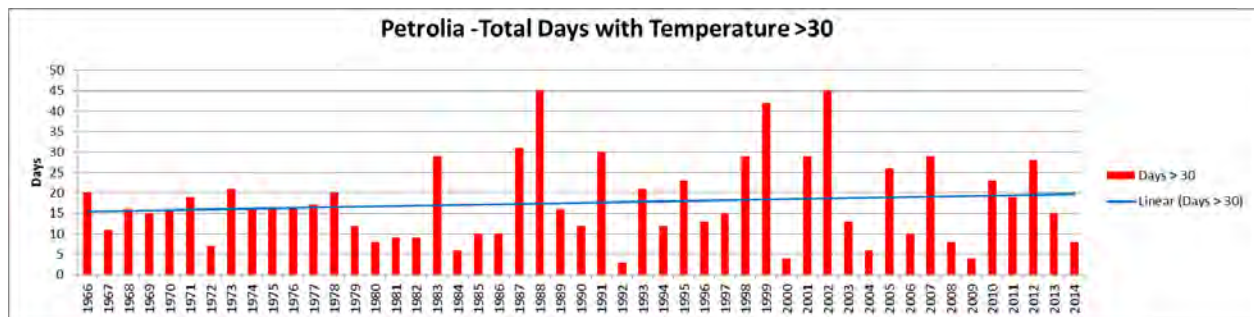


Figure 1 - Petrolia Days Above 30 °C

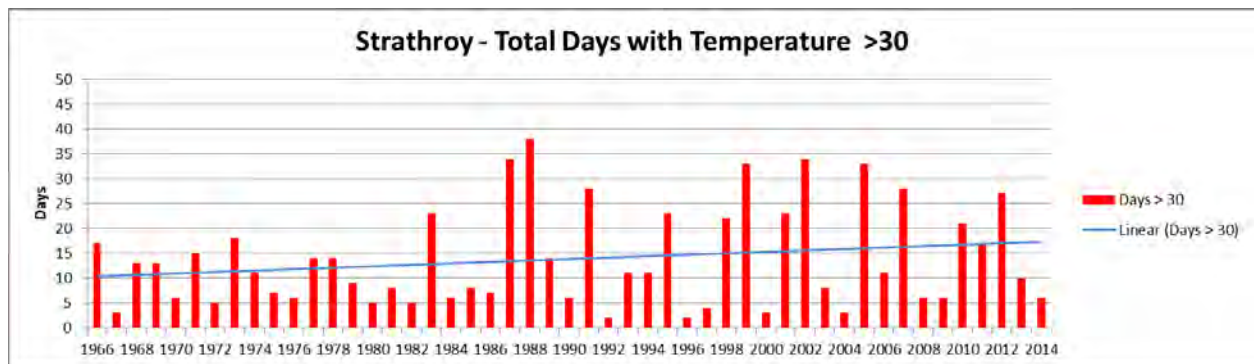


Figure 2 – Strathroy - Days Above 30 °C

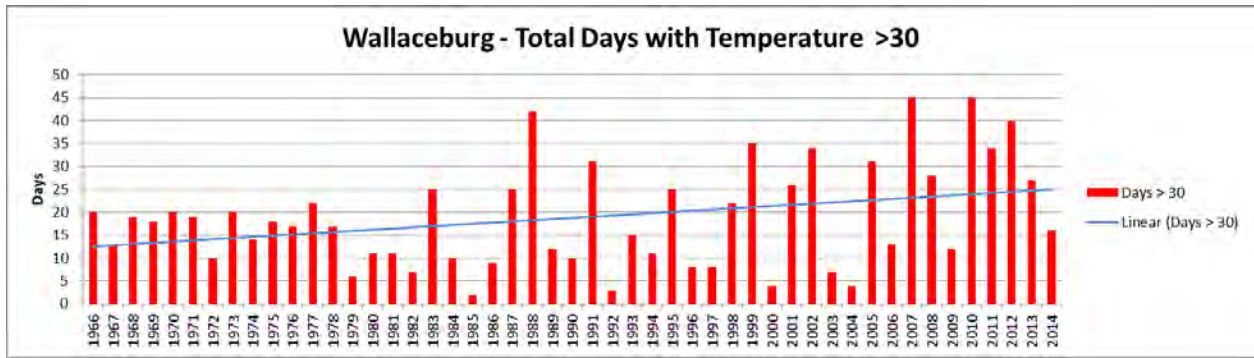


Figure 3 - Wallaceburg - Days Above 30 °C

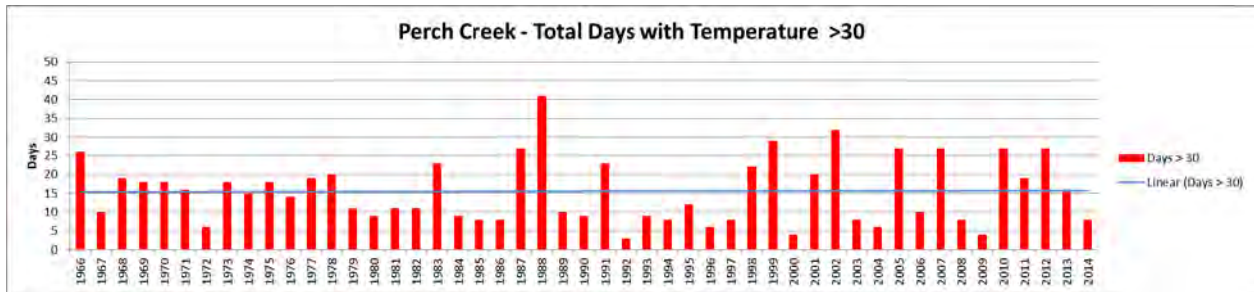


Figure 4 - Perch Creek (Sarnia) - Days Above 30 °C

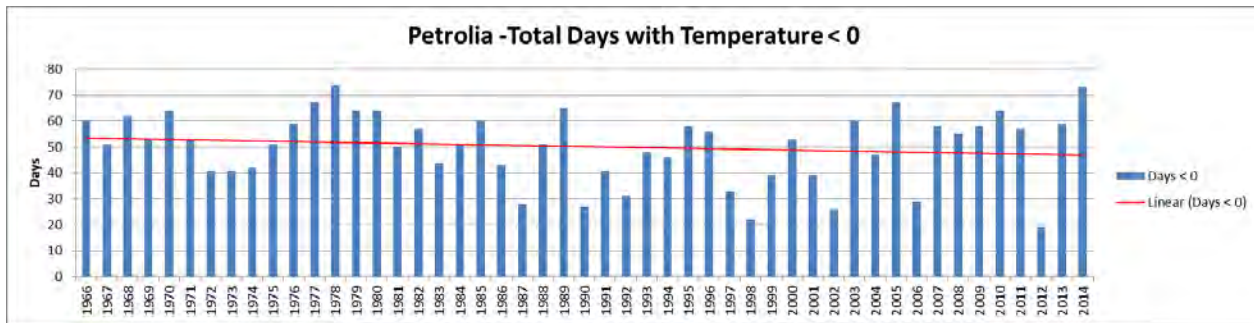


Figure 5 - Petrolia - Days Below 0 °C

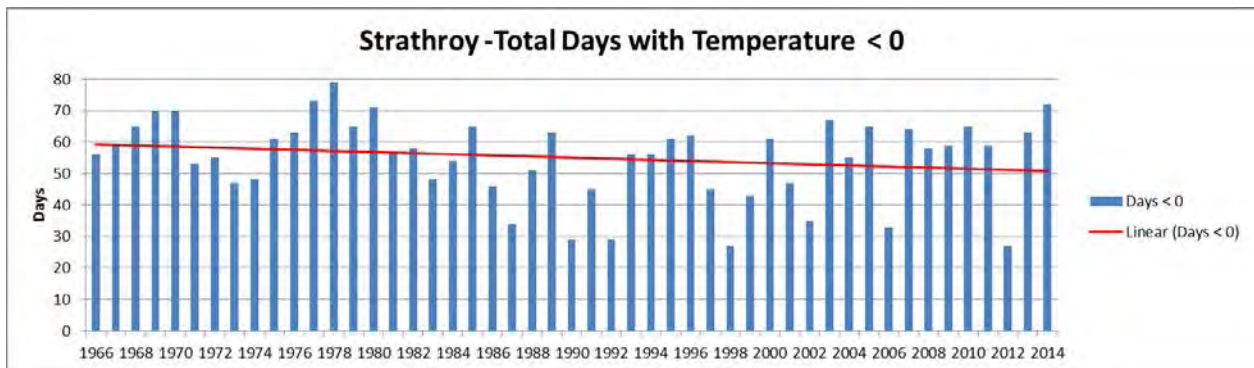


Figure 6 - Strathroy - Days Below 0 °C

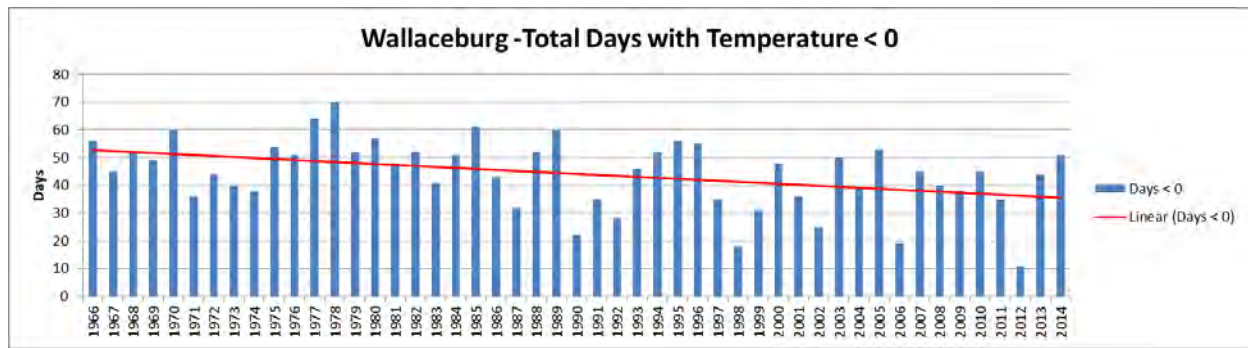


Figure 7 - Wallaceburg - Days Below 0 °C

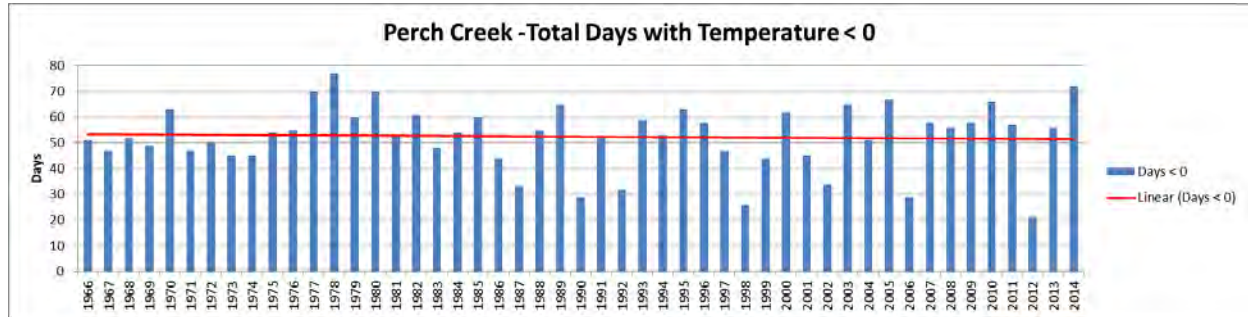


Figure 8 - Perch Creek (Sarnia) - Days below 0 °C

Precipitation data were compiled on the basis of total precipitation for each year in the POR. This included both rain and snow which was converted to a rainwater equivalent. Accurate data relating to snowfall was not consistent between all stations identified in the study. Since snow is a function of temperature, snowfall trends were captured for the initial analysis in the temperature data graphs. Figures 12 to 15 show the annual precipitation at the four locations.

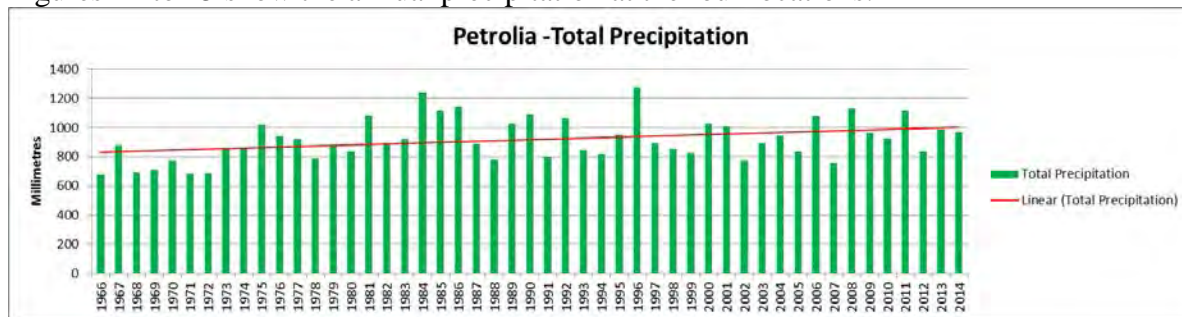


Figure 9 - Petrolia Total Precipitation

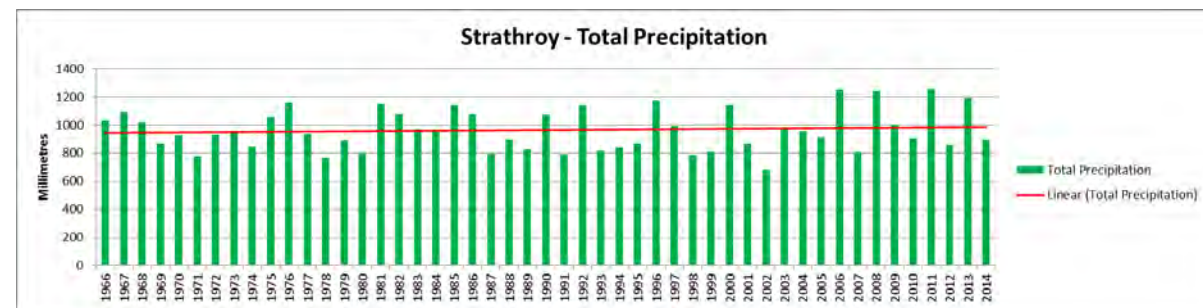


Figure 10 - Strathroy Total Precipitation

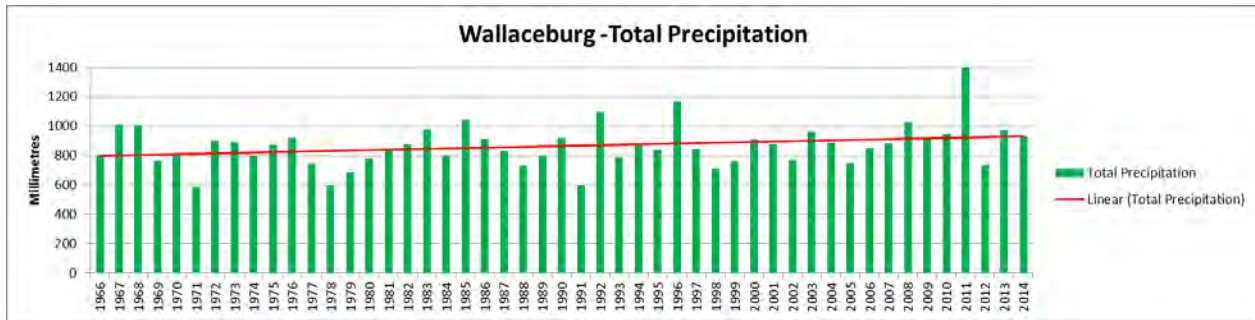


Figure 11 - Wallaceburg Total Precipitation

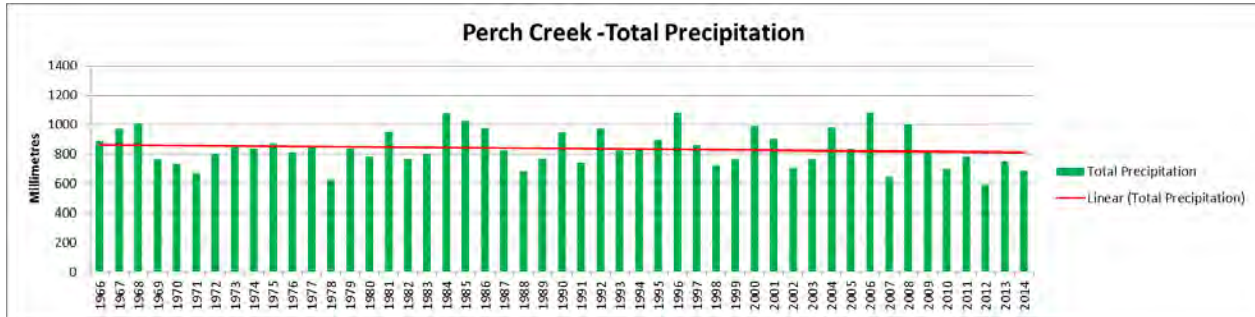


Figure 12 - Perch Creek (Sarnia) Total Precipitation

Climate change research carried out by Institute for Catastrophic Loss Reduction (ICLR) reveals that by 2050 the SCRCA watershed will experience a temperature increase of 2 to 4 degrees Celsius. (Bruce, 2011)

A trend analysis was performed to better understand these effects of climate change in the SCRCA watershed. As noted in the temperature graphs, the number of days per year with temperatures exceeding 30 °C (Figures 4 to 7) is trending upwards over the last 49 years while conversely, the number of days below 0 °C (Figures 8 to 11) are decreasing. Similarly to ICLR research, these observed trends suggests an upward shift in temperature range.

An exception to this pattern was found at the Perch Creek station (Sarnia), located in close proximity to Lake Huron. Moderating effects of the lake were noted to contribute an increase in water vapor in the atmosphere. An increase in water vapor led to a rise of minimum temperatures. This is consistent with a relationship observed between increases in precipitation followed by an increase in humidity. This is due to the greater insulating effects of the higher moisture content in the atmosphere. Additionally, elevated greenhouse gases have a similar insulating effect through all seasons of the year (*Huron Geosciences, Climate Trends in the Maitland Valley Watershed – 2010*).

A comparison between the data of the first 10 year period, 1966 – 1975, with the last 10 year period, 2005 – 2014, is displayed in Table 2. The comparison suggests a distinct shift in the number of hot days consistent with the associated graph trend lines, with the exception of the moderating effects exhibited at the Sarnia location.

Table 1 - Comparison of Days above 30 °C

Station	Average Days for Period		Percentage of Change
	1966 - 1975	2005 - 2014	
Petrolia	15.7	17	8%
Strathroy	10.8	16.5	53%
Wallaceburg	17.1	29.1	70%
Sarnia	16.4	17.3	5%

Precipitation amounts displayed in Figures 12 to 15 were trending upwards, with the exception of Perch Creek station (Sarnia). Again, this exception may be a function of the specific location where precipitation and storm events have been consistent over the study period. The study by the Institute for Catastrophic Loss suggests a 15% to 20% increase in precipitation dependent on seasonal fluctuations and further suggests a reduction of precipitation in the form of snow by 5% to 10% due to overall higher average temperatures.

Other impacts associated with climate change would include a reduction of ice cover in the Great Lakes as well as an earlier spring breakup, potentially by 15 days, both in the lakes and rivers within the watershed. Further analysis including wind and storm data will be required to determine actual trending factors at the Sarnia location.

Table 3 summarizes the change in total precipitation between the first and last 10 years of the study period. Further analysis suggests that while the overall total may have increased somewhat, a more significant variation in seasonal intensity during the summer months may be the result of convective rainfall during this period. In addition, increased lake effect precipitation/snow may be the result of the higher incidence open water in Lake Huron during the winter season (*Huron Geosciences, Climate Trends in the Maitland Valley Watershed – 2010*).

Table 2 - Comparison of Total Precipitation

Station	Total Precipitation for Period		Percentage of Change
	1966 - 1975	2005 - 2014	
Petrolia	781	961	23%
Strathroy	949	1033	9%
Wallaceburg	844	946	12%
Sarnia	839	789	-6%

Table 4 displays trend analysis for the SCRCA as a combined average for all identified watershed locations. These parameters were extrapolated using the slope of the data trend line to provide estimated values for the year 2050. Values were also extrapolated backwards to 1966 to provide a comparison with the start of the study period and the estimated values in 2050. The trend suggests a significant change (81%) in the number of days above 30 degrees C over the period 1966 to 2050 as well a reduction (29%) in days not exceeding 0 degrees C, further reducing the frost period across the watershed. In addition, the total precipitation trend identifies an increase in precipitation by 21% from 1966 to 2050.

Table 3 - Average Parameter Trends for Watershed

Trend Parameter (All Locations)	Number of Days		Change	Percentage of Change
	1966	2050 (est)		
Days Above 30 degrees C (Days)	13	24	11	81%
Days Below 0 degrees C (Days)	55	39	-16	-29%
Total Precipitation (mm)	848	1027	179	21%

Staff Report

8. (v)



To: Board of Directors
Date: March 27 2015
From: Shane White, Maintenance Foreman McKeough Floodway
Subject: Equestrian activities in the McKeough Floodway

- McKeough staff have received a number of complaints and concerns from hikers, bird watchers, and dog walkers who use the property on a daily basis, and have forged a connection and a respect for the property. The concerns expressed include horse excrement left on access lanes and in the channel, an increase in garbage left in the channel and parking lot.
- one gentlemen, who wishes to remain anonymous, told McKeough Staff that he witnessed horseback riders drinking alcohol in the channel on two separate occasions. He also mentioned the riders just threw the empty bottles in the grass along the access lane.
- McKeough staff have also noted increased garbage and have cleaned up a number of piles of horse excrement on two separate occasions on the McKeough Floodway property after a weekend ride.
- McKeough staff have noted an increase in ATV traffic as well, since permission was given to the equestrian group to ride in the channel. Whether there is a direct correlation between the two or just a strange coincidence, it could be argued that the ATV operators have seen the horses in the channel and assume that they have the right to ride in the channel as well.
- Recently, McKeough staff have had two people enquiring about permission to horseback riding in the channel.
 1. A neighbor to the dam wants to ride the channel. However, she was reluctant to the idea of cleaning up after the horses. I explained that we require the dog owners who regularly walk their dogs in the channel to pick up after their dogs, we cannot expect any less of horse owners.
 2. Another other person who called, would not identify themselves, but insisted that we give them a key so they could ride in the channel like the equestrian group we currently permit to ride in the channel. Not sure if this person is disgruntled with the equestrian group or not, but the person was knowledgeable with their interaction with the SCRCA.
- McKeough staff recommend a review of the equestrian use in the McKeough Floodway and address the following issues that have been raised by local citizens, neighbours, and staff:
 1. Garbage generated by the group that is just left behind.

2. Horse excrement. We expect that the people walking their dogs in the channel clean up after them, is it too much to ask that the equestrian group adhere to the same respect for the property?
 3. Limit number of equestrian users without alienating or appearing to show favouritism to the horseback riders permitted to ride in the channel? What would be an acceptable number of equestrian riders? Is there another property that would be better suited to this activity?
 4. Regulate or monitor equestrian activities to limit liabilities, problems and deal with any issues that arise?
 5. Who gets keys and how do we prevent the keys from being copied and given to everyone with a horse?
 6. Limit the effects of the equestrian activities on the lands that are affecting other people who use and enjoy the area?
 7. Limit potential harm to species at risk that could be affected? i.e. fox snakes
 8. Limit the possibility of invasive species or disease being carried in to the property on the horses and spread in the channel, and is there a possibility of disease being spread from horses to humans, animals or other wildlife?
- The intention in permitting some controlled equestrian access over the last few years was to determine whether access to the McKeough Floodway property was appropriate and sustainable
 - The review to be conducted over the next few months will provide staff with the appropriate information to provide a recommendation to the Board of Directors regarding the equestrian use of the McKeough Floodway

Staff Report

9.(i)



To: Board of Directors
Date: April 10, 2015
From: Jessica Van Zwol, Healthy Watershed Specialist
Subject: Healthy Watersheds Program – Lambton Shores

Lambton Shores Healthy Lake Huron (HLH) Program

Lambton Shores Tributaries Watershed is a part of the Healthy Lake Huron – Clean Water, Clean Beaches campaign – tasked with shifting landowner behavior and actions to improve beach and inland surface water quality.

A 5 year review of Outreach and Education in Lambton Shores

- During the first few years of this project, we recognized the need to establish a stewardship presence among the farmers and cottage residents. Prior to 2006, this region of Lambton Shores did not fall under the jurisdiction of any conservation authority. Since then, SCRCA has strived to interact with landowners and familiarize residents of our mandate.
- Our focus involved raising the profile of best management practices and stewardship projects, and connecting stewardship practices with water quality – trying to **shift landowner behaviour** and attitudes towards stewardship and water quality. This process of recognition, understanding, and influencing actions takes time. Nonetheless, we are beginning to witness the fruits of our efforts.
- The SCRCA has established a stronger partnership with the Lambton Soil and Crop Improvement Association (LSCIA) and staff are attending as many local Lambton Shores events as possible (Forest Fall Fair, Forest Earth Day, *Phragmites* Control meetings, LSCIA winter meetings and AGMs, Lambton Grain Farmers of Ontario, Shoreline Cleanup days, etc.) to put a face to our name and our mission.
- We have mailed out literature highlighting HLH and stewardship grants and this method of communication has generated interest in stewardship projects.
- Many landowners in the region now recognize our staff and are becoming familiar with the stewardship grants that we have available and are beginning to approach us for more information on best management practices.
- We are working with our **champion landowner** for a second year to conduct a comparison of tile outlet water quality between fields with contrasting management. The water quality results from the first field comparison generated much discussion among farmers at local LSCIA meetings. We are comparing nutrient levels of tile outlets from conventionally tilled, cover cropped, and no tilled fields. Analysis revealed that nutrient levels are higher on the conventionally tilled field.
- Funding from **Ontario Ministry of Environment and Climate Change (MOECC)** and **TD Friends of the Environment** has helped form partnerships with Municipality of Lambton Shores, Lambton Shores Nature Trails Committee, Lambton Shores *Phragmites* Committee, Communities in Bloom, and CH2M Hill (a local wastewater contractor) to help rehabilitate 2 retired sewage lagoons in Lambton Shores. With the help of volunteers and partners, over **750 native wetland plants, 90 shrubs and 100 trees were planted!**

- We have walked over **15 km** of the Duffus Watershed to gain an understanding of where water lies on the landscape during spring melt (as well as during the summer) and to help estimate where best management practices could improve water quality along Duffus Creek, a priority subwatershed within Lambton Shores. This process has helped us meet new landowners and discuss potential projects they could implement on their properties.
- This 5 year campaign would not be feasible without the support and funding from MOECC (\$150,000), Environment Canada (\$27,000), Ontario Ministry of Agriculture, Food and Rural Affairs (\$90,000), and TD Friends of the Environment (\$3,750). In kind support has come from landowners, the Municipality of Lambton Shores, Lambton Shores Nature Trails Committee, Communities in Bloom, CH2MHill/OMI, and Lambton Shores *Phragmites* Committee.
- Over the past 5 years, we have **completed 20 stewardship projects** including tree planting, a manure storage, a clean water diversion project and septic system upgrades.
- It is a joy to experience this shift in landowner attitudes in Lambton Shores and it would not have been feasible for the SCRCA to implement this program without the support of our funders and partners. We are excited to see what 2015 will bring!

Water quality monitoring – to understand the current status of water quality in our creeks and rivers and contribute to long-term data sets that may show how stewardship projects and BMPs benefit the watershed. We monitor nutrient levels including phosphorus and nitrogen.

Stewardship projects – **Grants available** SCRCA secures funding to support landowner implemented stewardship projects including riparian buffers, block tree planting, windbreaks, wetlands, and erosion control measures. Staff meet with landowners and offer advice and project design and where applicable, support projects with grants. Call today for more information.



Volunteers from the Forest Sewage Lagoon wetland planting day



OMAFRA staff giving a crop talk to Lambton Shores farmers

Staff Report

9. (ii)



To: Board of Directors
Date: April 8, 2015
From: Kelli Smith, Biological Technician
Subject: SCRCA staff help member municipalities meet regulatory requirement by issuing Standard Compliance Requirements (SCRs) and Letters of Review (LoR).

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). If drain projects are carried out (with or without a CA Act S. 28 permit) and impact, with respect to the CA's regulatory responsibilities under the CA Act, areas that are regulated, the CA could be held liable for not undertaking or enforcing its regulatory responsibilities.

SCRs and LoRs outline project specific sediment and erosion measures for all projects. Upstream and downstream flooding are considered where appropriate (e.g., culverts and enclosures) and appropriate 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.

A Year in Review - 2014

2014 saw **185** drain files submitted to SCRCA for review. **119** files were reviewed under the DART protocol and proponents received Standard Compliance Requirements permissions. **53** files were reviewed by staff and received Letters of Review. Letters of Review are issued when the project does not fall under the DART protocol. In most cases these are engineer's reports under section 78 or section 4 of the Drainage Act for improvements and new drain petitions, and advice is provided to further the conservation and management of the existing natural heritage features of the designated watershed.

Categories of Drain Review	January – April 2014	April – June 2014	July- September 2014	October- December 2014	Total
DART Protocol – SCR issued	16	13	55	35	119
Letter of Review Issued	17	4	13	19	53
Other Types of Files (e.g., Environmental Assessment, sign-off, Assessment changes)	5	4	1	3	13
Total Files	38	21	69	57	185

Categories of Drain Review	January – April 2015
DART Protocol – SCR issued	24
Letter of Review Issued	17
Other Types of Files (e.g., Environmental Assessment, sign-off, Assessment changes)	2
Total Files	43

2015

So far in 2015 a total of 43 files have been submitted to SCRCA for review. 24 have been reviewed under the DART protocol and have received SCR permissions. 17 have been reviewed by staff as received LoR as the works were outside of those specified under the DART protocol.

Other ways the SCRCA works with Municipal Drain Projects - Municipal Drain Habitat Enhancement Program

In some cases St. Clair Conservation is able to offer grant money towards measures that are above and beyond the legal requirements. The *Municipal Drain Habitat Enhancement Program* funded by the federal Great Lakes Sustainability Fund was used to support drain projects that increase fish habitat and mitigate sediment and erosion in agricultural watercourses of the St. Clair River Area of Concern. Projects that qualified for funding included buffers, fish refuge pools, and two-stage (“benched”) drainage ditches.

For the 2014/15 round of funding 3 projects were funded through the program. These projects include the Vandertil and Broad Drains (Sombra), and the Froomfield Drain (Moore). A total of \$9,600 has been awarded to these projects for habitat enhancements on these drains.

Drain	Enhancements	Amount of funding granted
Froomfield Drain	Construct two fish refuge pools at two locations along the drain	\$1,600
Vandertil Drain	Construct a fish refuge pool within the drain, install riprap erosion protection and hydra seed the exposed banks with a slope seed mix	\$4,800
Broad Drain	Construct a fish refuge pool at the downstream end of the drain, install riprap erosion protection to protect large healthy trees in place on the bank, hydra seed the exposed banks with a slope seed mix	\$3,200

In addition to the enhancement projects that were funded through this program a series of factsheets, letters and signs were also created to highlight the buffer plantings on three drains in Chatham-Kent. The plantings themselves were funded by the Municipal Drain Habitat Enhancement Program in previous years and the factsheets, letters and signs were created to augment these enhancements and provide the landowners with the knowledge and education for maintaining and appreciating these features.



Figure 1 Buffer sign created to highlight the area planted and to encourage more buffers in other locations

St. Clair Buffer Project

Economic Benefits

- ✿ Buffers increase the longevity and integrity of the drain
- ✿ Buffers decrease the cost of drain maintenance by increasing bank stability
- ✿ Root systems of the vegetative cover reduces erosion of the bank and therefore reduces the frequency and cost of ditch cleaning
- ✿ Native flowers attract pollinators to your crops and can help increase yields

Environmental Benefits

- ✿ Improves water quality by capturing nutrient and sediment runoff from adjacent lands to streams
- ✿ Overhanging vegetation provides shelter for aquatic life
- ✿ Vegetation planted alongside a stream provides shade to the watercourse, lowering water temperature, and reducing algae growth and weed growth.

Buffer on Whitebread Drain



The Benefit of Buffers

The use of buffer strips on your farm has many benefits. Riparian buffers are composed of perennial vegetative cover which can include grasses, shrubs and trees. A riparian buffer is an important component of any water system. The vegetative cover improves the water quality of the stream and provides habitat for wildlife. This fact sheet provides information on improving watershed health through the use of a riparian buffer, the benefits of installing a riparian buffer, and how to manage and maintain a riparian buffer.

A well maintained buffer of grasses, shrubs and trees can add value and beauty to any farm. A buffer strip also requires some maintenance after planting. Keeping the buffer strip in good shape will maximize its effectiveness in protecting the stream or water body.

Ideally, buffer strips are not complete solutions by themselves and should be used in the context of a comprehensive environmental farm plan.

Recommended Maintenance:

	April- July	August – October	November – March
Year One	Spring planting and annuals appear	Annuals thriving Mow no shorter than 6"	Prairie species will go dormant
Year Two	Annuals to be planted again, some prairie species appear	Annuals thriving and prairie beginning to establish Mow no shorter than 6"	Prairie species will go dormant
Ongoing	Prairie species beginning to fully establish	Prairie species thriving and producing seed	Prairie species will go dormant

Figure 2 Buffer Factsheet for the Townline Drain Buffer Project

Buffers on Your Land

The following species are planted on your property:



Indian Grass
(*Sorghastrum nutans*)
Perennial 3-8 feet in height, Indian grass has broad blue-green blades and a large golden-brown seed head. Turns deep orange to purple in the fall.



Little Bluestem
(*Schizachyrium scoparium*)
Perennial, forms dense mounds, 1.5-2 feet in height. Blue-green stems appear in August and reach 3 feet by September. Colour remains nearly all winter.

Big Bluestem
(*Andropogon gerardii*)

Perennial warm season bunchgrass growing 4-8 feet tall. Seed head is branched into three parts, resembling a turkey's foot.



Switchgrass
(*Panicum virgatum*)

Perennial 3-6 feet tall with bright green leaves. Forms finely-textured sprays, with small seeds. Grows in large clumps.



Canada Wild Rye
(*Elymus canadensis*)
Annual plant 2-4 feet tall that has large spike-shaped seedheads and long, bristly awns. Is a cool-season, perennial plant that is often short-lived.

Tips to keep your buffer in top form:

- ✂ Inspect annually and after major storms or snowmelt for erosion or damage, re-establish disturbed grass, trees, and shrubs if necessary
- ✂ Limit farm vehicles, livestock, or excessive pedestrian traffic
- ✂ Trim grass to control weeds, try to delay mowing until mid-August or later to consider the needs of nesting wildlife



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Staff Report

9.(iii)



To: Board of Directors
Date: April 13, 2015
From: John Jimmo, Resource Technician
Subject: Water Quality and Benthic Monitoring – 2014

2014 Surface Water Monitoring Program – Background

The St. Clair Region Conservation Authority (SCRCA) collects monthly surface water samples throughout the SCRCA jurisdiction typically from April to November. These samples are shipped to appropriate organizations for water quality analysis where results are returned to the SCRCA. This data allows the SCRCA and other organizations to compare long-term results which helps to identify any changes in water quality. Water samples are collected through two monitoring programs:

1) Provincial Water Quality Monitoring Program

The Provincial Water Quality Monitoring Network (PWQMN) was implemented in 1964 by the Ministry of Environment (MOE) for the purpose of obtaining data on and determining surface water quality from watercourses throughout Ontario. While water quality samples are collected and analysed for several parameters, there are eight key parameters including suspended solids, chloride, total phosphorus, nitrate, copper, lead, zinc, and *E. coli* which are used as indicators. The Middlesex-London Health Unit tests water samples for *E. coli* while the other parameters are determined by the MOE. In 2014, eight sites were sampled monthly from April to November throughout the SCRCA jurisdiction.

2) Canada-Ontario Agreement (COA)

The purpose of the Canada-Ontario Agreement (COA) on Great Lakes Water Quality and Ecosystem Health is to address how federal and provincial governments can help to improve the Great Lakes basin ecosystem through partnership. Through this program, eight sites were sampled monthly from April to November 2014 in the SCRCA jurisdiction. Additionally, water samples were collected at two sites in the Lambton Shores area during these sampling events. Water samples are tested for similar water quality parameters as in the PWQMN sampling program.

2014 PWQMN – Results

For the purpose of this report, key indicator parameters including total phosphorus, chloride, and *E. coli* are summarized below. Monthly results from April to November 2014 are reported on in this report. This data is typically reported on by using data collected over five years which will be completed in the next Watershed Report Card in 2017 to get a more accurate understanding of watershed health.

Factors such as weather and time of year can significantly impact results. For example, a significant rain event in November resulted in 0.705 mg/L of total phosphorus at the site in Florence. In August, this same site was sampled at 0.033 mg/L of total phosphorus. The dramatic difference is likely a result of runoff.

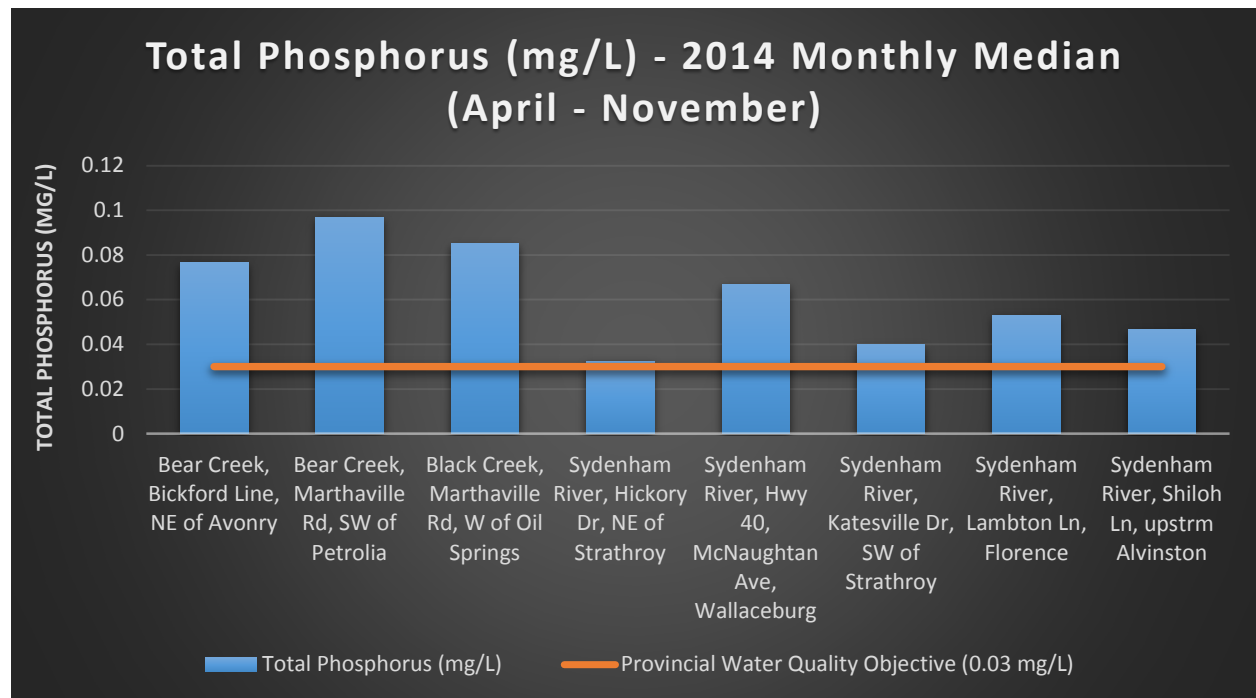


Sydenham River at Lambton Line in Florence in November (left) and August (right).

Total Phosphorus

Phosphorus is a nutrient necessary for plant and algae growth. Phosphorus comes from natural sources (e.g., soil erosion) and through human-influenced processes such as agriculture, stormwater runoff, sewage treatment plants, and septic systems.

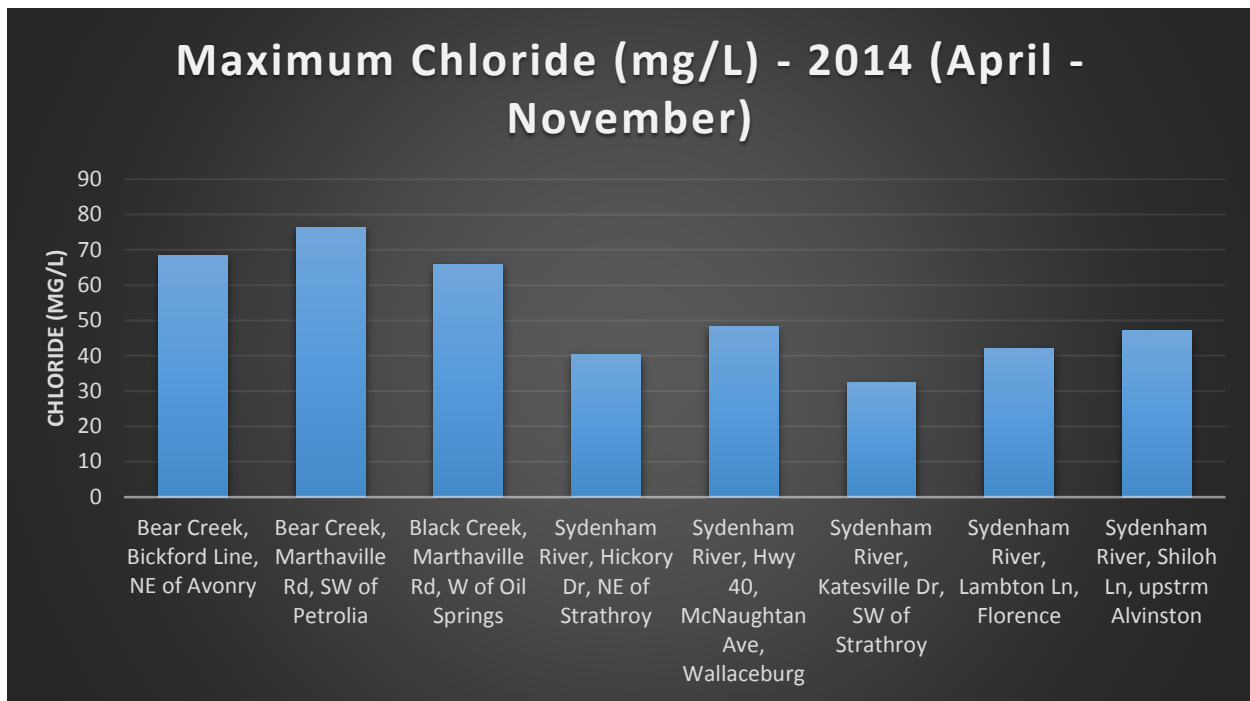
Each site was reported to have levels of phosphorus exceeding provincial guidelines in 2014 with the highest being Bear Creek at Marthaville Road at 0.08 mg/L. The Provincial Water Quality Objective (PWQO) for total phosphorus in streams is 0.03 mg/L. The PWQO sets standards to determine “acceptable” values in water quality parameters. High concentrations of phosphorus can result in harm to aquatic life. The values below were arrived at by calculating the median of combined monthly results in 2014 (April – November).



Chloride

Chloride comes from many sources including but not limited to road salt, wastewater treatment plants, and agriculture. Although there is no provincial limit set on chloride, the Environmental Protection Agency criteria suggest that 230 mg/L can negatively impact sensitive aquatic life.

However, research suggests that chloride can become toxic to mussel larvae (glochidia) at levels as low as 153 mg/L. The site with the highest amount of chloride was Bear Creek at Marthaville road with 76.5 mg/L. Although none of these results exceed 153 mg/L, a report shows that chloride at the Shiloh site is increasing at a slope rate of 0.9 mg/L per year based on data from 1975 to 2009. If you were to analyze this same data throughout the watershed, it would likely show that chloride is increasing throughout.



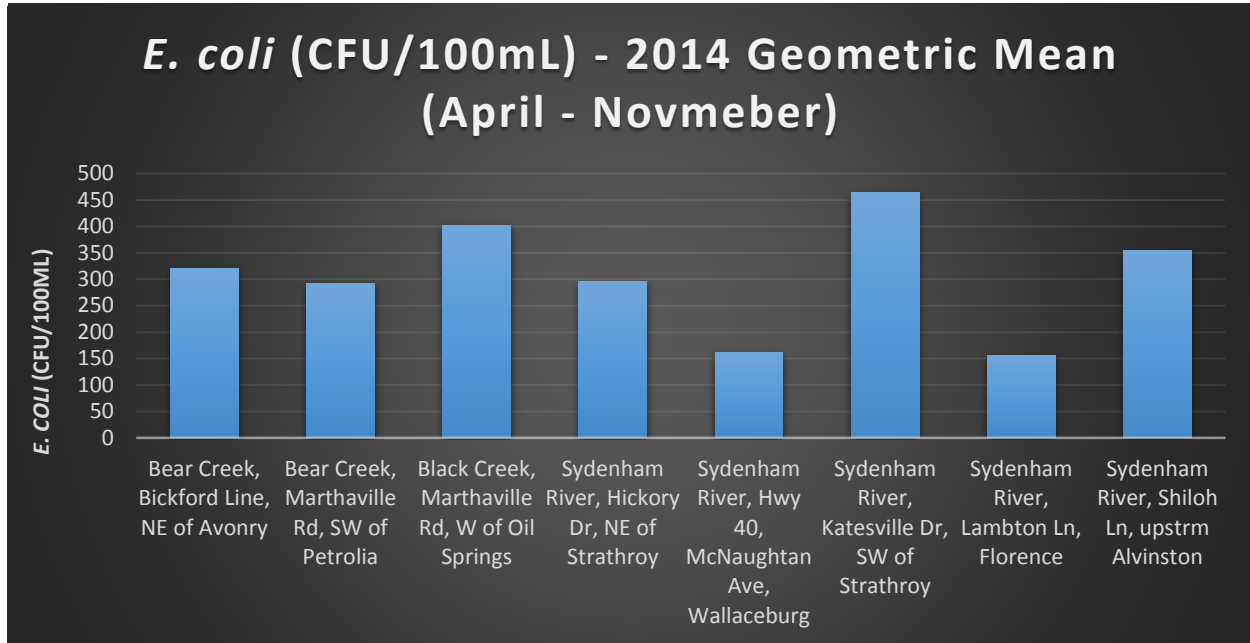
E. coli

E. coli bacteria typically inhabit the intestines of people and animals. The presence of *E. coli* in a watercourse is often a good indicator of a recent faecal contamination coming from sources such as ducks or geese, and agriculture and urban runoff.

The PWQO recommends 100 *E. coli* per 100 mL of water (based on a geometric mean of at least 5 samples) as an “acceptable” limit based on a recreational water quality guideline published by the Ontario Ministry of Health. A minimum of five samples per site within a one month period taken at a swimming area are typically collected and analysed to determine if swimming is suitable. Although this is not the method the SCRCA uses, it gives a sense of what an “acceptable” value is for *E. coli*.

Each site was found to have *E. coli* in limits exceeding 100 *E. coli* per 100 mL. With the exception of the Katesville and Florence sites, results far exceeded this value. The Middlesex London Health Unit reports on *E. coli* as “>1000” when limits exceed 1000 CFU per 100mL. In many instances, especially after rain events, it is likely that results would far exceed this value.

Samples were collected monthly at PWQMN sites and results from April to November 2014 were averaged together. Samples that were collected after a recent rain event would result in a higher overall average, likely due to agriculture and urban runoff.



Provincial Groundwater Monitoring

Eight wells were sampled during the 2014 field season throughout the SCRCA jurisdiction. These wells have been sampled in previous years and will likely continue to be sampled in future years for the purpose of determining ground water quality in these areas. Two parameters including fluoride and sodium were found to be in exceedance of the Ontario Drinking Water Quality Standards at the following locations:

1) Fluoride

The Ontario Drinking Water Quality Standards states that the acceptable amount of fluoride concentration is anything below 1.5mg/L.

W0000459-1 – Kerwood well: May. 2006 (2 mg/L), Nov. 2006 (2.3mg/L), Mar. 2007 (1.9mg/L), Sep. 2008 (2.24 mg/L), Oct. 2009 (2.42 mg/L), Oct. 2010 (2.38 mg/L), Nov. 2011 (2.42 mg/L), Oct. 2012 (2.42 mg/L), Oct. 2013 (2.48 mg/L), **Oct. 2014 (2.16 mg/L).**

2) Sodium

The Ontario Drinking Water Quality Standards acceptable amount for sodium is 200mg/L as an aesthetic standard. However, local physicians should be notified if results exceed 20mg/L so that they can inform those on sodium restricted diets.

W0000461-1 - Bothwell well: May. 2006 (187 mg/L), Nov. 2006 (190mg/L), Sep. 2008 (175 mg/L), Oct. 2009 (190 mg/L), Oct. 2010 (195 mg/L), Oct. 2011 (189 mg/L), Oct. 2012 (185 mg/L), Oct. 2013 (189 mg/L), **Oct. 2014 (169mg/L).**

W0000460-1 - Warwick well: May. 2006 (113 mg/L), Nov. 2006 (94mg/L), Mar. 2007 (120mg/L), Sep. 2008 (91.9 mg/L), Oct. 2009 (84.5 mg/L), Oct. 2010 (76.5mg/L), Nov. 2011 (79.3 mg/L), Oct. 2012 (115 mg/L), Oct. 2013 (88 mg/L), **Oct. 2014 (76.9mg/L).**

Benthic Macroinvertebrate Sampling

Aquatic animals without a backbone that are visible to the naked eye and live on the bottom of a watercourse are also known as benthic macroinvertebrates. Mayflies (left), caddisflies (middle), crayfish, aquatic worms, and stoneflies (right) are all examples of benthic macroinvertebrates. These creatures are collected every spring in the SCRCA jurisdiction by Biology staff. Each species has a specific tolerance to environmental change or pollution and therefore can be used as an indicator species.



Organizations such as the SCRCA collect benthic macroinvertebrates for the purpose of assisting in determining watershed health. Through standardized grading systems this data can be compared overtime to identify any changes in watershed conditions.

Specifically, the SCRCA and many other Conservation Authorities use the Family Biotic Index (FBI) to “score” a watershed. As displayed in Table 1, scores range from very poor to excellent. FBI values calculated from sampling sites are averaged with other sites within the same subwatershed to arrive at an FBI average per subwatershed.

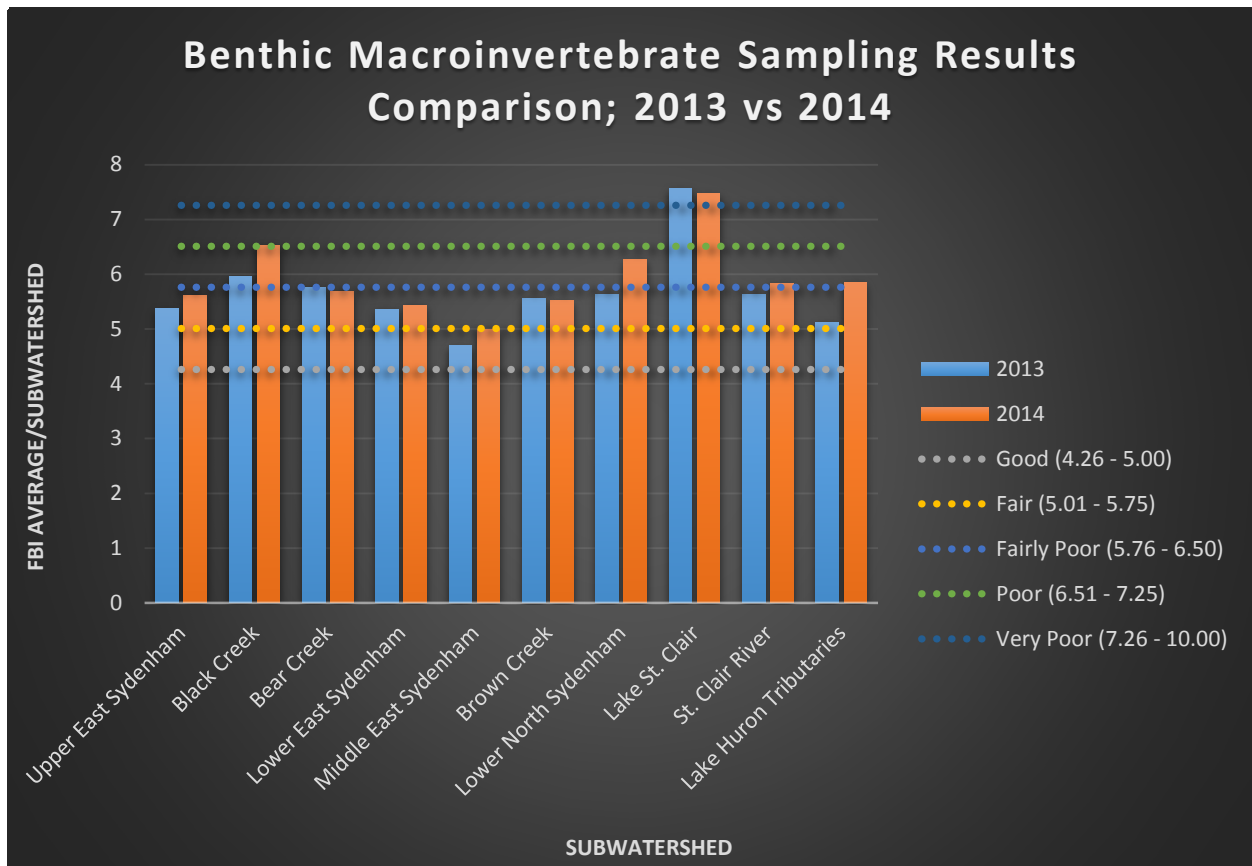
Table 1. Family-level biotic index scoring chart

Family Biotic Index	Water Quality	Degree of Pollution
0.00 – 3.75	Excellent	Organic pollution unlikely
3.76 – 4.25	Very Good	Possible slight organic pollution
4.26 – 5.00	Good	Some organic pollution likely
5.01 – 5.75	Fair	Fairly substantial pollution likely
5.76 – 6.50	Fairly Poor	Substantial pollution likely
6.51 – 7.25	Poor	Very substantial pollution likely
7.26 – 10.00	Very Poor	Severe organic pollution likely

Benthic Macroinvertebrate Sampling – 2014 Results

As displayed below, 2014 benthic sampling results show a slight decrease in water quality throughout most subwatersheds in comparison to 2013 data. Subwatersheds including Bear Creek, Brown Creek, and Lake St. Clair Tributaries show a slight decrease in FBI or pollution tolerance.

The more sampling sites within each subwatershed results in further confidence in data results. Due to few sampling sites this data may not represent each subwatersheds health as a whole. This data is best suited to supplement other water quality monitoring data (fish, mussel, PQMN, COA, etc.). Additionally, some sites may get sampled one year but not the following. For example, Talfourd Creek, a tributary of the St. Clair River, was sampled in 2013 but not in 2014. With these variations in mind, when 2014 results are compared to 2013 results, there appears to be no drastic changes in results.



A comparison of 2013 and 2014 benthic sampling results of ten subwatersheds in the SCRCA jurisdiction. Each dotted line represents the lower limit of their respective range (good, fair, fairly poor, poor, and very poor).

Staff Report

9 (iv)



To: Board of Directors
Date: April 13, 2015
From: John Jimmo, Resource Technician
Subject: Kettle Stony Point First Nation Partnership

The SCRCA is one of eight partners working with KSPFN to provide monitoring, habitat enhancement, stewardship and outreach with respect to Species at Risk on Kettle Stony Point lands.

2014 Events

- on two occasions, Biology and Outdoor Education staff members met with Grades 3 and 4 students at Hillside Elementary School to provide education on reptiles, ecosystem health, and aquatic ecology of the Kettle Stony Point area.
- the first event consisted of an in-class presentation and discussion on aquatic animals, reptiles, and amphibians followed by a trip to Shashawandah Creek where students were able to explore the stream.
- the second event was held in partnership with Jenny Pearce of Scienstational Sssnakes at the Hillside Elementary School. Jenny educated students on reptiles of Ontario and allowed students to handle live snakes and turtles.
- in addition to these events, Biology staff held an aquatic sampling demonstration to provide members of the Kettle Stony Point First Nation with aquatic sampling techniques, and knowledge of fish identification.
- these events are covered in previous 2014 board reports.





KSPFN Species at Risk Community Meeting



- this is the fourth year Biology staff attended the KSPFN Species at Risk Community Event. The event consisted of various partners delivering presentations related to field activities in the Kettle Stony Point area. Authority staff created and delivered a presentation summarizing 2014 events.

- the SCRCA staff and many other organizations set up displays covering a range of interests. Biology staff set up a display consisting of an eastern fox snake and snapping turtle display, and information on reptile habitat enhancements and monitoring.

- overall, it was great to see the amount of effort and time spent on this event. There were many community members who demonstrated great interest and knowledge by raising important questions and comments.

- we were also very pleased to read a statement by Chief Thomas Bressette which can be found on pg. 3 of the KSPFN Species at Risk Project newsletter (attached) stating: *“The St. Clair Region Conservation Authority representatives always receive a very warm welcome from our Hillside Elementary School students as they run their annual in class programs and nature walks.”*

students as they run their annual in class programs and nature walks.”

Staff Report

9. (v)



To: Board of Directors
Date: April 8, 2015
From: Kelli Smith, Biological Technician
Subject: McKeough Upstream Properties

In the 1980s, St. Clair Conservation purchased properties as part of the W. Darcy McKeough Dam and Diversion Project. The McKeough Floodway allows water to be diverted from the North Branch of the Sydenham River directly to the St. Clair River to alleviate flooding in the town of Wallaceburg.

Many of the properties lie north of the floodway from Wilkesport to Bridgen Road and are leased by tenants for agricultural purposes. In order to create environmentally sustainable farms Property Management Plans (PMP) in combination with Environmental Farm Plans were completed for 13 of the 17 McKeough upstream properties. The remaining four parcels are currently in progress for completion.

As a result of the recommendations made through the Property Management Plans and Environmental Farm Plans several projects are in progress in 2014/15. A total of 24 acres of marginal land is being converted to wetlands (10 acres), riparian buffers (12 acres) and upland habitat (2 acres).

Property 79

- located just east of Kimball Road north of Wilkesport Line
- wetland created by constructing two berms to hold back water
- wetland totals 2 acres
- area around the wetland was planted with a wildlife forage mix to further enhance habitat
- funding received from Ministry of Natural Resources and Forestry and Wildlife Habitat Canada



Property 97

- located north of McCallum Line east of Pretty Road
- wetland was created in 2013 however erosion was evident at the spillway
- early 2015 a rock chute spillway and catch basin were installed to slow down the water and repair the erosion damage
- the catch basin was installed with a tile to carry the water to Black Creek
- the spillway has been staked and will be grassed to keep the farm equipment away and further prevent erosion
- wetland totals 1 acre
- funding received from Wildlife Habitat Canada



Property 38

- located west of Wilkesport
- construct a series of four wetlands by constructing four berms along the gully
- a catch basin with a tile will be installed at the bottom end to carry water to the North Sydenham River and reduce erosion
- the area will be staked seeded and taken out of production to eliminate future erosion issues
- project is set to be completed in summer 2015
- wetland totals 7 acres
- funding received from Wildlife Habitat Canada and Ministry of Natural Resources and Forestry



Staff Report

10. (i)



To: Board of Directors
Date: April 9th, 2015
From: Steve Shaw, Manager of Conservation Services
Subject: Conservation Services spring tree planting program

Stewardship Projects

- there are 32 stewardship projects that are being funded through the provincial species at risk stewardship fund and the federal habitat stewardship program along with 6 other funding agencies.
- more than \$235,000 in grant will go towards funding these projects which include riparian buffers, stream bank stabilization, wetland enhancement or creation and upland habitat improvements.
- estimated project value with landowner in-kind and financial contribution is more than \$600,000
- construction began in March for some projects and it is expected that all projects should be completed by the end of May



Tree Planting Program

- the tree planting program is operating on normal spring schedule with tree nurseries starting to lift tree seedlings the week of April 12th to 18th.
- trees are expected to arrive sometime around April 23rd with planting operations starting during the last week of April on well drain lands.
- SCRCA crews will be planting more than 53,000 trees on 30 properties this spring.
- another 7000 trees will be distributed to an additional 35 landowners for planting.
- three tractor mounted machine tree planters and one small hand planting crew is planned for operations to take place over the course of a 3 to 4 week time frame.
- more than \$140,000 has been secured through several separate funding sources this year to offset planting costs for most landowners taking part in this year's program.

Large Stock Trees

- there are 425 large stock trees on order this spring for approximately 10 landowners plus one bulk order for the Municipality of Brooke-Alvinston
- the Municipality of Brooke-Alvinston is providing a subsidized rate for landowners wanting to plant trees on their property. This resulted in a large landowner uptake for a third year in a row.
- trees range in size from 1 metre for the evergreen trees to 1.8 metres for the hardwood trees. Most of the trees ordered for spring are either potted or balled and burlap stock.
- trees are expected to arrive on April 21st.

Vegetation Control Program

- approximately 180,000 trees require spray maintenance this spring (under the 3 year vegetation control program) plus the 53,000 newly planted trees scheduled this year. Two machine sprayers will start herbicide applications mid to late April pending spring soil conditions.
- most of the 3 year tending work is paid in advance and carried forward each year to cover the cost of the labour and material.

Habitat Improvements

- habitat improvement efforts are taking place in a 175 acre Lake Huron coastal wetland in Lambton Shores south of Stoney and Kettle Point.
- the area has been completely taken over by phragmites which has destroyed most of the natural habitat.
- rolling and burning started in March this year on approximately 55 acres.
- another 70 acres or more is targeted for the same treatment as soon as the weather dries and conditions return to normal eradication protocol.
- summer and fall herbicide treatment is scheduled after plant regrowth occurs.
- the Great Lakes Community Guardian Fund will be subsidizing \$24,750 for the rolling and burning part of the project.
- an additional \$60,000 in funding from Environment Canada, Ministry of Natural Resources, Forestry and NextEra Energy Resources.
- Lambton Shores Community Phragmites Group is the driving force behind this work. They are a volunteer group of dedicated people that SCRCA will be partnering with for the next several years.
- local MPP Monte McNaughton has been very supportive with this project.



Staff Report

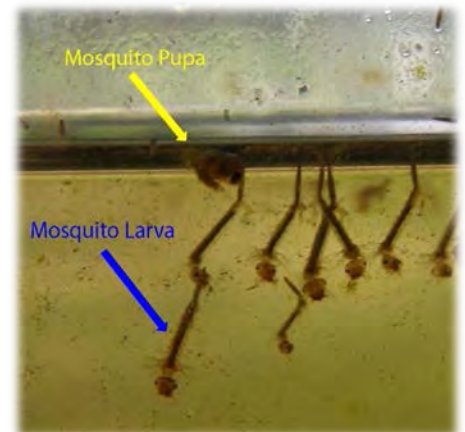
10. (ii)



To: Board of Directors
Date: April 9, 2015
From: Steve Shaw, Manager of Conservation Services
Subject: Lambton County Larvicide Program

West Nile Virus Program

- Larvicide operations will take place once again in Sarnia, Point Edward and all communities throughout Lambton County this summer.
- the County of Lambton operates a West Nile virus (WNV) surveillance program including a larvicide application program to control mosquito populations in catch basins. The Conservation Authority has been treating catch basins since 2006 under its Pesticide Operators Licence under direction from Lambton Public Health Department. SCRCA obtains permits each year from the Ministry of the Environment and licences summer staff from the conservation services department as pesticide applicator technicians in order to implement the work.
- 70% of the positive samples of WNV are found in the mosquito species *Culex pipiens* (the house mosquito) and related species of *Culex*. The house mosquito breeds mostly in stagnant water that is heavy in organic content. Therefore, catch basins in urban areas are the most common breeding grounds for WNV carrying mosquitoes.
- last year several WNV positive mosquito pools were found in the County of Lambton along with several birds that tested positive for the virus.
- less than 1% of people infected with the virus will get seriously ill, however, there have been a number of confirmed human cases of the virus in Lambton County since 2001, including one death in 2005 and a second death in 2006.
- approximately 16,000 catch basins are treated in towns and rural communities with 3 separate applications of methoprene (a mosquito larvicide) between July 1st and August 30th. Approximately 65% of the catch basins are within the City of Sarnia.
- methoprene disrupts the life cycle of mosquitoes, preventing them from maturing and reproducing. It is used in many cities and municipalities throughout Southwestern Ontario.
- Health Canada studies indicate methoprene is of low toxicity and poses little risk to people when used according to the label instructions.
- efficacy testing is conducted by SCRCA staff by collecting mosquito pupa samples throughout the summer. Pupa are monitored by Lambton Public health. Past efficacy tests show 80% effectiveness at controlling mosquito pupa.



February 28, 2015

TO: SCRCA Chair and Board of Directors

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

FROM: Dallas Cundick, Environmental Planner / Regulations Officer

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

February 1, 2015 to February 28, 2015

FA #	Applicant and Subject Property	Permit Required to:	Section 28 of the Conservation Authority's Act "Development, Interference with Wetlands and Alterations to Shorelines & Watercourses" Regulation Permissions may be granted where in the opinion of the CA, the control of Flooding, Erosion, Dynamic Beach, Pollution, or the Conservation of Land will not be affected by the development.	Date Permit Issued
10854	Nova Chemicals (Canada) Ltd. c/o Tom Jackson Lot C, Concession 0 Geographic Township of Sarnia County of Lambton	Integrity Dig	<ul style="list-style-type: none"> • Verifying and repairing an existing pipeline is considered minor works; • Works will be conducted at least 26ft (7.9m) from the open watercourse; • Appropriate mitigation measures have been developed and will be employed to control sediment and erosion; • Work to be completed within the appropriate fisheries timing window; • Existing grades and elevations will be maintained; • The proposed works will have no impact on flood flows or elevations; • No alterations to the slope or grade are required; • The site will be restored to its original, or better, condition upon completion of works; 	Feb 27
10947	Ken Maaten 1464 Lakeshore Road Lot 47, Concession 9 Geographic Township of Sarnia County of Lambton	Construction of a 364 sq. m. Single Family Dwelling	<ul style="list-style-type: none"> • Proposed works meet SCRCA Shoreline Policy; • Does not create greater risk to hazard/precedent on street/reach of shoreline; • Proposed dwelling is outside of the erosion hazard limit 100 yr. RR; • Proposed works will not aggravate erosion; • Works do not increase the risk to life and property 	Feb 23
10970 (a)	Suncor Energy Products Inc. c/o Mark Kozak Cornelius J.M. & Patti Lynn Vandenboer Lot 19, Concession 10 Geographic Township of Bosanquet Municipality of Lambton Shores	Installation of Collection Lines via Horizontal Directional Drill; Potential Ground and Area Disturbance as a result of Turbine Construction	<ul style="list-style-type: none"> • Collector line crossing of a watercourse using the directional drill method are considered minor works; • Entry/Exit pits are a suitable setback from the banks of the watercourse; • Appropriate generic mitigation measures have been developed, and will be installed prior to the commencement of construction and be maintained throughout the works to control sediment and erosion; • Construction area will be restored to original condition and all debris will be removed offsite; • Disturbed soils are to be stabilized and re-vegetate immediately after completion of the works; 	Feb 13

			<ul style="list-style-type: none"> Existing grades will be maintained and therefore proposed works will have no impact on flood flows or elevations; No alterations to the slope are required; 	
10970 (b)	Suncor Energy Products Inc. c/o Mark Kozak Casmere & Deborah Kwarciak Lot 18, Concession 11 Geographic Township of Bosanquet Municipality of Lambton Shores	Construction of an access road over Lusby Drain, Installation of a collection line via horizontal directional drill	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (a) Suitable drilling procedures, Environmental compliance and restoration prescription are in place; 	Feb 13
10970 (c)	Suncor Energy Products Inc. c/o Mark Kozak Garry Wayne & Jacqueline Leslie Gilliard Lot 6 & 7, Concession 12 Geographic Township of Bosanquet Municipality of Lambton Shores	Installation of Collection Lines via HDD, Installation of Collection Lines via Underground Cable Trench, Potential Ground and Area Disturbance as a result of Turbine construction	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (b); 	Feb 13
10970 (d)	Suncor Energy Products Inc. c/o Mark Kozak Michael Peter Edward & Ryan Francis DeBorger Lot 11 & 12, Concession 16 Geographic Township of Bosanquet Municipality of Lambton Shores	Construction of a Waterbody Crossing; Construction of an Access road and Installation of collection lines, potential ground and area disturbance as a result of turbine construction	<ul style="list-style-type: none"> Same conditions as outlined under FA#10970 (b); Proposed works will have no hydrologic impact to the wetland; 	Feb 13
10970 (e)	Suncor Energy Products Inc. c/o Mark Kozak Joseph Stanley & Charlotte Anne Lacey Lot 75, Concession East of Lake Road Geographic Township of Bosanquet Municipality of Lambton Shores	Construction of a Wind Turbine; Construction of an Access Road and Installation of Collection Lines; Potential ground and area disturbance as a result of turbine construction;	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (g); Proposed works will have no hydrologic impact to wetland; 	Feb 13
10970 (f)	Suncor Energy Products Inc. c/o Mark Kozak Lesterosa Swine Limited Lot 44, Concession Southern Boundary	Construction of an Access Road and Installation of Collection Lines, Potential ground and	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (d); 	Feb 13

	Geographic Township of Bosanquet Municipality of Lambton Shores	area disturbance as a result of turbine construction;		
10970 (g)	Suncor Energy Products Inc. c/o Mark Kozak Adrian John & Norio Vanderheyden Lot 22, Concession 14 Geographic Township of Plympton County of Lambton	Potential ground and area disturbance as a result of turbine construction	<ul style="list-style-type: none"> • Appropriate generic mitigation measures have been developed, and will be installed prior to the commencement of construction and be maintained throughout the works to control sediment and erosion ; • Existing grades and elevations will be maintained; • The proposed works will have no impact on flood flows or elevations; • No alterations to the slope are required; • Construction area will be restored to original condition and all debris will be removed off site; • Disturbed soils are to be stabilized and re-vegetated immediately after completion of the works; 	Feb 13
10970 (h)	Suncor Energy Products Inc. c/o Mark Kozak Lake Breeze Farms Ltd. c/o John Schoonjans Lot 18, Concession 12 Geographic Township of Plympton County of Lambton	Construction of an Access Road and Installation of Collection Lines	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (a); 	Feb 13
10970 (i)	Suncor Energy Products Inc. c/o Mark Kozak Kenneth Gordon Philpott Lot 16, Concession 12 Geographic Township of Plympton County of Lambton	Installation of Collection Lines	<ul style="list-style-type: none"> • Same conditions as outline under FA# 10970 (a); • Collection line will be installed to a minimum 3m below the bed of the watercourse; 	Feb 13
10970 (j)	Suncor Energy Products Inc. c/o Mark Kozak Gregory Leo & Betty Anne Marie Kerrigan Lot 18, Concession 11 Geographic Township of Plympton County of Lambton	Construction of an Access Road and Installation of Collection Lines; Potential ground and area disturbance as a result of turbine construction	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (g); 	Feb 13
10970 (k)	Suncor Energy Products Inc. c/o Mark Kozak Lake Breeze Farms Ltd. c/o John Schoonjans Lot 15, Concession 11 Geographic Township of Plympton County of Lambton	Installation of Collection Line via Horizontal Directional Drill	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (a); 	Feb 13
10970 (l)	Suncor Energy Products Inc. c/o Mark Kozak Richard Thomas Somerville Lot 14, Concession 9 Geographic Township of Plympton	Installation of Collection Line via Horizontal Directional Drill	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (i); 	Feb 13

	County of Lambton			
10970 (m)	Suncor Energy Products Inc. c/o Mark Kozak Herwig Wouters Lot 14, Concession 11 & 12 Geographic Township of Plympton County of Lambton	Potential Ground and Area Disturbance as a result of turbine construction	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (g); 	Feb 19
10970 (n)	Suncor Energy Products Inc. c/o Mark Kozak Peter Rowland & Carolina Anna Stock Lot 14, Concession 9 Geographic Township of Plympton County of Lambton	Installation of Collection Line via Horizontal Directional Drill	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (a); 	Feb 19
10970 (o)	Suncor Energy Products Inc. c/o Mark Kozak Paul William & Harrietta Campbell Lot 24, Concession 15 Geographic Township of Plympton County of Lambton	Potential ground and area disturbance as a result of turbine construction	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (e); 	Feb 19
10971 (b)	Suncor Energy Products Inc. c/o Mark Kozak Jack Van Geel Lot 21, Concession 10 Geographic Township of Bosanquet Municipality of Lambton Shores	Construction of a Watercourse Crossing; Construction of an Access Road;	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (g); • Access road is a suitable setback from the watercourse and outside the erosion hazard limit as per the exp Services Inc.; 	Feb 13
10971 (c)	Suncor Energy Products Inc. c/o Mark Kozak Fern Marilyn Sutton Lot 22/23, Concession 10 Geographic Township of Plympton County of Lambton	Construction of a Watercourse Crossing; Construction of an Access Road	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (a); • The access road will encroach no closer than 11m to Byrnes-Sutton Drain; 	Feb 13
10971 (d)	Suncor Energy Products Inc. c/o Mark Kozak Fern Marilyn Sutton Lot 22/23, Concession 9/10 Geographic Township of Plympton County of Lambton	Installation of Collection Lines, Construction of an Access Road, Construction of a Watercourse Crossing	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (d); • Collector line and access roads are a suitable setback from the watercourse and outside the erosion hazard limit; 	Feb 13
10971 (e)	Suncor Energy Products Inc. c/o Mark Kozak Leo Harry Alohonse & Gayle Marie Wouters Lot 23, Concession 11 Geographic Township of Plympton County of Lambton	Installation of Collection Lines; Construction of an access road; Construction of a watercourse crossing; potential	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (b); 	Feb 13

		ground and area disturbance as a result of turbine construction		
10971 (f)	Suncor Energy Products Inc. c/o Mark Kozak Marvin Leroy, Marvin Allen & Florence Bennett Jennings Lot 8, Concession 16 Geographic Township of Bosanquet Municipality of Lambton Shores	Installation of Collection Lines; Construction of Substation	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (d); 	Feb 13
10971 (g)	Suncor Energy Products Inc. c/o Mark Kozak Ronald Adrian Vanos Lot 14, Concession 14 Geographic Township of Bosanquet Municipality of Lambton Shores	Construction of an Access Road and Installation of Collection Lines; Installation of Collection Lines via Horizontal Directional Drill, Potential Ground and Area Disturbance as a result of turbine construction;	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (b); • Works will be completed as per Slope Stability Assessment completed by exp Services Inc. submitted in support of this application; • That the collection line is installed no closer than 6m from the edge of the watercourse at its closed location; and: 	Feb 13
10971 (h)	Suncor Energy Products Inc. c/o Mark Kozak Eugen Burgin Lot 13, Concession 14 Geographic Township of Bosanquet Municipality of Lambton Shores	Installation of Collection Lines, Construction of an Access Road	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (g); • Suitable drilling procedures, Environmental compliance and restoration prescription are in place; • Works to be completed as per recommendations made within exp Services Inc. Slope Stability Assessment; 	Feb 13
10971 (i)	Suncor Energy Products Inc. c/o Mark Kozak Eugen Burgin Lot 10 to 12, Concession 14 Geographic Township of Bosanquet Municipality of Lambton Shores	Construction of an Access Road and Installation of Collection Lines; Potential ground and area disturbance as a result of turbine construction;	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (g); • Suitable drilling procedures, Environmental compliance and restoration prescription are in place; • Proposed works will have no hydrologic impact to the wetland; 	Feb 13
10971 (j)	Suncor Energy Products Inc. c/o Mark Kozak Peter & Evelyn Irene Courtney Lot 10, Concession 15 Geographic Township of Bosanquet Municipality of Lambton Shores	Installation of Collection Line	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10971 (i); 	Feb 13
10971 (k)	Suncor Energy Products Inc. c/o Mark Kozak Eugen Burgin	Installation of Collection Line	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10971 (i); 	Feb 13

	Lot 10, Concession 14 Geographic Township of Bosanquet Municipality of Lambton Shores			
10971 (I)	Suncor Energy Products Inc. c/o Mark Kozak Eusi Farms Ltd. Lot 9, Concession 14 Geographic Township of Bosanquet Municipality of Lambton Shores	Installation of Collection Line	<ul style="list-style-type: none"> • Same conditions as outlined under FA# 10970 (g); • Suitable drilling procedures, Environmental compliance and restoration prescription are in place; 	Feb 13
10987	Kent & Lauren VanEwyk 3028 Kimball Road Lot 15, Concession 5 Geographic Township of Moore Township of St. Clair County of Lambton	Tear down and Rebuild New Single Family Dwelling	<ul style="list-style-type: none"> • Minimum required flood elevations are a condition of the permit; • Proposed works will not alter flow velocities or elevations; • Proposed works will not increase erosion hazard; • Proposed works maintain a suitable setback from the watercourse; • Lowest opening elevation will be a minimum of 0.5 metres above the centreline road elevation of Kimball Road directly adjacent the subject property; • The area around the buildings will be filled to a minimum of 0.5 m higher than the centreline of the road for a horizontal distance of 2 m; • Monteith & Sutherland Ltd. certification that floodproofing elevations are met is required upon completion; • Disturbed areas will be stabilized and vegetated; 	Feb 3
10988	Sarnia Yacht Club c/o Judy Shelley 1220 Fort Street Lot 69, Concession 0 Geographic Township of Sarnia County of Lambton	Sarnia Yacht Club Dredge	<ul style="list-style-type: none"> • Appropriate mitigation measures have been developed and will be employed to control sediment and erosion; • Work to be completed within the appropriate fisheries timing window; • The proposed works will have no impact on flood flows or elevations; • No alterations to the slope or grade are required; • The site will be restored to its original, or better, condition upon completion of works. 	Feb 27
10989	Michael Randall 8417 Wren Line Lot 4, Concession 18 Geographic Township of Dover Municipality of Chatham-Kent	Construction of a New Single Family Dwelling	<ul style="list-style-type: none"> • Proposal will not aggravate erosion and flooding processes; • Proposal will not be impacted by the erosion hazard; • Dwelling dry passive floodproofed; • No increase risk to flooding; • Excess fill will be removed from the property; • Proposed works to not increase risk to life and property; • Engineering Drawings completed by L.J. Jobin, Eng.; • Works located in area of least risk and will not adversely impact flooding; 	Feb 23
10990	Hilton Peter Johnston 3364 St. Clair Parkway Lot B, Concession 12 Geographic Township of Sombra St. Clair Township County of Lambton	Construction of a Single Family Dwelling and Attached Garage	<ul style="list-style-type: none"> • Minimum required flood elevations are a condition of the permit; • Proposed works will not alter flow velocities or elevations; • Proposed works will not increase erosion hazard; • Proposed works maintain a suitable setback from the watercourse; • The finished grade around the foundation will be at a minimum elevation of 177.0m C.G.D. for a minimum horizontal distance of 2 metres from the external walls of the structure; • The lowest opening to dwelling will be at an elevation higher than 177.3 m 	Feb 27

			<ul style="list-style-type: none"> C.G.D.; Disturbed areas will be stabilized and vegetated upon completion; 	
10991	Ed & Jeanenne Allison 8388 Glendale Drive Lot 80, Concession West of Lake Road Geographic Township of Bosanquet Municipality of Lambton Shores County of Lambton	Construction of New Detached Garage	<ul style="list-style-type: none"> Proposed location is outside of the 3:1 (run:rise) stable slope gradient for the slope; Proposed location maintains a setback greater than 6 metres from the top of the slope for future maintain access purposes; No alterations to the slope are required; Drainage will be directed away from the top of bank of the ravine; Excess fill will be removed from the regulated area; Disturbed areas will be reseeded upon completion of the works. 	Feb 27

March 1, 2015 to March 31, 2015

FA #	Applicant and Subject Property	Permit Required to:	Section 28 of the Conservation Authority`s Act “Development, Interference with Wetlands and Alterations to Shorelines & Watercourses” Regulation Permissions may be granted where in the opinion of the CA, the control of Flooding, Erosion, Dynamic Beach, Pollution, or the Conservation of Land will not be affected by the development.	Date Permit Issued
10971 (a)	Suncor Energy Products Inc. c/o Mark Kozak James Wesley & Barbara Anne Wright Lot 20/21, Concession 9 Geographic Township of Plympton County of Lambton	Construction of a Wind Turbine, Construction of an Access Road, Construction of a Watercourse Crossing, Installation of Collection lines via Horizontal Directional Drill, Potential ground and area disturbance as a result of turbine construction	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (a) No increase risk to life and property upstream or downstream; Professional Engineer shall certify that the design has taken into account the regulatory flood (velocity and depth of flow, hydrostatic pressure etc.) and site (soil type, bearing capacity etc.) conditions encountered at the specific location of the development; 	Mar 12
10971 (b) – Amended	Suncor Energy Products Inc. c/o Mark Kozak Jack Van Geel Lot 21, Concession 10 Geographic Township of Bosanquet Municipality of Lambton Shores	Construction of a Watercourse Crossing; Construction of an Access Road	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10971 (b); 	Amended Mar 30
10971 (m)	Suncor Energy Products Inc. c/o Mark Kozak Herwig & Anne Marie Wouters Lot 24, Concession 10 Geographic Township of Plympton County of Lambton	Installation of Collection Lines; Construction of an Access Road	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10971 (l); Collector line and access roads are a suitable setback from the watercourse and outside the erosion hazard limit. 	Mar 2
10971 (n)	Suncor Energy Products Inc. c/o Mark Kozak	Construction of a Wind Turbine;	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (e); No increase risk to life and property upstream or downstream; 	Mar 12

	Robert Stutt Lot 9, Concession 14 Geographic Township of Bosanquet Municipality of Lambton Shores County of Lambton	Construction of an Access Road, Installation of Collection Lines, Potential Ground and Area Disturbance as a Result of Turbine Construction	<ul style="list-style-type: none"> Professional Engineer shall certify that the design has taken into account the regulatory flood (velocity and depth of flow, hydrostatic pressure etc.) and site (soil type, bearing capacity etc.) conditions encountered at the specific location of the development; 	
10971 (o)	Suncor Energy Products Inc. c/o Mark Kozak Eugen Burgin & Silvia Burgin-Schneebeli Lot 33, Concession Southern Boundary Geographic Township of Bosanquet Municipality of Lambton Shores County of Lambton	Construction of a Wind Turbine; Construction of an Access Road, Installation of Collection Lines, Potential Ground and Area Disturbance as a Result of Turbine Construction	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (g); No increase risk to life and property upstream or downstream; Professional Engineer shall certify that the design has taken into account the regulatory flood (velocity and depth of flow, hydrostatic pressure etc.) and site (soil type, bearing capacity etc.) conditions encountered at the specific location of the development; Collector line and access roads are a suitable setback from the watercourse and outside the erosion hazard limit; 	Mar 12
10971 (p)	Suncor Energy Products Inc. c/o Mark Kozak Albert Torrance Alva Bell Lot 10, Concession 16 Geographic Township of Bosanquet Municipality of Lambton Shores County of Lambton	Construction of a wind turbine, construction of an access road, construction of a watercourse crossing, installation of collection lines via horizontal directional drill; potential ground and area disturbance as a result of turbine construction	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10971 (a); Collector line and access roads are a suitable setback from the watercourse and outside the erosion hazard limit; Proposed works will have no hydrologic impact to the wetland; 	Mar 12
10971 (q)	Suncor Energy Products Inc. c/o Mark Kozak Donald John and Carol Ann Stefanik Lot 9, Concession 16 Geographic Township of Bosanquet Municipality of Lambton Shores County of Lambton	Construction of a Wind Turbine, construction of an access road, installation of collection lines via horizontal directional drill; potential ground and area disturbance as a result of turbine construction	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (a); No increase risk to life and property upstream or downstream; Professional Engineer shall certify that the design has taken into account the regulatory flood (velocity and depth of flow, hydrostatic pressure etc.) and site (soil type, bearing capacity etc.) conditions encountered at the specific location of the development; Proposed works will have no hydrologic impact to the wetland; Collection line will be located greater than 15m from the watercourse; 	Mar 12
10971 (r)	Suncor Energy Products Inc. c/o Mark Kozak Stanley John & Bonnie Lynn Stefanik	Construction of a wind turbine; construction of an access road,	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (a); No increase risk to life and property upstream or downstream; Professional Engineer shall certify that the design has taken into account the regulatory flood (velocity and depth of flow, hydrostatic pressure etc.) 	Mar 12

	Lot 7/8, Concession 16 Geographic Township of Bosanquet Municipality of Lambton Shores County of Lambton	installation of collection lines via horizontal directional drill; potential ground and area disturbance as a result of turbine construction	and site (soil type, bearing capacity etc.) conditions encountered at the specific location of the development; <ul style="list-style-type: none"> Proposed works will have no hydrologic impact to the wetland; That the collection line is installed no closer than 6m from the edge of the watercourse at its closest location; 	
10971 (s)	Suncor Energy Products Inc. c/o Mark Kozak Margaret Ann Bell Lot 10, Concession 15 Geographic Township of Bosanquet Municipality of Lambton Shores	Installation of Collection Line	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10971 (i); 	Mar 12
10971 (t)	Suncor Energy Products Inc. c/o Mark Kozak Marvin Allen Jennings Lot 7, Concession 15 Geographic Township of Bosanquet Municipality of Lambton Shores County of Lambton	Installation of Collection Lines, construction of an access road	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10971 (m); 	Mar 12
10971 (u)	Suncor Energy Products Inc. c/o Mark Kozak Town of Plympton-Wyoming Lot 21/22, Concession 13/14 Geographic Township of Plympton County of Lambton	Installation of Collection Lines	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10971 (m); 	Mar 20
10971 (v)	Suncor Energy Products Inc. c/o Mark Kozak Brian John & Kerri Ann Schoonjans Lot 20, Concession 12 Geographic Township of Plympton County of Lambton	Construction of an Access Road; Construction of a watercourse crossing; Installation of collection lines via horizontal directional drill; potential ground and area disturbance as a result of turbine construction	<ul style="list-style-type: none"> Same Conditions as outlined under FA# 10970 (a); No increase risk to life and property upstream or downstream; Collector line and access road will be installed as per exp Services Report (greater than 5.2m from toe of slope); 	Mar 24
10971 (w)	Suncor Energy Products Inc. c/o Mark Kozak Town of Plympton-Wyoming Lot 21/22, Concession 11/12 Geographic Township of Plympton County of Lambton	Installation of Collection Line via Horizontal Directional Drill	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (b); No increase risk to life and property upstream or downstream; 	Mar 20
10971 (x)	Suncor Energy Products Inc. c/o Mark Kozak Raymond Leo Wouters	Installation of Collection Lines; Construction of an	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10970 (a); No increase risk to life and property upstream or downstream; 	Mar 20

	Lot 15, Concession 9/10 Geographic Township of Plympton County of Lambton	Access Road; Construction of a watercourse crossing	<ul style="list-style-type: none"> Collector line and access roads are a suitable setback from the watercourse and outside the erosion hazard limit; 	
10971 (y)	Suncor Energy Products Inc. c/o Mark Kozak Marvin Leroy, Marvin Allen & Florence Bennett Jennings Lot 26, Concession 15 Geographic Township of Plympton County of Lambton	Installation of Collection Lines	<ul style="list-style-type: none"> Same conditions as outlined under FA# 10971 (x); Collection line will be installed to a minimum 3m below the bed of the watercourse of Hickory Creek; 	Mar 24
10992	Enbridge Gas Distribution Inc. c/o Christopher Sparkes Lot 19, Concession 10 Geographic Township of Moore St. Clair Township County of Lambton	Drainage Improvements	<ul style="list-style-type: none"> Proposed works should not negatively impact flood flows, velocities or elevations; Hydrology should not be negatively impacted by the proposed works; The total volume of water released into Wellington Drain will not change as site naturally slopes down to this drain; Suitable sediment and erosion methods are to be installed prior to the commencement of construction and be maintained throughout the works; No alterations to the watercourse &/or slope are required; Disturbed soils are to be stabilized and re-vegetated immediately after completion of the works; Minor grading of site necessary to convey storm water to outlet; 	Mar 11
10993	HD Industrial Services Inc. c/o Brad Armstrong Lot 25/26, Concession 10 Geographic Township of Moore St. Clair Township County of Lambton	Construction of a New Facility and Storm Water Management Improvements	<ul style="list-style-type: none"> Proposed works should not negatively impact flood flows, velocities or elevations; Hydrology should not be negatively impacted by the proposed works; There will be no in-water works; Suitable sediment and erosion methods are to be installed prior to the commencement of construction and be maintained throughout the works; No alterations to the watercourse &/or slope are required; Disturbed soils are to be stabilized and re-vegetated immediately after completion of the works: <p>Works will be completed a minimum of 6m from the top of bank of the watercourse;</p>	Mar 11

ST. CLAIR REGION CONSERVATION AUTHORITY REGULATIONS ACTIVITY REPORT- VIOLATIONS AND CORRECTIVE ACTIONS

March 31, 2014

TO: SCRCA Chair and Board of Directors

SUBJECT: Enforcement- Section 28 Status Report – Development, Interference of Wetlands and Alterations to Shorelines and Watercourses Regulation

FROM: Dallas Cundick, Environmental Planner/Regulations Officer

File	Background
<p>FV # 201501</p> <p>4664 Riverside Drive Lot E, Concession 5 Geographic Township of Sombra Township of St. Clair County of Lambton</p> <p>Notice of Violation Correspondence sent to landowner and agent via registered mail January 20, 2015, Correspondence outlined Authority Requirements to remedy the situation;</p> <p>Deadline for Action</p> <p>Statute of Limitations 2 years from date Authority made aware of violation;</p> <p>December 18, 2014 SCRCA met on-site with landowner;</p> <p>December 18, 2016 statute of limitations expires;</p>	<ul style="list-style-type: none"> • Conducted site investigation December 18, 2014; • Unauthorized seawall construction works along the St. Clair River (inland channel) on the subject property had occurred in violation of Section 28 of the <i>Conservation Authorities Act</i>, as landowner did not receive approval to carry out these works; • Authority staff met with the landowner on December 16, and 18, 2014 and outlined Authority's role in hazard land management and reasons for concerns with the seawall construction works; • January 20, 2015 SCRCA staff sent correspondence outlining the required restoration works to ensure that seawall construction works and restoration is completed to the satisfaction of the Authority; • January 21, 2015 landowner contacted the Authority to confirm receipt of notice of violation; • Landowner to provide written correspondence to the Authority by February 13, 2015 indicating that they will remedy the situation as outlined above, and details on how this will be completed, and the date at which they will be submitting a complete application for the works undertaken with modifications to meet SCRCA policy with proposed timeline for remediation works; <p><u>UPDATE March 31, 2015</u></p> <ul style="list-style-type: none"> • Detailed response received from the landowner on February 17, 2015; • Response reviewed in detail by staff of the SCRCA Regulations Committee on March 24, 2015; • SCRCA staff drafting response letter outlining process and requirements going forward to remedy the situation;

Recommended and approved by:

Dallas Cundick, Environmental Planner/Regulations Officer

Melissa Deisley, Regulations Officer

Patty Hayman, Director of Planning

SCRCA Planning Activity Summary for the month**February 2015****11. (ii)**

File Ref.	Municipality	Geographic Twp	Lot	Concession	Street
ZBA 01/2015	ADELAIDE-METCALFE	ADELAIDE	LOT 1	CON 2 SER	MULLIFARRY DRIVE
LL 2015	CHATHAM-KENT	CHATHAM	LOT 24	CON 2 GORE	
SEV B99/14	CHATHAM-KENT	CHATHAM	LOT 4	CON 2 GORE	DUFFERIN AVE
LL 2015	CHATHAM-KENT	CHATHAM	LOT 27	CON 2 GORE	
LL 2015	DAWN-EUPHEMIA	EUPHEMIA	LOT 28	CON 5	SMITH FALLS ROAD
OPA 01/2015	LAMBTON SHORES	BOSANQUET	LOT 13	CON 11	PROOF LINE
EA 06 2014	MIDDLESEX CENTRE	LOBO	LOT 14	CON 7	IVAN DRIVE
SEV B01/2015	PLYMPTON-WYOMING	PLYMPTON	LOT 29	CON 7	EGREMONT ROAD
FI 2015	PLYMPTON-WYOMING	PLYMPTON	LOT 4	CON FRONT	DOUGLAS STREET
FI 2015	PLYMPTON-WYOMING	PLYMPTON	LOT 9	CON FRONT	DEVONSHIRE ROAD
FI 2015	PLYMPTON-WYOMING	PLYMPTON	LOT 39	CON FRONT	BLUEPOINT DRIVE
VAR A6/2015	SARNIA	SARNIA	LOT 38	CON 9	LAKESHORE ROAD
SEV B4/2015	SARNIA	SARNIA	LOT 23	CON 9	LAKESHORE ROAD
SPA 2015	SARNIA	SARNIA	LOT 17	CON 4	PLANK ROAD
OPA 54 AND	SARNIA	SARNIA	LOT 16	CON 7	MODELAND ROAD
OP 2014	ST. CLAIR	SARNIA	LOT 1	CON 1	

SCRCA Planning Activity Summary for the month**March 2015**

File Ref.	Municipality	Geographic Twp	Lot	Concession	Street
LL 2015	ADELAIDE-METCALFE	METCALFE	LOT 6	CON 14	INADALE DRIVE
SUB 39T-	ADELAIDE-METCALFE	ADELAIDE	LOT 26	CON 2 SER	SECOND STREET
FI 2015	BROOKE-ALVINSTON	BROOKE	LOT 10	CON 5	LITTLE IRELAND ROAD
FI 2015	BROOKE-ALVINSTON	BROOKE	LOT 3	CON 5	WEIDMAN LINE
FI 2015	CHATHAM-KENT	ZONE	LOT 13	CON 4	JANE ROAD
LL 2015	CHATHAM-KENT	CAMDEN	LOT 6	CON 2	HUFF'S SIDEROAD
FI 2015	CHATHAM-KENT	ZONE	LOT 13	CON 4	JANE ROAD
EA-01-2015	DAWN-EUPHEMIA	DAWN	LOT 27	CON 2	CUTHBERT ROAD
GI 2015	ENNISKILLEN	ENNISKILLEN	LOT 2	CON 5	
FI 2015	LAMBTON SHORES	BOSANQUET	LOT 7	CON 13	RAWLINGS ROAD
FI 2015	MIDDLESEX CENTRE	LOBO	LOT 6	CON 8	ILDERTON ROAD
LL 2015	MIDDLESEX CENTRE	LONDON	LOT 29	CON 10	DENFIELD ROAD
SEV B8/15	MIDDLESEX CENTRE	LONDON	LOT 26	CON 11	ILDERTON ROAD
FI 2015	PLYMPTON-WYOMING	PLYMPTON	LOT 3	CON FRONT	EGREMONT ROAD
FI 2015	PLYMPTON-WYOMING	PLYMPTON	LOT 7	CON FRONT	ETON COURT
FI 2015	SARNIA	SARNIA	LOT 5	CON 8	MICHIGAN LINE
ZBA 06-2014-85	SARNIA	SARNIA	LOT 8	CON 8	JACKSON ROAD
VAR A7/2015	SARNIA	SARNIA	LOT 64	CON 9	BEACH LANE
ZBA 02/2015	SARNIA	SARNIA	LOT 23	CON 9	LAKESHORE ROAD
OPA 41 42 ZBA	SARNIA	SARNIA	LOT 46	CON 9	MODELAND MICHIGAN
LL 2015	ST. CLAIR	SOMBRA	LOT 25	CON 5	BRIGDEN ROAD

SCRCA Planning Activity Summary for the month **March 2015 (contd.)**

File Ref.	Municipality	Geographic Twp	Lot	Concession	Street
FI 2015	ST. CLAIR	MOORE	LOT 3	CON 1	
OPA 5	STRATHROY-CARADOC	ADELAIDE	LOT 22	CON 4 SER	
GI 2015	STRATHROY-CARADOC	CARADOC	LOT 20	CON 9	
FI 2015	STRATHROY-CARADOC	CARADOC	LOT 10	CON 10	WARBLER WOODS

File Reference Codes:

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

Meetings

February

Feb 13 – Floodplain Data Inventory Meeting with Conservation Ontario – A. Seidler, D. Cundick, G. Sankar

Feb 25th, March 4, and March 16- Floodplain Data inventory Meeting – A. Seidler, D. Cundick, and G. Sankar

Staff Report

11. (iii)



To: Board of Directors
Date: April 10, 2015
From: Patty Hayman, Director of Planning
Subject: Fragmentation of Hazard Lands – A Discussion paper

Background

Many Conservation Authorities have adopted municipal plan review policies which discourage the fragmentation of floodplains and hazardous slope areas. The reason being:

- interpretation of provincial planning policy
- minimizes the number of owners of land that is subject to the Conservation Authority Regulations
- negative environmental impacts that can result from fragmentation
- for new development, hazard avoidance is the preferred method of management.

Over the last several years, the SCRCA Planning and Regulations staff have noted the negative environmental impacts from municipal planning approvals in hazardous lands. Hazardous lands consist of floodplains and slopes. Floodplains and slopes are also regulated by the SCRCA via Ontario Regulation 171/06 “Development, Interference with Wetlands & Alterations to Shorelines & Watercourses”. At the April 23rd Board of Directors meeting, staff will present examples within the watershed. The basis for a proposed policy is provided below:

Information brief

Municipal decisions regarding Planning Act applications must be consistent with the Provincial Policy Statement (PPS).

Provincial Policy Statement (PPS 2014)

The PPS provides the following direction (words that are in *italics* are defined in the definition section of the PPS):

- 3.1.1 Development shall generally be directed to areas outside of:
- a) *hazardous lands* adjacent to the shorelines of the *Great Lakes – St. Lawrence River System* and *large inland lakes* which are impacted by *flooding hazards, erosion hazards* and/or *dynamic beach hazards*.
 - b) *hazardous lands* adjacent to river, stream and small inland lake system which are impacted by *flooding hazards* and/or *erosion hazards*; and
 - c) *hazardous sites*.
- 3.1.2. *Development* and *site alteration* shall not be permitted within:
- a) the *dynamic beach hazard*
 - b) *defined portions of the flooding hazard along connecting channels* (the St. Marys, St.

Clair, Detroit, Niagara and St. Lawrence Rivers)
c) *floodway*

PPS Definitions:

- Development* means the creation of a new lot, a change in land use, or the construction of buildings and structures requiring approval under the Planning Act....
- Hazardous lands* means property or lands that could be unsafe for development due to naturally occurring processes. Along the shorelines of the *Great Lakes – St. Lawrence River System*, this means the land, including that covered by water, between the international boundary, where applicable, and the furthest landward limit of the *flooding hazard, erosion hazard or dynamic beach hazard* limits. Along *river, stream and small inland lake systems*, this means the land, including that covered by water, to the furthest landward limit of the *flooding hazard or erosion hazard* limits.
- Site alteration means activities, such as grading, excavation and the placement of fill that would change the landform and natural vegetative characteristics of a site.

The PPS provides a policy basis for discouraging, if not prohibiting, fragmentation of floodplain lands. The PPS also provides a general policy direction that development, which can be interpreted to include lot creation, should avoid slope hazards.

SCRCA Issues with the severance or fragmentation of hazard lands

The main concern relates to our responsibilities for regulating these areas. Section 28 of the Conservation Authorities Act deals with the CA “Development, Interference with Wetlands & Alteration to Shorelines & Watercourses” Regulation. Under this legislation, and its enacting Regulations, a CA regulates development and site alteration within flooding and erosion prone areas as well as wetlands and adjacent lands (buffers to wetlands).

It is certainly recognized that all lot creation involving hazardous lands can not, and should not, be prohibited. Technical and administrative consents should be permitted for example. (ie exchange or conveyance of lands). However, it must be recognized that each time that a new parcel is created that includes an area of land regulated by the Conservation Authority, the Authority has an additional landowner to keep advised of the regulated areas and to potentially deal with through the permitting or violation process. In 2006, when the SCRCA Regulation area was enlarged to include Lake Huron and the St Clair River plus the former No Mans Land (southwest Bosanquet Twp, now Lambton Shores), another full time equivalent Regulations Officer was required. It is important to note, there is significant development pressure on the Lake Huron shoreline, so the demand substantially increased in this area. For example, lands along the Lake Huron shoreline strip (basically Lakeshore Road area) are designated the residential growth area for Plympton Wyoming. This is noted in P-W’s Official Plan.

Where large rural parcels are created with substantial building envelopes outside the hazard, severances are not an issue. What is often the case, however, is lot creation occurring for residential purposes in compact areas. This stresses the slope and floodplain due to access and

accessory uses etc. Ultimate owners of small lots have an expectation that they can develop and alter the entire lot. Conflicts can occur such as:

- Utility sheds and other types of secondary structures (ie pools, pool sheds, play houses, elaborate fencing/landscaping (ie Lake Huron low bluff and high bluff areas). These types of structures are often established without a building permit and as a result the CA and municipalities may not be aware until well after the fact. Flooding and erosion can cause damage to these structures and can impact adjacent owners properties and view scape demanding compensation or removal. Examples will be provided at the Board of Directors April 23 meeting.

Summary

To address the potential for hazard land fragmentation which can also impact the natural heritage features on the landscape, many Conservation Authorities are including a general prohibition of fragmentation in their planning policy and guidelines. Where it is evident that fragmentation will potentially create land use conflicts, it is recommended that this potential be dealt with proactively, so environmental damage can be reduced, future staffing costs are minimized and thus levy apportionments to municipalities kept down.

To: Board of Directors
Date: April 7, 2015
From: Donna Strang, Remedial Action Plan Coordinator
Subject: St. Clair River Area of Concern (AOC)

Beneficial Use Impairment (BUI) Status Updates:



Restrictions on Dredging Activities

The “Restrictions on Dredging Activities” BUI status assessment has been drafted, reviewed and approved by the Canadian Remedial Action Plan (RAP) Implementation Committee (CRIC) and has been accepted by the Aamjiwnaang First Nation Environment Committee and Chief and Council. The Walpole Island Heritage Committee has provided a recommended community engagement strategy that includes suggested participation at community events along with Committee questions and comments on the draft status assessment. Answers are currently being drafted and consultation with the Walpole Island First Nation community will be organized soon.

Beach Closings

A draft status assessment has been prepared for the “Beach Closings” BUI that incorporates: 1) the results of three years of beach water quality monitoring for *Escherichia coli* (*E. coli*) at swimming areas along the St. Clair River, 2) beach water quality monitoring results from municipally identified “official” beaches sampled annually and 3) data obtained from a Microbial Source Track-down study conducted at Centennial Park in Sarnia, Ontario. The draft has undergone agency review and once all comments have been incorporated, will be reviewed by agency experts.



*A precautionary sign at Branton-Cundick Park warning bathers of the potential for high *E. coli* levels that could be harmful to their health, particularly after heavy rain events.*

Restrictions on Drinking Water Consumption or Taste and Odour Problems

At the end of 2014, a draft discussion paper was prepared for the “Restrictions on Drinking Water Consumption or Taste and Odour Problems” BUI. The document is not a status

assessment but rather a report that outlines and summarizes relevant information pertaining to this BUI and initiate a discussion on its status. The document is currently being reviewed and will be available publically once the draft is completed.

Upcoming BUI Status Assessments:

Fish Tumours or Other Deformities

A collaboration and partnership between Environment Canada, the Walpole Island Heritage Centre and the Walpole Island First Nation community has contributed to the collection of data required to properly determine the status of the "Fish Tumours or Other Deformities" BUI. Between 2013 and 2014, 50 Brown Bullhead (*Ameiurus nebulosus*) fish were collected from the Walpole Island delta for liver tumour analysis. Brown Bullhead fish were selected as a sentinel species as they are fish that are in constant contact with the sediment and don't migrate, limiting their exposure to other environments. Visual inspection of the fish yielded positive results however, the results of the liver tumour analysis are pending.



Each Brown Bullhead was visually inspected for lesions and other deformities before livers were extracted.



Local fishermen from the Walpole Island First Nation community were integral in the successful collection of fish for the study.

Bird or Animal Deformities or Reproductive Problems

All data has been collected in support of the "Bird or Animal Deformities or Reproductive Problems" BUI status assessment. Leopard Frog (*Lithobates pipiens*) collection from around Walpole Island was completed in 2014. Each frog was visually inspected for deformities such as missing limbs, eyes or abnormal growths. Additionally, hatching success was assessed in snapping turtle (*Chelydra serpentine*) eggs exposed to St. Clair River sediment. Results were positive and a status assessment should be drafted shortly.



Binational BUI Status:

The following chart provides the current status of BUIs on both the Canadian and American side of the St. Clair River AOC. Those with "***" denote that the BUI is related to the Sediment Management Project.

St. Clair River Area of Concern Binational BUI Status		
Beneficial Use Impairment	Status Canada	Status US
Restrictions on Fish and Wildlife Consumption**	Impaired	Impaired Being assessed under MDCH statewide assessment 2012
Degradation of Benthos**	Impaired	Not Impaired Formally re-designated 2014
Restrictions on Drinking Water Consumption or Taste and Odour Problems	Impaired	Impaired
Beach Closings	Impaired Status review in 2015-16	Impaired
Loss of Fish and Wildlife Habitat	Impaired	Impaired
Restrictions on Dredging Activities	Impaired In consultation with First Nations	Not Impaired Formally re-designated 2011
Degradation of Aesthetics	Impaired Local approval 2014	Not Impaired Formally re-designated 2012
Degraded Fish and Wildlife Populations	Requires Further Assessment	Not Impaired*
Fish Tumours and other Deformities	Requires Further Assessment	Not Impaired*
Bird or Animal Deformities or Other Reproductive Problems	Requires Further Assessment	Impaired Statewide assessment finalized in August 2012
Tainting of Fish and Wildlife Flavour	Not Impaired, Formally re-designated 2011	Not Impaired Formally re-designated 2011
Eutrophication or Undesirable Algae	Not Impaired	Not Impaired
Added Costs to Agriculture or Industry	Not Impaired Formally re-designated 2012	Not Impaired Formally re-designated 2012
Degradation of Phytoplankton and Zooplankton Populations	Not Impaired	Not Impaired

* The determination in the Stage 1 RAP Report was that the BUI "Required Further Assessment". While establishing the statewide delisting criteria in 2006, the Michigan Department of Environmental Quality decided to define American BUIs that "Required Further Assessment" as "Not Impaired".

Drainage Act and Conservation Authorities Act Protocol (DART)
(A protocol for municipalities and CAs in drain maintenance and repair)
Completed Files

Municipal drain January-March 2015 activity report associated with the provincially approved guidance “*Drainage Act and Conservation Authorities Act Protocol (DART)*” approved by the Board April 18, 2013.*

<i>SCRCA DART Files</i>			2015 January		
<i>FHR #</i>	<i>Municipality</i>	<i>Geographic Township</i>	<i>Drain Name</i>	<i>Project Description</i>	<i>SCRs Issued</i>
2473	Chatham-Kent	Dover	Little Bear Creek Drain	Brushing bank slope	1
2472	Dawn-Euphemia	Dawn	Second Concession Drain	Culvert replacement	1
2471	St. Clair	Sombra	Babcock Drain	Bottom cleanout, brushing bank slope	2
2468	Warwick	Warwick	McCallum Drain	Bottom cleanout, brushing top of bank	2

SCRCA DART Files

2015 February

FHR #	Municipality	Geographic Township	Drain Name	Project Description	SCRs Issued
2479	Brooke-Alvinston	Brooke	Campbell Drain	Bottom cleanout, brushing bank slope, brushing top of bank	3
2480	Brooke-Alvinston	Brooke	Thompson Drain	Repair tile outlet	1
2487	Chatham-Kent	Camden	Armstrong Drain	Culvert replacement	1
2496	Chatham-Kent	Camden	Paul Drain	Brushing bank slope	2
2477	Chatham-Kent	Chatham	Strain Drain	Brushing bank slope, bottom cleanout	2
2486	Chatham-Kent	Chatham	Simpson Drain	Culvert replacement	1
2488	Chatham-Kent	Chatham	Irving Drain	Culvert replacement	1
2494	Chatham-Kent	Chatham	Big Creek Drain	Brushing bank slope	1
2495	Chatham-Kent	Chatham	14 th Concession Pump	Brushing bank slope, bottom cleanout	2
2481	Enniskillen	Enniskillen	Acton Drain	Bottom cleanout, brushing bank slope, brushing top of bank	3
2482	Enniskillen	Enniskillen	Wilson Drain	Bottom cleanout, brushing bank slope, brushing top of bank, culvert replacement	4
2483	Enniskillen	Enniskillen	Fox Creek Drain	Culvert replacement	1
2484	Ennsikillen	Enniskillen	Cook Drain	Culvert replacement	1
2485	Enniskillen	Enniskillen	Parke Wilson Drain	Bottom cleanout, brushing bank slope, brushing top of bank	3
2476	St. Clair	Sombra	Henry Drain	Bottom cleanout, brushing bank slope	2
2478	Warwick	Warwick	Moffatt Carroll Drain	Bottom cleanout	1

SCRCA DART Files

2015 March

<i>FHR #</i>	<i>Municipality</i>	<i>Geographic Township</i>	<i>Drain Name</i>	<i>Project Description</i>	<i>SCRs Issued</i>
2501	Chatham-Kent	Chatham	Way Drain	Brushing bank slope, bottom cleanout	2
2506	Sarnia	Sarnia	Schauteet Drain	Brushing bank slope	1
2507	Sarnia	Sarnia	Johnston Drain	Brushing bank slope, brushing top of bank	2
2508	Sarnia	Sarnia	Luckins Drain	Culvert replacement	1

***Note**

The SCR's and the above report are prepared by Biology Section staff with ratification by Planning and Regulations Section/ Regulations Officer ratification. Ontario Regulation 171/06 "Development, Interference with Wetlands & Alterations to Shorelines & Watercourses" applies, however the DART protocol is followed for streamlining purposes.

Staff Report

11. (vi)



To: Board of Directors
Date: April 9, 2015
From: Patty Hayman, Director of Planning
Subject: Update: SCRCA and Lambton County Memorandum of Agreement for SCRCA to provide natural hazard and natural heritage municipal planning advisory services has been signed.

Background

In 2014, the Board of Directors recommended staff seek agreement on providing natural hazard and natural heritage planning advisory services to municipalities. The County of Lambton, being the largest upper tier planning department within the watershed was targeted for discussion and agreement purposes.

It is important to note and as presented at the June 2014 Board meeting, only Natural Hazards provincial policy (including the hydrologic protection of wetlands) has been delegated to Conservation Authorities. Natural Heritage protection under the PPS is the responsibility of the municipalities.

Summary

- the attached Memorandum of Agreement (MOA) has been signed by the County of Lambton and SCRCA. This template follows similar area CA/Municipal MOA's.
- it is important to note that services for Natural Heritage planning advice and technical report review have been itemized. **Services are based on a user pay cost recovery basis.**
- in formulating the appropriate planning application fees for Natural Heritage, technical and administrative staff met to discuss and assign appropriate rates and times in late 2014. Staff researched consulting fees for Natural Heritage technical report review and recommended an appropriate fee schedule which was approved by the Board of Directors in November 2014.
- as a reminder, the Conservation Ontario/Ministry of Natural Resources and Forests "Policies and Procedures for Conservation Authority Plan Review and Permitting Activities"(CALC) 2010, recommended that these types of agreements be entered into, particularly if the Conservation Authority was requested to provide technical services outside the delegated approval authority.
- entering into an agreement is positive in that obligations are outlined so expectations can be formalized and referred to.



Recommendation

That the SCRCA seek Ausable Bayfield Conservation Authority signature to the agreement with Appendices specific to ABCA's services and remuneration and further that the SCRCA further seek similar MoA's with other upper and lower tier municipalities.

MEMORANDUM OF AGREEMENT

BETWEEN

ST. CLAIR REGION CONSERVATION AUTHORITY
AUSABLE BAYFIELD CONSERVATION AUTHORITY

AND

THE COUNTY OF LAMBTON

[FEBRUARY 2015]

MEMORANDUM OF AGREEMENT

BETWEEN

St. Clair Region Conservation Authority and Ausable Bayfield Conservation Authority

(Hereinafter referred to as the "Authority")

AND

The County of Lambton

(Hereinafter referred to as the "County")

1. PURPOSE

The purpose of this Memorandum of Agreement is to describe the framework within which the Authority will provide specified plan review and technical clearance services to the County.

2. ROLES AND RESPONSIBILITIES

A. ***The County and the Authority mutually agree that:***

- i) This Memorandum of Agreement is applicable to all parts of the County (herein called the "lands");
- ii) The Authority has the expertise to provide to the County the services identified in this memorandum of agreement;
- iii) This Memorandum of Agreement does not preclude the Conservation Authority from commenting to the County from a Conservation Authority perspective, as they normally would, on an application circulated by the County under the Planning Act or any relevant legislation;
- iv) A protocol has been mutually developed and will continue to be adapted for application pre-screening, with the objective of further streamlining the process;
- v) A protocol has been mutually developed and will continue to be adapted to co-ordinate and enhance information/data sharing opportunities and responsibilities;
- vi) This Memorandum of Agreement may, by mutual agreement, be amended in writing from time to time, to reflect changes in legislation or provincial policies, and/or as a result of subsequent discussions between the parties;
- viii) Any party to this Memorandum of Agreement may terminate the agreement at any time by providing a minimum of 6 months written notice to the other party to the agreement.

- ix) The terms and fee schedule in this Memorandum of Agreement will be reviewed annually.

B. *The County commits to:*

- i) Provide an advisory service to the Authority and assist in developing guidelines and policy in respect to the Authority's responsibilities under the Memorandum of Agreement;
- ii) Circulate to the Authority applications as listed in Appendix A Schedule 1 for comment in accordance with pre-screening arrangements as agreed.
- iii) Collect those fees described as listed in Appendix B on behalf of the Authority, and forward these funds to the Authority with the application;
- iv) Provide assistance and/or share resources, subject to availability of resources, with respect to prosecutions, appeals, and other matters that come before municipal tribunals or other tribunals under the Act and Regulations;
- v) Retain consultants other than the Authority to provide the plan review and technical review services identified in this Memorandum of Agreement, when in the opinion of the County or the Authority, utilizing the Authority as specified in this Agreement could result in a conflict of interest for the Authority or where it is otherwise agreed that it would be in the best interest of the planning process;

C. *The Authority commits to:*

- i) Provide the County with those services listed in Appendix A Schedule 2, for the review of applications as listed in Appendix A Schedule 1, as well as applications such as policy and technical amendments sponsored by the County or a municipal council within Lambton County within the annual levy applied to the Authority programs supported by the municipalities that are part of the County, as supplemented by the review fee collected under 2(B)(iii).
- ii) Provide the County with those services listed in Appendix A, Schedule 2 on a fee for services basis, as per Schedule B
- iii) Provide its comments to the County within 30 calendar days of receipt of an application from the County or request an extension with reasons, for the following types of application: local official plan amendment, plan of subdivision/condominium, or comprehensive official plan;
- iv) Comment on whether the application complies with relevant sections of the Provincial Policy Statement in the plan review services it provides the County.
- v) Comment on whether the application complies with relevant sections of the Official Plan in the plan review services it provides to the County;

- vi) Participate in pre-consultation meetings for potential planning applications upon the request of the County;
- vii) Consider all relevant guidelines in the plan review and technical clearance services it provides the County;
- ix) Not disseminate or use any data, maps, information or other documents either received directly from the province or identified as "Provincial data" by the County, except as otherwise licenced or agreed upon by the licencing party/owner of the data;
- x) Not disseminate or use any data, maps, information or other documents either received directly from the County or identified as "County data" by the County, except as otherwise licenced or agreed upon by the licencing party/ owner of the data; and
- xi) provide expert testimony at an Ontario Municipal Board (OMB) hearing, as requested by the county or municipal legal staff. The municipality will provide the legal representation for Conservation Authorities at the OMB at the cost of the municipality as prearranged. Should the Conservation Authority attend the hearing for matters outside of this Memorandum of Agreement, the Conservation Authority will be responsible for retaining and paying for their own legal representation.

3. TIME FRAME FOR IMPLEMENTATION

- a) This Memorandum of Agreement will take effect on the 1st day of March of the year 2015.

The parties have duly executed this Memorandum of Agreement.



County of Lambton

March 3, 2015

Date



St. Clair Region Conservation Authority

Mar 5/15

Date

Ausable Bayfield Conservation Authority

Date

Definitions

“Planning Application Review” , means:

- i. Reviewing planning applications (including formal consultation) under the Planning Act;
- ii. Identifying the need for and review of technical reports; and
- iii. Recommend conditions of approval.

“Technical Review” means:

Assessing technical reports submitted by a proponent of development to determine if the reports satisfy requirements specified

APPENDIX A – SCHEDULE 1

CIRCULATION STATUS BY APPLICATION TYPE

1. The County advises the Authority that under this Agreement it will circulate the following types of development/planning applications to the Authority for comment as per the items in Appendix A, Schedule 2:
 - Comprehensive Official Plans
 - Site-Specific Official Plan Amendments;
 - Site-Specific Plan of Subdivisions/Condominiums (except in City of Sarnia);

APPENDIX A ¹ – SCHEDULE 2

SERVICES TO BE PROVIDED BY THE ST CLAIR REGION CONSERVATION AUTHORITY
ON A FEE FOR SERVICE BASIS
(FEE TO BE RECOVERED FROM APPLICANTS)

- A) The Authority will undertake review and provide comments and recommendations, where appropriate, for the following features or areas:

FEATURE OR AREA	PPS ADJACENT LAND OR SETBACK WHERE CA TO PROVIDE INPUT IF REQUIRED	STATUS
Natural Hazard Area (CA delegated)¹ - lands within Regulation 171/06 and Regulation 147/06 - flooding - Erosion prone lands and unstable slopes - dynamic beach - significant wetlands - wetlands - significant coastal wetlands - coastal wetlands	- Subject property within this area 120 m hydrologic 30 m hydrologic 120 m hydrologic 120 m hydrologic	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Natural Heritage Features - Significant wetlands - Significant coastal wetlands - Significant valley lands - Significant woodlands - Significant wildlife habitat - Significant areas of natural and scientific interest - fish habitat - potential habitat of endangered species and threatened species	120 m 120 m 120 m 120 m 120 m 120 m 120 m 120 m	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Water -sensitive surface water features		✓

-Sensitive ground water features solely related to interaction with natural heritage features/functions		✓
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¹CA's have been delegated the authority to comment on Natural Hazards pursuant to MoU between Conservation Ontario, Ministry of Municipal Affairs and Housing and Ministry of Natural Resources.

B) The Authority will undertake plan review and make recommendations where appropriate for the following:

- Subdivisions & Condominiums;
- Site-Specific Local Official Plan Amendments; and

The fees for the above noted reviews will be recovered from the applicant/proponent and are outlined in Appendix B.

C) The Endangered Species Act is the responsibility of the Ministry of Natural Resources. The Conservation Authorities through agreement as outlined in Appendix A and B, screen applications and provide technical comments for potential habitat and provide information to the County.

TECHNICAL REPORT REVIEW SERVICES AND RESPONSIBILITY

(* RESONSIBILITY SERVICE REQUESTED)

ISSUE/CONCERN		SCR CONSERVATION AUTHORITY	COUNTY	MINISTRY OF THE ENVIRONMENT	MINISTRY OF NATURAL RESOURCES
Natural Hazards	Floodline delineation	*			
	Erosion (incl shoreline, fluvial geomorphology)	*			
	Slope stability (geotechnical)	*			
	Hydraulics (riparian/channel design)	*			
Stormwater Management	Location re natural hazards	* (LEAD)	*(munic, lower tier)		
	Potential impacts to receiving watercourse	* (LEAD)	*(munic, lower tier)		
	Outlet to watercourse (if necessary)	* (Lead)	*(munic, lower tier)		
	Sizing of facility re quality, erosion, quantity, incl release rates/settling calculation	*	* (munic, lower tier - lead)	*	
Natural Heritage	wetlands	* (hydrog lead) ¹ <input checked="" type="checkbox"/>	* (lead)		*
	Significant wetlands	* (hydrog lead) ¹ <input checked="" type="checkbox"/>	* (lead)		*(lead in identification)
	coastal wetlands	* (hydrog lead) ¹ <input checked="" type="checkbox"/>	* (lead)		*
	Significant coastal wetlands	* (hydrog lead) ¹ <input checked="" type="checkbox"/>	* (lead)		*(lead in identification)
	Significant woodlands	<input checked="" type="checkbox"/>	* (lead)		
	Significant valleylands	* ² <input checked="" type="checkbox"/>	* (lead)		
	Significant wildlife habitat	<input checked="" type="checkbox"/>	* (lead)		
	Significant Areas of Natural and Scientific Interest	<input checked="" type="checkbox"/>	* (lead)		
	Fish habitat	<input checked="" type="checkbox"/>	* (lead; following DFO policy)		
	Habitat of endangered species and threatened species				*
	Natural Heritage systems	Pending Cty NHStudy completion/approval	*		

		which addresses NH systems			
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¹ wetlands regulated by CAs hydrologically (hydrog)

² valleys regulated by CAs (hazard lands)

Notes – Technical review fees for those CA ✕ responsibility have been established and approved by CA Board.

Technical reports for sensitive surface water and groundwater studies solely related to natural heritage features/functions with exception of wetlands.

APPENDIX B – SCHEDULE 1A
 SCRCA MUNICIPAL PLAN REVIEW
FEE SCHEDULE – COUNTY OF LAMBTON
 REVISIONS UNDER REVIEW

APPLICATION REVIEW FEE:

Charged only for those applications circulated to the Authorities as per the pre-screening protocol.

Official Plan Amendment (Minor)	\$200.00 per application Natural Hazard \$300.00 per application Natural Heritage/combined
Official Plan Amendment (Major)	\$300.00 per application Natural Hazard \$500.00 per application Natural Heritage/combined
Plan of Subdivision(Condo)	\$100.00 per lot /unit to a maximum \$2,500.00
Processing Fee	\$100.00

NOTES AND DEFINITIONS:

1. The Authorities reserves the right to waive the application fee or reduce the fee on a case by case basis;
2. Official Plan Amendment (Major) – Official Plan Amendment which include complex Natural Hazard and Natural Heritage issues involving multiple peer reviews to be completed by SCRCA and/or other qualified professionals. The Authority reserves the right to determine what is considered to be a Official Plan Amendment (Major) on a case by case basis.
3. Fees for multiple applications made for the same parcel within one year will be discounted as follows:

First Application	-Full fee per lot/application
Additional Application	-50% of full fee per application/lot
4. The processing fee is charged in the following cases:
 - Provision of a clearance letter for any application approved prior to March 29, 2006
 - Provision of an extension letter
 - Provision of a letter that is limited to minor changes whereby the design complies with SCRCA criteria established through a previous circulation (e.g. subdivision)

SCRCA TECHNICAL REPORT REVIEW FEE
APPENDIX B – SCHEDULE 1B
REVISIONS UNDER REVIEW

TYPE OF TECHNICAL REPORT	Fees
1. Site Plan i.e. Showing location of building envelopes, septic systems, wetlands, flood plain, slopes etc.	\$200.00
2. Scoped Impact studies and proposed mitigation measures for any proposal that is potentially impacted by natural hazards (riverine flooding, riverine slope stability, general slope stability)	\$300.00
3. Comprehensive Impact studies and proposed mitigation measures for any proposal that is potentially impacted by natural hazards (riverine flooding, riverine slope stability, general slope stability)	\$500.00
4. <i>Scoped</i> Environmental Impact Studies for proposed mitigation measures related to any natural heritage feature	\$300.00
5. Comprehensive Environmental Impact Studies for proposed mitigation measures related to any natural heritage features	\$2,000.00
6. Stormwater management studies and proposed facilities. This fee includes review of all Phases of SWM plans from preliminary or conceptual to final engineering design (Quality, Quantity and Sediment and Erosion Control).	\$500.00
7. Sediment and Erosion Control Plan	\$200.00
8. Hydrogeology Assessments	\$500.00
9. Subwatershed Study/Master Drainage Plan or Tributary Study	\$500.00
10. Any combination of two of the above	Sum of the two less \$100.00
11 Any combination of three of the above	Sum of the three less \$200.00
12. Any combination of four or more of the above	Sum of four or more less \$300.00
13. Technical report Terms of Reference/Workplan review (incl. 2 reviews/input	\$100.00

NOTES AND DEFINITIONS:

1. For the purpose of this fee schedule, Scoped impact studies are generally recommended in situations where the nature of the natural feature or hazard is well documented, similar development has been previously proposed, modelled and analysed, impacts are not expected due to the location or nature of a proposed development, and mitigation options have been displayed.
2. For the purpose of this fee schedule, Comprehensive impact studies are generally recommended in situations which are more complex, where information is lacking, or where the risk or significance of the impact is high.
3. The fee for the technical report review is to be paid by the proponent directly to the Authority

4. It is strongly recommended that the proponent pre-consult with the SCRCA and the County prior to preparation of a detailed technical report. See item 13 in above noted chart Schedule 1B.
5. Where a Section 28 permit approval is required in addition to the planning approval, the fee for the Conservation Authority permit may be discounted.
6. The fees in this Schedule will be assessed on a regular basis to ensure that the revenue generated is comparable to the operating costs to provide this service. Revisions to this Schedule may be implemented through clause 2 (A)(ix) of this Agreement.
7. The fees for technical report review include one comprehensive report review and one revised report review. The Authority reserves the right to charge a processing fee or additional technical report fees for additional reviews.

Prepared By: Tracy Prince
March 25, 2015

ST CLAIR REGION CONSERVATION AUTHORITY
Statement of Revenue and Expenditure
For the Two Months Ended 2/28/2015

	Actual To Date			Annual Budget		Variance from Budget	
	Revenue	Expenditures	Surplus(Deficit)	Revenue	Expenditures	Revenue	Expenditures
Flood Control & Erosion Control	\$345,568	\$82,385	\$263,183	\$598,950	\$598,950	(\$253,382)	(\$516,565)
Capital Projects/WECI	\$613,864	\$132,739	\$481,125	\$337,500	\$337,500	\$276,364	(\$204,761)
Conservation Area's Capital Development	\$101,243	\$2,496	\$98,747	\$137,000	\$137,000	(\$35,757)	(\$134,504)
IT Capital	\$3,224	\$0	\$3,224	\$19,200	\$19,200	(\$15,976)	(\$19,200)
Equipment	\$13,150	\$0	\$13,150	\$72,000	\$72,000	(\$58,850)	(\$72,000)
Planning & Regulations	\$268,611	\$65,703	\$202,909	\$427,600	\$427,600	(\$158,989)	(\$361,897)
Technical Studies	\$279,939	\$32,135	\$247,804	\$213,900	\$213,900	\$66,039	(\$181,765)
Recreation	\$55,784	\$65,210	(\$9,426)	\$1,099,700	\$1,099,700	(\$1,043,916)	(\$1,034,490)
Property Management	\$5,892	\$58,022	(\$52,130)	\$273,000	\$273,000	(\$267,108)	(\$214,978)
Education and Communication	\$75,703	\$30,487	\$45,215	\$210,900	\$210,900	(\$135,198)	(\$180,413)
Source Water Protection	\$0	\$30,778	(\$30,778)	\$200,000	\$200,000	(\$200,000)	(\$169,222)
Conservation Services/Healthy Watersheds	\$495,755	\$105,025	\$390,730	\$1,105,451	\$1,105,451	(\$609,696)	(\$1,000,426)
Administration/AOC Management	\$394,156	\$149,016	\$245,140	\$1,014,940	\$1,014,940	(\$620,784)	(\$865,924)
	\$2,652,890	\$753,996	\$1,898,894	\$5,710,141	\$5,710,141	(\$3,057,251)	(\$4,956,145)

Notes:

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

**ST. CLAIR REGION CONSERVATION AUTHORITY
DISBURSEMENTS FROM JANUARY, FEBRUARY & MARCH 2015**

**12.(ii)
Sarah Kellestine**

CHQ. #	DATE	VENDOR	DESCRIPTION	AMOUNT
16507	1/7/2015	Campbells Outdoor Power Equipm	Vehicle Maint.	80.67
16508	1/7/2015	Canadian Linen & Uniform	Mats	86.12
16509	1/7/2015	CENTRAL SANITATION	Portable washroom	288.15
16510	1/7/2015	DOWLER KARN PROPANE	Fuel	380.47
16511	1/7/2015	Europa's Bakery	Cake	57.00
16512	1/7/2015	FOREST CITY BUSINESS EQUIPMENT	Photocopier usage	2,906.37
16513	1/7/2015	FOREST CITY LEASING	Photocopier lease	293.80
16515	1/7/2015	John Jones	Bingo	380.00
16516	1/7/2015	KLEEFMAN CLEANING SERVICES	Office Cleaning	861.63
16517	1/7/2015	KUCERA UTILITIES & FARM SUPPLY	Vehicle Maint.	175.40
16518	1/7/2015	LANDSTRA CATERING	Lunch for meetings	1,872.06
16519	1/7/2015	MUNICIPALITY OF STRATHROY-CARA	Grass Cutting	2,280.00
16520	1/7/2015	ONTARIO MINISTER OF FINANCE	Employer Health Tax	4,411.59
16521	1/7/2015	Pinchin Ltd.	Air Quality Test	1,988.80
16522	1/7/2015	PUROLATOR COURIER	Postage	215.09
16523	1/7/2015	Regent Printing	Printed Cheques	906.99
16524	1/7/2015	SIGNS AND DESIGNS	Advertising	73.45
16525	1/7/2015	SUPERIOR COMPUTER SALES INC.	Monitor	242.95
16526	1/7/2015	TOWNSHIP OF WARWICK	Utility	77.13
16527	1/7/2015	TOWNSHIP OF DAWN-EUPHEMIA	Utility	108.20
16528	1/7/2015	Wallaceburg Sportman Club	Utility	276.44
16529	1/7/2015	WASTE MANAGEMENT OF CANADA COR	Garbage Collection	215.87
16530	1/7/2015	WORKPLACE SAFETY & INS. BOARD	WSIB	5,337.30
16531	1/7/2015	Wyoming Tree Service	Snow Removal	271.20
16532	1/7/2015	Yellow Pages Group	Advertising	26.22
16533	1/12/2015	ENVIRON INTERNATIONAL CORP.	Consulting	13,175.70
16534	1/12/2015	HYDE PARK EQUIPMENT LTD.	Vehicle Maint.	446.56
16535	1/12/2015	John Jones	Bingo	380.00
16536	1/12/2015	Land Improvement Contractors o	Registration	180.80
16537	1/12/2015	LONDEX OFFICE PRODUCTS	Office Supplies	58.18
16538	1/12/2015	Middlesex Soil & Crop Improvem	Sponsorship	125.00
16539	1/12/2015	MUNICIPALITY OF STRATHROY-CARA	Permit	1,500.00
16540	1/12/2015	PODOLINSKY FARM EQUIPMENT	Vehicle Maint.	51.95

16541	1/12/2015 STRATHROY TIRE SALES & SERVICE	Vehicle Maint.	25.00
16542	1/12/2015 WINMAR - London	Health and Safety	1,766.69
16543	1/27/2015 Armtec Limited Partnership	Building Supplies	7,837.68
16544	1/27/2015 Basement Boss	Renovation at McLean	9,266.00
16545	1/27/2015 BUFFETT, TAYLOR & ASSOCIATES I	Group Benefits	10,129.71
16546	1/27/2015 Canadian Linen & Uniform	Mats	129.18
16547	1/27/2015 STEPHEN CLARK	Employee Expense	43.88
16548	1/27/2015 CONSERVATION ONTARIO	GIS Software Maintenance	288.10
16549	1/27/2015 DISTINCT IMPRESSION	Advertising	315.27
16550	1/27/2015 DOWLER KARN PROPANE	Fuel	262.15
16551	1/27/2015 ENVIRON INTERNATIONAL CORP.	Consulting	2,935.54
16552	1/27/2015 FOREST CITY BUSINESS EQUIPMENT	Photocopier lease	372.90
16553	1/27/2015 GENCARE SERVICES	Inspection - Energy Generating System	604.55
16554	1/27/2015 KELLY JOHNSON	Employee Expense	567.18
16555	1/27/2015 Jordan & Cook Architect Ltd	Consulting	10,893.35
16556	1/27/2015 Kingsley's P.O.S. Systems	Point of Sale for Campgrounds	779.64
16557	1/27/2015 KYIS EMBROIDERY	Uniforms	36.16
16558	1/27/2015 LARRY MACDONALD CHEV OLDS	Vehicle Maint.	516.73
16559	1/27/2015 Lindhout, Pieter	Grant - Septic System Upgrade	4,000.00
16560	1/27/2015 LITTLE, INGLIS, PRICE & EWER	Lawyers	2,763.98
16561	1/27/2015 LOBLAW COMPANIES LIMITED	Meeting Expense	13.16
16562	1/27/2015 Heather Long	Employee Expense	72.17
16563	1/27/2015 LVM INC.	Geotechnical Assessment	2,570.75
16564	1/27/2015 PUROLATOR COURIER	Postage	44.07
16565	1/27/2015 Shannon Vending Limited	Meeting Expense	153.70
16566	1/27/2015 SHOREPLAN ENGINEERING LTD.	Consulting	7,897.76
16567	1/27/2015 STRATHROY WELDING AND REPAIRS	Tree Counter	1,130.00
16568	1/27/2015 STRATHROY HOME HARDWARE BUILDI	Maintenance Supplies	700.44
16569	1/27/2015 STRATHROY TIRE SALES & SERVICE	Vehicle Maint.	976.57
16570	1/27/2015 SUN MEDIA CORPORATION	Advertising	310.30
16571	1/27/2015 SUPERIOR COMPUTER SALES INC.	Computer	2,327.80
16572	1/27/2015 THREE MAPLES VARIETY	Fuel	305.75
16573	1/27/2015 TOWNSHIP OF ST. CLAIR	Permits	1,850.22
16574	1/27/2015 WORKPLACE SAFETY & INS. BOARD	WSIB	3,901.33
16575	1/27/2015 Yellow Pages Group	Advertising	26.22
16576	2/2/2015 AUSABLE BAYFIELD CON.AUTHORITY	Middlesex Stewardship Council	42,882.50
16577	2/2/2015 ELGIN STEWARDSHIP COUNCIL	Meeting Expense	114.13

16578	2/2/2015 Sarah Kellestine - Petty Cash	Petty Cash	261.62
16579	2/2/2015 KETTLE CREEK CONS. AUTHORITY	Middlesex Stewardship Council	10,500.00
16580	2/2/2015 LOBLAW COMPANIES LIMITED	Meeting Expense	8.98
16581	2/2/2015 Peter McLean	Middlesex Stewardship Council	8,284.80
16582	2/2/2015 Bill Thirwall	Middlesex Stewardship Council	537.50
16583	2/2/2015 TREES MIDDLESEX CENTRE,C/O RUTH BYCRAFT	Middlesex Stewardship Council	24,000.00
16584	2/2/2015 UPPER THAMES RIVER CONS. AUTH.	Middlesex Stewardship Council	13,125.00
16585	2/2/2015 WICKS CONSTRUCTION AND GENERAL	Cathcart Park Construction	60,983.90
16586	2/17/2015 Amico Infrastructures (Oxford Inc)	Consulting	44,259.84
16587	2/17/2015 MUNICIPALITY OF BROOKE-ALVINST	Interim Tax	1,012.00
16588	2/17/2015 Bruce A. Bond Petroleum LTD.	Fuel	648.06
16589	2/17/2015 Canadian Linen & Uniform	Mats	86.12
16590	2/17/2015 CITY OF SARNIA	Interim Tax	107.99
16591	2/17/2015 CONSERVATION ONTARIO	2015 Levy and Software	17,635.87
16592	2/17/2015 CORP. OF THE TOWN OF PETROLIA	Interim Tax	201.00
16593	2/17/2015 DOWLER KARN PROPANE	Fuel	175.84
16594	2/17/2015 DUN-RITE LANDSCAPING INC.	Snow Removal	798.91
16595	2/17/2015 ELGIN STEWARDSHIP COUNCIL	Meeting Expense	59.46
16596	2/17/2015 ENCORE PROMOTIONAL PRODUCTS	Rosette Supreme	139.93
16597	2/17/2015 FOREST CITY LEASING	Photocopier lease	293.80
16598	2/17/2015 HEYLAND FARMS LTD./DOUG MCGEE	Seed	1,237.50
16599	2/17/2015 HSE INTEGRATED ILTD.	Fire Equipment	622.00
16600	2/17/2015 KELLY JOHNSON	Employee Expense	35.00
16601	2/17/2015 John Jones	Bingo	380.00
16602	2/17/2015 MICROAGE BASICS	Phone Service	282.50
16604	2/17/2015 MUNICIPALITY OF CHATHAM KENT	Interim Tax	6,282.96
16605	2/17/2015 MUNICIPALITY OF LAMBTON SHORES	Interim Tax	452.97
16606	2/17/2015 MUNICIPALITY OF MIDDLESEX CENT	Interim Tax	323.00
16607	2/17/2015 MUNICIPALITY OF STRATHROY-CARA	Interim Tax	1,576.71
16608	2/17/2015 MUNICIPALITY OF SOUTHWEST MIDD	Interim Tax	839.00
16609	2/17/2015 NOTHERS	Engraving	1,304.08
16610	2/17/2015 Professional Engineers Ontario	Employee Course	339.00
16611	2/17/2015 PUROLATOR COURIER	Postage	149.88
16612	2/17/2015 Reich & Petch Architects	Consulting	5,085.00
16613	2/17/2015 Sani - International Technology Advisors Inc.	Consulting	3,955.00
16614	2/17/2015 GIRISH SANKAR	Employee Expense	203.50
16615	2/17/2015 Shannon Vending Limited	Meeting Expense	109.90

16616	2/17/2015 SHOREPLAN ENGINEERING LTD.	Consulting	26,107.14
16617	2/17/2015 SIGNS AND DESIGNS	Advertising	1,113.05
16618	2/17/2015 Daniel Skinner	Employee Expense	38.50
16619	2/17/2015 Sun Media Corporation	Advertising	394.55
16620	2/17/2015 THAMES VALLEY DISTRICT SCHOOL	Reimbursement	17.00
16622	2/17/2015 TOWN OF PLYMPTON-WYOMING	Interim Tax	301.67
16625	2/17/2015 TOWNSHIP OF ST. CLAIR	Interim Tax	13,585.84
16626	2/17/2015 TOWNSHIP OF DAWN-EUPHEMIA	Interim Tax	20.00
16627	2/17/2015 WOODS PEARSON & ASSOCIATES	Consulting	14,215.00
16628	2/17/2015 Wyoming Tree Service	Snow Removal	271.20
16629	2/18/2015 TOWNSHIP OF ENNISKILLEN	Interim Tax	1,125.43
16630	2/18/2015 TOWNSHIP OF ST. CLAIR	Interim Tax	1,103.04
16631	3/5/2015 4IMPRINT, INC.	Advertising	355.72
16632	3/5/2015 Amico Infrastructures (Oxford Inc)	Consulting	95,028.48
16633	3/5/2015 MARK BAKELAAR	Employee Expense	100.00
16634	3/5/2015 BF ENVIRONMENTAL CONSULTANTS	Consulting	36,866.94
16635	3/5/2015 1841792 ONT. INC., BILL BRON E	Light Repair	139.75
16636	3/5/2015 Burns Catering	Meeting Expense	1,496.37
16637	3/5/2015 Canadian Linen & Uniform	Mats	129.18
16638	3/5/2015 CAROLINIAN CANADA	Trillium Lake Huron	1,615.00
16639	3/5/2015 STEPHEN CLARK	Employee Expense	159.76
16640	3/5/2015 Courtright Community Centre	Meeting Expense	200.00
16641	3/5/2015 D&M Trophy	Trophy's	232.95
16642	3/5/2015 DOWLER KARN PROPANE	Fuel	228.36
16643	3/5/2015 FOREST CITY LEASING	Photocopier lease	293.80
16644	3/5/2015 HAYTER-WALDEN PUBLICATIONS INC	Subscription Renewal	80.00
16645	3/5/2015 KELLY JOHNSON	Employee Expense	35.00
16646	3/5/2015 Sarah Kellestine - Petty Cash	Petty Cash	195.56
16647	3/5/2015 KLEEFMAN CLEANING SERVICES	Office Cleaning	381.38
16648	3/5/2015 LOBLAW COMPANIES LIMITED	Meeting Expense	25.04
16649	3/5/2015 BRIAN MCDOUGALL	Employee Expense	535.15
16650	3/5/2015 MIDDLESEX PRINTING CORPORATION	Annual Reports	1,295.98
16651	3/5/2015 SHARON NETHERCOTT	Employee Expense	261.94
16652	3/5/2015 Ontario Bluewater Visitor Guide	Advertising	211.31
16653	3/5/2015 TIM PAYNE	Employee Expense	82.50
16654	3/5/2015 PUROLATOR COURIER	Postage	78.30
16655	3/5/2015 Reliance Home Comfort	Water heater from rental property	93.26

16656	3/5/2015 RIVERVIEW	vehicle main	19.76
16657	3/5/2015 SHOREPLAN ENGINEERING LTD.	Consulting	22,696.74
16658	3/5/2015 Spriet Associates	Consulting	2,820.51
16659	3/5/2015 ST.CLAIR REGION CON.FOUNDATION	MJA Scholarship	150.00
16660	3/5/2015 DONNA STRANG	Employee Expense	112.80
16661	3/5/2015 TOWNSHIP OF ST. CLAIR	Utility	48.99
16662	3/5/2015 WORKPLACE SAFETY & INS. BOARD	WSIB	4,130.45
16663	3/5/2015 Wyoming Tree Service	Snow Removal	271.20
16664	3/5/2015 Yellow Pages Group	Advertising	26.47
16665	3/17/2015 KEVAN BAKER	Uniforms	44.75
16666	3/17/2015 BUFFETT, TAYLOR & ASSOCIATES I	Group Benefits	10,426.36
16667	3/17/2015 Canadian Linen & Uniform	Mats	86.12
16668	3/17/2015 DELTA POWER EQUIPMENT	Machinery Purchase	4,260.10
16669	3/17/2015 DOWLER KARN PROPANE	Fuel	467.07
16670	3/17/2015 DUN-RITE LANDSCAPING INC.	Snow Removal	834.51
16671	3/17/2015 MELISSA GILL	Employee Expense	400.58
16672	3/17/2015 Gourmet Cafe	Meeting Expense	198.15
16673	3/17/2015 Kingsley's P.O.S. Systems	Point of Sale for Campgrounds	1,531.04
16674	3/17/2015 KLEEFMAN CLEANING SERVICES	Office Cleaning	275.44
16675	3/17/2015 KYIS EMBROIDERY	Uniforms	27.12
16676	3/17/2015 LARRY MACDONALD CHEV OLDS	Vehicle Maint.	1,106.00
16677	3/17/2015 LOBLAW COMPANIES LIMITED	Service Awards	1,097.63
16678	3/17/2015 MONTEITH & SUTHERLAND LIMITED	Consulting	2,777.88
16679	3/17/2015 PUROLATOR COURIER	Postage	87.00
16680	3/17/2015 STRATHROY HOME HARDWARE BUILDI	Maintenance Supplies	35.61
16681	3/17/2015 TOWNSHIP OF WARWICK	Interim Tax	916.00
16682	3/17/2015 TOWNSHIP OF DAWN-EUPHEMIA	Interim Tax	288.11
16683	3/17/2015 WATFORD HOME HARDWARE BUILDING	Maintenance Supplies	2,292.08
16684	3/31/2015 4IMPRINT, INC.	Advertising	474.20
16685	3/31/2015 Aamjiwnaang First Nation Envir	Donation	1,000.00
16686	3/31/2015 ALS CANADA LIMITED	Lambton Shores	2,129.50
16687	3/31/2015 AUSABLE BAYFIELD CON.AUTHORITY	Middlesex Stewardship Council	8,751.00
16688	3/31/2015 GLENN BAXTER	Employee Expense	100.00
16689	3/31/2015 BF ENVIRONMENTAL CONSULTANTS	Consulting	5,549.43
16690	3/31/2015 BUFFETT, TAYLOR & ASSOCIATES I	Group Benefits	10,426.36
16691	3/31/2015 Canadian Linen & Uniform	Mats	86.12
16692	3/31/2015 CONSERVATION ONTARIO	CA Maps 2015 Subscription	1,500.00

16693	3/31/2015 DELAWARE PUMP & PARTS LIMITED	Vehicle Maint.	367.25
16694	3/31/2015 DELTA POWER EQUIPMENT	Vehicle Maint.	7.70
16695	3/31/2015 DOWLER KARN PROPANE	Fuel	85.79
16696	3/31/2015 DUCKS UNLIMITED CANADA	Project Expense	20,000.00
16697	3/31/2015 FOREST CITY BUSINESS EQUIPMENT	Photocopier usage	1,527.67
16698	3/31/2015 Forest Gene Conservation Association	Registration	25.00
16699	3/31/2015 MELISSA GILL	Employee Expense	395.71
16700	3/31/2015 Imagewear a division of Mark's	Uniforms	228.80
16701	3/31/2015 KENN'S PRINTING LTD.	Office Supplies	36.10
16702	3/31/2015 KETTLE CREEK CONS. AUTHORITY	Advertising	134.48
16703	3/31/2015 The Lawn Master	Culbert Windbreak	6,000.00
16704	3/31/2015 Jim Maw	Grant - Windbreak Project	600.00
16705	3/31/2015 MIDDLESEX PRINTING CORPORATION	Printing Expense	330.69
16706	3/31/2015 SHARON NETHERCOTT	Employee Expense	546.10
16707	3/31/2015 PUROLATOR COURIER	Postage	84.60
16708	3/31/2015 RIVERVIEW	Vehicle Maint.	696.35
16709	3/31/2015 GIRISH SANKAR	Employee Expense	100.00
16710	3/31/2015 Shannon Vending Limited	Meeting Expense	109.90
16711	3/31/2015 SIGNS AND DESIGNS	Advertising	383.07
16712	3/31/2015 STEELES AUTO WRECKERS	Office Maintenance	320.00
16713	3/31/2015 DONNA STRANG	Employee Expense	120.28
16714	3/31/2015 Strathroy & District Chamber o	Advertising	265.55
16715	3/31/2015 STRATHROY HOME HARDWARE BUILDI	Maintenance Supplies	103.68
16716	3/31/2015 SUN MEDIA CORPORATION	Advertising	1,513.07
16717	3/31/2015 MIKE TIZZARD	Employee Expense	493.80
16718	3/31/2015 BILL TURNER	Employee Expense	367.03
16719	3/31/2015 UPPER THAMES RIVER CONS. AUTH.	Middlesex Stewardship Council	8,000.00
16720	3/31/2015 Van Driel Excavating Inc	Consulting	26,693.00
16721	3/31/2015 WATFORD HOME HARDWARE BUILDING	Maintenance Supplies	199.61
16722	3/31/2015 Yellow Pages Group	Advertising	26.22

TOTAL CHEQUE DISBURSEMENTS - BANK #1 -

720,460.95

INTERNET BANKING

TRANS #	DATE	VENDOR	DESCRIPTION	AMOUNT
8092	02/02/2015	BELL CANADA	Telephone	15.36

8093	02/02/2015 BELL CANADA	Telephone	138.23
8094	02/02/2015 BELL MOBILITY CELLULAR	Telephone	96.84
8095	02/02/2015 BLUEWATER POWER	Utility	134.32
8096	02/02/2015 BROOKE TELECOM CO-OP	Telephone	153.35
8097	02/02/2015 ENTEGRUS SERVICES INC. (CHATHA	Utility	946.47
8098	02/02/2015 Execulink Telecom	Internet	1,601.14
8099	02/02/2015 FCDQ (DESJARDINS)	Office Supplies	582.57
8101	02/02/2015 HYDRO ONE Networks Inc.	Hydro	2,719.94
8102	02/02/2015 MASTERCARD	Employee Expense	3,721.95
8103	02/02/2015 OMERS	Pension	42,978.58
8104	02/02/2015 PETRO CANADA INC.	Fuel	2,123.84
8105	02/02/2015 RECEIVER GENERAL	Source Deduction	20,949.49
8106	02/02/2015 Rogers Cable Communications Inc	Telephone	192.04
8107	02/02/2015 ROGERS WIRELESS	Telephone	1,231.60
8108	28/02/2015 BELL CANADA	Telephone	17.51
8109	28/02/2015 BELL CANADA	Telephone	137.34
8110	28/02/2015 BELL MOBILITY CELLULAR	Telephone	83.46
8111	28/02/2015 BROOKE TELECOM CO-OP	Telephone	198.49
8112	28/02/2015 ENTEGRUS SERVICES INC. (CHATHA	Utility	758.17
8113	28/02/2015 Execulink Telecom	Internet	1,601.14
8114	28/02/2015 FCDQ (DESJARDINS)	Office Supplies	923.16
8116	28/02/2015 HYDRO ONE Networks Inc.	Utility	3,498.21
8117	28/02/2015 MASTERCARD	Employee Expense	3,688.73
8118	28/02/2015 OMERS	Pension	27,119.26
8119	28/02/2015 ONTARIO MINISTER OF FINANCE	EHT	2,667.55
8120	28/02/2015 PETRO CANADA INC.	Fuel	800.81
8121	28/02/2015 RECEIVER GENERAL	Source Deduction	42,209.62
8122	28/02/2015 Rogers Cable Communications Inc	Telephone	192.04
8123	28/02/2015 ROGERS WIRELESS	Telephone	1,259.59
8124	31/03/2015 BELL CANADA	Telephone	23.67
8125	31/03/2015 BELL CANADA	Telephone	199.43
8126	31/03/2015 BELL MOBILITY CELLULAR	Telephone	114.99
8127	31/03/2015 BLUEWATER POWER	Utility	136.40
8128	31/03/2015 BROOKE TELECOM CO-OP	Telephone	229.60
8129	31/03/2015 ENTEGRUS SERVICES INC. (CHATHA	Utility	1,000.89
8130	31/03/2015 Execulink Telecom	Internet	1,511.61
8132	31/03/2015 HYDRO ONE Networks Inc.	Utility	3,053.15

8133	31/03/2015 MASTERCARD	Employee Expense	2,560.94
8134	31/03/2015 MY BROADCASTING CORPORATION	Advertising	855.41
8135	31/03/2015 OMERS	Pension	26,772.40
8136	31/03/2015 ONTARIO MINISTER OF FINANCE	EHT	5,840.13
8137	31/03/2015 PETRO CANADA INC.	Fuel	1,174.86
8138	31/03/2015 RECEIVER GENERAL	Source Deduction	44,332.32
8139	31/03/2015 Rogers Cable Communications Inc	Telephone	192.04
8140	31/03/2015 ROGERS WIRELESS	Telephone	1,276.15
8141	31/03/2015 UNION GAS LIMITED	Utility	1,161.22
8142	31/03/2015 WORKPLACE SAFETY & INS. BOARD	WSIB	4,619.40

TOTAL INTERNET DISBURSEMENTS - BANK NO. 1 -

257,795.41

PAYROLL RUNS FROM OCTOBER 2014

PAYROLL NO. 1	\$	46,943.46
PAYROLL NO. 2	\$	44,794.94
PAYROLL NO. 3	\$	44,858.69
PAYROLL NO. 4	\$	44,818.30
PAYROLL NO. 5	\$	50,978.16
PAYROLL NO. 6	\$	54,941.02

TOTAL PAYROLL RUNS - NOVEMBER AND DECEMBER 2014

287,334.57

TOTAL DISBURSEMENTS - NOVEMBER AND DECEMBER 2014

1,265,590.93


**2015 GENERAL LEVY SUMMARY
AS OF March 31 2015**

**GLYSUM2015
Sarah Kellestine
31-Mar-15**

MUNICIPALITY	GROSS LEVY	PAID TO DATE	OUTSTANDING
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Sarnia	\$ 278,903.00	\$	\$ 278,903.00
Chatham-Kent	93,268.00		93,268.00
Brooke-Alvinston Twp.	11,138.00	11,138.00	0.00
Dawn Euphemia Twp.	17,184.00		17,184.00
Enniskillen Twp.	12,137.00		12,137.00
Lambton Shores M.	34,404.00		34,404.00
Oil Springs V	1,394.00	1,394.00	0.00
Petrolia T	17,104.00		17,104.00
Plympton-Wyoming T	35,576.00		35,576.00
Point Edward V	16,819.00		16,819.00
St. Clair Twp.	76,733.00		76,733.00
Warwick Twp.	14,140.00		14,140.00
Adelaide Metcalfe Twp.	11,706.00		11,706.00
Middlesex Centre Twp.	14,564.00		14,564.00
Newbury V	1,066.00	1,066.00	0.00
Southwest Middlesex M.	7,882.00	7,882.00	0.00
Strathroy-Caradoc M.	57,435.00		57,435.00
TOTAL	\$ 701,453.00	\$ 21,480.00	\$ 679,973.00
	=====	=====	=====



ACPCE07 - 8849
SWSTM11000_4755100_001 ED

05923 

Account Number: 460-16010
Account Type: Regular Account
For the Period: February 1 to 27, 2015
Last Statement: December 31, 2014

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

Branch Information
148 Fullarton Street
Suite 1801
London ON
N6A 5P3

Phone: (519) 679-9490
Website: www.scotiamcleod.com
Branch Manager: Steve Hemphill



Your Wealth Advisor
Craig Emptage

(519) 660-3259
craig.emptage@scotiamcleod.com



Your Investment Team

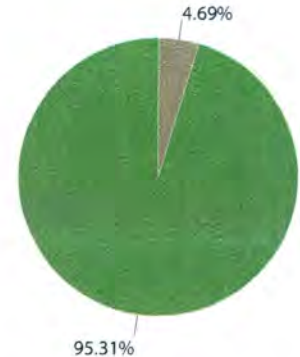
Laura Fairgrieve (519) 660-3215
Michael Willemse (519) 660-3268

CANADIAN Account Overview

Currency: CANADIAN DOLLAR

Asset Class Summary

	Feb. 27, 2015 Market Value	% of Total Assets
 Cash Equivalent	668,925	95.31
 Fixed Income	32,863	4.69
Total Value of Account	\$701,788	100.00
Total Value on Last Statement, December 31, 2014	\$699,192	



JTA9369415-0037277-05923-0002-0001-00-

Details of Your Account Holdings

Type	Security Description	Quantity	Average Cost	Adjusted Book Value	Market Price	Market Value
Cash Equivalent						
CASH	BNS INVESTMENT SAVINGS ACCOUNT SERIES E (1325)	66,892.543	10.000	668,925	10.000	668,925
Total Cash Equivalent						\$668,925
Fixed Income						
CASH	CPN PROVINCE OF NOVA SCOTIA BOOK ENTRY ONLY DUE 12/01/2021	33,000	54.536	17,997	89.109	29,406
CASH	MANULIFE STRATEGIC INCOME FUND (559)	268.132	10.465	2,806	12.894	3,457
Total Fixed Income						\$32,863
Total Account Holdings				\$689,728	\$701,788	

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(-)
Opening Cash Balance						
\$0.00						
Feb. 02, 2015	CASH	DIVIDEND	BNS INVESTMENT SAVINGS ACCOUNT SERIES E (1325) REINVEST 01/30/15 @ \$10.0000 PLUS FRACTIONS OF 0.970 BOOK VALUE \$929.70	92		
Feb. 02, 2015	CASH	DIVIDEND	MANULIFE STRATEGIC INCOME FUND (559) REINVEST 01/30/15 @ \$12.9756 PLUS FRACTIONS OF 0.152 BOOK VALUE \$14.95	1		
Closing Cash Balance						\$0.00

Summary

Income Summary

	This Period	Year-to-Date
Total Income	\$0	\$0



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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 to <http://www.scotiabank.com/ca/common/pdf/scotiacleod/TandC.pdf> or speak to your Wealth Advisor.

Statement Notes

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

Relationship with TMX Group Limited

Scotia Capital Inc. (or an affiliate thereof) owns or controls an equity interest in TMX Group Limited ("TMX") (and has a nominee director serving on the board thereof). As such, Scotia Capital Inc. may be considered to have an economic interest in the listing of securities on an exchange owned or operated by TMX, including the Toronto Stock Exchange, the TSX Venture Exchange and the Alpha Exchange. No person or company is required to obtain products or services from TMX or its affiliates as a condition of Scotia Capital Inc. supplying or continuing to supply a product or service.

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. Please note that only the asset classes of securities you hold in your account will be displayed on your statement. 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 RRIIF 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.

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.

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

Client accounts are protected by the Canadian Investor Protection Fund within specified limits. Further information describing the nature and limits of coverage is available from ScotiaMcLeod upon request.

Other notes:

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: ScotiaMcLeod Compliance Department, 40 King Street West, Box 4085, Station 'A', Scotia Plaza, Toronto, Ontario, M5W 2X6 or you will be precluded from asserting that errors or omissions have occurred.

Code Information

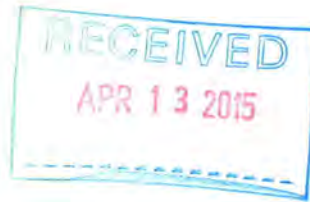
Code:	Nonvot	Resvot	Subvot
Definition:	Non-voting	Restricted Voting	Subordinate voting

For the period ending **March 31, 2015**
 Date of last statement: December 31, 2014
 Primary account: 440-17189

03927



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



Your Investment Advisor:
 JONATHAN BATCH # 3

Phone: 519-646-3044
Jonathan Batch 519-646-3044
Assistant:
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Suite 1900
One London Place
255 Queens Avenue
London, ON N6A 5R8
Branch Manager:
DAVID HAAK
Phone: (519) 672-8560



Account overview

Canadian dollar account	Market value
440-17189-13 Cash 17189	1,364,897.06
This month	1,364,897.06
Last statement	1,364,238.27
Grand total in Cdn\$	1,364,897.06
This month	1,364,897.06
Last statement	1,364,238.27

You can access your up-to-date account information online through BMO Nesbitt Burns Gateway at:

<http://gateway.bmonesbittburns.com>
 If you have not yet registered for Gateway access, please contact your Investment Advisor.

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Bulletin board

The following security in your Cash account 440-17189 matures in the near future. Your Investment Advisor has investment alternatives.

BANK OF MONTREAL GIC
 30 DAY CASHABLE ANNUAL
 DUE 05/06/2015 1.150%

The following security in your Cash account 440-17189 matures in the near future. Your Investment Advisor has investment alternatives.

BANK OF MONTREAL MORTGAGE GIC
 30 DAY CASHABLE ANNUAL
 DUE 05/06/2015 1.150%

The following security in your Cash account 440-17189 matures in the near future. Your Investment Advisor has investment alternatives.

BMO TRUST GIC
 30 DAY CASHABLE ANNUAL
 DUE 05/06/2015 1.150%

The following security in your Cash account 440-17189

matures in the near future. Your Investment Advisor has investment alternatives.

CPN ONTARIO HYDRO GLOBAL
 DUE 04/15/2015

Convert to eStatements.

Stay organized, save time and eliminate clutter by opting to receive your monthly statements electronically. Your eStatements are also accessible online for up to seven years after the statement was originally printed. To turn off your paper statements, log on to <https://gateway.bmonesbittburns.com>.

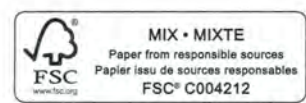
Using borrowed money to finance the purchase of securities involves greater risk than using cash resources only.

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.

The US/CDN conversion rate is: 1.2666, as of March 31st.

F84000-ROLL (Jan. 2013)

Member-Canadian Investor Protection Fund
 Membre-Fonds canadien de protection des épargnants



Canadian dollar account

Summary of your investments

	Cash 17189 account Market Value (CDN currency)	% Invested by Asset Class
Cash & short-term investments		93%
Cash	0.04	
Long Positions	1,264,897.02	
Fixed income & related securities		7%
Long Positions	100,000.00	
Total value of your investments	1,364,897.06	100%

Details of your investments

Cash & short-term investments

Account type	Description	Quantity	Average Cost	Price	Market value (CDN currency)	Custody*/ Segregated
Cash 17189	Cash balance as of March 31				0.04	
Cash 17189	CPN ONTARIO HYDRO GLOBAL DUE 04/15/2015 (See Bulletin board)	239,647	83.456	99.971	239,577.02	239,647
Cash 17189	BANK OF MONTREAL GIC 30 DAY CASHABLE ANNUAL DUE 05/06/2015 1.150% (See Bulletin board)	240,000	100.000	100.000	240,000.00	240,000
Cash 17189	BANK OF MONTREAL MORTGAGE GIC 30 DAY CASHABLE ANNUAL DUE 05/06/2015 1.150% (See Bulletin board)	200,000	100.000	100.000	200,000.00	200,000
Cash 17189	BMO TRUST GIC 30 DAY CASHABLE ANNUAL DUE 05/06/2015 1.150% (See Bulletin board)	240,000	100.000	100.000	240,000.00	240,000
Cash 17189	BANK OF MONTREAL GIC 30 DAY CASHABLE ANNUAL DUE 06/17/2015 1.150%	223,470	100.000	100.000	223,470.00	223,470
Cash 17189	BANK OF MONTREAL MORTGAGE GIC 30 DAY CASHABLE ANNUAL DUE 10/01/2015 1.150%	121,850	100.000	100.000	121,850.00	121,850
Total market value of your cash & short-term investments					1,264,897.06	

Details of your investments continued on next page

For the period ending **March 31, 2015**
 Primary account: 440-17189

Details of your investments continued

Fixed income & related securities

Fixed income

Account type	Description	Quantity	Average Cost	Price	Market value (CDN currency)	Custody* / Segregated
Cash 17189	EQUITABLE TRUST GIC ANNUAL DUE 09/07/2016 2.400%	100,000	100.000	100.000	100,000.00	100,000
Total market value of your fixed income					100,000.00	
Total market value of your fixed income & related securities					100,000.00	



Total market value of your investments **1,364,897.06**

JTAB429476-0015707-03927-0002-0002-00-

F84000-HOLL (Jan. 2013)

Other important information

About this statement

Please review your report carefully and let us know within 45 days if any item(s) on this report is incorrect. You can contact your Investment Advisor or the BMO Nesbitt Burns Client Information Centre at 416 594-5920 or toll free at 1 888 769-4444.

We may change the amounts on this report if we have omitted an item or if any numbers are incorrect.

Please let your Investment Advisor or Branch Manager know if your investment objectives or your financial situation has changed. This will help us to ensure that you are on track to meet your investment objectives.

While every reasonable effort is made to provide the information set out in this statement, BMO Nesbitt Burns makes no guarantee for the accuracy of this information, including the average cost on individual securities, and BMO Nesbitt Burns is not liable for any errors or omissions in this information. Further, the average cost value provided to you in this statement may have been adjusted to reflect information provided to us by third parties or you. BMO Nesbitt Burns is required to disclose to Canada Revenue Agency (CRA) the disposition transactions that you make. However, the Income Tax Act requires you to calculate and report the actual capital gain or loss amounts which may require further adjustments to the cost base of the securities based on the transaction information from prior years. You may wish to retain this statement and seek professional tax advice in this regard.

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.

A copy of our most recent statement of our financial condition and a list of directors and senior officers are available at your request. Clients in British Columbia are entitled to certain information about BMO Nesbitt Burns, including information about commission and fees we charge, and about 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 at http://www.bmo.com/nesbittburns/about/nb/bmonb/regulatory_documents/conflicts_of_interest.

Prices 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 their accuracy. Please call your Investment Advisor for the most current prices.

Registered accounts

The trustee for registered accounts is BMO Trust Company.

Investor protection

For non-registered and registered plan accounts, the Canadian Investor Protection Fund protects cash and securities held with BMO Nesbitt Burns Inc. within specified limits.

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 U.S. dollar bank account with Bank of Montreal are not insurable under the Act and are not insured by the Canadian Investor Protection Fund. Your securities are protected under the Canadian Investor Protection Fund.

Brochures describing the types and limits of coverage are available at your request.

Nominee accounts

A nominee account is one in which an investment is held in trust for an individual by a corporation or entity other than the individual. A segregated fund policy held within a self-directed plan is one example of investing in a nominee account. A segregated fund held in a nominee account may not offer creditor protection.

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.

Sales Tax Information

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

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A member of BMO Financial Group.

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To: Board of Directors
Date: April 13, 2015
From: Tracy Prince, Director of Finance
Subject: Administrative Office Accessibility Improvements

- ❖ St. Clair Region Conservation Authority is committed to treating all people in a way that allows them to maintain their dignity and independence. We believe in integration and equal opportunity. We are committed to meeting the needs of people with disabilities in a timely manner, and will do so by preventing and removing barriers to accessibility and meeting accessibility requirements under the Accessibility for Ontarians with Disabilities Act (AODA).
- ❖ As part of the Authority's Multi Year Plan to meet the requirements of AODA, the Authority has completed the following
 - website has been updated to the appropriate format (WCAG 2.0, Level A)
 - staff training is completed annually as a refresher and training has been incorporated in new staff training
 - Board members were trained at the December 2014 meeting. New members will need to be trained before the end of 2015.
- ❖ At the end of December 2014 we were able to submit our application for the building permit after finding a local architect that was able to work with us to move this project forward.
- ❖ The architect completed the drawings and requests for quotes for the St. Clair Region Conservation Authority. Based on Board direction and the failed RFQ process last year we requested quotes from the 3 contracting firms that showed interest last year.
- ❖ The successful bidder was Graceview Enterprises who we have worked with in the past on the Clark Wright building expansion.
- ❖ The destruction of the interior of the boardroom, kitchen and bathrooms has been completed. Like any renovation project not without challenges, but we were able to correct a long time sewer issue.
- ❖ We have construction meetings every two weeks to address any required changes to the original contract and update on status. The next meeting is April 20, 2015. We expect the front entrance destruction will start that week. A further verbal update on status can be provided at the April 23rd meeting if requested.
- ❖ We expect that substantial completion will be the first week in June.

Staff Report

12.(vi)



To: Board of Directors
Date: April 14, 2015
From: Tracy Prince, Director of Finance
Subject: JCP Application - Update

The Conservation Authority submitted a pre-proposal to the Ministry of Training, Colleges and Universities for a Job Creation Partnership Program involving eight participants in December 2013. The application requests funding of \$60,066 for wages and \$19,013 for support.

Land Management Technicians (2): April 27 – September 25 (22 weeks)

Land Management Technician Crew Leader (1): April 27 – September 25 (22 weeks)

Land Management Technician, McKeough: April 27 – December 18 (34 weeks)

Aquatic Research Technician: April 7 – January 24 (42 weeks)

We are awaiting a decision from the Ministry.

**SCRCA Joint Health & Safety
Committee Meeting
Minutes- Approved December 4, 2014**

12. (vii)

Lower Board Room
205 Mill Pond Crest.
Strathroy, ON

Meeting called by:	JHSC Committee	Type of meeting:	Quarterly
Date:	Thursday, Dec. 4, 2014 (rescheduled from 26-Nov-14)	Time:	8:30 am
Facilitator:	Steve Clark		
Minutes:	Heather Long		
Attendees:	Kevan Baker, Steve Clark, Jeff Sharp, Don Skinner, Heather Long		

Minutes of Agenda Items

1. Approve September 25, 2014 meeting minutes

Motion: that "The Minutes of the September 25, 2014 meeting be approved as printed.

Moved/Seconded/Carried – Jeff/Kevan/Carried

2. Business arising from the minutes

2.1. Review of Action Items

Steve Clark:

- to finalize fire safety training for full time staff who did not attend training in August, 2013. (March 20, 2014; July 9, 2014; Sept. 25, 2014 item 2.1)

Discussion:

- completed with Strathroy Fire Department – October 15, 2014
- Staff who attended have been added to the Training Matrix

- to schedule McLean inspection (July 9, 2014 – item 3.2 & September 25, 2014 - item 2.1)

Discussion:

- completed with Steve Clark, Matt Caron & Kelly Johnson on October 10, 2014

- to email all staff re: nominations and election of JHSC member for 3 year period (September 25, 2014 - item 4.3)

Discussion:

- completed – Don Skinner nominated and appointed

Kevan Baker

- to communicate to management the need for a lifting policy (September 25, 2014 - item 2.1)

Discussion:

- will become part of our training program with staff and supervisors signing off

- to make Supervisors aware of proper lifting procedures and equipment that is available to assist with lifting heavy loads (September 25, 2014 - item 2.1)

Discussion:

- completed by Kevan

- to remind supervisors to ensure their staff are wearing the appropriate footwear for the jobs they are doing (September 25, 2014 - item 3.3)

Discussion:

- completed by Kevan

- to share staff concerns with Management re: air quality in the Strathroy Office (September 25, 2014 - item 4.8)

Discussion:

- air quality testing completed by Pinchin (see attached report or link) [..\..\Office Air Quality Report\97705 St. Clair Conservation 205 Mill Pond Cres Interim Mould Report November 7 2014.pdf](#)

- sections with mould in the Conservation Services office area have been removed – carpet and drywall will be replaced when upper renovations take place
- carbon dioxide levels are above normal

Action Item:

- **Kevan** to discuss carbon dioxide concerns with Management (What are normal building levels? What areas in the Strathroy office were tested? What can be done to increase the amount of fresh air that comes into the building?)
- to review SCRCA Accessibility Training to ensure we are covering all required areas (September 25, 2014 - item 4.9)

Discussion:

- required accessibility training for SCRCA Staff focuses on customer service
- staff training is done using video from:
<http://www.mcscs.gov.on.ca/en/mcscs/programs/accessibility/customerService/>

Jeff Sharp:

- to update the Initial Employee Safety Instruction training sheet to include lifting (September 25, 2014 - item 2.1)

Discussion:

- completed by Jeff (see #38 & #39 in Initial Employee Safety Instruction Form v3)

Action Item:

- **Heather** to update and archive old versions of Initial Employee Safety Instruction
- to forward draft SCRCA Driver's Manual to Brian (Management) to review / make changes / become policy (September 25, 2014 - item 2.1)

Discussion:

- has been reviewed by Brian
- to be included in Policy Manual

Action Item:

- **Jeff** to make requested changes and forward to Heather to have added to Vehicle Training - see attached or link [\\STCLAIR\Health and Safety\Health and Safety Training\Vehicle Training\SCRCA Vehicle Procedure v.2.docx](#)
- **All Staff** to read and complete test
- **Kevan** to plan safe driving training session for all staff
- to install signs at Clark Wright indicating water is not potable (September 25, 2014 - item 3.2)

Discussion:

- completed and posted

- to provide details of staff who completed chipper training for Training Matrix (September 25, 2014 - item 4.5)

Discussion:

- completed and entered into Training Matrix

Heather Long

- to load training files from McKeough into the Health & Safety Manual (September 25, 2014 - item 2.1)

Discussion:

- completed

- to format Health & Safety Manual with a footer and new numbering format as time allows (September 25, 2014 - item 2.1)

Discussion:

- currently in progress – Sara S. is assisting with this project

Action Item:

- **Heather** to continue working on this as time allows

- AED update (September 25, 2014 - item 4.6)

Discussion:

- our AED for LCH has arrived. Training has been scheduled for Melissa & Sharon.

Action Item:

- **Kevan** to schedule training with Jon (Lambton EMS) for Terry and Mark when they return in the spring and later in the spring for the summer staff at LCH
- **Heather** to thank Jon and indicate our interest in an AED unit for WWK if money becomes available through Heart & Stroke

Management:

- to investigate and give direction on replacement of CO detectors in the Strathroy office (September 25, 2014 - item 2.1)

Discussion:

- in progress

Action Item:

- **Kevan** to continue working on this

- to arrange vehicle circle check training with all staff (September 25, 2014 - item 2.1)

Discussion:

- completed at the October 15, 2014 full staff meeting. Staff who were not in attendance have been given training packages to review and complete.

Action Item:

- **Heather** to continue entering into Training Matrix as staff submit completed forms

- to arrange training on the use of Sign-in/Sign-out sheets (September 25, 2014 - item 2.1)

Discussion:

- completed at full staff meeting on October 15, 2014

- to arrange training for all staff on the use of the new Vehicle Inspection Log sheets (including the time log) (September 25, 2014 - item 2.1 & 4.2)

Discussion:

- completed at the October 15, 2014 full staff meeting. Staff who were not in attendance have been given training packages to review and complete.

Action Item:

- **Heather** to continue entering into Training Matrix as staff submit completed forms

- to remind staff of policy for snow days (September 25, 2014 - item 4.7) – staff should see <..\..\..\Admin\Docs\Policies\inclement weather.pdf>

Discussion:

- how will it be communicated to staff if the office is closed

Action Item:

- **Kevan** to remind all supervisors to review the Inclement Weather Policy with their staff
- **Supervisors** to discuss with their staff the best way to communicate to them if a staff is not able to come to work in the event of a weather issue

Conservation Services & Biology Departments:

- to purchase a portable dehumidifier for use at Clark Wright (September 25, 2014 - item 3.1)

Discussion:

- mould issue has been addressed by running the heater in the new area
- mould area has been sprayed and mould is no longer evident
- odour in original area has decreased by turning the heat on and leaving it on

3. Area Reports/Workplace Inspections

3.1. Watershed Services (Steve C.)

Discussion:

- review & update of ice monitoring policy is needed

Action Item:

- **Watershed Services** will update and give to Heather to add to Health & Safety Manual

3.2. Workplace Inspections (Steve C.)

Discussion:

- completed at McLean (October 10), AWC (October 10)

Action Item:

- recommendations have been shared with respective supervisors to address

- **Steve C.** to arrange final inspection for 2014 – for Strathroy office (should include Brian, Rick & Tracy if possible)
- 3.3. General CAs (Kevan/Don)
Discussion:
 - new staffroom at WWK
- 3.4. Other Departments
Discussion:
 - one Supervisor Safety Review completed with Education Staff at LCH (documented)

4. New Business

4.1. Review of Incident/Injury Investigation Reports since our Sept. 25, 2014 meeting (**Jeff**)

Discussion:

- 3 reports – no lost time – have been reviewed, scanned and filed
- 1 report pending – poison ivy – staff will be asked to complete form
- more time efficient circulation of forms is necessary

Action Item:

- **Kevan** will ask Brian to request that the outstanding Incident/Injury Investigation Report Form related to poison ivy be completed
- **Kevan** will discuss with supervisors the need to circulate, sign and return incident forms

4.2. Establish Goals and Objectives for 2015 (**Steve & Kevan**)

Discussion:

- see Section 5 below

4.3. Review operational roles for 2015 for JHSC members (**Steve C.**)

Discussion:

- Steve C – workplace inspections (mentoring Jeff)
- Jeff – workplace inspections (in training)
- Chair/Co-chair – Kevan and Jeff

Action Item:

- **Steve & Jeff** to develop Inspection Checklist for 2015
- **Heather** to print for posting on Health & Safety bulletin boards

4.4. Level 1 Certification Training for Don Skinner

Discussion:

- **Don** has contacted a trainer and is waiting for 2015 training dates

Action Item:

- **Don** to complete training

5. Goals and Objectives in 2015

- 5.1. To regularly review MOL website to educate ourselves and learn from documented investigations and fines (ongoing)
- 5.2. To review safety manual and make changes as necessary (ongoing)
- 5.3. To appoint a worker rep. in October, 2015 for a 3 year term (to replace Steve Clark)
- 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 incorporate the drivers' safety training program into our orientation of all staff (in process)
- 5.9. To send occasional Health & Safety Bulletins to all staff (2 x heat alerts from Lambton Public Health forwarded to all staff on August 25th & Sept. 5; MTO – Centre Line Bulletin posted on JHSC Bulletin Boards in November, 2014; fire risk with 9 V batteries – November, 2014).
- 5.10. Recommend a review of term of appointment for Management Rep. to JHSC

6. Future 2015 meeting dates:
 Wednesday, March 11– Kevan to chair Wednesday, June 10 – Jeff to chair
 Wednesday, September 16 – Kevan to chair Wednesday, November 25 – Kevan to chair
Action Item:
 - **Heather** to prepare schedule for posting on H & S Boards

7. Adjournment – 10:30 am
Motion: that "The meeting be adjourned." **Moved/Carried – Jeff/Carried**

Misc. Information

Contacts:	Worker Co-chair/Inspector:	Steve Clark	sclark@scrca.on.ca
	Management Co-chair:	Kevan Baker	kbaker@scrca.on.ca
	Worker Reps.:	Steve Clark	sclark@scrca.on.ca
		Jeff Sharp	<u>jsharp@scrca.on.ca</u>
	Don Skinner	dskinner@scrca.on.ca	
	Committee Secretary:	Heather Long	hlong@scrca.on.ca

Stephen Clark
 Signature of Co-chair

MAR 23/2015
 Date

Kevan Baker
 Signature of Co-chair

March 23/15
 Date

Staff Report

13.(i)



To: Board of Directors
Date: April 14, 2015
From: Rick Battson
Subject: SCRCA Members' Tour

Staff is proposing a Conservation Authority Tour on Thursday, June 25, 8:30 – 1:00. The bus will leave and return to the Warwick Conservation Area. We will have lunch followed by the Board meeting. This year, we will be focusing on projects in the northern portion of our watershed.

Highlights of Tour

- Warwick Conservation Area
- Healthy Lake Huron - Forest Lagoon Naturalization Project
- Ipperwash and Kettle and Stony Point First Nation
- Lambton and Area Water Supply System Shoreline Project



Staff Report

13.(ii)



To: Board of Directors
Date: April 14, 2015
From: Sharon Nethercott, Melissa Gill
Subject: Conservation Education Progress Report

Winter Programing

Thanks to this year's snowy wonderland, many primary classes booked into the Nature in Winter Program. We almost doubled the number of students visiting Henderson Conservation Area this winter with numbers being the highest since 2002. Some lucky students even hand-fed Black-capped Chickadees. A friendly Downy Woodpecker was attracted to adult hands!

A list of our in-school sponsored programs follows:

- St. Clair River Bottom Critters: Grades K-9
- Go With The Flow (groundwater) Grades K-10
- River Rap: Grades 4-10
- Aquatic Species At Risk: Grades 4-10
- Spring Water Awareness Program: Grades K-6
- Alternative Energy Solutions Grades 1-12

Program Development & Expansion

Go with the Flow:

We had a very successful winter for the expanded Go with the Flow program. The new grades being offered (Kindergarten-Gr 3) were very popular with teachers and students; and allowed SCRCA to double the number of students participating in the program! So far in the in 2014-2015 season over 1800 students have benefitted from this program, learning about the importance of water & factors that can affect water quality.

Alternative Energy Solutions:

The demand was so high for this program, that the month of April has been fully booked. Over 1000 students (Gr 1-12) are expected to have participated by the end of April. Mini wind-turbines and solar car models help to make this program a fun, hands-on success!

Introduction to Entomology:

Using insects as a guide, secondary students explore a wide range of topics including; classification, insects as bio-indicators, human impacts on ecosystems, climate change, and restoration and rehabilitation techniques. Teacher requests for this program in spring 2015 have already begun. We expect this program to become an important program for the Gr 9-12 students in our watershed.

Special Events:

Maple Syrup Festival

Following a delayed start to the sap flow, approximately 800 people were welcomed to the Sugar Bush at A.W. Campbell Conservation Area on March 21st and 22nd. Visitors viewed historical demonstrations of First Nations, Pioneer and Modern methods of collecting sap and turning it into liquid gold. The Alvinston Firefighters prepared pancake and sausage meals for hungry visitors



Sydenham River Canoe Race

Mark your calendars for this year's Canoe Race: Sunday April 19, 2015. We look forward to another great turn out for this Conservation Education Fund Raiser! In an attempt to reduce the number of competitors in the Recreation Class, it has been divided into Competitive and Lazy River Classes. Lesser used classes have been eliminated. Check our website for more details.

Art Walk and Fun Fest:

SCRCA Staff will be participating in Art Walk on June 6, 7 and Kids Fun Fest on Saturday June 13th. Manned booths will highlight some of the SCRCA's activities in our watershed.

Community Partnership

LWI Young Naturalist Groups: Staff continue to run outdoor meetings for both the Young Naturalist Group (ages 7-11) and the Junior Conservationist Group (ages 12 +). Some recent meetings have included; skiing & snowshoeing, fire building, introduction to birdwatching & workdays at Bluewater Centre for Raptor Rehabilitation.

Return the Landscape: One staff person continues to sit on the Return the Landscape Committee. This group aims to rescue native flora from development sites and replant them within native landscapes within Lambton County.

Sarnia Lambton Arbor Week committee: Education staff are helping to coordinate 2 public tree plantings in the City of Sarnia. The Committee continues to host an Arbor Week Contest for area students. Each student in 3 winning classrooms will receive a Sugar Maple sapling to plant at home.