

NOTICE TO

CLOCA BOARD OF DIRECTORS

Please find enclosed the **agenda** and supporting documents for the **CLOCA Board of Directors Meeting** on **Tuesday, February 11, 2025, at 5:00 p.m.** This meeting will be a **Virtual Teams meeting**. Members can join virtual through TEAMS.

The list below outlines upcoming meetings and events for your information.

UPCOMING MEETINGS & EVENTS

DATE	TIME	EVENT	LOCATION
*Tuesday, February 11/25	5:00 p.m.	CLOCA Board of Directors Meeting	Virtual Meeting
Friday, February 14/25	6:00 p.m. to 8:00 p.m.	Family Evening Snowshoe Hike	Russ Powell Nature Centre 7274 Holt Road, Enniskillen
Friday, February 14/25	8:30 p.m. to 10:30 p.m.	Couples Evening Snowshoe Hike	Russ Powell Nature Centre 7274 Holt Road, Enniskillen
Thursday, February 20/25	11:00 a.m. to 1:00 p.m.	Kawartha OMSPA Local First Tapping (Invite only)	Purple Woods Conservation Area 38 Coates Road East, Oshawa
March 7-9/25 March 12-16/25 March 22-23/25 March 29-30/25	9:30 a.m. to Noon or Noon to 2:30 p.m.	Annual Maple Syrup Festival Purchase tickets online: cloca.com/maple-syrup-festival	Purple Woods Conservation Area 38 Coates Road East, Oshawa
Tuesday, March 18/25	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Friday, April 4/25	7:30 p.m. to 9:00 p.m.	Sugar Bush Lantern Hike	Purple Woods Conservation Area 38 Coates Road East, Oshawa
Saturday, April 12/25	TBD	CLOCA 50 th Maple Syrup Festival Event	Purple Woods Conservation Area 38 Coates Road East, Oshawa
Tuesday, April 15/25	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Saturday, May 10/25	1:00 p.m. to 3:00 p.m.	Mother's Day Wildflower Hike and Tea	Purple Woods Conservation Area 38 Coates Road East, Oshawa
*Tuesday, May 13/25	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, June 17/25	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Friday, June 20/25	9:00 p.m. to 10:40 p.m.	Summer Solstice/Firefly Hike	Purple Woods Conservation Area 38 Coates Road East, Oshawa
Tuesday, July 15/25	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, September 16/25	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, October 21/25	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, November 18/25	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting
Tuesday, December 16/25	5:00 p.m.	CLOCA Board of Directors Meeting	Hybrid Meeting

***Prior Tuesday meeting due to Monday being a statutory holiday**

LATEST NEWS

Check Out our website! www.cloca.com Discover your local Conservation Area.
"Healthy Watersheds for Today and Tomorrow"

CENTRAL LAKE ONTARIO CONSERVATION AUTHORITY
A G E N D A
AUTHORITY MEETING

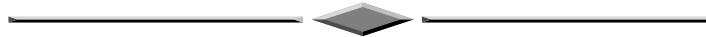
Tuesday, February 11, 2025 - 5:00 P.M.

MEETING LOCATION: VIRTUAL THROUGH TEAMS (ACCESS DETAILS TO BE PROVIDED)

Authority Bob Chapman, Chair
Members: Rhonda Mulcahy, Vice Chair
Marilyn Crawford
Sami Elhajjeh
Bruce Garrod
Ron Hooper
Rick Kerr
Tito-Dante Marimpietri
Ian McDougall
John Neal
David Pickles
Elizabeth Roy
Maleeha Shahid
Corinna Traill
Steve Yamada

Authority C. Darling, Chief Administrative Officer
Staff: B. Boardman, Executive/Accounting Administrator
R. Catulli, Director, Corporate Services
J. Davidson, Director, Watershed Planning & Natural Heritage
L. Hastings, Communications Specialist
D. Hipple, Director, Engineering
D. Hope, Director, Land Operations & Education
C. Jones, Director, Planning & Regulation
L.Vaja, Executive Assistant/Health & Safety Administrator/ Recording Secretary
R. Wilmot, Information Management & Technology Manager

Others:



AGENDA ITEM:

SUPPORTING DOCUMENTS

1. CHAIR'S WELCOME

We acknowledge that our watershed is located on the Lands of the Great Mississauga Nations who are signatories to the Williams Treaties. These communities include the Mississaugas of Scugog Island, First Nations of Alderville, Beausoleil, Curve Lake, Hiawatha, Chippewas of Georgina Island and Rama. We believe it is important that we learn, and work to reconcile the impact we, and those before us, have had on the original inhabitants. On behalf of CLOCA, we want to thank them for sharing this land and all its resources. At CLOCA, our goal is to respectfully share in the responsibility of the stewardship and protection of these ancestral lands and waters and continue towards truth and reconciliation as we move forward as friends and allies with all First Nations, Inuit, and Metis people.

2. DECLARATIONS of interest by members on any matters herein contained.

3. ADOPTION OF MINUTES of January 21, 2025

pg. 1

4. PRESENTATIONS – None

5. CORRESPONDENCE – None

6. DIRECTOR, PLANNING & REGULATION

(1) Staff Report #5921-25

pg. 9

Re: Permits Issued for Development, Interference with Wetlands, and Alteration to Shorelines and Watercourses – January 1 to 31, 2025

Cont'd

7. DIRECTOR, WATERSHED PLANNING & NATURAL HERITAGE

(1) Staff Report #5922-25

pg. 11

Re: Lynde Shores Conservation Area Restoration and Resilience Project – Awarding Climate Resilient Protective Wetland Features Year 1 Contract

8. DIRECTOR, ENGINEERING – *None*

9. DIRECTOR, LAND OPERATIONS & EDUCATION – *None*

10. DIRECTOR, CORPORATE SERVICES – *None*

11. CHIEF ADMINISTRATIVE OFFICER – *None*

12. CONFIDENTIAL MATTERS

(1) Staff Report #5923-25

pg. 15

Re: Personnel Matter

13. NEW AND UNFINISHED BUSINESS – *None*

14. ADJOURNMENT

A G E N D A

SUPPORTING DOCUMENTS

MEETING OF: Authority

DATE: Tuesday, February 11, 2025

TIME: 5:00 p.m.

LOCATION: Virtual (TEAMS)

CENTRAL LAKE ONTARIO CONSERVATION AUTHORITY

MINUTES NO. 1

AUTHORITY ANNUAL MEETING

Tuesday, January 21, 2025 - 5:00 P.M.

HYBRID MEETING LOCATION: VIRTUAL THROUGH TEAMS (ACCES DETAILS PROVIDED)
OR 100 WHITING AVENUE, OSHAWA, AUTHORITY'S ADMINISTRATIVE OFFICE, BOARDROOM

Authority Members: Elizabeth Roy, Chair
Bob Chapman, Vice Chair
Marilyn Crawford
Sami Elhajjeh
Ron Hooper
Rick Kerr
Tito-Dante Marimpietri
Rhonda Mulcahy
John Neal
David Pickles
Maleeha Shahid
Corinna Traill
Steve Yamada

Authority Staff: C. Darling, Chief Administrative Officer
B. Boardman, Executive/Accounting Administrator
R. Catulli, Director, Corporate Services
J. Davidson, Director, Watershed Planning & Natural Heritage
L. Hastings, Communications Specialist
D. Hipple, Director, Engineering
D. Hope, Director, Land Operations & Education
C. Jones, Director, Planning & Regulation
L.Vaja, Executive Assistant/Health & Safety Administrator/ Recording Secretary
R. Wilmot, Information Management & Technology Manager

Absent: Bruce Garrod
Ian McDougall

Others: S. Provenzano, Guest
K. Jull, Gardiner Roberts LLP
A. Delle Cese, BDO Canada LLP

The Chair called the meeting to order at 5:00 p.m.

LAND ACKNOWLEDGEMENT STATEMENT

Chair Roy recited the Land Acknowledgement Statement.

D. Pickles joined virtually at 5:00 p.m.

DECLARATIONS of interest by members on any matters herein contained – *None*

C. Darling provided staff updates:

Congratulations to D. Hipple, CLOCAs new Director of Engineering.

Congratulations to D. Hope, CLOCAs new Director of Land Operations and Education.

ADOPTION OF MINUTES (Agenda pg. 1)

Res. #1 Moved by B. Chapman
Seconded by R. Kerr

THAT the Authority minutes of November 19, 2024, be adopted as circulated.
CARRIED

Res. #2 Moved by B. Chapman
Seconded by R. Kerr

THAT the Authority minutes of November 25, 2024, be adopted as circulated.
CARRIED

Cont'd

CHAIR’S REMARKS

E. Roy thanked the Board and congratulated Staff on CLOCA’s 2024 Highlights and Accomplishments. (Attached as H-1 to H-2).

PRESENTATIONS – None

ELECTION OF OFFICERS

The 2024 elected officers vacated their positions.

C. Darling, Chief Administrative Officer, officiated the 2025 election of Chair.

Res. #3 Moved by R. Kerr
 Seconded by R. Mulcahy

THAT in the event of a vote by ballot, Jamie Davidson and Dan Hipple be designated as scrutineers; and further that all election ballots be destroyed.

CARRIED

AMENDMENT Moved by R. Kerr
 Seconded by R. Mulcahy

THAT in the event of a vote by ballot, Jamie Davidson and Chris Jones be designated as scrutineers; and further that all election ballots be destroyed.

Res. #3 CARRIED AS AMENDED

Authority Chair

C. Darling made three calls for nominations, noting no seconder was required.

Nominations: E. Roy nominated B. Chapman

Res. #4 Moved by R. Kerr
 Seconded by E. Roy

THAT nominations for the position of Authority Chair be closed.

CARRIED

B. Chapman “accepts”.

B. Chapman was declared Authority Chair for 2025 and conducted the remainder of the meeting.

C. Darling thanked E. Roy for all the ongoing support, guidance, and leadership through out the term.

Authority Vice-Chair

B. Chapman made three calls for nominations, noting no seconder was required.

Nominations: E. Roy nominated Rhonda Mulcahy

Res. #5 Moved by R. Kerr
 Seconded by R. Hooper

THAT nominations for the position of Authority Vice-Chair be closed.

CARRIED

R. Mulcahy “accepts”.

R. Mulcahy was declared Authority Vice Chair for 2025.

SIGNING OFFICERS

Res. #6 Moved by M. Crawford
Seconded by S. Yamada

THAT the Signing Officers of the Authority be any two of the following: The Chair, Vice-Chair, Chief Administrative Officer/Secretary-Treasurer, and Director of Corporate Services.

CARRIED

SOLICITORS

Central Lake Ontario Conservation Authority utilizes legal services from the following:

- Borden Ladner Gervais – property tax and related matters
- Boychyn & Boychyn – real estate and property transactions
- Fogler, Rubinoff – land related matters – planning and regulation matters
- Gardiner, Roberts – land related matters – planning and regulation matters
- Hicks, Morley – employment and labour related matters
- Littler Canada - legal matters for personnel/human resources
- Regional Municipality of Durham Prosecution Service – regulation matters.

Res. #7 Moved by M. Shahid
Seconded by R. Mulcahy

THAT Borden Ladner Gervais, Toronto; Boychyn & Boychyn, Oshawa; Fogler Rubinoff, Toronto; Gardiner, Roberts, Toronto; Hicks Morley, Toronto; Littler Canada and Regional Municipality of Durham Prosecution Service be appointed Solicitors for the Authority, as required.

CARRIED

BORROWING BY-LAW

Res. #8 Moved by R. Hooper
Seconded by D. Pickles

THAT the Central Lake Ontario Conservation Authority's signing officers are hereby authorized on behalf of the Central Lake Ontario Conservation Authority to borrow from time to time, from the banking institution under agreement with the Central Lake Ontario Conservation Authority, up to \$1,000,000 to meet current expenditures until Provincial grants and/or Regional funding are received, with interest as may be determined by agreement between the bank and the Central Lake Ontario Conservation Authority.

CARRIED

CONSERVATION ONTARIO COUNCIL

Res. #9 Moved by R. Kerr
Seconded by E. Elhajjeh

THAT the Chair be appointed as the Authority's representative on the Conservation Ontario Council. Alternative designates are the Vice-Chair and the Chief Administrative Officer.

CARRIED

ENFORCEMENT OFFICERS

- (i) Conservation Areas Regulation #101/90

Res. #10 Moved by E. Roy
Seconded by D. Pickles

THAT in accordance with Section 30.1 of the Conservation Authorities Act, the following staff be appointed as Enforcement Officers related to Development Activities, Watercourses and Wetlands and the Provincial Offences Act: L. Bulford, E. Cameron, D. Cheng, D. Hipple, C. Jones, M. Khan, S. Nejad and S. Sivarajah; and

THAT in accordance with Section 30.1 of the Conservation Authorities Act the following staff be appointed as Enforcement Officers under the Rules of Conduct in Conservation Areas O. Reg. 688/21 and the Provincial Offences Act T. Backus, A. Cooper, B. De Waal, D. Hope, J. Maas and M. Murphy
CARRIED

CORRESPONDENCE

- (1) Letter from the Ministry of Natural Resources & Forestry (Agenda pg. 17)
Re: Extension of Minister' Direction for Conservation Authorities Regarding Fee Changes Associated with Planning, Development and Permitting Fees

Res. #11 Moved by M. Shahid
Seconded by R. Mulcahy

THAT the above correspondence item be received for information.
CARRIED

- (2) Correspondence from Conservation Ontario (Agenda pg. 26)
Re: Conservation Ontario Council Meeting Minutes – June 4, 2024

Res. #12 Moved by M. Shahid
Seconded by R. Mulcahy

THAT the above correspondence item be received for information.
CARRIED

DIRECTOR, PLANNING & REGULATION

- (1) Staff Report #5913-25 (Agenda pg. 32)
Re: Permits Issued under Part VI of the Conservation Authorities Act for development activities, interference with watercourses and wetlands – November 1 to December 31, 2024

Res. #13 Moved by M. Crawford
Seconded by R. Hooper

THAT Staff Report #5913-25 be received for information.
CARRIED

- (2) Staff Report #5915-25 (Agenda pg. 34)
Re: Part VI Annual Report (Ontario Regulation 686/21)

Res. #14 Moved by M. Crawford
Seconded by R. Hooper

THAT Staff Report #5915-25 be received for information.
CARRIED

DIRECTOR, WATERSHED PLANNING & NATURAL HERITAGE - None

DIRECTOR, ENGINEERING – None

DIRECTOR, LAND OPERATIONS & EDUCATION - None

DIRECTOR, CORPORATE SERVICES

(1) Staff Report #5919-25 (Agenda pg. 36)
Re: BDO Canada Audit of Financial Statements for the Year Ended December 31, 2024

Res. #15 Moved by J. Neal
Seconded by R. Mulcahy

THAT Adam Delle Cese, BDO Canada LLP be advised that the Board of Directors is not aware of any matters related to increased risk, fraud, or errors on behalf of management processes.
CARRIED

CHIEF ADMINISTRATIVE OFFICER

(1) Staff Report #5914-25 (Agenda pg. 70)
Re: Common Memberships – Different Boards

Res. #16 Moved by M. Shahid
Seconded by R. Hooper

THAT the Chair, Vice Chair, and members of the Central Lake Ontario Conservation Authority for 2025 be the Chair, Vice Chair, and members of the Central Lake Ontario Conservation Fund for 2025 and the Chair, Vice Chair, and members of the Central Lake Ontario Source Protection Authority for 2025.
CARRIED

(2) Staff Report #5916-25 (Agenda pg. 71)
Re: Ministers Direction Extending Fees Freeze for Regulation and Planning Services

Res. #17 Moved by M. Shahid
Seconded by R. Hooper

THAT Staff Report #5916-25 be received for information.
CARRIED

(3) Staff Report #5920-25 (Agenda pg. H1)
Re: 2024 Annual Report & Strategic Plan Implementation

Res. #18 Moved by M. Shahid
Seconded by R. Hooper

THAT Staff Report #5920-25 be received for information.
CARRIED

CONFIDENTIAL MATTERS

(1) Staff Report #5917-25 (Confidential Agenda pg. 72)
Re: Property Matter

Res. #19 Moved by E. Roy
Seconded by M. Shahid
CARRIED

(2) Staff Report #5918-25 (Confidential Agenda pg. 76)
Re: Litigation

Res. #20 Moved by E. Roy
Seconded M. Shahid
CARRIED

NEW AND UNFINISHED BUSINESS

C. Darling announced that the board members would be receiving invitations for the Kawartha OMSPA Local First Tapping on February 20th, 2025 and for CLOCA's 50th Maple Syrup Festival Event, which is a ticketed event. Details will be shared accordingly.

ADJOURNMENT

Res. #21 Moved by R. Kerr
Seconded by R. Hooper

THAT the meeting adjourns.
CARRIED

The meeting adjourned at 5:20 p.m.

BOB CHAPMAN, CHAIR

CHRIS DARLING, CHIEF ADMINISTRATIVE OFFICER

2024 Highlights and Accomplishments

Central Lake Ontario Conservation Authority accomplished the following as part of our ongoing commitment to the goals of our Strategic Plan.

Strategic Plan Goal 1: Conserve, restore and enhance natural resources through integrated watershed management.

- We secured over \$300,000 of federal funding over the next three years so that we can continue with the restoration of Redside Dace and American Eel habitat in Lynde Creek.
- We continued to implement our monitoring program increasing our understanding of impacts from environmental stressors and guiding restoration and management efforts.
- We continue to make considerable progress in environmental restoration and stewardship across our watersheds such as tree planting, invasive species management, forest management planning, including development of a Restoration Tracking Tool.
- We launched the Lynde Shores Conservation Area Restoration and Resilience Project, partnering with Environment and Climate Change Canada and securing over \$2 million in funding from ECCC over the next four years.
- We removed a historical concrete instream fish barrier once a low-level, concrete tractor crossing located within the Cullen Central Park in Whitby, to reconnect upstream and downstream fish communities
- Our Oak Ridges Moraine Groundwater Program continued to improve our understanding of the groundwater resources in and around the Oak Ridges Moraine. Further advancements were made to the website, with important updates, ensuring online tools continued to support environmental monitoring efforts.
- In partnership with the Town of Whitby we initiated a Sustainable Neighbourhood Action Plan (SNAP) pilot project for a West Lynde neighbourhood.
- We developed a Watershed-based Resource Management Strategy and Conservation Area Strategy and Land Inventory as required by the *Conservation Authorities Act*.

Strategic Plan Goal 2: Support healthy communities and the protection of people and property from flooding and erosion.

- Issued over 200 permits for various development activities under Ontario Regulation 41/24, reviewed over 700 land use planning submissions from municipalities, consultants, and landowners; and hosted over 90 pre-application consultation meetings with development proponents, all towards the goal of protecting people and property from flooding and erosion.
- Implemented new provisions of Ontario Regulation 41/24 which streamlined permit approvals.
- We completed the Robinson and Tooley Creek Flood Mitigation Study, which included modelling updates, a spills analysis, an evaluation of flood mitigation alternatives, a proposed flood mitigation strategy and updated Floodplain Maps.

Strategic Plan Goal 3: Protection, management, and safety of conservation areas.

- We acquired five parcels of environmentally significant land: Four extending Long Sault Conservation Area and one in the Mount Carmel forest area.
- We implemented a Conservation Areas' Rodenticide Policy to ensure safe and responsible use of products such as rodenticides to minimize risks to human health and wildlife.
- We completed the Conservation Areas' sign replacements. This includes information kiosks, trail heads and trail markers—all now also AODA compliant.
- Interior and exterior improvements are nearing completion at the Russ Powell Nature Centre, including entrance improvements for drainage and traffic safety.

- Our Conservation Area Trail Stewards (CATS) program was chosen as the 2024 recipient of the Innovation Award at the Conservation Areas Workshop. The 'Innovation Bear Award' was awarded to CLOCA staff by the Conservation Area Workshop Committee signifying an agency and submission that *demonstrates the most leadership, excellence and impact in innovation*.
- We expanded our volunteer Conservation Area Trail Stewards (CATS) program to 89 volunteers, supporting our land management activities.


Strategic Plan Goal 4: Create a more knowledgeable and connected watershed community through engagement and education.

- We were chosen as the next recipient of the \$20,000 grant from Ministry of the Environment Conservation and Parks to work with school board leads and teachers to co-create an experiential Great Lakes Student Conference for secondary school students, to take place in April 2025.
- We hosted a full-day teacher tour in November, highlighting learning opportunities that can be accessed in their school communities and provided an opportunity to explore how the Great Lakes can anchor education curriculum. Fifty-seven teachers registered.
- CLOCA's annual Purple Woods Maple Syrup Festival welcomed approximately 7,400 people.
- The 25th annual Durham Children's Watershed Festival was held in September, with over 3,000 Grade 4 students attending.
- The Water Watch component of the SMART Watersheds program is fully launched with *Weather Watch* component of this project now active. Live data from CLOCA's weather stations, installed throughout CLOCA's watershed, is viewable on CLOCA's website.

Strategic Plan Goal 5: Demonstrate business excellence through effective customer service, engaged employees and innovation.

- Our commitment to engage Indigenous Nations, communities and peoples has been a collaborative journey and we continue to develop Guiding Principles and education of all Authority staff. Throughout 2024, staff participated in First Nations'-lead workshops, events and additional learning opportunities, as part of our commitment towards successful steps in collaboration.
- We developed a Record Retention Policy and Schedule that outlines the process for managing documents from creation to retention or disposal.
- We made significant progress on CLOCA's trail maps, with new maps completed for locations such as Bowmanville Westside Marshes, Crows' Pass, Stephen's Gulch, Heber Down, and Hampton Conservation Areas.

DATE: February 11, 2025
FILE: RPRG3974
S.R.: 5921-25
TO: Chair and Members, CLOCA Board of Directors
FROM: Chris Jones, Director, Planning and Regulation
SUBJECT: **Permits Issued under Part VI of the Conservation Authorities Act for development activities, interference with watercourses and wetlands – January 1 to 31, 2025**

APPROVED BY C.A.O. 

Attached are Development, Interference with Watercourse and/or Wetland applications made pursuant to Part VI of the Conservation Authorities Act and Ontario Regulation 41/24, as approved by staff and presented for the members' information.

RECOMMENDATION:

THAT Staff Report #5921-25 be received for information.

Attach.

PERMITS ISSUED UNDER PART VI OF THE CONSERVATION AUTHORITIES ACT, FROM JANUARY 1 TO 31 2025

Row	Municipality	Owner / Applicant	Street Lot Con	Permit No	Description
1	AJAX	PROPERTY OWNER / R.J. BURNSIDE & ASSOCIATES LTD.	537 KINGSTON ROAD EAST / LOT 03 / CON 01	A23-001-GHW	EXTENSION - DEVELOPMENT ACTIVITIES ASSOCIATED WITH RE: FINAL GRADING WORKS OF DEVELOPMENT SITE/ CONSTRUCT OF STORMWATER MANAGEMENT POND
2	AJAX	TOWN OF AJAX / R.J. BURNSIDE & ASSOCIATES LTD.	AUDLEY ROAD / LOT / CON	A23-002-GHAW	EXTENSION - DEVELOPMENT ACTIVITIES ASSOCIATED WITH THE FINAL GRADING WORKS OF AUDLEY ROAD EXTENSION WHICH INCLUDE A WATERCOURSE RELOCATION AND NEW WATERCOURSE CROSSING
3	AJAX	PROPERTY OWNER / R.J. BURNSIDE & ASSOCIATES LTD.	639 KINGSTON ROAD / LOT 02 / CON 01	A23-053-GBAW	EXTENSION - DEVELOPMENT ACTIVITIES ASSOCIATED WITH GRADING RELATED TO ROAD CONSTRUCTION, AS WELL AS CONSTRUCTION OF A NEW WATERCOURSE CROSSING AND STORMWATER MANAGEMENT OUTLET CHANNEL FROM ADJACENT LANDS TO THE WEST
4	AJAX	PARADIGM INTERIORS LTD	769 ROSSLAND ROAD EAST / LOT 01 / CON 02	A25-009-R	DEVELOPMENT ACTIVITIES ASSOCIATED WITH THE REPLACEMENT OF THE EXISTING GARAGE WITH 2ND FLOOR ACCESSORY DWELLING
5	CLARINGTON	XPLORE / LYNX PLANNING & ENGINEERING	TAUNTON ROAD - BOWMANVILLE AVENUE TO LIBERTY STREET WEST / LOT 11-14 / CON 04 & 05	C25-001-BGW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH DIRECTIONAL BORE TO INSTALL NEW CONDUIT
6	CLARINGTON	XPLORE / LYNX PLANNING & ENGINEERING	TAUNTON ROAD - GREEN ROAD TO BOWMANVILLE AVENUE / LOT 15-17 / CON 04 & 05	C25-003-BGW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH DIRECTIONAL BORE TO INSTALL NEW CONDUIT
7	CLARINGTON	XPLORE / LYNX PLANNING & ENGINEERING	TAUNTON ROAD - MTO R.O.W (EAST) TO GREEN ROAD / LOT 19 & 20 / CON 04 & 05	C25-004-BGW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH DIRECTIONAL BORE TO INSTALL NEW CONDUIT
8	CLARINGTON	XPLORE / LYNX PLANNING & ENGINEERING	TAUNTON ROAD - SOLINA ROAD TO MTO R.O.W (WEST) / LOT 23 & 24 / CON 03 & 04	C25-005-BGW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH DIRECTIONAL BORE TO INSTALL NEW CONDUIT
9	CLARINGTON	XPLORE / LYNX PLANNING & ENGINEERING	TAUNTON ROAD - COURTYCE ROAD TO SOLINA ROAD / LOT 25-29 / CON 04 & 05	C25-006-BGW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH DIRECTIONAL BORE TO INSTALL NEW CONDUIT
10	CLARINGTON	CAPREIT LIMITED PARTNERSHIP / PROPERTY OWNER	50 BLUFFS ROAD / LOT 01 / CON BF	C25-007-BS	DEVELOPMENT ACTIVITIES ASSOCIATED WITH REPLACING AN EXISTING SUNROOM WITH A SUNROOM AND BATHROOM
11	CLARINGTON	TELUS / TELECON DESIGN	TAUNTON ROAD AND BOWMANVILLE AVENUE / LOT 15 / CON 04 & 05	C25-008-ABFGW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH RELOCATION OF COMMUNICATION INFRASTRUCTURE VIA OPEN TRENCH
12	CLARINGTON	MUNICIPALITY OF CLARINGTON / TELECON DESIGN INC.	206 SIMPSON AVENUE / LOT 10 / CON 01	C25-016-AF	DEVELOPMENT ACTIVITIES ASSOCIATED WITH COMMUNICATIONS INFRASTRUCTURE
13	OSHAWA	TRANS-NORTHERN PIPELINES INC. / STANTEC CONSULTING	RIDGE VALLEY PARK (900 RIDGE VALLEY DRIVE) / LOT 04 / CON 03	O24-234-AFG	DEVELOPMENT ACTIVITIES ASSOCIATED WITH MINOR CHANNEL REALIGNMENT TO REINSTATE COVER TO EXPOSED PIPELINE
14	OSHAWA	PROPERTY OWNER	497 CHARRINGTON AVENUE / LOT 07 / CON 03	O25-002-FR	DEVELOPMENT ACTIVITIES ASSOCIATED WITH BASEMENT RENOVATIONS
15	OSHAWA	PROPERTY OWNER / D.G. BIDDLE & ASSOCIATES	4465 GRANDVIEW STREET NORTH / LOT 02 / CON 08	O25-010-G	DEVELOPMENT ACTIVITIES ASSOCIATED WITH DEMOLITION OF TWO BARN, THE REMOVAL OF THREE BURIED TRAILERS AND IMPORTATION OF FILL TO RESTORE PRE-EXISTING GRADES
16	OSHAWA	PROPERTY OWNER	475 ST LAWRENCE STREET / LOT 11 / CON 01	O25-012-BFGR	DEVELOPMENT ACTIVITIES ASSOCIATED WITH THE CONVERSION OF AN EXISTING GARAGE INTO ACCESSARY DWELLING UNIT
17	OSHAWA	DURHAM ONENET / PLANVIEW UTILITY SERVICES	BLOOR STREET WEST, WEST OF SIMCOE STREET SOUTH / LOT 11 / CON BF & 01	O25-013-ABFG	DEVELOPMENT ACTIVITIES ASSOCIATED WITH UNDERGROUND FIBRE OPTIC CABLE INSTALLATION
18	OSHAWA	DURHAM ONENET / VYTAL DIGITAL INFRASTRUCTURE	ROSSLAND ROAD EAST FROM HARMONY ROAD NORTH TO RITSON ROAD NORTH / LOT / CON	O25-015-ABFG	DEVELOPMENT ACTIVITIES ASSOCIATED WITH THE INSTALLATION OF NEW CONDUIT
19	SCUGOG	PROPERTY OWNER	70 CHALK LAKE ROAD / LOT 01 / CON 02	S25-014-BFHS	DEVELOPMENT ACTIVITIES TO PERMIT THE CONSTRUCTION OF A SINGLE DETACHED DWELLING
20	WHITBY	TOWN OF WHITBY / MOMENTUM EARTH SCIENCES LTD.	WAY STREET (BRIDGE) / LOT 24 / CON 06	W24-233-ABFG	DEVELOPMENT ACTIVITIES ASSOCIATED WITH STRUCTURAL REPAIRS AND BRIDGE FOOTING PROTECTION
21	WHITBY	REGIONAL MUNICIPALITY OF DURHAM / R.V. ANDERSON ASSOCIATES LIMITED	CORNER OF VICTORIA STREET EAST & THICKSON ROAD SOUTH / LOT 21 / CON BF	W24-235-ABFGW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH THE REHABILITATION OF AN EXISTING SANITARY SEWER
22	WHITBY	PROPERTY OWNER / DILLION CONSULTING LIMITED	HEBER DOWN CONSERVATION AUTHORITY / LOT 29 / CON 04 & 05	W25-011-BGW	DEVELOPMENT ACTIVITIES ASSOCIATED WITH REGULAR PREVENTATIVE MAINTENANCE ACTIVITIES

REPORT

CENTRAL LAKE ONTARIO CONSERVATION AUTHORITY


DATE: February 11, 2025

FILE: NWTS3

S.R.: 5922-25

TO: Chair and Members, CLOCA Board of Directors

FROM: Jamie Davidson, Director, Watershed Planning and Natural Heritage
Dan Moore, Senior Ecologist, Environmental Monitoring and Ecosystem Science

APPROVED BY C.A.O. 

SUBJECT: **Lynde Shores Conservation Area Restoration and Resilience Project – Awarding Climate Resilient Protective Wetland Features Year 1 Contract**

Purpose

CLOCA is moving forward with the second phase of the Lynde Shores Conservation Area Restoration and Resilience Project, which was recently introduced to the Board of Directors (SR#5891-24 and SR#5897-24). This phase, referred to as "Climate Resilient Protective Wetland Features," addresses critical environmental challenges affecting Great Lakes water quality and ecosystem health. The objectives of this phase include:

- Protecting Cranberry Marsh and Lynde Creek Marsh from increased erosion caused by climate change.
- Mitigating the impacts of Lake Ontario water level regulation on wetland functionality.
- Enhancing biodiversity and habitat quality to support a wide range of species.
- Improving overall water quality in the area.

The long-term erosion of the barrier beaches protecting Cranberry Marsh and Lynde Creek Marsh has been well-documented. CLOCA has recognized the serious threat this erosion poses to the ecological integrity of these wetlands and its potential impact on recreational and cultural values in the area. To address these concerns, CLOCA successfully secured funding to hire coastal engineering experts to develop a plan that mitigates these impacts and provides sustainable, nature-based solutions to protect these coastal wetland habitats.

As part of this effort, CLOCA issued a public Request for Quote (RFQ) on November 29, 2024, with a closing date of January 15, 2025. The purpose of the RFQ was to hire a contractor to complete foundational background work that will support the development of concept and design-level drawings in future project phases. The RFQ outlined the following requirements:

- Collaborate with the Technical Team to confirm overarching goals and objectives for the project.
- Conduct detailed bathymetric and topographic surveys.
- Perform a historical shoreline change analysis for the barrier beach and adjacent shorelines.
- Analyze offshore wave climates.
- Determine design water levels, incorporating climate change considerations.
- Execute high-resolution nearshore wave modeling to establish baseline wave and hydrodynamic conditions for design purposes.
-

The contract timeline for this phase is April 1, 2025, to March 31, 2026, with a budget of \$275,000 provided through federal funding. Future phases of the project, funded for 2026-2027 (\$321,500) and 2027-2028 (\$350,000), will build on the results of this foundational work.

CLOCA received proposals from three organizations. The submissions were evaluated based on a defined set of criteria and the results are as follows:

Proponent	Experience of Team Members	Project Understanding	Work Plan, schedule	Price	Total Evaluation Score
SJL Engineering	26	30	18	9 (\$243,132)	83
Baird	27	25	17	11 (\$188,780)	80
GHD	18	17	9	20 (\$95,763)	64

Based on these results, CLOCA staff recommends awarding the contract to SJL Engineering. The proposed contract amount is \$243,132 (excluding HST) with work set to commence on April 1, 2025.

Background

CLOCA has secured \$2,177,000 in funding from Environment and Climate Change Canada (ECCC) over the next four years through the Great Lakes Freshwater Ecosystem Initiative. This funding addresses significant environmental challenges impacting Great Lakes water quality and ecosystem health, in line with Canada’s commitments under the Great Lakes Water Quality Agreement. A key focus is on restoring and protecting critical coastal wetlands from the impacts of climate change. CLOCA leveraged data from long-term monitoring programs to develop plans for enhancing resilience in these areas and will now implement those plans with this funding. The Lynde Shores Conservation Area Restoration and Resilience Project was selected by ECCC due to CLOCA’s comprehensive background work, strong partnerships, and the ecological and community significance of the area.

With confirmation of this funding, CLOCA staff are preparing to implement projects under the Lynde Shores Conservation Area Restoration and Resilience Plan. The next project focuses on protecting wetland features from climate-change-induced impacts. Coastal wetlands along the Lake Ontario shoreline benefit from natural protective features that shield them from the intense wind and wave action of the lake. Within CLOCA’s jurisdiction, these protective features are typically barrier beaches—sandy formations created over thousands of years by the continuous erosion and movement of sand and sediment along Lake Ontario’s shore. This project specifically targets the barrier beach extending from Cranberry Marsh to Lynde Creek Marsh (Figure 1).

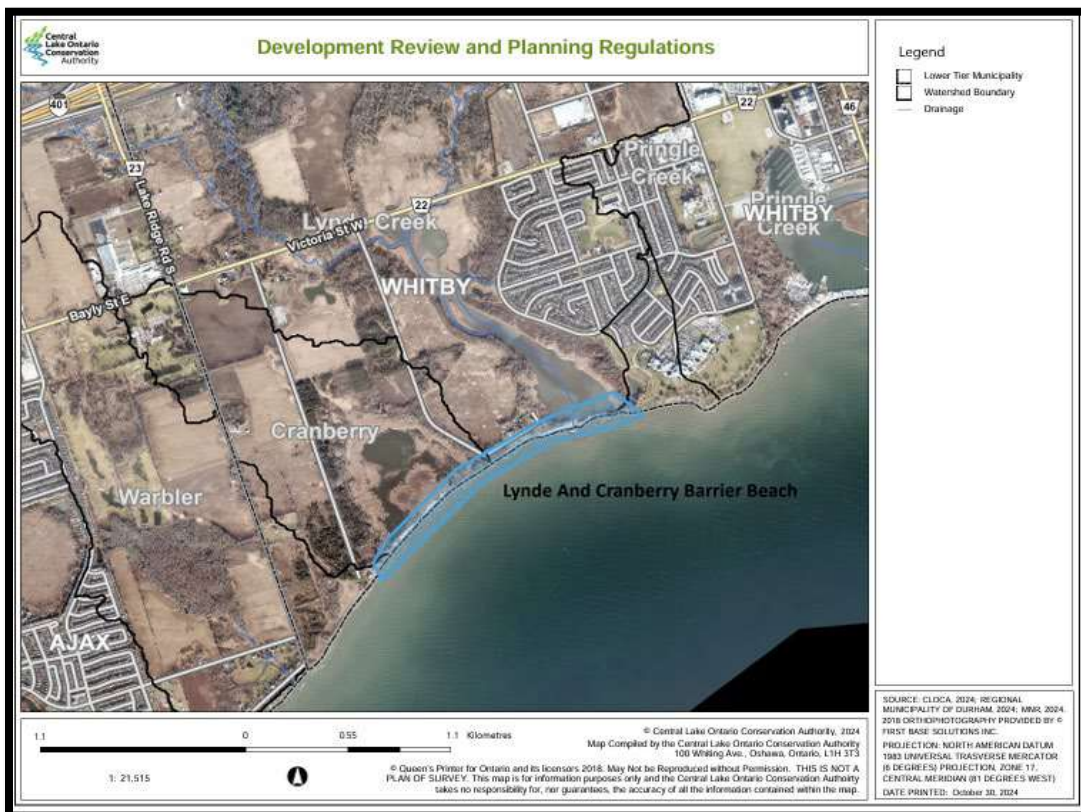


Figure 1: Study area for the Protective Wetland Features highlighted in the RFQ (area highlighted in blue).

Human activity, including shoreline hardening and other development practices, has disrupted these natural processes. Shoreline hardening reduces erosion and limits the sediment supply necessary to replenish the barrier beach. While Lake Ontario's currents continue to transport sediment away, little to no replacement sediment arrives to sustain the beach. Additionally, infrastructure like piers, while economically important, interrupts natural sediment flows and exacerbates the problem. This erosion and lack of sediment replenishment leave wetland areas increasingly vulnerable to Lake Ontario's wind and waves.

If the barrier beaches were to disappear entirely, the marsh habitats would undergo drastic changes. These changes would jeopardize many delicate species that depend on the wetlands, reducing biodiversity and habitat availability. Climate change compounds these challenges by intensifying fluctuations in Lake Ontario's water levels, increasing storm severity, and accelerating erosion. These factors heighten the risk of barrier beach failure, further threatening the integrity of the wetlands. Preventing these changes is critical to maintaining habitat health and supporting wildlife that rely on these unique ecosystems. Figure 2 and 3 show the change that has occurred to the size and resilience of the barrier beach at Cranberry Marsh over the course of 20 years.



Figure 2: Cranberry Marsh beach in 2004. Large, more intact barrier beach that was stable enough to have large trees growing on it.



Figure 3: Cranberry Marsh barrier beach in 2024. The barrier beach has decreased in size, making it less resilient. High water levels in 2017 and 2019 contributed to the loss in sediment and loss of tree cover.

RECOMMENDATION:

THAT the Year 1 Lynde Shores Conservation Area Protective Wetland Features project be awarded to SJL Engineering at a cost not to exceed \$243,132 (excluding HST); and, THAT staff be directed to execute a consulting contract with SJL Engineering.

JD/DM/iv
s:\reports\2025\sr5922_25.docx