

NIAGARA PENINSULA CONSERVATION AUTHORITY Board of Directors Meeting March 21, 2025, 10:00a.m. Carolinian Hall 3350 Merrittville Hwy., Thorold ON ADDENDUM

6. PRESENTATIONS

6.1. Conservation Areas Signage Update Presented by Director, Conservation Areas, Adam Christie, and Manager, Conservation Area Programs & Services, Alicia Powell.

6.2. Lake Ontario Coastal Resilience Pilot Project

Presented by Manager, Natural Hazard Management and Resiliency, Brendan Buggeln.

Page 31

Page 1

9. DISCUSSION ITEMS

9.4. Report No. FA-08-25 RE: Contract Award – Trees for All Potted Stock – Hortico Nurseries Inc.

Page 40

Page 43

9.5. Report No. FA-12-25 RE: Single Source Procurement for Natural Asset Assessment of Lake Ontario Shoreline – Green Analytics Inc.

11. MOTIONS

THAT Report No. FA-07-25 RE: Agreement of Services between the Corporation of the Township of Wainfleet and Niagara Peninsula Conservation Authority **BE POSTPONED;**

AND THAT staff **BE DIRECTED** to bring forward Report No. FA-07-25 RE: Agreement of Services between the Corporation of the Township of Wainfleet and Niagara Peninsula Conservation Authority following the Corporation of the Township of Wainfleet's Council meeting where such matters have been considered.



CONSERVATION AREAS SIGNAGE UPDATE

NPCA Board Meeting March 21, 2025

ADAM CHRISTIE Director, Conservation Areas ALICIA POWELL Manager, Conservation Areas Programs and Services

AGENDA

- Introduction
- Strategic Goals
- Signage Overview
- Conservation Area Priorities
- Signage Project Overview
- Signage Samples
- Next Steps
- Questions



NPCA'S 2021-2031 STRATEGIC PLAN

Connecting People to Nature

- Improve services and visitor experiences at NPCA properties
 - Facilities, buildings, trail maps, wayfinding and accessibility
- Proactively seek opportunities to enhance trail connections with active transportation routes





CONSERVATION AREA ENHANCEMENT PRIORITIES

Improvement of greenspace infrastructure to increase safe access to NPCA conservation areas (Cave Springs, St. Johns, Rockway).

Enhanced parking and entrance areas **Results of** Improved accessibility Project Trail improvement with new boardwalks, stairs and wayfinding signage



St. Johns: Enhanced Parking & Entrance Areas







Cave Springs: Enhanced Parking & Entrance Areas







Rockway: Enhanced Parking & Entrance Areas







ROCKWAY CONSERVATION AREA















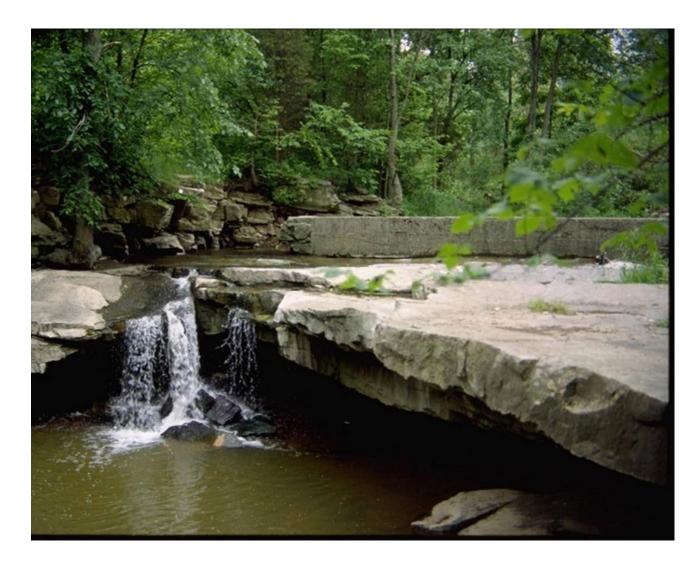






FUNDING PARTNERS

- Canadian Community Revitalization Fund (Federal)
- Niagara Region Public Realm Improvement Program (Rockway)
- Niagara Peninsula Conservation Foundation (NPCF)
- NPCA Capital Funding





NPCA ENGAGEMENT

Cave Springs

- Town of Lincoln
- Bruce Trail Club
- Geopark
- Friends of Margaret Reed
- PAC

Rockway

- Town of Lincoln
- Bruce Trail Club
- Geopark
- Rockway Community Club
- PAC



ENHANCED SIGNAGE PROJECT THEMES

ENHANCE VISITOR EXPERIENCE

- Importance of an effective, user-friendly wayfinding system is for reducing discomfort, confusion and disorientation
- Strategically placed signage to clarify routes at key decision-making points and guide people to important/interesting focal points along the trails
- Develop an interpretive program that will engage visitors through captivating narratives that deepen their connection to the area

SHARE ENGAGING NARRATIVES

- A thoughtful, professional interpretive program
- Communicate the values of the NPCA and its stakeholders
- Convey the ecological, historical and cultural significance of the Rockway and Cave Springs Conservation Areas and greater Niagara Peninsula watershed through captivating text and graphics

IMPROVE EQUITABLE ACCESS

- Create an environment that is inviting to all people regardless of age, gender identification, cultural background, or physical and cognitive ability
- Outcomes-based approach that considers how interpretive signage and wayfinding can connect visitors to important social, physical, and mental health benefits within the conservation areas

REDUCE ENVIRONMENTAL IMPACT

- Consider environmental factors, sustainability, and longevity \rightarrow central to design approach and material selection
- Seeking experienced firm in designing sign programs
- Materials that withstand the southern Ontario climate
- Experience with not-for-profits and publicly-funded sites that are accountable to environmentally sustainable practices



PROJECT SCOPE

Planning and design of interpretive and wayfinding signage for Rockway Conservation Area and Cave Springs Conservation Area.

DELIVERABLES

1. Interpretive Program Framework

- Outcome of engagement and community workshops
- \rightarrow Goals, themes, key messages, audience
- 2. Thematic Design Package
 - Location planning, site audits, language
- 3. Design Development Package
 - Detailed scale, materials, finishes, typography, colour
- 4. Interpretive and Wayfinding Signage Plan
 - Final deliverable
 - → Finalized signage design
 - Fabrication-ready specs
 - Final images and content

Cygnus



OTHER WAVEINDING CONSULTANT

Home Services & Approach Our Work News Contact Us

Hello, we're Cygnus.

We improve how people navigate your environment, access your services, and engage with your brand.

	SIGN FABRICATORS			
ADVERTISING & BRAND AGENCIES				
Plan	Design	Deliver		
We find clarity through research and planning. Initial planning stages ensure an accurate understanding of visitor needs and builds awareness for unique site conditions, project dependencies, and regional codes that will guide the design process to successful outcomes.	We guide and inform visitors through design. Exceptional design reflects the site architecture, community and cultural context, and vision to dramatically impact a visitor's perception of space, their access to services, and their loyalty to your brand.	We remain accountable through delivery. Our project management expertise award us the means to respond to all aspects of a project, managing activities from construction to installation while supporting the needs of our clients and vendors.		





NPCA PROJECT DESIGN & APPROACH

tiagara Peninsula CONSERVATION Vature for all Identity Guidelines

Creative leadership and collaboration

- NPCA staff played a key role in laying the groundwork for these signs, establishing strong brand standards, and contributing valuable content
- Creative collaboration between internal teams and external experts
- Across the NPCA Communications. Conservation Areas, GIS

Fresh design approach

- In-house design and development of NPCA Brand Identity and logo by Rob Petrullo
- The use of NPCA's secondary colour palette brought added vibrancy and a fresh look to the interpretive signage



NPCA PROJECT DESIGN & APPROACH

Signage expertise

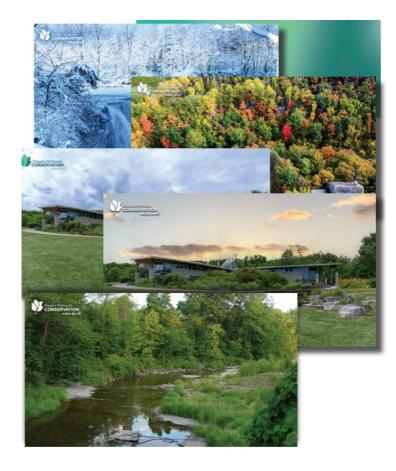
- NPCA staff laid the foundation for this project in previous designs (Binbrook)
- Cygnus, a trusted consultant with extensive experience with conservation authorities, ensured high-quality design and durability
- Dedication to visitor engagement in design and content development

Collaborative effort

• Teams across NPCA, including GIS, conservation areas, and communications, worked together to create visually captivating and informative signs

. Future impact

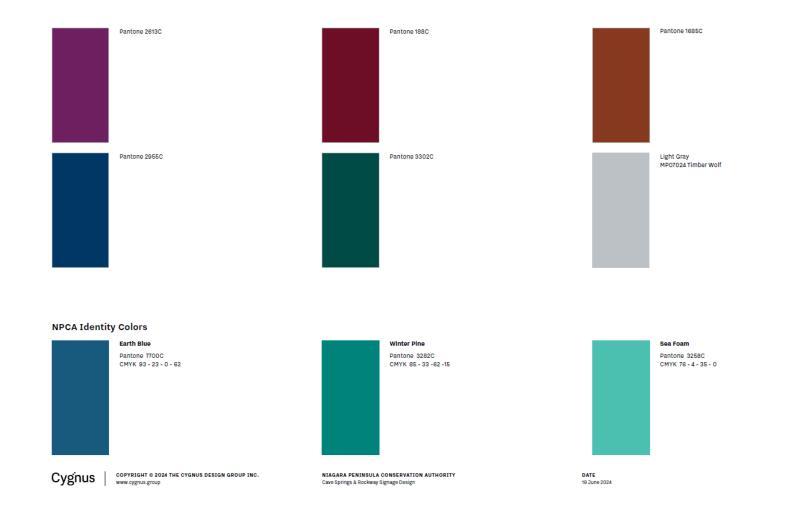
• This project sets the standard for interpretive signage across NPCA conservation areas to continue enhancing visitor experiences





NPCA INTERPRETIVE SIGNAGE BRAND

GRAPHIC ASSETS Colours & Finishes





NPCA INTERPRETIVE SIGNAGE THEMES





INTERPRETIVE SIGNAGE Signage Details



Working With Nature

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Working With Nature

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Working With Nature

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ts this important goal .



Cave Springs



400 mm 1-3 %*

PRELIMINARY SIGN LOCATION PLANS Cave Springs Trail



CAVE SPRING TRAIL Scale 1:4000



ROCKWAY CONSERVATION AREA

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ROCKWAY INTERPRETIVE PANELS Scale 1:10



4-PANEL TRAILHEAD **KIOSK**



Cygnus

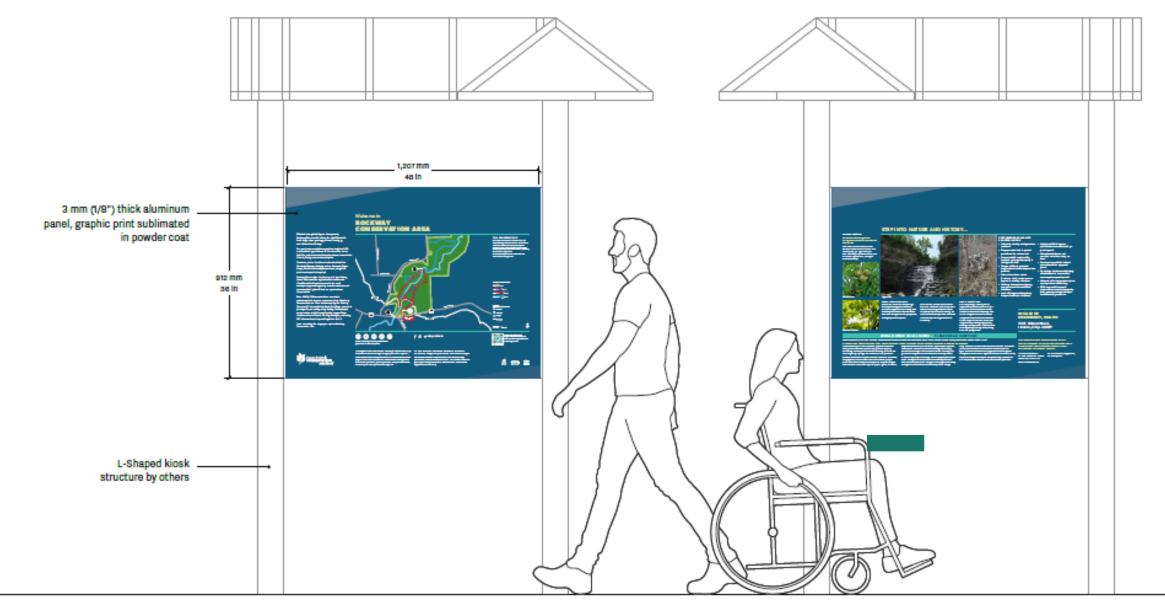
COPYRIGHT © 2024 THE CYGNUS DESIGN GROUP INC. www.cygnus.group

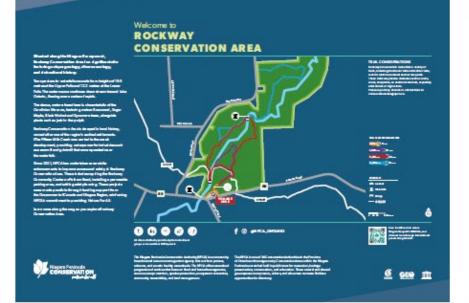
NIAGARA PENINSULA CONSERVATION AUTHORITY Cave Springs & Rockway Signage Design

DATE 19 June 2024



NPCA TRAILHEAD KIOSK







NATURE FOR ALL,

NPCA TRAILHEAD KIOSK

ROCKWAY



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FOR ALWAYS. THANK YOU FOR BEING A FRIEND OF CONSERVATION



BECOME A MEMBER AND ENIOY UNUMITED ACCESS TO NPCA CONSERVATION AREAS YEAR ROUND

SCANOR VISIT

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THIS PROJECT WAS MADE POSSIBLE THROUGH FUNDING SUPPORT FROM:

Canada



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Welcome to CAVE SPRINGS CONSERVATION AREA

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CAVE SPRINGS

NPCA Watershed and Conservation Areas Lake Ontario CITY OF HAMILTON aside Trail • NIAGARA REGION HALDIMAND COUNTY Haday Rulprok 1 E.C. Brown Lake Erie

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THANK YOU FOR BEING A FRIEND OF CONSERVATION



BECOME A MEMBER AND ENJOY UNLIMITED ACCESS TO NPCA CONSERVATION AREAS YEAR ROUND

SCANOR VISIT PCECA/NATUREPLUS

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THIS PROJECT WAS MADE POSSIBLE THROUGH FUNDING SUPPORT FROM:

Canada







NEXT STEPS

Fabrication and installation of Cave Springs and Rockway signs in Summer 2025



Conservation Areas Management Plans

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Indigenous interpretation of conservation areas



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Ongoing engagement with NPCA partners

Municipalities Geopark Heritage committees, and more

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Enhancement of additional conservation areas
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Signage, wayfinding, interpretation, access, parking facilities, accessibility









ACHRISTIE@NPCA.CA | WWW.NPCA.CA



LAKE ONTARIO COASTAL RESILIENCE PILOT PROJECT

NPCA Full Authority Board meeting

March 21, 2025

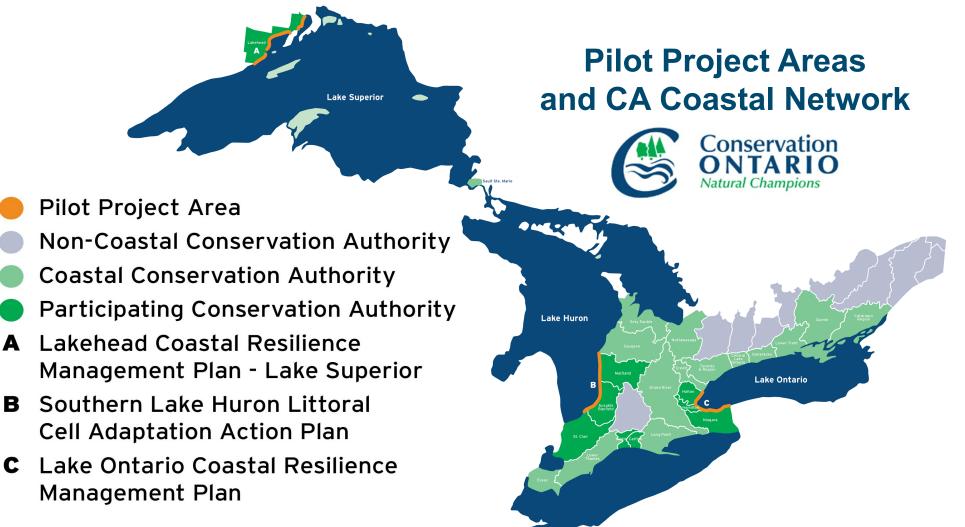
BRENDAN BUGGELN Manager, Natural Hazard Management and Resiliency

NATURAL RESOURCES CANADA CLIMATE-RESILIENT COASTAL COMMUNITIES (CRCC) PROGRAM

- Coastal regions are dynamic and highly integrated physical, social, ecological and economic systems that face a wide spectrum of linked and often cascading climate change impacts and risks that require a coordinated response
- \$4.1M (2023-2028) under the National Adaptation Action Plan
- Up to 25 pilot projects across Canada



ADAPTING TO COASTAL HAZARDS ACROSS THE GREAT LAKES



GEOGRAPHIC CONTEXT

- Niagara River in Niagara-onthe-Lake to Joshua's Creek in Oakville/Mississauga
 - Excluding Hamilton Harbour
- 3 Conservation Authorities
- 10 Coastal Municipalities
- Approximately 95km in length
 - 50km in NPCA jurisdiction





MANAGING THE SHORELINE FOR RESILIENCY

- NPCA regulates shoreline hazards via a Shoreline Management Plan
 - Flooding, erosion, dynamic beaches
 - Last updated 2009
- CAs also required to consider "how these risks may be affected by climate change" (O. Reg 686/21)
- Coastal Resilience Management Plan
 - regional-scale pilot project;
 - enhance climate resilience;
 - accelerate adaptation; and
 - enable partners to enact coordinated, innovative actions.





COASTAL RESILIENCE MANAGEMENT PLAN

- Climate change assessment
- Shoreline risk and vulnerability assessment
- Coastal Resiliency Plan
 - Long-term visions and goals
 - Risk mitigation strategies
 - Detailed case studies
 - Suggested policy options
 - Long term monitoring plan



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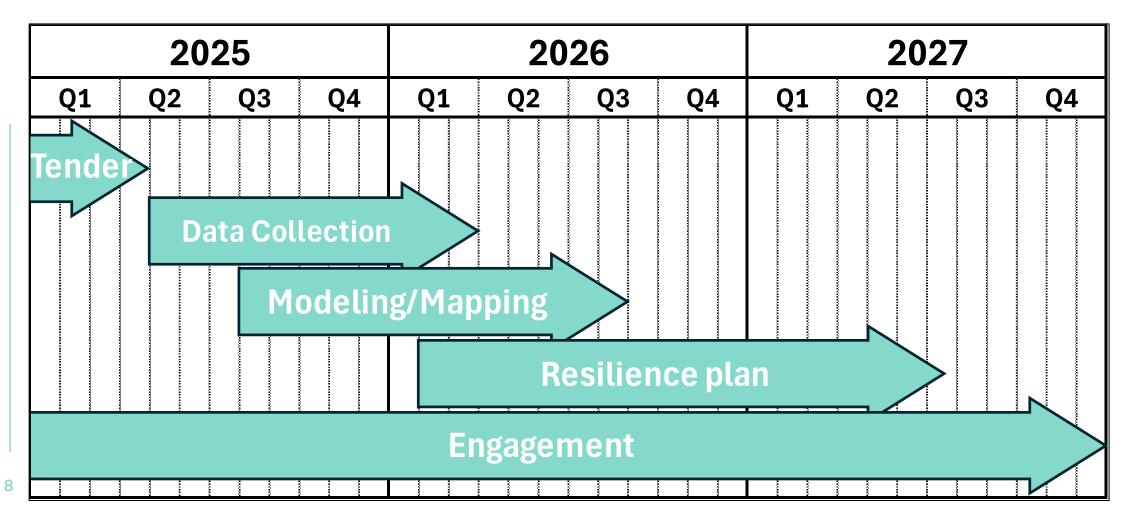
COLLABORATION IS THE KEY TO SUCCESS



Plus 10 Lake Ontario coastal municipalities, Indigenous partners and other interested parties.



PROJECT SCHEDULE





BRENDAN BUGGELN BBUGGELN@NPCA.CA | WWW.NPCA.CA



Report To: Board of Directors

Subject: Contract Award – Trees for All Potted Stock - Hortico Nurseries Inc.

Report No: FA-08-25

Date: March 21, 2025

Recommendation:

THAT Report No. FA-08-25 RE: Contract Award – Trees for All Potted Stock BE RECEIVED;

AND THAT a contract award to Hortico Nurseries Inc. in the amount of \$404,578 (plus non-recoverable HST) **BE APPROVED**;

AND FURTHER THAT staff **BE AUTHORIZED** to execute all necessary documents to award the contract.

Purpose:

To award a contract to Hortico Nurseries Inc. for the provision of potted, native tree stock for the *Trees for All* program over two years, in accordance with Niagara Peninsula Conservation Authority's (NPCA) Procurement Policy.

Background:

Trees for All is a restoration-oriented tree planting initiative aimed at increasing forest cover, enhancing habitats, and improving biodiversity across urban and rural communities in the watershed, on public and private lands. *Trees for All* has two planting streams (i.e., bareroot and potted trees) supported through a cost-sharing model by a broad partnership of federal and municipal governments as well as other organizations.

In 2024, NPCA secured a multi-year federal contribution agreement through the 2 Billion Trees initiative to support planting potted trees in municipal parks and other publicly-owned/managed properties with a focus on community engagement, where possible.

Discussion:

Over the next two years of the *Trees for All* program, NPCA aims to plant over 40,000 potted trees and shrubs across the watershed, in collaboration with municipal partners. Given the high volume of native tree and shrub stock required for program delivery and the need to maximize funding allocated within the eligible agreement criteria, NPCA sought to retain a vendor to supply and deliver native trees and shrubs through a competitive request for proposals.

In February 2025, the NPCA issued a competitive request for proposals (2025-RFP-035) for a vendor to supply and deliver native trees and shrubs for the *Trees for All* program's potted plantings. The RFP process closed on March 3, 2025, with seven (7) compliant bids received and evaluated. Staff are recommending the contract be awarded to the highest ranked proponent: Hortico Nurseries Inc.

Financial Implications:

The total contract award to Hortico Nurseries Inc. is \$379,938 (plus non-recoverable HST and delivery fees) for a maximum upset limit of \$411,700 as follows:

Contract award to Hortico Nurseries Inc.	\$379,938
Delivery fees	24,640
Non-recoverable HST	7,122
TOTAL	\$411,700

The potted stream of *Trees for All* program is funded through a four-year contribution agreement with Natural Resources Canada (2 Billion Trees Initiative) in addition to cash and in-kind contributions from partners through established service-level agreements, as appropriate. The *Trees for All* 2025 operating budget is supported by program revenues that do not impact the municipal levy.

Links to Policy/Strategic Plan:

Goal 1.3: Restore and enhance natural habitat, water resources, and forest cover.

Goal 4.2: Foster relationships with the community, non-government organizations, businesses, agriculture, industry, and academic institutions for collective outcomes and impact.

Related Reports and Appendices:

Report No. FA-54-24 RE: Trees for All Update

Authored by:

Original Signed by:

Geoffrey Verkade Senior Manager, Integrated Watershed Strategies

Reviewed by:

Original Signed by:

Natalie Green, M. Sc., PMP Director, Watershed Strategies & Climate Change

Reviewed by:

Original Signed by:

Lise Gagnon, CPA, CGA Director, Corporate Services

Submitted by:

Original Signed by:

Leilani Lee-Yates, BES, MSPL.RPD, MCIP, RPP Chief Administrative Officer/Secretary-Treasurer



Report To: Board of Directors

Subject: Single Source Procurement for Natural Asset Assessment of Lake Ontario Shoreline – Green Analytics Inc.

Report No: FA-12-25

Date: March 21, 2025

Recommendation:

THAT Report No. FA-12-25 RE: Single Source Procurement for Natural Asset Assessment of Lake Ontario Shoreline – Green Analytics Inc. **BE RECEIVED;**

AND THAT a single source contract to Green Analytics Inc. in the amount of \$44,769 (plus non-recoverable HST) **BE APPROVED**;

AND THAT a contingency of 10% of \$4,477 **BE ALLOCATED** to address any unanticipated costs during the project implementation process;

AND FURTHER THAT staff **BE AUTHORIZED** to execute all necessary documents to award the contract.

Purpose:

To obtain approval for a single source, non-competitive procurement to Green Analytics Inc. to complete a natural asset inventory and valuation of the Lake Ontario shoreline, in accordance with NPCA's purchasing policies.

Background:

On April 16, 2020, the Niagara Peninsula Conservation Authority (NPCA) Board of Directors approved the Procurement Policy to provide staff direction on the purchase and procurement of goods and services for the NPCA.

Non-competitive procurements are defined as the purchase of goods and/or services from a specific vendor within two situations:

- even though there may be more than one vendor capable of delivering the same Goods or Services (known as "single source"); or
- because there are no other vendors available or able to provide the required Goods and/or Services (known as "sole source").

As per Section 8 of the Procurement Policy, the NPCA may use a non-competitive procurement process, subject to appropriate approval authority, if any of the specified exceptions apply. Further, the policy stipulates that any non-competitive procurement over \$25,000 must have approval from the NPCA Board of Directors.

Under Section 8.2, a single source non-competitive procurement is allowed (with appropriate approval) if "only one vendor can meet the requirements of a procurement [...] to ensure compatibility with existing products".

Discussion:

Key deliverables of the Lake Ontario Coastal Resilience Pilot Project include a shoreline inventory/characterization as well as risk and vulnerability assessments with a climate change lens and focus on nature-based solutions. These deliverables are critical for the development of a coastal resilience plan for the Lake Ontario shoreline from the mouth of the Niagara River (Niagara-on-the Lake, ON) to Joshua's Creek (Oakville/Mississauga, ON). The inventory/characterization and assessment of traditional or hard infrastructure along the Lake Ontario shoreline and other project deliverables will proceed through a competitive request for proposals (RFP) process in 2025; however, the natural asset inventory and assessment component requires unique and specific expertise.

In 2023, through a competitive request for proposals in accordance with NPCA's Procurement Policy, NPCA retained Green Analytics as the top-ranked proponent to complete the <u>NPCA Watershed Natural Asset Analysis and Valuation</u> project. The purpose of the project was to create an inventory of natural assets within the watershed, better understand the state of the assets through an ecosystem-based condition assessment and estimate the value of natural assets using replacement cost and provision of ecosystem services. The watershed-wide natural asset project was comprehensive; however, there were some identified information gaps and limitations to the geographic scope. For example, the Great Lakes shorelines within the NPCA jurisdiction were not included in the scope of the project.

Natural asset assessment and valuation is an emerging field and very few consultants have the requisite experience to perform this work, which was clearly demonstrated during the 2023 procurement of the NPCA Watershed Natural Asset Analysis and Valuation project. Staff have become well-versed with the level of effort and expertise required to perform natural asset assessment and valuation work. The proposed scope of work and quote from Green Analytics Inc. would provide NPCA with a valuable service while increasing staff capacity on additional project deliverables. To maintain the compatibility of the information produced through the proposed Lake Ontario natural asset shoreline inventory and valuation with the existing NPCA watershed natural asset inventory, staff recommend proceeding with a non-competitive, single source procurement of services with Green Analytics Inc., as per section 8.2 of the NPCA procurement policy. The single source procurement will enable NPCA to meet the deliverables of the Lake Ontario Coastal Resilience Pilot Project and maximize the funding allocated for 2024-2025 portion of the funding contribution agreement.

Financial Implications:

The total value of the contract to Green Analytics for this project is \$44,769 (plus non-recoverable HST). Staff recommend a 10% contingency provision in the amount of \$4,477 be included in the total project budget for a maximum upset limit of \$50,113.

The project budget breakdown is as follows:

TOTAL	\$50,113
Non-recoverable HST	\$867
10% contingency	\$4,477
Contract award to Green Analytics Inc.	\$44,769

Funding for this work is supported through the Lake Ontario Coastal Resilience Pilot Project with \$1.5 million over four years allocated to NPCA for project implementation through a funding award to Conservation Ontario from Natural Resources Canada. Matching cash and in-kind contributions are being provided by NPCA through approved capital budgets and partners. The total external funding available for this portion of the project is \$50,000.

Links to Policy/Strategic Plan

Goal 1.1: Support evidence-based decision-making for climate-resilient watersheds and shorelines.

Goal 1.2: Protect people and properties from natural hazards and climate impacts.

Related Reports and Appendices:

Report No. FA-10-25 RE: Lake Ontario Coastal Resilience Pilot Project Report No. FA-38-24 RE: Watershed Natural Assets Analysis and Valuation

Authored by:

Original Signed by:

Natalie Green, M.Sc., PMP Director, Watershed Strategies & Climate Change

Reviewed by:

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Submitted by:

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