



Clean Water Committee

Meeting Agenda

Date: March 3rd, 2022

Time: 9:00 a.m.

Teams Meeting Coordinates:

*Meeting connection information will be provided
48 hours in advance.*



Clean Water Committee

Meeting Agenda

March 3, 2022 at 9:00 am

1. Chair's Remarks
2. Approval of Clean Water Committee Agenda (Supplemental Agenda)
3. Declaration of Conflict of Interest
4. SNC Project Update – PowerPoint Presentation: Staff
5. Community Engagement: Roundtable
6. Request for Approval: Approval of Clean Water Committee virtual meeting minutes of November 29th, 2021 3-10
7. New Business:
 - a. Update: 2022 Committee Chair and Membership: Ronda 11
 - b. Request for Approval: Eastern Ontario Water Resources Program Financial Statement – As of December 31st, 2021: Ronda 12-13
 - c. Request for Approval: Lagoon Effluent Tree Irrigation and Evapo-transpiration Study: Chris Kinsley 14-20
 - d. Request for Approval: 2022 Eastern Ontario Water Resources Program: Ronda 21-27
 - e. Update: 2022 Clean Water Committee Work Plan: Ronda 28-30
 - f. Request for Approval: 2022 Clean Water Program Guidelines and Grant Structure: Ronda 31-35
8. Supplemental Agenda (if any)
9. Correspondence (if any)
10. Date of Next Meeting:
 - June 6th, 2022 at 9:00 a.m.
11. Adjournment

Ronda Boutz,
Team Lead, Special Projects.

/lh



CLEAN WATER COMMITTEE MEETING

Monday, November 29th, 2021 9:00 a.m. – Meeting 04/2021

By Electronic Participation

Present:	Jacqueline Kelly-Pemberton, Committee Chair Ray Beauregard, Farmer Russell Bennett, Farmer Michel Kearney, City of Ottawa Alan Kruszel, Farmer René Lalonde, Farmer Marc Laflèche, Farmer Glenn Mackey, Farmer André Pommainville, Farmer Tara Redpath, City of Ottawa Terrence Sauvé, Ontario Ministry of Agriculture, Food and Rural Affairs Bill Smirle, SNC Past Chair, ex-officio Doug Thompson, Public Citizen Adrian Wynands, Farmer
Regrets:	George Darouze, SNC Chair, ex-officio David Lapen, Agriculture and Agri-Food Canada Pierre Leroux, SNC Vice-Chair, ex-officio François St. Amour, United Counties of Prescott and Russell Daniel Lafleur, United Counties of Prescott and Russell
Absent :	Gib Patterson, Ottawa Rural Clean Water Grant Program
Staff:	Ronda Boutz, Team Lead, Special Projects Lorie Henderson, Administrative Assistant Katherine Watson, Water Resources Specialist – Monitoring



CHAIR'S REMARKS

Jacqueline Kelly-Pemberton, Committee Chair, convened the Clean Water Committee meeting of Monday, November 29th, 2021 at 9:00 a.m. and welcomed everyone.

APPROVAL OF CLEAN WATER COMMITTEE AGENDA

RESOLUTION NO. CWC-039/21

Moved by: Glenn Mackey
Seconded by: Russell Bennett

RESOLVED THAT:

The Members approve the Clean Water Committee meeting agenda of November 29th, 2021 as submitted.

CARRIED

DECLARATION OF CONFLICT OF INTEREST

There were no Declarations of Conflict of Interest.

REQUEST FOR APPROVAL:

CLEAN WATER COMMITTEE MEETING MINUTES OF September 13th, 2021

RESOLUTION NO. CWC-040/21

Moved by: Rene Lalonde
Seconded by: Ray Beauregard

RESOLVED THAT:

The Members approve the Clean Water Committee electronic meeting minutes of September 13th, 2021 as submitted.

CARRIED

Doug Thompson and Marc Lafléche joined the meeting at 9:09 a.m.

BUSINESS ARISING FROM MINUTES

DENIED CLEAN WATER GRANT APPLICATION

2021-APL-CW19 – COVER CROP – VERBAL

Project was discussed and rated and will be considered with Agenda item 8f.

STAFF UPDATE

Staff presented project and program updates.



ROUNDTABLE DISCUSSIONS: COMMUNITY ENGAGEMENT

- Bill Smirle advised the Committee members that he made a presentation to North Dundas Council, and they are always interested in projects that South Nation Conservation are doing.
- Jackie Pemberton commented that Clean Water Representatives are available if needed to assist South Nation Conservation staff with presentations to municipalities on the Clean Water Grant Program.

Adrian Wynands joined the meeting at 9:30 a.m.

NEW BUSINESS

UPDATE: CONSERVATION AUTHORITIES ACT- PHASE 1 REGULATIONS

Angela Coleman, General Manager/Secretary-Treasurer presented the Clean Water Committee Members with a Conservation Authorities Act, Phase 1 Regulations update.

**REQUEST FOR APPROVAL: EASTERN ONTARIO WATER RESOURCES
PROGRAM FINANCIAL STATEMENT – AS OF NOVEMBER 15th, 2021**

RESOLUTION NO. CWC-041/21

Moved by: Doug Thompson

Seconded by: Tara Redpath

RESOLVED THAT:

The Clean Water Committee approve the Eastern Ontario Water Resources Program Financial Statement for the period of January 1 – November 15th, 2021; and

FURTHER THAT:

The \$3,000.00 for Lagoon Effluent Tree Irrigation and Evapo-transpiration Study be carried forward to the 2022 Budget for project completion.

CARRIED

**REQUEST FOR APPROVAL: EASTERN ONTARIO WATER RESOURCES PROGRAM
PROJECTS**

**ASSESSING FUTURE FLOOD VULNERABILITY IN THE SOUTH NATION RIVER
WATERSHED PROPOSAL**

RESOLUTION NO. CWC-042/21

Moved by: Andre Pommerville

Seconded by: Tara Redpath



RESOLVED THAT:

The Clean Water Committee approves expenditures of \$2,800 for the Assessing Future Flood Vulnerability in the South Nation River Watershed project in 2021; and

FURTHER THAT:

The Committee approves to carry forward funds of approximately \$9,000 to the 2022 budget for project completion.

CARRIED

SOUTH NATION CONSERVATION CLIMATE STATION

RESOLUTION NO. CWC-043/21

Moved by: Michel Kearney
Seconded by: Doug Thompson

RESOLVED THAT:

The Clean Water Committee approve the final report and expenditures of \$12,000 for the South Nation Climate Station project in 2021.

CARRIED

OTTAWA RURAL CLEAN WATER PROJECT APPLICATIONS

RESOLUTION NO. CWC-044/21

Moved by: Doug Thompson
Seconded by: Adrian Wynands

RESOLVED THAT:

05 21 2356 DDA Well Decommissioning
The Clean Water Committee conditionally approve the project pending funding availability at a grant rate of 90% to a maximum grant of \$1,080.00.

CARRIED

RESOLUTION NO. CWC-045/21

Moved by: Michel Kearney
Seconded by: Tara Redpath



RESOLVED THAT:

05 21 2357 DDA Forest Management Plan

The Clean Water Committee conditionally approve the project pending funding availability at a grant rate of 75% to a maximum grant of \$450.00.

CARRIED

RESOLUTION NO. CWC-046/21

Moved by: Alan Kruszel
Seconded by: Rene Lalonde

RESOLVED THAT:

05 21 2363 DDA Precision Farming

The Clean Water Committee conditionally approve the project pending funding availability at a grant rate of 100 % to a maximum grant of \$1,000.00.

CARRIED

RESOLUTION NO. CWC-047/21

Moved by: Russell Bennett
Seconded by: Tara Redpath

RESOLVED THAT:

05 21 2364 DDA Well Decommissioning

The Clean Water Committee conditionally approve the project pending funding availability at a grant rate of 90% to a maximum grant of \$2,250.00.

CARRIED

SUMMARY OF CLEAN WATER PROGRAM GRANT APPLICATIONS

Ronda Boutz, Team Lead, Special Projects provided the Committee with a summary of 2021 Clean Water Program Applications for information only.

CLEAN WATER PROGRAM PROJECT APPLICATIONS

RESOLUTION NO. CWC-048/21

Moved by: Alan Kruszel
Seconded by: Marc Lafléche



RESOLVED THAT:

The Clean Water Committee approves funding to the following projects:

Project Code	Project Type	Grant %	Grant Approved	Rating
2021-APL-CW19C	Control Tile Drain	50%	\$5,000.00	26.8
2021-NAT-CW35	Well Decommissioning	100%	\$1,000.00	24.8
2021-APL-CW19	Cover Crop	N/A	\$1,000.00	24.6
2021-NAT-CW36	Erosion Control	50%	\$4,425.00	24.3
2021-NAT-CW32	Well Decommissioning	100%	\$1,000.00	23.6
2021-CLR-CW31	Septic	50%	\$2,000.00	23.3
2021-APL-CW19B	Cover Crop	N/A	\$1,000.00	23.2
2021-APL-CW17B	Cover Crop	N/A	\$1,000.00	22.8
2021-NAT-CW33A	Well Decommissioning	100%	\$1,000.00	22.3
2021-NAT-CW33B	Well Decommissioning	100%	\$1,000.00	22.3
2021-NAT-CW16B	Cover Crop	N/A	\$1,000.00	22.2
2021-APL-CW30	Cover Crop	N/A	\$750.00	21.9
2021-NAT-CW34	Erosion Control	50%	\$5,000.00	21.6
Total Requested			\$25,175.00	

AND FURTHER THAT:

Project 2021-NAT-CW33C be moved to the waiting list.

CARRIED

Michel Kearney left the meeting at 11:01 a.m.

REQUEST FOR APPROVAL: 2021 CLEAN WATER PROGRAM WAITING LIST

RESOLUTION NO. CWC-049/21

Moved by: Rene Lalonde
Seconded by: Doug Thompson

RESOLVED THAT:

The Clean Water Committee approves the following 2021 Waiting List projects, in order of their project rating, if 2021 grant funding is available:

Project Code	Project Type	Grant %	Grant Approved	Rating
2021-NAT-CW22	Well Decommissioning	50%	\$1,000.00	21.4



Project Code	Project Type	Grant %	Grant Approved	Rating
2021-NDU-CW11	Manure Storage	50%	\$8,000.00	21.2
2021-NDU-CW13	Well Decommissioning	100%	\$1,000.00	20.7
2021-NAT-CW33C	Well Decommissioning	100%	\$1,000.00	20.3
Total Maximum Approved			\$11,000.00	

FURTHER THAT:

The Clean Water Committee deny funding to projects on the 2021 waiting list with a score of less than 20.0 points.

Project Code	Project Type	Grant %	Grant Request	Rating
2021-CAS-CW03	Erosion	50%	\$4,390.00	19.9
2021-CAS-CW06	Erosion	50%	\$4,391.00	19.8
2021-NAT-CW08	Erosion	50%	\$5,000.00	19.1
2021-RUS-CW15A	Buffer Strip	50%	\$2,320.00	19.7
2021-NGR-CW14	Well Decommissioning	100%	\$1,000.00	19.6
2021-NDU-CW12	Well Decommissioning	100%	\$1,000.00	19.3
2021-CAS-CW26	Erosion	50%	\$2,477.29	18.0
2021-SDU-CW09	Well Decommissioning	100%	\$1,000.00	16.4
Total Funds Requested			\$21,578.29	

CARRIED

REQUEST FOR APPROVAL: 2022 CLEAN WATER COMMITTEE MEETING SCHEDULE

RESOLUTION NO. CWC-050/21

Moved by: Bill Smirle
Seconded by: Adrian Wynands

RESOLVED THAT:

The Clean Water Committee approves the 2022 Committee meeting schedule as presented.

CARRIED

DATE OF NEXT MEETING

March 3rd, 2022: Clean Water Committee at 9:00 a.m.

March 3rd, 2022: Joint Standing Committees at 1:00 p.m.

ADJOURNMENT



SOUTH NATION
CONSERVATION
DE LA NATION SUD

RESOLUTION NO. CWC-051/21

Moved by: Doug Thompson

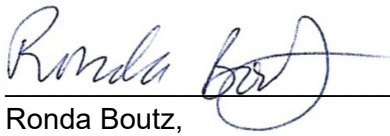
RESOLVED THAT:

The Clean Water Committee meeting of
November 29th, 2021 be adjourned at 11:33 a.m.

CARRIED

Jacqueline Kelly-Pemberton,
Committee Chair.

/lh



Ronda Boutz,
Team Lead, Special Projects.



To: Clean Water Committee
From: Ronda Boutz, Team Lead, Special Projects
Date: February 22, 2022
Subject: Update: 2022 Committee Chair and Membership

RECOMMENDATION:

The Clean Water Committee receive and file the 2022 Committee Chair and Membership report.

DISCUSSION:

In 2021, the Board of Directors approved revisions to the "Terms of Reference: South Nation Conservation Standing Committees" to allow for a formal application process for membership recruitment and the addition of a 3-year term for Standing Committee members (BD-080/21).

Due to updates to *the Conservation Authorities Act* and upcoming municipal elections in Fall 2022 that will inform political and community appointments, the Board approved a temporary amendment to the Committee Terms of Reference to allow for an extension of current Committee membership into 2022 (BD-026/22).

Applications will be sought for Committee membership in Fall 2022 for the 2023-2025 term, subject to approval by the Board of Directors at SNC's Annual General Meeting in 2023.

The Board approval to extend the current membership term includes ratifying the current appointed Committee Chair in their position until the Board approves the 2023 Committee memberships and Chair appointments.

FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget: The 2022 SNC Budget includes funding for the Clean Water, Forestry, Fish and Wildlife, and Communications Committee meetings under Communications and Outreach: Corporate Communications pages 84-85.

SNC Policy Adherence: Standing Committees adhere to SNC Administrative By-laws, Part III, sections 20.1 to 21.0, pages 9 and 10.

Ronda Boutz,
Team Lead, Special Projects.



To: Clean Water Committee
From: Ronda Boutz, Team Lead, Special Projects
Date: February 23, 2022
Subject: Request for Approval: Eastern Ontario Water Resources Program
2021 Financial Statement – as of December 31st, 2021

RECOMMENDATION:

The Clean Water Committee approve the Eastern Ontario Water Resources Program Financial Statement for the period of January 1 – December 31, 2021.

DISCUSSION:

The 2021 Eastern Ontario Water Resources Program Financial Statement, as of December 31st, 2021, is attached.

FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget:

Funding for the Eastern Ontario Water Resources Program was included in the 2021 Budget under Resource Management: Partner Programs: Water on pages 18-19.

SNC Policy Adherence:

All expenditures for the Eastern Ontario Water Resources Program (EOWRP) adhere to the SNC Purchasing Policy and the approved EOWRP Budget.

Ronda Boutz,
Team Lead, Special Projects.

Attachments: 2021 Financial Statement – as of December 31st, 2021



2021 Financial Statement – as of December 31th, 2021

United Counties of Prescott-Russell	\$25,000
City of Ottawa	\$50,000
Carry-over of 2020 dollars	\$22,151
TOTAL REVENUE	\$97,151

Expenses:	2021 Budget	Expenses as of Dec. 31, 2021	Funds carried to 2022 Budget⁶
1. EOWRP Project Management¹	\$4,500	\$4,500	\$0
2. EOWRP Committee²	\$1,252	\$651	\$601
3. 2020 EOWRP Projects³			
a) Eastern Ontario Children's Water Festival	\$2,031	\$2,031	\$0
b) Lagoon Effluent Tree Irrigation and Evapo-transpiration Study	\$3,000	\$0	\$3,000
c) The Use of Radionuclides to Identify Vulnerable Fractured Karst Bedrock Aquifers in Eastern Ontario	\$3,000	\$3,000	\$0
d) Phase 1: South Nation River Watershed Water Budget Update Plan	\$9,500	\$9,500	\$0
4. 2021 Special Projects⁴			
a) UCPR: Floodplain Mapping	\$25,000	\$25,000	\$0
b) South Bear Brook Catchment Study	\$25,068	\$17,068	\$8,000
5. 2021 Grants⁵			
a) South Nation Conservation Climate Station	\$12,000	\$12,000	\$0
b) South Nation Conservation Assessing future flood vulnerability in the South Nation River Watershed	\$11,800	\$2,800	\$9,000
TOTAL EXPENSES	\$97,151	\$61,696	\$20,601

¹ South Nation Conservation provides project management services to EOWRP to facilitate the Project Grants; this includes developing project application materials, coordinating call for proposals, administering grants to approved projects. Funding from City of Ottawa 2021 EOWRP contribution.

² Meeting expenses for appointed EOWRP members on the Clean Water Committee.

³ EOWRP grants approved in 2020 and to be completed in 2021.

⁴ EOWRP Special Projects in 2021 identified by the EOWRP funding contributor.

⁵ City of Ottawa earmarked \$23,800 of their \$50,000 2021 contribution for grants to be allocated through a grant proposal submission. Projects reviewed and approved at the June 7, 2021 and September 13, 2021 meetings.

⁶ Unspent funds for approved projects and Committee support to be carried forward to the 2022 Budget for payments.



Lagoon Effluent Tree Irrigation and Evapo-transpiration Study

Feb 4th, 2022

Chris Kinsley, Ph.D., P.Eng. & Meet Patel, B.Sc.Eng.
Ontario Rural Wastewater Centre
Department of Civil Engineering
University of Ottawa



uOttawa

1. EXPERIMENTAL PROCEDURE

1.1 Constructed Wetland (Marsh/Pond/Marsh) and Irrigation System

The 2021 Operating Season commenced July 6th and ended November 11th. The irrigation system was put into operation on July 15th and was stopped Nov 5th.



Figure 1.1: Aerial Photograph of the Alfred Municipal Lagoons and Wetland System



Figure 1.2: Dosing Pump Dock and Irrigation Header

In order to make the system operational the following repairs were completed:

- The roof to the control building was replaced
- Several electrical outlets were replaced (with the help of OCWA)
- A floating dock was installed in the lagoon to support the dosing pump
- Several pumps were replaced
- A section of broken pipe in the dosing line and in the return line were excavated and replaced
- The wetland header line was repaired
- The irrigation dosing pipe was replaced

Note: Due to the late start in July it was not possible to purchase or plant poplar cuttings (none available at all nurseries) so the irrigation field is operating as a grass filter for this season. Cuttings will be ordered this winter and planted in the spring of 2022.

1.2 Sample Collection and Analysis

Water Quality Sampling

Grab samples were collected at six locations across the system flow profile (Lagoon, Wetland Inlet (W Inlet), 1st Wetland Cell (W1), Wetland Pond (P), 2nd Wetland Cell Outlet (W2) and Vegetated Filter Outlet (VF). Grab samples were taken weekly and analyzed for temperature, pH, dissolved oxygen (DO), chemical oxygen demand (COD), soluble chemical oxygen demand (sCOD), total nitrogen (TN), total ammoniacal nitrogen ($\text{NH}_4^+ + \text{NH}_3$), nitrate (NO_3), total phosphorus (TP), orthophosphate (OPO_4) and total suspended solids (TSS). All samples were analyzed at the Environmental Engineering Laboratory of the University of Ottawa. Sample analytical methods follow Standard Methods (APHA, 2012).

Grab samples were taken using a subsurface grab sampler, which consists of a 500 mL container fastened to a 3 m long aluminum rod. When taking a grab sample, the subsurface grab sampler was submerged below the water level and the sample then decanted into the sample bottles. The sampler was rinsed with the wastewater at the respective sampling location twice before taking a grab sample.

Plant and Soil Sampling

Representative plant (3 x 1m²) and soil (3 cores at 0-6 inch and 3 cores at 6-12 inches) samples were collected. Samples were sent to the Soil and Water Laboratory at the University of Guelph for TN and extractable P analysis.

2. RESULTS AND DISCUSSION

The results reported in this section present the data collected during the 2021 monitoring season. The Alfred wetland system has been in operation from July 6th and data presented in this Section includes COD, TSS, N and P.

2.1 Chemical Oxygen Demand (COD)

The Alfred wetland system was effective at treating the lagoon effluent for TCOD. Average influent concentrations of 118 ± 47 mg/L were reduced to 55 ± 7 mg/L at the outlet of the wetland system providing a 53% removal efficiency. The vegetated filter further reduced TCOD to 47 ± 13 mg/L. The remaining COD likely represents refractory compounds which do not readily biodegrade.

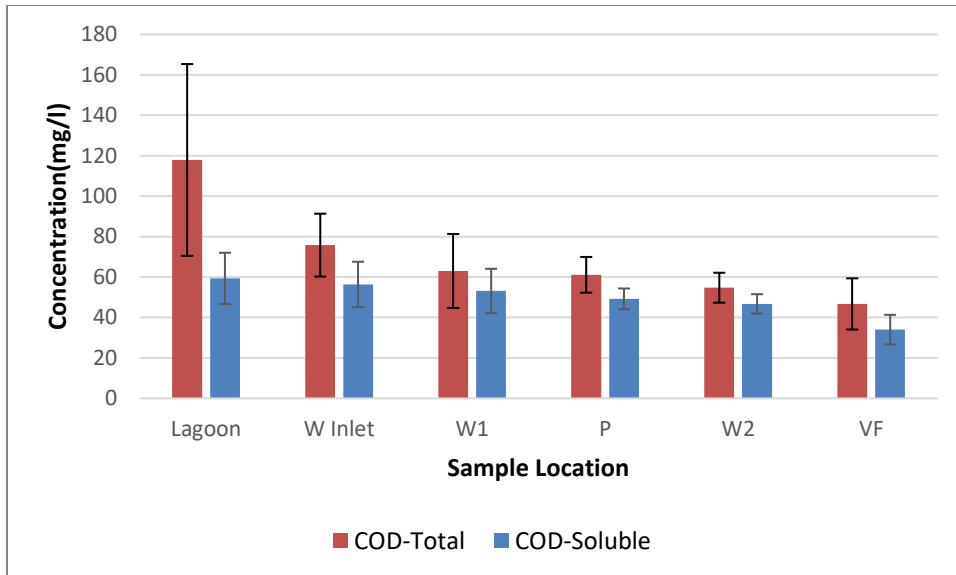


Figure 2.1 – COD Concentrations (Avg \pm Std. Dev.)

2.2 Total Suspended Solids (TSS)

The Alfred wetland system was very effective at treating the lagoon effluent for TSS. Average influent concentrations of 117 ± 136 mg/L were reduced to 5 ± 4 mg/L at the wetland outlet providing a 96% removal efficiency. No change was observed in the vegetated filter concentrations. The outlet TSS concentrations are below the most restrictive potential discharge limit of 10 mg/L.

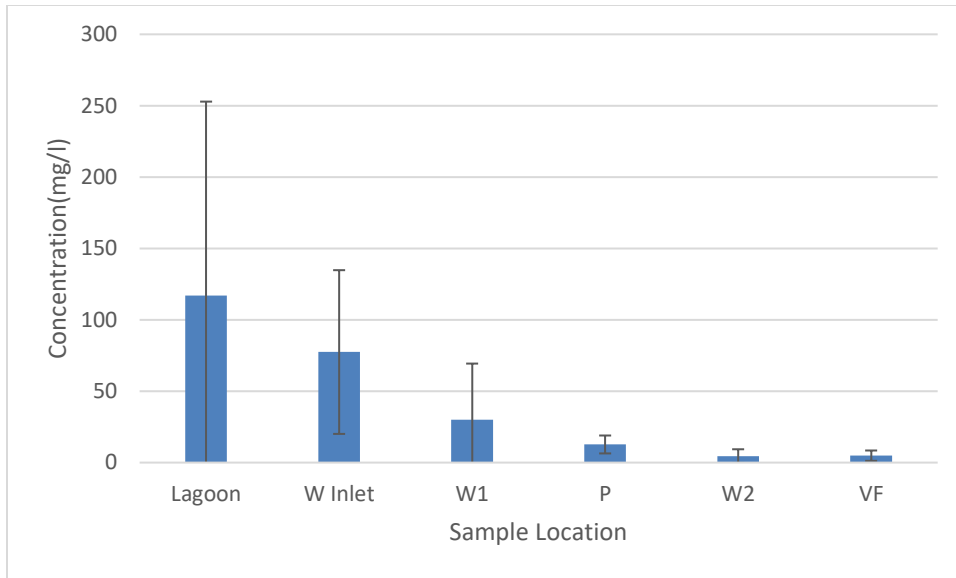


Figure 2.2 – TSS Concentrations (Avg ± Std. Dev.)

2.3 Nitrogen

The nitrogen species in the lagoon effluent comprise mostly nitrate, followed by organic nitrogen and small concentrations of ammonia. The Alfred wetland system was effective at reducing TN concentrations. Average influent concentrations of 6.2 ± 2.8 mg/L were reduced to 3.2 ± 0.3 mg/L at the wetland outlet providing a 48% removal efficiency. The vegetated filter further reduced TN to 2.9 ± 0.4 mg/L.

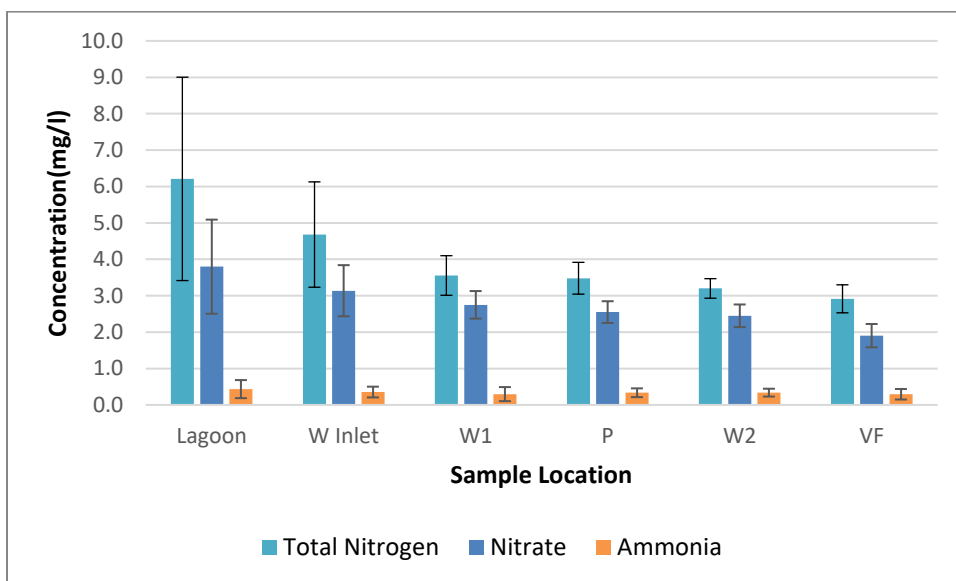


Figure 2.3 –N Concentrations (Avg ± Std. Dev.)

2.4 Phosphorus

The Alfred wetland system was very effective at treating the lagoon effluent for phosphorus. Average influent concentrations of 1.0 ± 1.2 mg/L were reduced to 0.2 ± 0.3 mg/L at the outlet of the wetland d providing an 80% removal efficiency. This is a very promising result as it demonstrates that the removal mechanisms for phosphorus were not adversely affected by the system being dormant for 10 years. The vegetated filter was also very effective at further reducing TP concentrations to 0.1 ± 0.1 mg/L. These findings are very encouraging with very low TP concentrations achieved by the system.

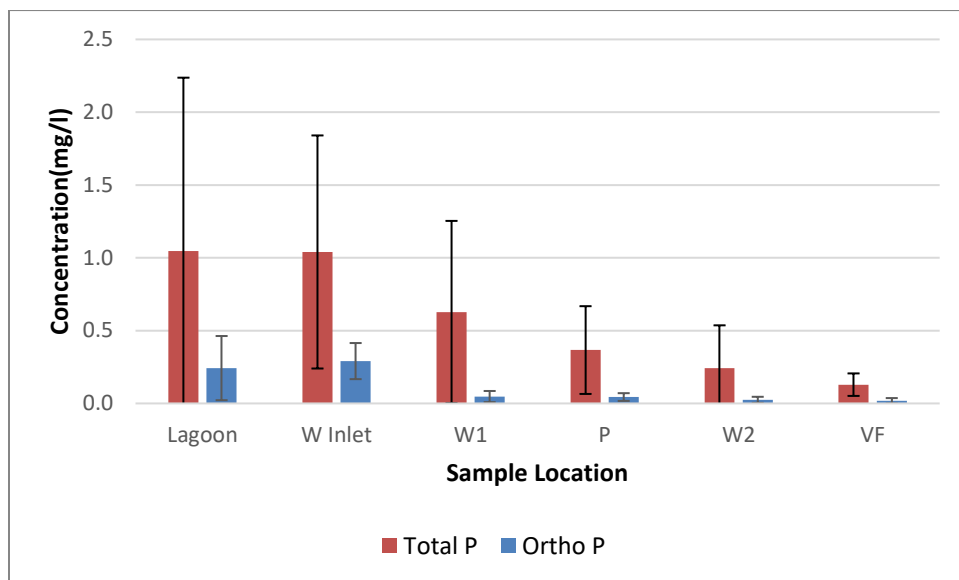


Figure 2.4 – Phosphorus Concentrations (Avg \pm Std. Dev.)

2.5 Soil and Plant Analysis

Three 1 m^2 samples of filter vegetation (grass) were collected on October 13th and analysed for % N and %P. Three soil cores at 0-6 and 6-12 inches were collected on October 31st and analysed for extractable N and P. Results are presented below.

	TN (g/m^2)	TP (g/m^2)
Grass	0.46 ± 0.17	0.035 ± 0.017
Soil (0-6 inches)	366 ± 199	0.62 ± 0.21
Soil (6-12 inches)	363 ± 229	0.73 ± 0.39

3. Further Research

The project will continue next season with the planting of the poplar trees and continuing system monitoring and evaluation. Ongoing data analysis for the 2021 season includes analysing flow measurements and calculating ET from the wetland and vegetated filter system as well as a detailed survey of the accumulated sediment in the wetland and pond cells to determine the long-term phosphorus accretion and storage in the system. Micorbiome samples are also being analysed to understand the microbial processes within the wetland sediment and vegetated filter soils.

4. Project Expenses

Item	EOWRM Cost	UOttawa Cost	Total Cost
Laboratory Materials and Supplies and External lab fees	\$1,000	\$4,600	\$5,600
Mileage (UOttawa – Alfred)	\$500	\$1,120	\$1,620
Experimental Site Setup and materials (dock construction, pumps, electrical, pipe repairs)	\$1,500	\$4,500	\$6,000
Total	\$3,000	\$10,220	\$13,220

Recommendation: That the EOWRP approves payment to the University of Ottawa based on this final report.



To: Clean Water Committee
From: Ronda Boutz, Team Lead, Special Projects
Date: February 22, 2022
Subject: Request for Approval: 2022 Eastern Ontario Water Resources Program

RECOMMENDATION:

The Clean Water Committee approves status quo for 2022 for the Eastern Ontario Water Resources Program (EOWRP) Application Form, Guidelines, and Rating System; and

FURTHER THAT: the Clean Water Committee approves issuing a 2022 call for EOWRP grant proposals to be submitted for consideration at the June 6th, 2022 Clean Water Committee; and

FURTHER THAT: Staff provide the final 2022 EOWRP budget to the Clean Water Committee at the June 6th, 2020 meeting.

DISCUSSION:

1. EOWRP Funding Application and Project Proposal Guidelines

Based on past Committee discussions, Eastern Ontario Water Resources Program (EOWRP) grants were reintroduced to the Program in 2019; funding is from a portion of the City of Ottawa's annual contribution to EOWRP.

The Clean Water Committee approved the Eastern Ontario Water Resources Program (EOWRP) application form, guidelines and rating system at the March 7th, 2019 meeting, these remained unchanged in 2020 and 2021. Staff are recommending status quo on all these documents for 2022. Copies are attached for the Committee's reference.

Staff are recommending a call for grant proposals be issued in April 2022 with a submission deadline of May 25th, 2022. Grant proposals would be reviewed by the Clean Water Committee at the June 6th, 2022 meeting. The Committee would score each submission, as per the rating system, following presentation of all proposals by the project applicants.

2. EOWRP 2021 Budget

As per City of Ottawa staff direction, a portion of the City's annual EOWRP contribution (\$25,000) will support a special project, the remaining funds would be available for allocation to EOWRP project management (including costs associated with issuing the call for proposals), Committee expenses, and grant proposals. Staff are currently confirming a workplan and budget for the 2022 special project "Advancing Early Warning Tools in the SNR Watershed".

The City of Ottawa approval of the EOWRP funding, via Special Levy, is pending approval from the City's Finance and Economic Development Committee and Council (expected in early May 2022).



SOUTH NATION
CONSERVATION
DE LA NATION SUD



The United Counties of Prescott and Russell have confirmed a \$25,000 contribution to a floodplain mapping special project in 2022.

A copy of the 2022 EOWRP budget is attached for the Committee's review, Committee approval will be contingent on confirmation of the 2022 Ottawa Special Levy.

FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget:

Funding for the Eastern Ontario Water Resources Program is included in the 2022 Budget under Resource Management: Partner Programs: Water on pages 18-19.

SNC Policy Adherence:

All expenditures for the Eastern Ontario Water Resources Program (EOWRP) adhere to the SNC Purchasing Policy and the approved EOWRP Budget.

Ronda Boutz,
Team Lead, Special Projects.

Attachments: EOWPR Funding Application
EOWRP Project Proposal Guidelines
2022 EOWRP Budget



EOWRP Funding Application

Item	Description
1	Applicant:
	Name of Lead Applicant:
	Name(s) of Partners:
2	Contact Information:
	Administrative Contact: Name and Contact Info
	Signing Authority name(s) and position(s)
	Legal Name of Lead Applicant
3	Name of Proposed Project:
4	EOWRP Funding Request:
5	Project Description:
6	EOWRMS Recommendations Addressed: (Reference ID# from EOWRP Recommendations Summary Table circulated with the call for Proposal)



Item	Description																																											
7	Potential for Regional impact on protecting water resources, including applicability and transferability to EOWRMS Study Area:																																											
8	Project Location(s):																																											
9	<div>Deliverables Schedule:</div> <table border="1"> <thead> <tr> <th rowspan="2">Description of Deliverables <i>Note: Written deliverables for the general public must be Bilingual – English and French</i></th><th colspan="3">Bilingual</th><th rowspan="2">Delivery Date</th></tr> <tr> <th>Yes</th><th>No</th><th>N/A</th></tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Description of Deliverables <i>Note: Written deliverables for the general public must be Bilingual – English and French</i>	Bilingual			Delivery Date	Yes	No	N/A																																			
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	Yes	No	N/A																																									
10	<div>Detailed Budget</div> <table border="1"> <thead> <tr> <th>Expenditure (provide detailed breakdown)</th><th>EOWRP Funding</th><th>Lead/Partner Funding</th><th>Total</th></tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr> <td colspan="3">Total</td><td> </td></tr> </tbody> </table>	Expenditure (provide detailed breakdown)	EOWRP Funding	Lead/Partner Funding	Total																																	Total						
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EOWRP Project Proposal Guidelines

Proponents wishing to submit project proposals for EOWRP funding must complete the EOWRP Funding Application. Proposals must address recommendations from the Eastern Ontario Water Resources Management Study (www.nation.on.ca/resources/science-research/technical-reports).

The application form must be received by South Nation Conservation, by the date indicated in the call for proposals. For more information, contact Ronda Boutz at rboutz@nation.on.ca or 1-877-984-2948.

Clean Water Committee (CWC) members submitting project proposals will abstain from the EOWRP project proposal review and approval process.

Project proposals will be reviewed by the CWC based on the project rating system below.

EOWRP Rating System:

Criteria	Available Points	Points Awarded
1. Relevance to EOWRMS goals and recommendations (e.g. <i>impact on protecting water resources and achieving EOWRMS recommendations</i>)	10	
2. Project location and applicability and transferability to other areas within the EOWRMS Study Area	5	
3. % of project budget that is EOWRP funds and allocation of funding to overall project budget (e.g. <i>admin, staffing, materials and supplies, etc.</i>)	5	
TOTAL	20	

EOWRP Approved Projects:

EOWRP projects are required to report to the CWC periodically with progress reports and must provide a final report.

Final approved project reports will present the EOWRMS recommendation addressed, a summary of results associated with the project deliverables, a detailed budget, and future recommendations if applicable. The final report will be no longer than 3 pages in length, additional information can be provided to the CWC during the meeting.

Satisfactory invoices will be required for all projects completed and records available on request for audit purposes.

Payment terms are such that funding will be provided after the project is complete (final report provided to the EOWRP). Interim billing will only be considered on a case-by-case basis, proponents must request interim payment at time of application and provide justification for the request.



2022 EOWRP Budget

		2022 Budget
Revenue:		
a)	United Counties of Prescott-Russell	\$25,000
b)	City of Ottawa	\$50,000
c)	Carry-over of 2021 encumbered funds	\$20,601
TOTAL REVENUE		\$95,601
Expenses:		
d)	EOWRP Project Management and Outreach	\$4,500
e)	EOWRP – Committee Representative Expenses	\$1,601
f)	EOWRP Grants	
	i) 2020: Lagoon Effluent Tree Irrigation and Evapo-transpiration Study	\$3,000
	ii) 2021: South Nation Conservation Assessing future flood vulnerability in the South Nation River Watershed	\$9,000
	iii) 2022 Project Grants	\$20,500
g)	EOWRP Special Projects	
	i) 2021: South Bear Brook Catchment Study	\$8,000
	ii) 2022: UCPR Floodplain Mapping	\$25,000
	iii) 2022: Advancing Early Warning Tools in the SNR Watershed	\$25,000
TOTAL EXPENSES		\$95,601

Budget Notes

- a) **United Counties of Prescott-Russell (P&R)**
P&R approved a 2022 EOWRP contribution of \$25,000 to a Floodplain Mapping Special Project.
- b) **The City of Ottawa**
The City of Ottawa has budgeted \$50,000 to EOWRP for 2022. A total of \$25,000 has been earmarked for a Special Project (Advancing Early Warning Tools in the SNR Watershed, see budget note g), the remaining funds will be allocated as EOWRP grants (\$20,500), Committee expenses (\$1,101), and project management including costs associated with the call for grant proposals (\$4,500). This funding is subject to City approval of the 2022 Special Levies.
- c) **Carry-over of 2021 encumbered funds**
A total of \$20,601 is encumbered to one EOWRP Special Project and two EOWRP grants for projects approved in 2020 and 2021 which are not complete; funding carried to 2022 budget for payment upon project completion.



d) **Project Management**

South Nation Conservation is retained as the project manager for EOWRP to provide the following services: facilitation of the EOWRP reports to the Clean Water Committee; coordination of project proposals and payments for approved projects, reporting to EOWRP funders, and preparation of financial statements (as banker for EOWRP). This line item also includes expenses related to issuing a call for project proposals.

e) **EOWRP – Committee Representative Expenses**

This item includes payment of volunteer EOWRP Clean Water Committee representatives (per diem and mileage) to attend meeting and presentations related to EOWRP business.

f) **EOWRP Grants**

A total of \$20,500 is available in 2022 for allocation to project proposals approved by the Clean Water Committee as per the EOWRP guidelines and rating system. Encumbered 2021 funds (\$12,000) for two EOWRP projects is also included in this line item.

g) **EOWRP Special Projects**

EOWRP funding partners have earmarked funding to EOWRP Special Projects as follows:

2021 Special Projects – 2022 completion	2021 Funds
City of Ottawa: Bear Brook Catchment Study (Year 2)	\$8,000
TOTAL	\$8,000
2022 Special Projects	2022 Funds
UCPR: Floodplain Mapping	\$25,000
City of Ottawa: Advancing Early Warning Tools in the SNR Watershed	\$25,000
TOTAL	\$50,000



To: Clean Water Committee
From: Ronda Boutz, Team Lead, Special Projects
Date: February 23, 2022
Subject: Update: 2022 Clean Water Committee Work Plan

RECOMMENDATION:

That the Clean Water Committee receives and files the 2022 Clean Water Committee Work Plan update.

DISCUSSION:

The following deliverables were identified in the 2022 Budget:

- SNC Clean Water Program
 - 4 meetings
 - 25 grants
 - 2022 Clean Water Program budget attached
- Ottawa Rural Clean Water Program (ORCWP)
 - Administrative support
 - Liaise with City of Ottawa and Conservation Authority Partners
 - 1 interim report and 1 final report
 - 1 meeting of Program steering committee
 - 60 grants between the three Conservation Authority Partners
- Eastern Ontario Water Resources Program (EOWRP)
 - Administrative support and delivery through SNC Clean Water Committee.
 - Liaise with Eastern Ontario Water Resources Program funding partners.
 - Administer Eastern Ontario Water Resources Program grants.

FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget: Above deliverables are included the 2022 Budget under Resource Management: Partner Programs: Water, pages 18-19.

SNC Policy Adherence: All expenditures related to the above deliverables adhere to SNC's Purchasing Policy.

Ronda Boutz,
Team Lead, Special Projects.

Attachments: 2022 Clean Water Program Budget



2022 CLEAN WATER PROGRAM BUDGET

Revenue		
a	SNC Levy	\$91,250
b	2021 Projects Carry-forward	\$49,960
c	Total Phosphorus Management Program	\$0
TOTAL		\$141,210
Expenses		
d	2021 Project Grants	\$49,960
e	2022 Project Grants	\$60,000
f	Communications	\$500
g	Staffing/Program Representatives	\$30,750
TOTAL		\$141,210

BUDGET NOTES:

Revenue

a) SNC Levy

SNC will contribute \$91,250 to the Clean Water Program in 2022 from the general levy.

b) 2021 Projects Carry-forward

Approved projects have approximately 12 months from date of approval to be completed. A total of 22 projects, approved in 2021, still need to be completed; funding (\$49,960) is encumbered to pay the approved amounts to these projects upon completion.

c) Total Phosphorus Management (TPM)

There are no active TPM agreements in 2022; \$0 revenue in budget.

Expenses

d) 2021 Project Payouts

A total of 22 projects, approved in 2021, still need to be completed; funding (\$49,960) is encumbered to pay the approved amounts to these projects upon completion.

e) 2022 Project Grants

A total of \$60,000 is available for allocation to eligible projects in 2022. Project applications are reviewed and rated using a Project Rating System, to rank project priorities for funding.



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f) Communications

A total of \$500 has been budgeted to support Program promotion or communication activities.

g) Staffing/Program Representatives

A total of \$30,750 has been budgeted for Staff and Program Representatives salaries, benefits and expenses related to the delivery of the Clean Water Program.

This line item reflects the staff recovery from the Ottawa Rural Clean Water Program for site visits and files management (application to payment for approved projects).



To: Clean Water Committee
From: Ronda Boutz, Team Lead, Special Projects
Date: February 23, 2022
Subject: Request for Approval: 2022 Clean Water Program Guidelines and Structure

RECOMMENDATION:

The Clean Water Committee recommends to the Board of Directors to approve status quo for 2022 Clean Water Program guidelines (except for cover crops and erosion control), grant structure, application review process, and all project rating sheets; and

FURTHER THAT the Clean Water Committee recommends to the Board of Directors to approve the following amendment to the Cover Crop guidelines:

- Addition of the following criteria under Eligible Items and Project Requirements: “A minimum vegetated buffer strip with a width of at least 3 meters (10 feet) must be maintained between the edge of field and the top of any bank. Wider widths are encouraged”; and

FURTHER THAT the Clean Water Committee recommends to the Board of Directors to add clarification to the Erosion Control guidelines regarding eligibility, as discussed, where there are multiple applicants applying for a project on a single property.

DISCUSSION:

1. Program Guidelines

Staff are recommending status quo for all Clean Water Program guidelines with the exception of the Cover Crops and Erosion Control guidelines. Copies of the current guidelines are available online (<https://www.nation.on.ca/clean-water-program>), click the link in the “Eligible Projects” table.

Cover Crops

Staff are recommending the following requirement be added to the cover crop guidelines:

- A minimum vegetated buffer strip with a width of at least 3 meters (10 feet) must be maintained between the edge of field and the top of any bank. Wider widths are encouraged.

This additional requirement will enhance the water quality effectiveness of cover crops by ensuring cropping is setback an appropriate distance from watercourses. This change also brings consistency between the recently updated Ottawa Rural Clean Water Program and the Clear Water Program guidelines for this project type.

A copy of the draft 2022 guideline is attached for the Committee’s review.



Erosion Control

In fall 2021, the Committee indicated the need to discuss eligibility for erosion control projects on a property where the watercourse is not the property boundary, and the neighboring landowner is involved with proposed work.

For discussion:

- Where the watercourse resides solely on one property, but erosion is affecting the neighboring property and the neighbor is financially participating in the erosion control project, should both property owners be eligible for a grant, or should this be considered one project with only one grant approved?

A copy of the 2021 guideline is attached for reference.

2. Rating Sheets

Staff recommend status quo for all project rating sheets. Copies of the rating sheets are uploaded on the Members page.

3. Grant Structure

Staff are recommending status quo for the grant structure for 2022. The current grant structure is as follows:

Eligible Project Types	Grant Rate ¹	Grant Max.
Buffers ²	50%	\$5,000
Clean Water Diversion/Barnyard Runoff Control	50%	\$5,000
Controlled Tile Drainage	50%	\$5,000
Cover Crops	\$50/acre/year up to a maximum of 20 acres	
Fertilizer / Chemical Storage and Handling	50%	\$1,000
Fuel Storage and Handling	50%	\$1,000
Livestock Access Restriction to Waterways		
– labour by applicant	100%	\$5,000
– labour by contractor	75%	\$5,000
Manure Storages	50%	\$8,000
Milkhouse Wastewater Treatment / Disposal	50%	\$5,000
Well Decommissioning	100%	\$1,000
Septic Systems	50%	\$2,000
Erosion Control	50%	\$5,000

¹Grant rates may vary if applicant receives funding from other sources.

²May be eligible for a performance incentive of \$150/acre/year, max. 10 acres.

Staff recommend status quo for review/approval of applications in 2022, as follows:

- A project must achieve a minimum rating score of 21.5 points to be considered for grant funding at the June and September 2022 Committee meetings.
- Any surplus grant funding available at the November 2022 Committee meeting will be allocated, in order of project ranking (high to low), to projects achieving a score of 15 points or more.



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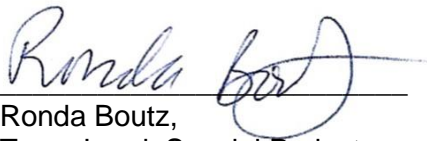
FINANCIAL IMPLICATIONS/COMPLIANCE TO SNC POLICY:

Compliance with Budget:

Clean Water Program is included in the 2022 Budget under Resource Management:
Partner Programs: Water, pages 18-19.

SNC Policy Adherence:

Allocation of grants adheres to SNC's Purchasing Policy, signing limits.



Ronda Boutz,
Team Lead, Special Projects.

Attachments: 2022 Draft Cover Crop Guideline
2021 Erosion Control Guideline



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Clean Water Program Project Guidelines **COVER CROPS**

PERFORMANCE INCENTIVE: \$50/acre/year up to a maximum of 20 acres

ELIGIBLE ITEMS AND PROJECT REQUIREMENTS:

- Establishment of cover crops on fields adjacent to a watercourse.
- Establishment of non-harvested, non-grazed cover crops.
- Only cover crops used exclusively for cover.
- **A minimum vegetated buffer strip with a width of at least 3 meters (10 feet) must be maintained between the edge of field and the top of any bank. Wider widths are encouraged.**
- The cover crop must be verified by program staff before winter, or before tillage to ensure that the cover crop is providing at least **30%** ground cover. Failure to contact staff and verify crop will result in non-payment of the grant.

APPROVAL PROCESS:

Contact South Nation Conservation (SNC) to complete an application. The Clean Water Committee will review the projects and will give priority to those with the most water quality benefit. Landowners may apply for only one project, per project type, per year. Limited funds are available.

Approved applicants will have approximately 12 months from the approval date to complete their projects. Approved projects will be pre-paid by the landowner. Funding will be provided when the project is completed, inspected to the satisfaction of SNC, and when copies of **all** invoices with acceptable proof of payment, permits, and any other required paperwork are provided. Invoices must provide detailed breakdown of labour hours, quantities of materials purchased and associated costs.

Refer to Clean Water Program Applicant's Guide for more information on the Application Process.

March 2022



Clean Water Program Project Guidelines **EROSION CONTROL**

GRANT RATE: 50% to a maximum of \$5,000

ELIGIBLE ITEMS AND PROJECT REQUIREMENTS:

- Erosion control projects along the South Nation River and its tributaries, as well as tributaries which flow into the Ottawa or St. Lawrence Rivers, will be considered; priority will be given to projects that demonstrate the greatest potential for water quality improvement.
- All erosion control projects must establish a minimum of a 3-metre buffer setback from top of stream bank. Establishment of riparian vegetation such as grasses, trees and shrubs should follow the recommendations of forestry and/or technical staff to ensure soil stabilization is maximized.
- Eligible erosion control techniques include ditch bank seeding, spillway drop structures, culvert protection, bioengineering techniques, grassed waterways, water and sediment control basins, and others. Natural methods of shoreline protection are encouraged whenever possible.
- Approved stream crossing for equipment is eligible.
- Design by professional engineers may be advisable on complex and/or large projects.
- Municipal Drainage Superintendents must agree to work completed along a municipal drain.
- Cattle access and vehicle traffic must be restricted from the project area after completion of the project.
- All future maintenance is the responsibility of the landowner.
- **Applicants are responsible for obtaining all required permits and/or approvals prior to initiating construction.** South Nation Conservation will require a permit for streambank erosion control projects, apply prior to initiating project.
- **Ineligible activities:** straightening and/or piping of watercourses, or projects to improve drainage.

ELIGIBLE COSTS:

- Permits
- Materials
- Contract labour and Engineering services
- Equipment rental

INELIGIBLE COSTS:

- Labour or machinery use of applicant, family dependents or applicant's business
- Erosion projects along the St. Lawrence River or Ottawa River
- Taxes

APPROVAL PROCESS:

Contact South Nation Conservation (SNC) to complete an application. The Clean Water Committee will review the projects and will give priority to those with the most water quality benefit. Landowners may apply for only one project, per project type, per year. Limited funds are available.

Approved applicants will have approximately 12 months from the approval date to complete their projects. Approved projects will be pre-paid by the landowner. Funding will be provided when the project is completed, inspected to the satisfaction of SNC, and when copies of all invoices with acceptable proof of payment, permits, and any other required paperwork are provided. Invoices must provide detailed breakdown of labour hours, quantities of materials purchased and associated costs.

Refer to Clean Water Program Applicant's Guide for more information on the Application Process.

March 2021