

# **Clean Water Committee**

# Meeting Agenda

\*\* PLEASE NOTE START TIME

Date: Monday, November 25th, 2019

Time: 9:30 a.m.

Location: Watershed Room, SNC

Address: 38 Victoria Street, Finch, ON K0C 1K0



# **Clean Water Committee**

# Meeting Agenda

Monday, November 25th, 2019 at 9:30 a.m.

1.	Chair's Remarks							
2. Approval of Agenda								
3. Declaration of Conflict of Interest								
4.	Approval of:							
	a. Clean Water Committee Meeting Minutes, September 9th, 2019	4-10						
5.								
6.	Staff Update: PowerPoint – EcoAction Video							
7.	New Business:							
	a. Special Project – A Subsurface Flow Constructed Wetland Passive	11-14						
	Phosphorus Filter for Goat Milk Wastewater - Final Report: Chris Kinsley							
	b. Request for Approval: Eastern Ontario Water Resources Program 2019	15-16						
	Financial Statement – as of October 31, 2019: Ronda							
	c. Eastern Ontario Water Resources Program Report Updates							
	<ul> <li>i. Project Update: Enhancement of In-Land Climate Data Monitoring</li> </ul>	17						
	in Eastern Ontario: Phil Barns							
	ii. Update: Low Impact Development Project: Jason	18						
	iii. Vars-Winchester Esker Weather Station Project Update: Katherine	19						
	iv. GW-SW Interaction Constraint Mapping Study Update: Katherine	20						
	v. North Castor Catchment Study Update: Katherine	21						
	vi. Interim Report: BMP: Outreach and Education: Ronda	22						
	vii. Agri-Action Environmental Stewardship Tour – Final	23-24						
	Report: Brendan Jacobs							
	d. Ottawa Rural Clean Water Program Project Application: Lorie	25						
	e. 2018-APL-CW05 – Fuel Storage Project Update: Andre	26-27						
	f. Request for Approval: 2018 Clean Water Program Grant Funds: Ronda	28						
	g. Clean Water Program Project Applications: Reps	29-33						
	h. Request for Approval: 2020 Clean Water Committee Meeting	34						
^	Schedule: Lorie							
	Supplemental Agenda (if any)  Roundtable: Community Engagement							
-,	KUUUUSDIE: COMMUNITY Engagement							



- 10. Committee Recommendation for Friends of South Nation
- 11. Confirm Committee Representation at November 28th, 2019 Board Meeting
- 12. Next Meeting
  - a. Clean Water Committee March 5<sup>th</sup>, 2020 at 9:30 a.m., Watershed Room, SNC Office
  - b. Lunch all Standing Committees March 5<sup>th</sup>, 2020 at 12:00 p.m., Watershed Room, SNC Office
  - c. Joint Standing Committee March 5<sup>th</sup>, 2020 at 1:00 p.m., Watershed Room, SNC Office

13. Adjournment

Ronda Boutz.

Team Lead, Special Projects.

/lh



#### **CLEAN WATER COMMITTEE MEETING**

Meeting No. 03/19 Monday September 9<sup>th</sup>, 2019 – 9:30 a.m.

Watershed Room, SNC

Members Present:

Jacqueline Kelly-Pemberton, Committee Chair

Ray Beauregard Russell Bennett Jack Hoogenboom René Lalonde David Lapen Lawrence Levere Glenn Mackey

André Pommainville Norman Riopel Julia Robinson

Bill Smirle, SNC Chair (ex-officio)

Norm Tinkler

Doug Thompson, SNC Past Chair (ex-officio)

Adrian Wynands

Regrets:

Elizabeth Holmes Michel Kearney Alan Kruszel Marc Laflèche Gib Patterson

Terrence Sauvé François St. Amour

Staff Present:

Ronda Boutz, Team Lead, Special Projects

Lorie Henderson, Administrative Assistant

Omar Kana'n, Water Resources Specialist, Engineering

Jason Symington, Environmental Technologist Katherine Watson, Water Resources Specialist

Guests:

Brendan Jacobs, Ontario East Alternative Lands Use

Service Inc.

Tara Redpath, City of Ottawa

Ottana

EC ERWARDSBURCH CAMPRAL

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A North Grenville







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#### **CHAIRS REMARKS**

Jacqueline Kelly-Pemberton, Committee Chair, called the Clean Water Committee meeting to order at 9:30 a.m. and welcomed everyone. Jacqueline introduced Tara Redpath, who will be replacing Julia Robinson from the City of Ottawa.

Jacqueline asked for round of introductions.

## APPROVAL OF CLEAN WATER COMMITTEE MEETING AGENDA

RESOLUTION NO. CWC-029/19

Moved by:

Doug Thompson

Seconded by:

Rene Lalonde

RESOLVED THAT:

The Clean Water Committee approves the September 9th, 2019 agenda as presented.

**CARRIED** 

#### **DECLARATION OF CONFLICT OF INTEREST**

There were no declarations of conflict of interest.

## **REQUEST FOR APPROVAL:**

## CLEAN WATER COMMITTEE MEETING MINUTES OF JUNE 10th, 2019

RESOLUTION NO. BD-030/19

Moved by:

Ray Beauregard

Seconded by:

Russell Bennett

RESOLVED THAT:

The Clean Water Committee approve the

meeting minutes of June 10th, 2019 as

submitted.

**CARRIED** 

Bill Smirle joined the meeting at 9:35 a.m. Adrian Wynands joined the meeting 9:42 a.m.

## STAFF UPDATE - POWERPOINT PRESENTATION

Staff provided the Committee with a slide presentation with updates since the June meeting.

#### **NEW BUSINESS**

REQUEST FOR APPROVAL: EASTERN ONTARIO WATER RESOURCES PROGRAM 2019 FINANCIAL STATEMENT - AS OF AUGUST 31, 2019

Clean Water Committee Meeting Minutes

September 9th, 2019

Page 2 of 7

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RESOLVED THAT:

RESOLUTION NO. BD-031/19

Moved by:

Seconded by:

Doug Thompson

Glenn Mackey

The Clean Water Committee approve the

Eastern Ontario Water Resources Program Financial Statement as of August 31, 2019.

**CARRIED** 

## EASTERN ONTARIO WATER RESOURCES PROGRAM INTERIM REPORT

# PROJECT UPDATE: ENHANCEMENT OF IN-LAND CLIMATE DATA MONITORING IN EASTERN ONTARIO

RESOLUTION NO. BD-032/19

Moved by:

Andre Pommainville

Seconded by:

Jack Hoogenboom

RESOLVED THAT:

The Clean Water Committee receive and file the Project Update: Enhancement of in-land climate

data monitoring in Eastern Ontario.

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**CARRIED** 

## **UPDATE: LOW IMPACT DEVELOPMENT PROJECT**

RESOLUTION NO. BD-033/19

Moved by:

Adrian Wynands

Seconded by:

Lawrence Levere

RESOLVED THAT:

The Clean Water Committee receive and file Update: Low Impact Development Project.

**CARRIED** 

## **VARS-WINCHESTER ESKER WEATHER STATION PROJECT UPDATE**

RESOLUTION NO. BD-034/19

Moved by:

Russell Bennett

Seconded by:

Ray Beauregard

RESOLVED THAT:

The Clean Water Committee receive and file

the Vars-Winchester Esker Weather Station

Project Update.

**CARRIED** 



## NORTH CASTOR CATCHMENT STUDY UPDATE

RESOLUTION NO. BD-035/19

Moved by:

Doug Thompson

Seconded by:

Adrian Wynands

RESOLVED THAT:

The Clean Water Committee receive and file the North Castor Catchment Study Update.

**CARRIED** 

INTERIM REPORT: BMP: OUTREACH AND EDUCATION

RESOLUTION NO. BD-036/19

Moved by:

Andre Pommainville

Seconded by:

Rene Lalonde

**RESOLVED THAT:** 

The Clean Water Committee receive and file

the Interim Report: BMP: Outreach and

Education.

**CARRIED** 

TOURNEE D'INTENDANCE ENVIRONMENTAL AGRI-ACTION ENVIRONMENTAL TOUR

RESOLUTION NO. BD-037/19

Moved by:

Norm Tinkler

Seconded by:

Glenn Mackey

RESOLVED THAT:

The Clean Water Committee receive and file

the Tournee D'Intendance Environmental Agri-

Action Environment Tour.

**CARRIED** 

**UPDATE: ECOACTION BUFFER DEMONSTRATION PROJECT** 

RESOLUTION NO. BD-038/19

Moved by:

Rene Lalonde

Seconded by:

Jack Hoogenboom

RESOLVED THAT:

The Clean Water Committee receive and file

the Update: EcoAction Buffer Demonstration

Project.

**CARRIED** 



# REQUEST FOR APPROVAL: EXTENSION TO PROJECT APPROVAL DEADLINES

RESOLUTION NO. BD-039/19

Moved by:

Ray Beauregard

Seconded by:

Doug Thompson

RESOLVED THAT:

The Clean Water Committee approve extending

the deadlines for the following projects:

Special Project – A Subsurface Flow Constructed Wetland Passive Phosphorus Filter for Goat Milk Wastewater, approved up

to \$6,000.00 for Special Project; Project

deadline extension to November 15th, 2019 and;

**FURTHER THAT:** 

2018-APL-CW05A – Fuel Storage, grant approved at a rate of 50% to a maximum grant of \$1,000.00; Project deadline extension to

November 30, 2019 and;

**FURTHER THAT:** 

**2018-EDW-CW25B** – **Manure Storage,** grant approved at a rate of 50% to a maximum grant of \$8,000.00; Project deadline extension to

June 30, 2020.

**CARRIED** 

The Clean Water Committee meeting recessed at 10:25 a.m.
The Committee Chair reconvened the Clean Water Committee meeting at 10:40 a.m.

## SUMMARY OF CLEAN WATER PROGRAM GRANT APPLICATIONS

Ronda Boutz, Team Lead, Special Projects provided the Committee with an updated summary of the 2019 Clean Water Program Applications for information purposes only.

## **CLEAN WATER PROGRAM PROJECT APPLICATIONS**

The Clean Water Committee reviewed all the 2019 Clean Water Program grant applications on the agenda and rated them accordingly.

RESOLUTION NO. CWC-040/19

Moved by:

Julia Robinson

Seconded by:

Doug Thompson

RESOLVED THAT:

The Clean Water Committee approves funding

to the following projects:



Project Code	Project Type	Grant %	Grant Request	Rating
2019-SDU-CW11	Well Decommissioning	100%	\$1,000.00	25.0
2019-NAT-CW10	Well Decommissioning	100%	\$1,000.00	24.4
2019-NAT-CW15	Well Decommissioning	100%	\$1,000.00	23.2
2019-NAT-CW16A	Well Decommissioning	100%	\$1,000.00	23.1
2019-NDU-CW13A	Manure Storage	50%	\$8,000.00	23.0
2019-APL-CW12B	Well Decommissioning	100%	\$1,000.00	22.8
2019-APL-CW12A	Streambank Erosion	50%	\$5,000.00	22.5
2019-NDU-CW13B	Milkhouse Wastewater	50%	\$5,000.00	21.6
2019-NST-CW14	Well Decommissioning	100%	\$1,000.00	21.6
	Total R	eauested	\$24,000,00	

**FURTHER THAT:** 

The Clean Water Committee placed the following projects on a waiting list and to be reconsidered at a future date if funding becomes available:

Project Code	Project Type	Grant %	Grant Request	Rating
2019-NAT-CW16B	Streambank Erosion	50%	\$5,000.00	20.6
		Total	\$5,000.00	

**CARRIED** 

## ROUNDTABLE: COMMUNITY ENGAGEMENT

Julia Robinson informed the Committee Members that her presentation to the Agriculture and Rural Affairs Committee at the City of Ottawa regarding the Ottawa Rural Clean Water Program was well received.

Committee Chair, Jackie Pemberton encouraged all Committee Members to promote South Nation Conservation at various events they attend.

## **COMMITTEE RECOMMENDATION FOR FRIENDS OF SOUTH NATION**

The Clean Water Committee will continue to forward any recommendations to staff for "Friends of the South Nation".

#### **CORRESPONDENCE**

SNC Media Release



# CONFIRM COMMITTEE REPRESENTATION AT JUNE 20th, 2019 BOARD MEETING

Jacqueline Kelly Pemberton confirmed her attendance to the September 19<sup>th</sup>, 2019 Board of Directors Meeting.

## **NEXT MEETING**

The next Clean Water Committee meeting will be held on November 25<sup>th</sup>, 2019 at 9:00 a.m. at the South Nation Conservation office, Watershed Room.

### **ADJOURNMENT**

RESOLUTION NO. CWC-041/19

Moved by:

Doug Thompson

**RESOLVED THAT:** 

The Clean Water Committee meeting of September 9<sup>th</sup>, 2019 be adjourned at 11:50 a.m.

**CARRIED** 

Jacqueline Kelly-Pemberton, Committee Chair.

Ronda Boutz,

Team Lead, Special Projects.

/lh

# A Subsurface Flow Constructed Wetland and Passive Phosphorus Filter for Goat Milk Wastewater

Final Report Submitted to: South Nation Clean Water Committee

November 15<sup>th</sup>, 2019 Submitted by: Chris Kinsley, Ph.D., P.Eng. Civil Engineering Department, University of Ottawa

## **System Design and Construction**

A subsurface flow constructed wetland system was designed and constructed at the goat milk farm of Mr. Gareau in St. Pascale Baylon, ON during the fall of 2018. The wetland system treats the wash waters from the goat milk operation with approximate daily flows of 800 L/d. The first rinse (which should comprise much of the milk solids) is removed and used to feed the young animals. The system is comprised of a grease trap, septic tank, subsurface flow constructed wetland cell and discharges into a conventional septic field. A photo of the wetland cell is presented below.



Figure 1. Goat Farm Subsurface Wetland Cell

Faculté de génie Faculty of Engineering

**%** 613-562-5682

屬 613-562-5174

★ genie.uOttawa.ca ★ engineering.uOttawa.ca

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The installation of the P-filter was delayed until laboratory-scale testing was completed to enable the proper sizing of the Direct-reduced Iron (DRI) filter. This research was completed this fall and the end of the wetland cell has been excavated to receive the DRI. The DRI has been ordered and we are currently waiting for delivery from the ArcellorMittal steel mill in Contrecoeur, QC.

Additionally, due to the water quality results thus far, it has been decided to add an aeration system at the inlet to the wetland cell to achieve two goals: 1) reduce organic matter (COD, BOD) concentrations to domestic wastewater levels prior to the septic field and 2) reduce total nitrogen concentrations through the convertion of  $NH_4^+$  to  $NO_3^-$  and subsequently to  $N_2(g)$ .

## System Monitoring and Water Quality

System monitoring commenced during Spring of 2019. Grab samples have been collected periodically and analysed for COD, sCOD, TSS, TP, NH<sub>4</sub><sup>+</sup> at the University of Ottawa Environmental Engineering Laboratories. A graduate student has been assigned to continue the monitoring of the wetland system and will continue bi-weekly monitoring for the next 12 months. Water quality results are presented in Table 1.

Table 1 - Water Quality Data (Avg ± Std. Dev.)

Sample Location	TSS	COD		sCOD		TP		NH4+-	N
Grease Trap	230	3832 238	±	2145 1494	<u>±</u>	84.6 7.0	±	30.7 13.6	±
Septic Tank	215	2535 1568	±	1378 583	±	84.2 15.5	±	39.7 21.4	±
Wetland Inlet	198	1496 49	±	1050 617	±	65.8 8.9	±	40.9 19.4	±
Wetland Outlet	61	1251 780	±	1112 577	±	55.7 13.0	±	44.1 11.7	±

#### Solids

Total Suspended Solids (TSS) values were collected once and demonstrate that suspended solids are similar to domestic wastewater strength with the wetland capable of removing 74% through filtration.

#### Organic Matter

Chemical Oxygen Demand (COD) and Soluble Chemical Oxygen Demand (sCOD) were reduced by 67% and 45%, respectively. While this demonstrates significant reductions, the objective is to reduce COD and sCOD to 400 and 200 mg/L, respectively. Therefore, an aeration system has been designed to be installed under the gravel at the beginning of the wetland. The gravel has been excavated, the air blower and air diffusion lines have been purchased and will be installed in the coming week.

#### **Phosphorus**

Total Phosphorus (TP) values are reduced by 34% in the wetland system. The major removal mechanism is likely sedimentation and filtration of colloidal solids. Laboratory tests of DRI media have demonstrated an excellent adsorption capacity of 21 mg P/g DRI, while a column study (conducted at 70 mg P/L to simulate the goat farm effluent) has demonstrated that a hydraulic retention time of 12h is required to achieve 80% P removal. Based on these findings, the DRI filter was sized with a conservative 24-h retention period and is expected to have a lifespan of 5 years. (Qin, 2019)

## <u>Nitrogen</u>

The two forms of nitrogen expected in the goat milk effluent are organic N and NH<sub>4</sub>+. The initial investigation has focused on NH<sub>4</sub>+ as it is expected that organic N will be mostly removed through sedimentation and filtration. As can be seen from Table 1, NH<sub>4</sub>+ increases from 31 to 44 mg NH<sub>4</sub>+ -N/L from the inlet to outlet of the system. This is due to ammonification of organic N to NH<sub>4</sub>+. The addition of an aeration system should be capable of nitrifying ammonia (microbial conversion from NH<sub>4</sub>+ to NO<sub>3</sub>-), with subsequent denitrification to N<sub>2</sub>(g). This will be fully investigated as part of the Master student's research project.

## Continuing Work

This research study will continue with the installation of the DRI filter and the aeration system by the end of November with sample collection continuing for the next 12 months. An updated Final Report and Fact Sheet will be provided to SNC at that time.

#### Reference

Qin, Hongye (2019) <u>Investigation of Direct-Reduced Iron (DRI) as a Phosphorus Retaining Filter Media: Maximum Capacity, Media Rejuvenation and Column Removal Efficiency</u>. M.A.Sc. Thesis (DRAFT Submitted for Defence), University of Ottawa

## **Project Expenses (SNC grant)**

Item	Expense	
mileage, lab supplies, installation costs	\$5454	
University OH	\$546	
Total	\$6,000	

## **Recommendation to SNC Clean Water Committee**

Reimburse the University of Ottawa \$6,000 for Project Expenses. The University will complete the installation of the P filter and aeration system, continue monitoring the system for 1 year and provide a revised Final Report and Technology Fact Sheet to the Clean Water Committee by November 2020.

Yours truly,

Chris Kinsley, Ph.D., P.Eng.

**Assistant Professor** 

cr qci

Civil Engineering Department

University of Ottawa



To:

Clean Water Committee

From:

Ronda Boutz, Team Lead, Special Projects

Date:

November 14, 2019

Subject:

Request for Approval: Eastern Ontario Water Resources Program 2019

Financial Statement - as of October 31, 2019

#### **RECOMMENDATION:**

The Clean Water Committee approve the Eastern Ontario Water Resources Program Financial Statement as of October 31, 2019; and

FURTHER THAT the Clean Water Committee approves carrying-forward the Eastern Ontario Children's Water Festival grant of \$2,031 to the 2020 Budget for allocation upon project completion.

#### DISCUSSION:

The 2019 Eastern Ontario Water Resources Program Financial Statement, as of October 31, 2019, is attached.

The Financial Statement also includes an estimate for funds to be carried to the 2020 Budget for distribution to approved projects as they are completed. Requests for resolutions to carry-over these funds are included in the individual project interim reports within this Agenda. The Eastern Ontario Children's Water Festival funding request was for the 2020 Festival, as such, no interim report in 2019.

## FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

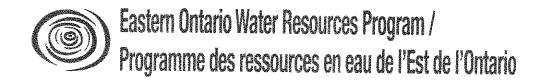
<u>Compliance with Budget</u>: Funding for the Eastern Ontario Water Resources Program is included in the 2019 Budget under Science and Research: Stewardship: Water on pages 24-25.

<u>SNC Policy Adherence</u>: 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: 2019 Financial Statement - as of October 31, 2019



## 2019 Financial Statement - as of October 31st, 2019

Revenue:

United Counties of Prescott-Russell City of Ottawa Carry-over of unspent 2017 dollars \$25,000.00 \$50,000.00 \$52,392

**TOTAL REVENUE** 

\$127,392

	penses:	2019 Budget	Expenses as of Oct. 31, 2019	Forecast Oct.31 – Dec. 31, 2019	Estimated Carry-over to 2020 Budget <sup>6</sup>
1.	EOWRP Project Management <sup>1</sup>	\$4,590	\$2,687	\$1,903	\$0
2.	EOWRP Committee <sup>2</sup>	\$1,265	\$606	\$659	\$0
3.	2018 EOWRP Special Projects <sup>3</sup>		<u> </u>		
	a) UCPR: Stormwater Management Project	\$6,607	\$6,607	\$0	\$0
	b) North Castor Catchment Study	\$19,427	\$19,427	\$0	\$0
	c) Low Impact Development Project	\$21,000	\$0	\$1,461	\$19,539
	d) BMP Outreach and Education	\$4,092	\$0	\$4,092	\$0
4.	2019 EOWRP Special Projects⁴		·	, ,	
	a) UCPR: Floodplain Mapping	\$25,000	\$0	\$25,000	\$0
	b) North Castor Catchment Study –     additional deliverables	\$20,320	\$0	\$3,820	\$16,500
5.	2019 EOWRP Projects <sup>5</sup>				
	a) Eastern Ontario Children's Water Festival	\$2,031	\$0	\$0	\$2,031
	b) Vars-esker weather station and data collection platform	\$8,801	\$0	\$8,801	\$0
	Development of groundwater/surface     water interaction constraint mapping	\$7,109	\$0	\$2,109	\$5,000
	d) Enhancement of in-land climate data monitoring in Eastern Ontario	\$3,047	\$0	\$3,047	\$0
	<ul> <li>e) Tournee d'intendance environmentale Agri-Action environmental stewardship tour</li> </ul>	\$4,103	\$0	\$4,103	\$0
	TOTAL	\$127,392	\$29,327	\$54,995	\$43,070

South Nati on 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 2019 EOWRP contribution.

<sup>2</sup> EOWRP funding from previous year surplus to support meeting expenses for appointed EOWRP members on the Clean Water Committee. Surplus funds at year end are carried forward to the next year's budget for Committee support.

<sup>4</sup> EOWRP Special Projects in 2019 identified by the EOWRP funding contributor.

<sup>6</sup> Funding to be carried forward to the 2020 Budget, with a resolution from the Clean Water Committee, to be paid to the approved EOWRP grant projects.

<sup>&</sup>lt;sup>3</sup> EOWRP Special Projects identified by the EOWRP funding contributor, approved in 2018 and to be completed in 2019, funds carried forward to respective projects in 2019 budget for payment.

<sup>&</sup>lt;sup>5</sup> City of Ottawa earmarked \$25,000 of their \$50,000 2019 contribution for grants to be allocated through a grant proposal submission. Projects reviewed and approved at the June 10, 2019 meeting.



To:

Clean Water Committee

From:

Phil Barnes, Project Manager

Date:

November 8, 2019

Subject:

Project Update: Enhancement of in-land climate data monitoring in

Eastern Ontario

#### RECOMMENDATION:

The Clean Water Committee receive and file the project update.

#### DISCUSSION:

The Clean Water Committee approved \$3,047.00 in funding under the Eastern Ontario Water Resources Program for the proposed project: "Enhancement of in-land climate data monitoring in Eastern Ontario". The funding is approved until June 30, 2020.

The project will be undertaken by the Raisin Region Conservation Authority and will involve the installation of real-time rain gauge and telemetry at Loch Garry in North Glengarry.

The equipment related to the project has been ordered and arrived at the RRCA last month. We will be installing the equipment on site shortly. The RRCA has incurred invoices in the amount of \$3,048.74 from the equipment supplier.

Phil Barnes, P.Eng.

Project Manager

Raisin Region Conservation Authority



To:

Clean Water Committee

From:

Jason Symington, Environmental Technologist

Date:

November 11, 2019

Subject:

Update: Low Impact Development Project

#### RECOMMENDATION:

The Clean Water Committee approve expenditures of approximately \$1,461 for the Larose LID Demonstration Site in 2019;

AND FURTHER THAT: The Committee approve to carry forward remaining funds of approximately \$19,539 to the 2020 budget for project completion.

#### **DISCUSSION:**

The City of Ottawa contributed \$50,000 to the Eastern Ontario Water Resources Program (EOWRP) in 2018 for Special Projects. Based on discussions with the City, \$21,000 of this contribution was allocated to complete a Low Impact Development (LID) project.

SNC staff approached the United Counties of Prescott and Russell (UCPR) and a site has been chosen at one of the parking areas within Larose Forest.

SNC staff used in 2019 funds to create a conceptual design plan for UCPR to use for budgeting purposes to implement the proposed project. The remaining funds will be used in 2020 to support a detailed design. The LID project will include various LID components such as permeable parking areas, bioswales and bioretention. The design will provide information regarding excavation depths, construction materials, filter medium and potential plant types as well as provide estimated Total Suspended Solids and Total Phosphorus removal rates.

To date, \$1,461 has been spent in 2019 and it is recommended to carry forward \$19,539 to 2020.

## FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

<u>Compliance with Budget:</u> This project was not included in the 2019 Budget however it will be 100% cost recovery.

SNC Policy Adherence: Expenses related to this project adhered to SNC's Purchasing Policy

Jason Symington,

**Environmental Technologist** 



To:

Clean Water Committee

From:

Katherine Watson, Water Resources Specialist

Date:

November 12, 2019

Subject:

Vars-Winchester Esker Weather Station Project Update

#### RECOMMENDATION:

The Clean Water Committee approve the final report and expenditures of \$8,801 for the Vars-Winchester Esker Weather Station Project in 2019.

#### DISCUSSION:

SNC was successful in receiving \$8,801 EOWRP funds for the installation of a continuous, real-time data collection platform and weather station north of Vars, ON. Additional funds are budgeted in SNC's Water Resources Program.

This station improves both the Flood Forecasting and Warning Program and the Groundwater Monitoring Program by filling in known data gaps for precipitation and groundwater quantity and quality in the Vars-Winchester Esker. Having timely reliable climate information on the occurrence and severity of extreme precipitation events is essential to reducing the impacts of floods and droughts in Ottawa and Eastern Ontario.

A Landowner Agreement was completed for the project and the weather station and telemetry equipment was purchased from Forest Technology Services (FTS). Installation has been initiated at the site and will be complete by month-end. Once complete data will automatically be captured in SNC's Water Integration System.

Staff will bring a photo and update of the completed weather station to the next Clean Water Committee meeting.

## FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

<u>Compliance with Budget</u>: EOWRP \$8,801; remaining funds approved in 2019 Budget, Page No. 14, Resource Management – Water, and in deferred funds related to expenses for SNC esker wells.

<u>SNC Policy Adherence</u>: Purchasing Policy, Page No. 4, Section E, Non-Competitive Purchasing; Board of Directors must approve any Non-Competitive purchasing over \$10,000; when it is necessary to ensure compatibility with existing products. All field work will follow SNC's Health and Safety Policies.

Katherine Watson

Water Resources Specialist



To:

Clean Water Committee

From:

Katherine Watson, Water Resources Specialist

Date:

November 12, 2019

Subject:

GW-SW Interaction Constraint Mapping Study Update

#### RECOMMENDATION:

The Committee approve expenditures of approximately \$2,109 for the Groundwater-Surface Water Interaction Constraint Mapping Project;

AND FURTHER THAT: The Committee approve to carry forward remaining funds of approximately \$5,000 to the 2020 budget for project completion;

#### DISCUSSION:

A recommendation in the 2018 North Castor Catchment Study report was to investigate methodologies for identifying important groundwater-surface water interactions throughout the study area.

An Eastern Ontario Water Resources Program grant was obtained for a modelling exercise throughout the South Nation watershed using SNC's HydroGeosphere model and a TecPlot Program for the delineation of groundwater seepage areas in watercourses. The grant also included a field validation exercise using different methodologies: Radon-222, thermal imagery, and a YSI Sonde Unit (changes in temperature and conductivity). Field validations were completed in the North Castor River in August 2019.

All field work has been completed related to the project. Staff will prepare a final report that delineates the potential groundwater/surface water interactions across the South Nation River watershed using output from TecPlot. Methodologies for field validations will be evaluated and recommendations for future groundwater seepage identification will be presented in the report. The final report will be provided to the Clean Water Committee in spring 2020.

## FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

<u>Compliance with Budget</u>: North Castor Catchment Study included in the 2019 Budget under Approval: Projects: Subwatershed Studies, page 80-81.

Groundwater-Surface Water Constraints Mapping Project: EOWRP: \$7,109.

SNC Policy Adherence: All purchases will follow the SNC Purchasing Policy for purchases \$200 up to \$5,000. All field work will follow SNC's Health and Safety Policies.

Katherine Watson

Water Resources Specialist



To:

Clean Water Committee

From:

Katherine Watson, Water Resources Specialist

Date:

November 12, 2019

Subject:

North Castor Catchment Study Update

#### RECOMMENDATION:

Clean Water Committee approve expenditures of approximately \$3,820 for the North Castor River Catchment Study in 2019;

AND FURTHER THAT: The Committee approve to carry forward remaining funds of approximately \$16,500 to the 2020 budget for project completion;

#### **DISCUSSION:**

South Nation Conservation has undertaken several monitoring initiatives in 2018 and 2019 to assess the condition of the North Castor River. Funding is provided under the Eastern Ontario Water Resources Program as a special project with the City of Ottawa.

This study includes the collection of baseline surface water quantity and quality data to support City of Ottawa subwatershed reporting initiatives, and recommendations for best management practices to protect and enhance water resources in the North Castor River catchment. Data collected as part of this study includes:

- Headwater drainage features
- Baseflow
- Water quality
- Biological communities benthic invertebrates and fish
- Radon-222 and thermal assessments

All field work has been completed related to the North Castor Catchment Study. Staff will analyze data, compare assessments to historical subwatershed studies, and compile all findings in a final report to be provided to the City of Ottawa. This report will be presented to the Clean Water Committee in spring 2020.

## FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget: North Castor Catchment Study included in the 2019 Budget under Approval: Projects: Subwatershed Studies, page 80-81.

SNC Policy Adherence: All purchases will follow the SNC Purchasing Policy for purchases \$200 up to \$5,000. All field work will follow SNC's Health and Safety Policies.

Katherine Watson

Water Resources Specialist



To:

Clean Water Committee

From:

Ronda Boutz, Team Lead, Special Projects

Date:

November 14, 2019

Subject:

Interim Report: BMP: Outreach and Education

#### RECOMMENDATION:

Clean Water Committee approve the final report and 2019 expenditures, of \$4,092, for the BMP: Outreach and Education project.

#### **DISCUSSION:**

As part of the City of Ottawa's 2018 contribution to the Eastern Ontario Water Resources Program, \$4,592 was earmarked to undertake education and outreach of best management practices (BMP) promoted through the Ottawa Rural Clean Water Program.

In 2018, \$500 of this funding was used to add French subtitles to the Stoodley Buffer Demonstration video.

In 2019, a new video on the operation of Control Tile Drainage (CTD) structures was produced with the remaining \$4,092. SNC partnered with Agriculture and Agri-Food Canada (AAFC) and a local farmer (Marc Laflèche) to produce the video that will compliment the Ontario Soil and Crop Improvement Association's 2018 video which promotes the use of CTD. The video expands on how CTD structures operate and highlights the benefits of drainage management.

The video will be in English with French subtitles and posted on SNC's YouTube channel and shared through social media by end of 2019. Staff will debut the English video at the Committee meeting.

As the video and editing was produced in-house by SNC, EOWRP funding supported the staff time to complete this project.

## FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget: Eastern Ontario Water Resources Project funding is included in the 2019 Budget under Science and Research: Stewardship: Water on pages 24-25.

SNC Policy Adherence: N/A

Ronda Boutz,

Team Lead, Special Projects.



To:

Eastern Ontario Water Resource Program

From:

Brendan Jacobs, ALUS Ontario-East Coordinator

Date:

November 15, 2019

Subject:

Agri-Action Environmental Stewardship Tour - Final Report

ALUS Ontario East, along with local partners, hosted a bilingual Agri-Action environmental stewardship tour on October 8, 2019 (between 09:15 – 15:00) to view local farm demonstration projects. Lunch and refreshments were also provided to tour participants.

ALUS Ontario East is a chapter of ALUS Canada who invests in farmers and ranchers producing acres of clean air, clean water, wildlife habitat and other ecosystem services in communities across Canada. ALUS works with farmers and local partners to establish projects that best suit their farming operation.

The tour showcased five farm demonstration sites in Stormont, Dundas and Glengarry and Prescott and Russell (e.g. wetland enhancement/creation, buffers/setbacks, erosion control, tree planting, wildlife corridors, and more). Project participation in the ALUS program is voluntary and ALUS participants receive an annual payment per acre in exchange for managing and maintaining the projects on their land. During the tour, additional funding opportunities were discussed, such as local tree planting subsidies administered by the South Nation and Raisin Region Conservation Authorities.

#### Deliverables:

One full day bilingual tour with lunch and refreshments provided	Complete
One full day bilingual tour with lunch and refreshments provided Goal of 50 participants	Complete
Bilingual participant info package with description of tour stops and program materials	Complete
Advertisements in local news papers, press release (bilingual), municipal memo (bilingual)	Complete
Guest speaker	Complete
ALUS Ontario East program brochure and banner	In- Progress
Demonstration farm gate signs	In- Progress

Budget: Total Budget \$8,000 EOWRP Funding Submission \$6,000 EOWRP Funding Approval \$4,013

Expenses	Total Cost	EOWRP
Coach Bus	\$1,356.00	\$1,356.00
Hall Rental	\$166.11	\$0.00
Catering & Refreshments	\$1,895.67	\$1,895.67
Advertisements	\$559.79	\$559.79
Vehicle	\$402.29	51.75
Communication Materials & Services (Cost of photographer, brochure, banner, signage not included)	\$558.77	\$149.79
Total	\$4,938.63	\$4,013.00

Recommendation to EOWRP Committee: That the Committee approve the final report and 2019 expenditures for the Agri-Action Environmental Stewardship Tour

Grant Request \$ 243.00

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7. Additional Information		
Please refer to the Project Guidelines for eligibility, Program requirements, and the Program staff	r your proposed project and application review process.	and the Program Guide for additional information on project cess. Copies of these documents will be provided to you by
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**ALFONS BOSCH** 



2525 Concession 1, Lefaivre On K0B 1J0 Tel. 613 679 4819 / Cell: 613 306 51 30

Lefaivre, October 5, 2019

## **INVOICE**

Gravel pad for fuel tank 4 safety posts

\$ 750.00

HST 13 %\_ \$ 97.50

TOTAL \$847.50

PAYABLE WITHIN 30 DAYS

HST # R108452319

paid Oback # 301 6 oct 2019



To:

Clean Water Committee

From:

Ronda Boutz, Team Lead, Special Projects

Date:

November 14, 2019

Subject:

Request for Approval: 2018 Clean Water Program Grant Funds

#### RECOMMENDATION:

The Clean Water Committee approves the reallocation of any surplus 2018 Clean Committee Program grant funds to the 2019 Clean Water Program for 2019 applications as per the approval rating criteria.

#### **DISCUSSION:**

At 2018 year-end, a total of \$62,309 in approved grants was carried forward for disbursement in 2019. As per the Clean Water Program guidelines, approved projects have approximately twelve months from approval date to complete their projects.

Seven 2018 approved projects did not proceed, and one project was paid at a lower amount than originally approved, an amount of \$13,722 is available for reallocation to other eligible projects on the waiting list as per the approved rating criteria.

A resolution is required to reallocate any surplus funding from this 2018 carry-forward to the 2019 Clean Water Program waiting list.

## FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

<u>Compliance with Budget</u>: No impact on the 2019 budget, this funding was carried forward from 2018 budget for allocation to approved projects.

Adherence to SNC Policy: Allocation of Grants adheres to SNC's Purchasing Policy.

Ronda Boutz

Team Lead, Special Projects.

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To:

Clean Water Committee

From:

Lorie Henderson, Administrative Assistant

Date:

November 9, 2019

Subject:

Request for Approval: 2020 Clean Water Committee Meeting Schedule

#### RECOMMENDATION:

The Clean Water Committee approves the 2020 Committee meeting schedule as presented.

#### DISCUSSION:

As per the Standing Committee Terms of Reference, all Standing Committees will meet at least 4 times per year, with one of these meetings being a Joint Meeting of all Standing Committees.

Staff recommend the following meeting schedule for 2020:

- March 5<sup>th</sup> (Clean Water Committee at 9:00 a.m. and Joint Standing Committees meeting at 1:00 p.m.)
- June 8<sup>th</sup>
- September 14<sup>th</sup>
- November 23<sup>rd</sup>

Meetings will be at 9:00 a.m. at the SNC office unless otherwise stated in the Agenda package. Meeting location will be indicated on the Agenda package.

The Standing Committee Terms of Reference allows for additional meetings to be called if there is 75% concurrence of the Committee at which there is quorum.

### FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

<u>Compliance with Budget</u>: Committee expenses for the Clean Water Committee will be included in the 2020 Draft SNC Budget to an upset limit of \$7,500/Committee.

<u>SNC Policy Adherence</u>: The Clean Water Committee membership and meeting schedule adheres to the SNC By-laws and SNC Standing Committee Terms of Reference.

Lorie Henderson,

Administrative Assistant