

KAWARTHA CONSERVATION

Budget 2018

Overview of Special Project Capital and Municipal Specific Initiatives

Presented to the
City of Kawartha Lakes



Table of Contents

Executive Summary	3
Conservation Authority Mandate.....	4
City of Kawartha Lakes Special Projects Proposal	6
Lake Management Plans.....	7
Lake Management Plan Implementation.....	10
Flood Plain Mapping.....	16
City of Kawartha Lakes Service Agreements and Other.....	20
City of Kawartha Lakes – Risk Management Official Services	21
City of Kawartha Lakes Municipal Drain Report Update	23
Administration Building Loan Repayment	24
General Benefiting.....	26
Digitization of Corporate Records	27
Digital Imagery Project	27

Executive Summary

Kawartha Conservation is a watershed-based, non-profit organization established in 1979 by the municipalities within our watershed under the Ontario Conservation Authorities Act. We are one of 36 conservation authorities operating in Ontario and a member of Conservation Ontario.

Balancing environmental capacity and human need, we manage natural resource features that are essential for sustaining water quality and quantity, through watershed planning, stewardship, environmental monitoring and research, and management of conservation and natural areas.

Our programs and services are focused within the natural boundaries of the Kawartha watershed, which extend from Lake Scugog in the southwest and Pigeon Lake in the east, to Balsam Lake in the northwest and Crystal Lake in the northeast – a total of 2,563 square kilometres.

These natural boundaries overlap the six municipalities that govern Kawartha Conservation through representation on our Board of Directors. Our municipal partners include the City of Kawartha Lakes, the Township of Scugog, the Township of Brock, the Municipality of Clarington, the Municipality of Trent Lakes, and the Township of Cavan Monaghan.

Conservation Authority Mandate

Conservation Authorities, created in 1946 by an Act of the Provincial Legislature, are mandated to ensure the conservation, restoration and responsible management of Ontario's water, land and natural habitats through programs that balance human, environmental and economic needs.

Objectives

- ensure that Ontario's rivers, lakes and streams are properly safeguarded, managed and restored;
- protect, manage and restore Ontario's woodlands, wetlands and natural habitat;
- develop and maintain programs that will protect life and property from natural hazards such as flooding and erosion;
- provide opportunities for the public to enjoy, learn from and respect Ontario's natural environment.

Protect, manage and restore Ontario's woodlands, wetlands and natural habitat

Because what we do on land is reflected in our water and land ecosystems, Conservation Authorities develop programs that protect natural resources and promote watershed stewardship practices that lead to healthy, sustainable communities and industries.

Ensure that Ontario's rivers, lakes and streams are properly safeguarded, managed and restored

Conservation Authorities protect, restore and effectively manage impacts on Ontario's water resources. Conservation Authorities also provide advice and counsel to a wide variety of agencies, landowners, businesses, and all levels of government on the responsible management of water.

Develop and maintain programs that will protect life and property from natural hazards such as flooding and erosion

Conservation Authorities work in partnership with municipalities to protect life and property through the development of programs and services that minimize or prevent the impact of natural disasters such as flooding and erosion.

Provide opportunities for the public to enjoy, learn from and respect Ontario's natural environment

Through the lands they manage and own, as well as the educational programs they deliver, Conservation Authorities provide opportunities for people to understand and appreciate the value of their natural environment as well as the social and economic benefits of protecting that environment.

This 2018 budget submission meets both the mandate of Kawartha Conservation and the current, ongoing and future needs of the City and its communities identified through the strategic plans of both organizations. A 5-year 2018-2022 projection will be provided in our 2018 budget.

This document focuses on municipal spending projects and initiatives as described below under the headings Special Projects and Service Agreements.

City of Kawartha Lakes Special Projects Proposal

Population levels throughout the Kawartha watershed will continue to rise, and with that comes an increase demand for programs and services that are provided by Kawartha Conservation.

The essential work to support the Kawartha Watershed and the City of Kawartha Lakes infrastructure, people, lake and rivers can be found in three special project areas:

1. Lake Management Plans
2. Lake Management Plan Implementation
3. Flood Plain Mapping

Lake Management Plans

2018, Year 9 of 9

Purpose

Lake Management Planning for large and significant lakes within the City of Kawartha Lakes is a key strategic priority for the municipality, given their economic and environmental significance. 2018 is the final year of a multi-year project and several Lake Plans have been completed and endorsed (Sturgeon, Balsam and Cameron, Canal and Mitchell), or nearing completion (Pigeon, Four Mile, Head and Shadow).

Science-based, lake management planning is fundamental to understanding the pressures on our lakes and determining priorities for management activities. Supported and endorsed by both municipal councils and the science community, these lake plans have facilitated over \$830,000 in direct funding from external sources for plan implementation, with in-kind support valued at over \$220,000 across the watershed since 2005.

Background and detail

The planning process involves lake and watershed studies, in conjunction with strategic partnerships across all areas of interest to facilitate plan development, with recommendations and priorities for implementation. Comprehensive monitoring of water quality, water quantity, shoreline inventory, and biotic parameters has been undertaken over three years for each lake, their surrounding watersheds and their tributaries.

Each plan involves contributions from volunteers, lake associations, First Nations, and a wide range of agencies, colleges and universities. Program governance consists of three committees; a Community Advisory Panel, Science and Technical Committee, and an Executive Liaison Group.

Project objectives

- Implement and maintain - for the study duration, ending in 2017 - comprehensive water quality and water quantity sampling networks for each lake to provide a scientific basis to identify current and potential threats/stressors, hotspots, evaluate trends and key management issues, and identify options for priority actions.
- Provide a current and baseline scientific basis to support and inform municipal Official Plan documents and by-laws within the City of Kawartha Lakes.
- Design and implement management activities to maintain or achieve Provincial Water Quality Objectives for all lake tributaries and the lakes, as well to reduce beach closures and create greater confidence in the lake health in general.

- Protect and improve water quality for all uses, including as a source of water for domestic uses.
- Foster community participation in the project and understanding of the Kawartha Lakes, their natural and historic heritage, and human impacts.
- Develop and coordinate the necessary partnerships for effective collaboration on all aspects of the planning process and plan implementation.
- Promote a greater dialogue and understanding of issues, conflicting needs, visions and resource uses.
- Identify specific items for ongoing monitoring advanced university research, such as quantifying phosphorus input from the near shore zone; identifying specific sources of E.coli; considering impacts of climate change and invasive species.

Deliverables:

- Finalize the Lake Plans and Technical Background Reports for the following lakes: Pigeon, Four Mile, Head, Shadow, through stakeholder and municipal endorsement.
- Files to be harmonized into one uniform, uploadable format. Kawartha Conservation has purchased a license agreement for a data management tool (WISKI), and will input eight years of data into this centralized, easily accessed data base, greatly improving efficiencies in quality control and quality assurance of data. The management tool will also allow for improved data sharing opportunities with municipal partners, agencies and post secondary institutions.
- Summarize into one document the key technical information for each lake, thereby identifying major threats and management priorities. This single report will be a resource for municipal planners and other lake stakeholders, providing the basis for policy and planning decisions.
- Host meetings of three key lake plan implementation advisory groups: Community Advisory Panel, Science and Technical Committee, and Executive Liaison Group.
- Meet directly, on a routine basis, with lake associations and others stakeholders to ensure their priorities and expectations for their lake are met.
- Identify the economic impact contributions of a healthy lake environment.

Budget Proposed for 2018

Advisory Committees in-kind	\$20,400
City of Kawartha Lakes support requested	
	\$68,000

Overall value of project \$88,400

Funded by:

City of Kawartha Lakes \$ 68,000

Five Year Outlook

This is the last year of this benchmark project to characterize and outline recommendations for each of the Kawartha Lakes.

The Lake Scugog Management Plan was completed in 2010 and will be due for an update in future years.

Lake Management Plan Implementation

This proposal is respectfully submitted and intended to be responsive to the City of Kawartha Lakes Council's concerns for budget containment and a collaborative approach into the future for the implementation of the recommendations from the Kawartha Lakes Management Plans. We believe this proposal is a responsible submission that ensures program continuity, enables external grants and donations to be realized, enables our uniquely skilled core staff expertise to be retained to carry on the program and other important environmental work on behalf of the city, and allows adequate time for the City and Kawartha Conservation to come together in 2018 to discuss the future scope, model of delivery, and cost of the program.

Projects are designed to implement several site specific activities outlined in the approved lake management plans, continue monitoring to tell us how we are doing, and address critical data gaps necessary to further determine priority stewardship opportunities to improve water quality in our lakes and streams.

This proposal does not include Communications and Outreach activities such as the Blue Canoe, Youth Education programs, and Strategic Planning initiatives, which are identified in the Lake Management Plans as major implementation themes.

We recognize for this program to be successful, it will require a number of partners to take hold of the recommendations and implement initiatives identified. These projects are aligned to enable partnership development and initiate plan implementation and activities identified as within our scope of influence, demonstrating to the community and stakeholders the need to put the Lake Management Plans into action.

Stewardship

Informed management of shoreline, urban and rural private properties is a necessity if we are to achieve long term lake health and watershed sustainability. These projects will demonstrate good landscape practices on highly visible properties around the lakes, and provide landowners and property managers with the technical support required for this to become normal practice.

A municipal allocation is requested to provide staff support as well as a certain level of actual project funding to enable the leverage of special project funds from a variety of potential funding partners, such as the Ontario Ministry of Agriculture, Food and Rural Affairs; Ministry of Natural Resources and Forestry, Species at Risk, Ministry of Environment and Climate Change, Fisheries and Ocean's Canada as well as community volunteers.

Enabling Best Management Practices on Agricultural Lands

Science based lake management plans leveraged over \$300,000 from the Ontario Ministries of Agriculture, Food and Rural Affairs, Natural Resources and Forestry, and Environment and Climate Change over three years, ending in March 2018. Over \$250,000 has been allocated to CKL farmers to support environmental improvement projects on their properties, with farm business owners contributing a minimum of 25% of the total project cost. These funds in turn support local businesses through the purchase of supplies and services. Municipal investment will be leveraged with provincial funding to provide ongoing support for agricultural stewardship projects.

OMAFRA	\$35,000
MNRF – LSHRP	12,000
ECC – Environmental Damages	10,000
Landowner Contributions (cash and in-kind)	12,500
City of Kawartha Lakes support requested	\$22,900

Overall value of project \$92,400

Beach Improvement and Promoting Naturalized Shorelines

Developing a culture of shoreline property management suitable for lake health and maintenance of water quality requires an attitudinal shift that evolves over time. In the past few years, we have worked with municipal staff to utilize CKL waterfront properties as demonstration areas, developed solid relationships with local associations and key community residents, and stimulated a range of ‘innovators’ within the shoreline community.

This project involves planning and implementation support for naturalization of municipal properties, collaborating with real estate professionals and the CKL Environmental Advisory Committee to provide information packages to new shoreline owners, and provides ongoing technical support for community partners and individual landowners.

In 2018 we propose a municipal demonstration site at the Centennial Beach site on Cameron Lake. While this was the site of some restoration in 2016, monitoring has indicated that the project needs some additional attention and management to ensure its success. Staff and volunteers will build upon the existing work by adding more mature plant stock and enhancing the restriction of Canada Geese along the community beach site.

TD Friends of the Environment	\$2,000
Great Lakes Guardian community Fund	6,000
Community Volunteers In kind	1,800
City of Kawartha Lakes support requested	\$21,400

Overall value of project \$31,200

Managing Urban and Lake Community Storm Water and Seasonal Runoff

The BlueScape program promotes and demonstrates low impact development features, emphasizing runoff management and water conservation for urban landscapes. This includes a wide range of lot level activities (e.g. rain barrels, downspout disconnection, rain gardens), urban runoff landscaping, demonstration sites, landowner workshops, managing/replenishing urban forests and enhancing their resistance to climate change, and outreach to school groups and urban residents. Working with granting foundations, a demonstration site at the Omemee beach is being proposed to address the invasive phragmites plant along the shoreline. This plan will also address community concerns about water access, and manage runoff from the parking lot into the river.

TD Friends of the Environment	\$2,500
Great Lakes Guardian Community Fund	2,000
Community Volunteer Planting day	600
City of Kawartha Lakes support requested	\$20,400

Overall value of project \$25,500

Urban and Rural Infrastructure

Improving Erosion and Sediment Control Practices

Sustainable, ongoing development is a priority for local municipalities. The movement of sediments from construction/development sites to local watercourses has significant long-term impacts, including filling in shallow shorelines, smothering fish habitat, increased aquatic

vegetative growth, water pollution, and poor aesthetics. Establishing effective erosion and sediment control management is a priority recommendation in all Lake, Watershed, and Stormwater Management Plans. Sediment and erosion control planning and staff expertise is critical to ensuring long-term health of our lakes and rivers when developing or improving properties or public works.

Effective erosion and sediment control planning involves collaboration between municipalities, contractors, conservation authorities, and other construction partners and reduces construction delays while protecting the local environment. The purpose of this project is to develop local expertise within our development community and organize multi-partner technology and training opportunities focused on sediment and erosion controls, permit basics and application processes; shoreline works; sediment and erosion controls; greening construction.

Fisheries and Oceans Canada has expressed interest in providing support for this project by supporting development of technical expertise and working with Fleming College for applicable curriculum development.

City of Kawartha Lakes support requested	\$25,000	Overall value of project \$25,000
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Research and Monitoring

With the Kawartha Lakes increasingly a destination of choice for retirees and visitors from the GTA, the impacts of pressures from cumulative development and other factors (e.g. invasive species, climate change, emerging contaminants) must be determined and managed. Accurate information pertaining to shoreline, urban and rural private properties is a necessity for the design of effective stewardship activities and planning policies to maintain long-term lake health and watershed sustainability.

Watershed planning and ongoing, priority monitoring provides the most comprehensive, current water quality information for the Kawartha Lakes and their tributaries, while establishing situation benchmarks for each lake. This allows us to determine lake responses to the various factors impacting our lakes.

Near Shore Sampling Program

The '*nearshore area*' is a transition zone being directly influenced by shoreline factors (urban and shoreline community development, septics and human waste management, agriculture, and specific shoreline alteration), as well as watershed inputs. The primary data gap that exists in each

of the completed Lake Management Plans is the lack of comprehensive near shore water quality data (chemical and biological). The data collected in near shore areas can act as an early warning indicator for the lakes and identify “problem areas” or “hot spots” of degraded water quality and threats to human and animal health. Our Near Shore Sampling program works with Citizen Scientists to help collect data on a regular basis. Engaging the community will build understanding of water quality issues and encourage stewardship program uptake.

Citizen Scientist in-kind contribution	\$15,000
University of Ontario Institute of Technology	\$7,000
City of Kawartha Lakes support requested	\$36,300

Overall value of project \$58,300

Bond Street Beach Assessment Project, Fenelon Falls

Bond Street Beach is a significant public beach experiencing frequent postings due to high E. coli concentrations. The need to provide safe recreational swimming opportunities is essential to community health and the health of our tourism industry. This project will attempt to determine the point source for the E. coli via sampling a transect beginning upstream of the beach including both water and sand samples. Additional investigation into the water and wind currents will assist in identifying the dynamics of E. coli within this river channel beach ecosystem. This sampling regime will be specifically focused on identifying sources rather than just presence of E-coli and is designed to complement the weekly Health Department’s sampling. This project is in partnership with the Haliburton, Kawartha, Pine Ridge District Health Unit.

Haliburton, Kawartha, Pine Ridge Health Unit in-kind	\$22,000
City of Kawartha Lakes support requested	\$19,600

Overall value of project \$41,600

Lake management plans identified high priority lake tributaries that consistently input high nutrient and sediment concentrations, with plans recommending the identification of specific point sources for these inputs. This activity will undertake comprehensive water quality sampling and flow volume measurements on these tributaries to identify specific sites and causes of water quality degradation. Decreasing nutrient and sediment loading into lakes will improve localized water quality in addition to overall lake health – i.e. maintaining high water quality, property values, aesthetics and recreational opportunities, combined with less degradation of fish spawning sites due to sedimentation.

City of Kawartha Lakes support requested	\$20,000
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Overall value of project \$20,000

SUMMARY	Project Value	Grants and Other	City of Kawartha Lakes Funding
Stewardship	\$149,100	\$84,4000	\$64,700
<ul style="list-style-type: none"> • BMP on Agricultural Lands • Promoting Naturalized Shorelines • BlueScape Program 			
Urban and Rural Infrastructure	\$25,000		\$25,000
<ul style="list-style-type: none"> • Erosion & Sediment Control 			
Research and Monitoring	\$119,900	\$44,000	\$75,900
<ul style="list-style-type: none"> • Near Shore Sampling Project • Identification of E-coli Sources • Determining Point Source Contamination 			
Total Lake Management Plan Implementation	\$294,000	\$128,400	\$165,600

Flood Plain Mapping

Purpose

Kawartha Conservation proposes to continue floodplain mapping for 10 priority flood prone sub-watersheds in the City of Kawartha Lakes, to assist in planning future growth and development, and inform the City's Emergency Management Plans.

Project Background and Detail

One of the most effective ways to avoid damage to property and to ensure personal safety during a flooding event is by taking preventative measures to ensure floodplains, or portions of floodplains, are maintained in their natural state, and to proactively manage land use and development to protect the integrity and functionality of floodplains along with the benefits they provide, such as flood storage capacity, conveyance of stormwater runoff, minimizing non-point source water pollution, etc. Changes in land use, intensification of development/infrastructure, and changes in climate patterns (e.g. intensity/frequency of precipitation events) can have a significant impact on floodplain characteristics and their functionality in mitigating flooding hazards.

Up-to-date floodplain mapping for the regulatory flood standard is important to municipalities in planning future growth and development in settlement areas, and is especially important in planning for flood emergencies.

Floodplains in the City of Kawartha Lakes are currently being managed using a one-zone approach that prohibits development within the entire floodplain. In most cases, the floodplain mapping for the Regional or 1 in 100 year flood event is nonexistent or out-of-date. While the City has initiated several studies recently in the context of advancing future development and infrastructure planning in Lindsay, most updating is done on a site by site basis by the development industry when advancing new development applications; however, this is inefficient and costly, and can result in delays in approvals.

The protection of property and public safety from the threat of flooding hazards is a provincial land use policy requirement under the Provincial Policy Statement, and, accordingly, flood hazards (floodplains) must be protected from the adverse impacts of development in municipal land use documents.

Benefits

- **Land Use/ development planning** – Prevent flood damage for future development.
- **Emergency management planning** – Identify flood hazard and high-risk areas (public safety and at risk private and public property assets).

Components of the Floodplain Mapping Study

1. Identification of priorities for floodplain mapping sub-watersheds that are at risk or prone to flooding or have had historical record of flooding and their existing and potential for development.
2. Establishment of a Technical Committee comprised of representatives from City of Kawartha Lakes, Kawartha Conservation and a Technical Advisor from Ganaraska Conservation Authority to guide the mapping studies
3. Development of a Peer Review process and Terms of Reference
4. Collection of floodplain elevation data for flood damage sub-watersheds through the use of digital elevation model based on LiDAR mapping
5. On the ground surveys to verify the accuracy of the digital elevation model, collect watercourse sectional profiles and measure man-made infrastructure (culverts, bridges, etc.)
6. Hydrologic and Hydraulic Modeling to generate the 1-zone (and 2-zone where applicable) in the Regional or 1 in 100 year flood event
7. GIS production of maps for floodplains.

Project Timeline

The multi-year project commenced in 2012, with the Conservation Authority assisting the City in preparing specifications and an RFP for the procurement of LiDAR, for the 10 flood damage centres. To date 4 of the 10 projects have completed which includes Ops #1 Drain /Jennings Creek, Sinister Creek, Fenelon Falls North Tributary and Omemee East Tributary. Up to date flood plain mapping, flood lines and engineer reports were created for each of these studies.

The team contributed to the City of Kawartha Lakes' National Disaster Mitigation Program funding application for floodplain mapping in the Burnt River (Fall 2016 Start) and Mariposa (Fall 2017 Start) study area (50% matched funding by City of Kawartha Lakes) and received \$133,000 (Burnt River) and \$92,000 (Mariposa).

More recently, in 2017, Dunsford Creek and Bobcaygeon Tributary are projected to be completed by end of 2017. The majority of Burt River flood plain mapping study will be completed in 2017 and

finalized in 2018. Mariposa Brook is to be started fall of 2017. The team just submitted for NDMP funding for Fenelon Falls South and McLarens Creek and are awaiting news on successful applications early 2018.

Looking Forward (2018-2020): Complete Burnt River flood plain mapping early 2018. A majority of Mariposa Brook - Little Britain, McLarens Creek, and Fenelon Falls South undertaken in 2018 and set to be completed in 2019.

Project Management: The project is being managed in-house by Kawartha Conservation staff. The main engineering lead will be via Ganaraska Region Conservation Authority. The project is also guided by a Technical Committee consisting of representatives from the City of Kawartha Lakes, Kawartha Conservation, Ganaraska Region Conservation Authority, and Ministry of Transportation, as necessary. All methodologies and final outcomes are evaluated by an independent peer review.

Committee in-kind	\$4,300
NDMP Funding	69,000
City of Kawartha Lakes Support Requested	\$173,500

Overall value of project \$246,800

KAWARTHA CONSERVATION

Budget 2018

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City of Kawartha Lakes

MUNICIPAL AGREEMENTS



City of Kawartha Lakes Service Agreements and Other

The City of Kawartha Lakes and Kawartha Conservation have an existing Memorandum of Understanding with respect to Part IV Enforcement of the Clean Water Act and anticipate another agreement to undertake and update the Municipal Drain Classification report.

Both of these are funded through Municipal budgets and departments outside of Kawartha Conservation's special project levy request.

The Risk Management Official, Clean Water Act, Part IV Enforcement is funded through the City's Department of Public Works while costs associated with the Municipal Drain Classification MOU are funded through the City's legal department, under the CAO.

The Admin Building project was a General Benefitting project which was completed in December 2013. The cost were shared between all municipal partners based on the apportionment percentages. The CKL requested to pay their share, \$263,975, over a 5 year period. An amount of \$60,000 is advanced each year to meet the debt repayment obligations on the mortgage against our property.

City of Kawartha Lakes – Risk Management Official Services

Clean Water Act, Part IV, Enforcement

Purpose

Help implement a multi-barrier approach to strengthen the protection of municipal drinking water sources, by implementation of source protection plan policies requiring a risk management official (RMO) as per the Clean Water Act. A Source Protection Plan is based on threats assessments of groundwater and surface water quality on a site specific and watershed scale. Activities support the City of Kawartha Lakes specifically in implementation of plan policies requiring a risk management plan and providing information for planning/building applications for development where the activity or land use could impact upon municipal drinking water supplies. The Trent Source Protection Plan was approved in 2014 with an effective implementation date of January 2015.

Benefits

Source Protection Plans were developed by Source Protection Committee (SPC) representatives composed of one-third municipal representatives, and the other two-thirds composed of local stakeholders in the economic sectors (agriculture, industry and commerce) and environmental, rural and urban property owners. Plan policies are designed in the best interests of a community, and are required to be implemented for the long-term protection of safe and healthy drinking water sources. Risk Management Plans and developing the land in a suitable way will be required surrounding water supply system. This is a proactive method of ensuring contamination risks are reduced and expensive clean-up costs can be averted.

Deliverables

This project to date has involved the establishment of a risk management office and the development of plans with landowners designed to eliminate risks to municipal water supply systems, as delegated by the City of Kawartha Lakes through agreement. Policies and procedures have been developed to guide implementation activities. Activities in 2018 will continue to focus on the negotiation and establishment of risk management plans, issuing notices to proceed with an activity under the Planning Act and Building Code Act and reporting.

Risk Management Plans have been prioritized to focus on agricultural and residential fuel oil and must be developed within 5 years. A total of approximately 125 risk management plans will need to be negotiated with landowners, which will address approximately 200 threats to community drinking water supply systems. Risk management plans ensure that activities that pose a potential threat to municipal drinking water supply systems are adequately managed, such as by

improvements to infrastructure, changes in process and handling of chemicals and ensuring spill containment measures are in place. Activities of the Risk Management Official are guided by a Project Oversight Committee comprising public works staff and staff at Kawartha Conservation.

Proposed Budget 2018

Project Cost	\$115,500
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Funded by:

City of Kawartha Lakes **2018**

Public Works Department \$115,500

Outlook

This project through agreement with the City of Kawartha Lakes is an ongoing project that addresses the mandatory municipal responsibilities outlined in the Clean Water Act. It is anticipated that this agreement will continue and resourcing will be revisited on an annual basis to address the needs of the program.

City of Kawartha Lakes Municipal Drain Report Update

Background

Municipal agricultural drains are a part of the City of Kawartha Lakes rural infrastructure and require routine maintenance to ensure effective drainage of agricultural production areas. Maintenance activities are undertaken within regulated features, particularly watercourses (with fish habitat) and wetlands, with fish habitat downstream from permitted work activities at risk due to insufficient sedimentation safeguards. In the early 2000's, CKL partnered with KRCA and DFO to undertake a drain classification project whereby all drains were field sampled and characterized to streamline the approval process for maintenance works.

More than 15 years have passed and there have been several changes to managing municipal drains through this period, including: the construction of new drains, changes in the sensitivity of watercourses and wetlands, changes in land use policies, changes to the classification process, increased tile drainage, among others. Given that CKL places a priority on undertaking timely municipal drainage works, an update to the classification project is needed to expedite the approval process.

This is proposed as a 1-year project that requires an integrated effort among Kawartha Conservation technical and planning staff, and collaboration with drainage-related and planning staff at the municipality.

Deliverables

- Project report and data files summarizing reclassification of 55 drains within CKL.
- Field sampling of 160 sites along drains that were previously sampled in 2002.
- Classification of several new drains constructed since 2002.
- A standardized protocol to streamline the drain maintenance approval process.
- Integration and sharing of drain data, and records including engineering reports between CKL and KC.
- Ongoing coordination between CKL drain staff and Kawartha Conservation technical and planning staff.

Municipal Support

Project Cost	\$75,000
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Funded by:

City of Kawartha Lakes, Legal Division

Administration Building Loan Repayment

The Admin Building project was a General Benefitting project which was completed in December 2013. The cost was shared between all municipal partners based on the apportionment percentages. The CKL requested to pay their share, \$263,975, over a 5 year period. We secured a mortgage on our property for the amount owing by the CKL in the amount of \$263,975 on behalf of the City.

The City of Kawartha Lakes advances to us \$60,000 to make the mortgage payments that total just over \$57,000 annually. We apply the excess funds each year against the mortgage as an annual “anniversary payment” to reduce interest costs.

There are 60 mortgage payments which started in May, 2014. Kawartha Conservation’s final mortgage payment will be April 2019. When the City advances to us the \$60,000 in the 2018 budget, the amount is prepaid for the period May 2018 to April 2019. Your payments to us are be complete in your 2018 budget year.

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PROPOSED GENERAL BENEFITING



General Benefiting

General benefiting projects are approved by the Kawartha Conservation Board of Directors for initiatives that will be of benefit to all member municipalities with the watershed.

The costs of the projects are apportioned to the respective member municipalities.

There are three projects that fit this category in 2018, which will be discussed by the Kawartha Conservation Board of Directors in their budget deliberations.

The following highlights the proposed projects that will be the focus of discussion.

- Digitization of Corporate Records
- Digital Imagery Project
- Development of New Corporate Website

Digitization of Corporate Records

Document conversion is the process of converting paper documents into digital format. As technology improves more and more companies are moving to paperless offices to preserve these documents. Benefits of shifting to digitized documents will allow for easy storage, retrieval, updating and how we access and transport information. This project will support an independent contractor digitizing all corporate records over a five year period. In conjunction with our Information Management System the digitization of these hard copy files will help contribute to faster processing of planning applications and can provide both parties with instant copies of important documents.

	2018
Total Project Cost	\$15,000
City of Kawartha Lakes support requested	\$9,000

Outlook: Project will be completed over a five year period to 2022.

Digital Imagery Project

The Digital Imagery Acquisition project for South Central Ontario (SCOOP) will provide Kawartha Conservation high resolution, leaf off, multi-spectral imagery flown in spring of 2018 that is accurate to approximately 50cm “on the ground” resolution. Kawartha Conservation will look to acquire approximately 4900 square kilometres of imagery that includes the entire of City of Kawartha Lakes and the portion of Municipality of Trent Lakes that falls within our watershed boundary. Digital Imagery products are used daily in our business, including operating programs (in all management department areas and in past capital projects, such as Ecological Land Classification and generic regulations. This product will also be useful for drinking source water protection purposes. This project will be divided over 2018/2019.

	2018
Total Project Cost	\$15,000
City of Kawartha Lakes support requested	\$12,000

Outlook: Anticipated cost for 2019 are \$10,000 with a City of Kawartha Lakes contribution of \$8,000.

Development of New Corporate Website

Much like the City of Kawartha Lakes recent migration to a new user-friendly, modern, efficient and effective municipal website, this project will permit Kawartha Conservation to undertake municipal, community and staff consultation to build the framework for a new user-friendly corporate website with two priority focuses: 1. Put an upfront focus on planning and permitting, so customers are able to quickly, easily and efficiently find the information they need, download appropriate documents, pay for fees online, etc., and 2. Promote Kawartha Conservation's conservation areas and natural areas as an economic development and tourism initiative to support the overall goals of the City of Kawartha Lakes tourism and development initiatives. Research has shown that communities with ample greenspace, conservation areas, and trail systems create a much higher quality of life for residents and visitors; the proposed new site would support the City's efforts to attract those individuals, families and businesses that are seeking that quality of life.

	2018
Total Project Cost	\$5,000
City of Kawartha Lakes support requested	\$3,000

Outlook: Funds in 2018 of \$5,000 represent the initiation of the multi-year project with an anticipated requirement of \$36,000 split between 2019 and 2020 to complete the project.