

# 2021 Budget

**Information for Member Municipalities**



**KAWARTHA  
CONSERVATION**

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# Vision

A sustainable watershed with clean and abundant water and natural resources assured for future generations.

# Governance

The municipalities within the boundaries of the watershed govern Kawartha Conservation through a Board of Directors comprised of nine representatives. Directors are responsible for making decisions as a collective working for the benefit of the whole watershed. They act as liaisons between their municipalities and Kawartha Conservation.

## 2021 Board of Directors

### CHAIR

Andy Letham  
City of Kawartha Lakes

### VICE CHAIR

Deborah Kiezebrink  
Township of Scugog, Region of Durham

### DIRECTORS

Kathleen Seymour-Fagan  
City of Kawartha Lakes

Pat Dunn  
City of Kawartha Lakes

Ted Smith  
Township of Brock, Region of Durham

Ron Hooper  
Municipality of Clarington, Region of Durham

Angus Ross  
Township of Scugog, Region of Durham

Cathy Moore  
Township of Cavan Monaghan

Ron Windover  
Municipality of Trent Lakes



## Member Municipalities

- City of Kawartha Lakes
- Region of Durham
  - Township of Scugog
  - Municipality of Clarington
  - Township of Brock
- Municipality of Trent Lakes
- Township of Cavan Monaghan



**OUR STRATEGIC GOALS**

-   
**Protect**
-   
**Conserve & Restore**
-   
**Discover**

**OUR STRATEGIC ENABLERS**

-   
**Optimize Service**
-   
**Connect & Collaborate**

**Protect**

Keep people, property, and communities safe from natural hazards such as flooding and erosion.

**Conserve & Restore**

Conserve and restore a healthy resilient environment.

**Discover**

Develop greater scientific knowledge of the watershed that advances decision making.

**Connect & Collaborate**

Engage our watershed partners to foster relationships.

**Optimize Service**

Focus on customer and business service excellence and optimize performance.

# KAWARTHA CONSERVATION

**2021**

January 21, 2021



## 2021 Budget

The 2021 Operating and Special Projects Budget is developed and reviewed in detail by our Board of Directors, and it was approved for circulation to our municipal partners for comments.

The 2021 operating expenditure budget is organized into business units and each department is intended to reflect all associated costs.

The operating levy is shared by the municipal partners based on an apportionment percentage supplied to us by the Ministry of Natural Resources and Forestry.

The projects budget is organized by General Benefiting Projects and Special Benefiting Projects.

The municipal levy for General Benefiting Projects is shared by the municipal partners based on the same apportionment percentage as the operating levy.

Special Benefiting Projects are funded by the benefiting municipality/municipalities.

Durham East Cross Forest Conservation Area is an operating program funded solely by the Region of Durham Special Operating Levy.

## 2021 Budget

### Municipal Levy – Summary

	2021 Levy					Approved 2020	Levy Increase (Decrease)
	Operating	Special Operating	General Projects	Special Projects	Total Municipal Levy	Total Municipal Levy	
City of Kawartha Lakes	\$ 963,171	\$ -	\$ 20,900	\$ 307,700	\$ 1,291,771	\$ 1,465,438	\$ (173,667)
Region of Durham	575,055	104,200	12,478	167,600	859,333	839,555	19,778
Municipality of Trent Lakes	68,749	-	1,492	-	70,241	69,578	663
Township of Cavan Monaghan	6,025	-	130	-	6,155	5,709	446
Total	\$ 1,613,000	\$ 104,200	\$ 35,000	\$ 475,300	\$ 2,227,500	\$ 2,380,280	\$ (152,780)

## Municipal Operating Levy

The Operating Levy is shared by the municipal partners based on apportionment percentages supplied to us by the Ministry of Natural Resources and Forestry. The apportionment percentage is based on current value assessment (CVA) information generated by MPAC. Individual municipal increases vary due to changes in the CVA apportionment year over year.

	2020 Apportionment Percentage	2021 Apportionment Percentage	2020 Operating Levy	2021 Operating Levy	Increase (Decrease)	% Increase (Decrease)
City of Kawartha Lakes	59.9204%	59.7131%	\$ 942,966	\$ 963,171	\$ 20,205	2.14%
Region of Durham	35.3997	35.6513	557,085	575,055	17,970	3.23%
Municipality of Trent Lakes	4.3251	4.2622	68,064	68,749	685	1.01%
Township of Cavan Monaghan	0.3549	0.3735	5,585	6,025	440	7.87%
Total	100%	100%	\$ 1,573,700	\$ 1,613,000	\$ 39,300	

## Municipal Projects Levy

Projects are developed to implement priorities within our Strategic Plan and in response to municipal priorities. The projects address strategic plan directions and issues identified by our board of directors, municipal leaders, senior municipal staff, and community stakeholders. We use municipal funds to leverage grant opportunities whenever possible.

## General Benefiting Projects

General Benefiting projects have a watershed wide benefit and the levy is shared by the municipal partners on the same apportionment percentage as the operating levy. Projects for 2021 include Drinking Water Source Protection (fully funded), website redesign and digitization of corporate records.

Summary of General Benefiting Projects:	2020 Approved General Benefiting Levy	2021 General Benefiting Levy
City of Kawartha Lakes	\$ 20,972	\$ 20,900
Region of Durham	12,390	12,478
Municipality of Trent Lakes	1,514	1,492
Township of Cavan Monaghan	124	130
	\$ 35,000	\$ 35,000

## Special Benefiting

Special Benefiting projects are designed to meet the needs or concerns of a specific municipality and thus directly benefit the individual municipality. The benefiting municipality funds the projects. Projects for 2021 continue our work to implement the Lake Management Plans, Watershed Plans and initiate updates to our watershed plans in the Region of Durham.

Summary of Special Benefiting Projects:	2020 Approved Special Benefiting Levy	2021 Special Benefiting Levy
City of Kawartha Lakes	\$ 501,200	\$ 307,700
Region of Durham	168,000	167,600
Municipality of Trent Lakes	-	-
Township of Cavan Monaghan	-	-
	\$ 669,200	\$ 475,300



## Budget Process

On January 21, 2021 the Board of Directors approved that the 2021 Draft Budget be circulated to our member municipalities for a 30 day commenting period. The Board of Directors weighted vote on the budget and associated municipal Operating and General Projects levy was completed on March 25, 2021.

## Budget Vote

Directors of the Board voted on the budget and levy using a weighted vote based on the Current Value Assessment levy apportionment formula.

The provincial regulation governing the weighted vote does not permit an individual municipality to have a weighted vote in excess of 50% of the weighting unless that municipality has more than 50% of the members on the Board of Directors. A weighted majority of 51% carries the vote.

The weighted vote is distributed amongst Directors as follows:

### City of Kawartha Lakes

1st of 3 representatives	16.6667%
2nd of 3 representatives	16.6667%
3rd of 3 representatives	16.6666%

### Region of Durham

1st of 4 representatives	11.0617%
2nd of 4 representatives	11.0617%
3rd of 4 representatives	11.0617%
4th of 4 representatives	11.0617%

### Municipality of Trent Lakes

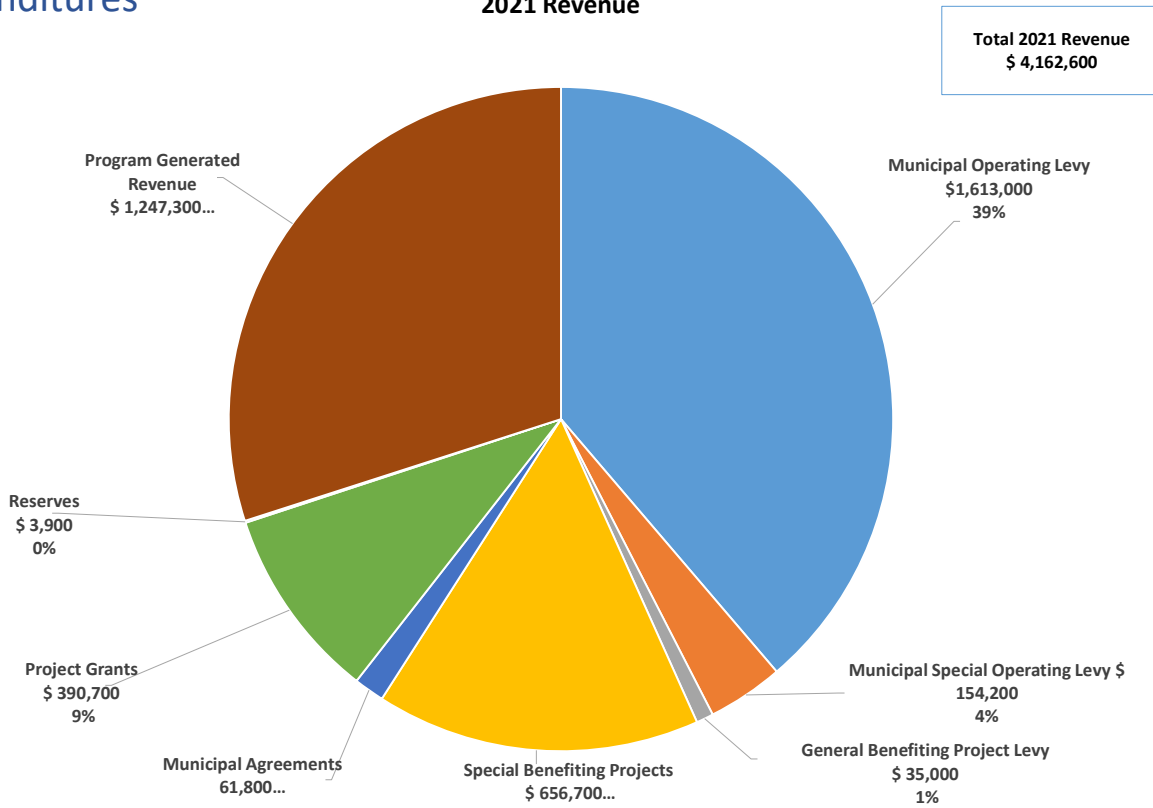
1 representative	5.2898%
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### Township of Cavan Monaghan

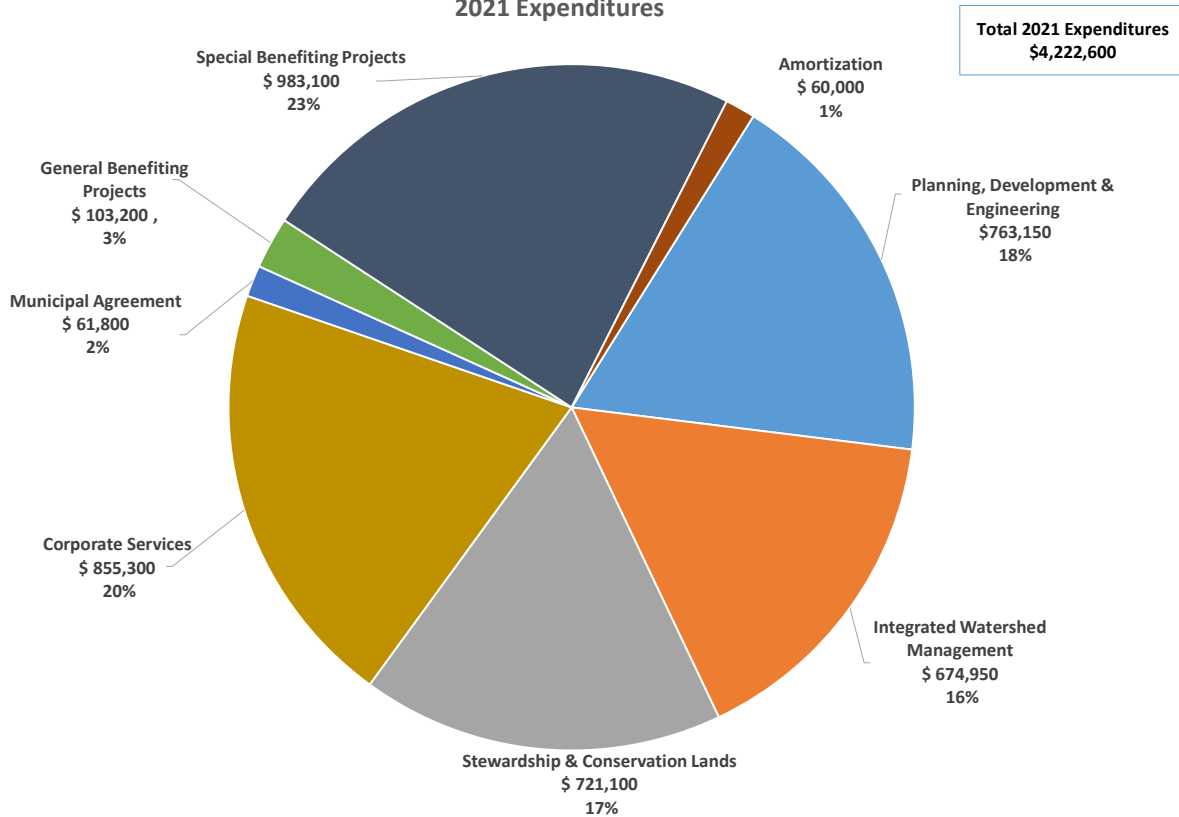
1 representative	0.4635%
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# Sources of Revenue and Expenditures

## 2021 Revenue



## 2021 Expenditures



**KAWARTHA CONSERVATION  
2021 Budget**

**STATEMENT OF REVENUE AND EXPENDITURES**

	Audited Actual 2019	Budget 2020	Budget 2021	Variance to 2020 Budget
<b>REVENUE</b>				
<b>Municipal levy</b>				
Operating	\$ 1,573,700	\$ 1,573,700	\$ 1,613,000	\$ 39,300
Region of Durham-Durham East Cross Forest CA	96,635	119,300	154,200	34,900
General benefiting projects	26,391	35,000	35,000	-
Special benefiting projects	656,018	682,000	656,700	(25,300)
	<u>2,352,744</u>	<u>2,410,000</u>	<u>2,458,900</u>	<u>48,900</u>
<b>Municipal Agreements</b>				
CKL, Risk Management Official, Clean Water Act	43,895	61,800	61,800	-
CKL, Agricultural Drain Classification	15,191	-	-	-
	<u>59,086</u>	<u>61,800</u>	<u>61,800</u>	<u>-</u>
<b>Program Generated Revenue</b>				
Planning and Permitting fees	391,812	429,800	505,000	75,200
Intergrated Watershed Management	56,210	36,900	75,400	38,500
Stewardship and Conservation Lands	316,612	172,200	325,200	153,000
Corporate Services	37,443	23,000	15,000	(8,000)
Special Projects management	367,583	317,050	326,700	9,650
	<u>1,169,660</u>	<u>978,950</u>	<u>1,247,300</u>	<u>268,350</u>
<b>Special Projects</b>				
Drinking Water Source Protection	61,035	68,200	68,200	-
Grants, Durham special projects	59,697	55,000	145,750	90,750
Grants, CKL special projects	72,476	140,300	180,650	40,350
	<u>193,208</u>	<u>263,500</u>	<u>394,600</u>	<u>131,100</u>
<b>Other</b>				
Amortization of deferred captial contribution	28,324	-	-	-
	<u>28,324</u>	<u>-</u>	<u>-</u>	<u>-</u>
<b>TOTAL REVENUE</b>	<b>\$ 3,803,022</b>	<b>\$ 3,714,250</b>	<b>\$ 4,162,600</b>	<b>\$ 448,350</b>
<b>EXPENDITURES</b>				
<b>Operations</b>				
Planning, Development & Engineering	\$ 541,509	\$ 725,600	\$ 763,150	37,550
Intergrated Watershed Management	633,451	622,100	674,950	52,850
Stewardship and Conservation Lands	719,995	576,950	721,100	144,150
Corporate Services	760,805	747,300	855,300	108,000
Amortization of tangible capital assets	70,840	60,000	60,000	-
Vehicle pool	(25,524)	(25,000)	(25,000)	-
	<u>2,701,076</u>	<u>2,706,950</u>	<u>3,049,500</u>	<u>342,550</u>
<b>Projects</b>				
General Benefiting, Drinking Water Source Protection	49,999	68,200	68,200	-
General Benefiting	26,391	35,000	35,000	-
Special Benefiting	781,870	877,300	983,100	105,800
	<u>858,260</u>	<u>980,500</u>	<u>1,086,300</u>	<u>105,800</u>
<b>Municipal Agreements</b>				
CKL Risk Management Official	44,243	61,800	61,800	-
CKL Agricultural Drain Classification	20,307	-	-	-
	<u>64,550</u>	<u>61,800</u>	<u>61,800</u>	<u>-</u>
<b>TOTAL EXPENDITURES</b>	<b>\$ 3,623,886</b>	<b>\$ 3,749,250</b>	<b>\$ 4,197,600</b>	<b>\$ 448,350</b>
<b>Net Surplus (Deficit) from operations</b>	<b>\$ 179,136</b>	<b>\$ (35,000)</b>	<b>\$ (35,000)</b>	<b>\$ 0</b>

## Planning, Development and Engineering

### Planning

Planning helps to protect properties against the loss of life, property damage and social disruption, and encourages the responsible management and protection of environmentally sensitive areas for future generations, while ensuring compliance with provincial legislation at the local level.

Conservation Authorities have been delegated the responsibility of commenting on behalf of the Province of Ontario on planning matters related to natural hazards (Section 3.1 of the Provincial Policy Statement, 2020). In addition, Conservation Authorities provide plan review advice with respect to the health of watersheds including the management of water and natural heritage resources.

### Permitting

Permitting through the Conservation Authority ensures public safety and protection of property from damage caused by natural hazards, protects watershed health by preventing pollution and damage to sensitive environmental areas such as wetland, shorelines, and watercourses, and promotes long term sustainability of the watershed.

Kawartha Conservation administers the Section 28 Regulation of the Conservation Authorities Act. Ontario Regulation 182/06, the regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses regulates development in relation to river and stream valleys, steep slopes, watercourses, floodplains, and wetlands, plus the respective allowances that are associated with each feature.

### Enforcement

Conservation staff are responsible for regular monitoring of development activities impacting on natural regulated features, following up on public and municipal complaints regarding any potential violations and obtaining regulatory compliance through compliance agreements or judicial methods as pertains to Section 28 of the Conservation Authorities Act and associated specific Ontario Regulation 182/06.

**KAWARTHA CONSERVATION  
2021 Operating Budget**

**PLANNING, DEVELOPMENT AND ENGINEERING**

	<b>Audited</b>			
	<b>Actual 2019</b>	<b>Budget 2020</b>	<b>Budget 2021</b>	<b>Variance to 2020 Budget</b>
<b>Sources of Revenue</b>				
Municipal operating levy	\$ 234,481	\$ 295,800	\$ 258,150	\$ (37,650)
Planning and permitting fees	353,263	315,000	340,000	25,000
Large scale fill permits	28,455	100,000	100,000	-
Municipal agreement, RMO	6,403	14,800	15,000	200
MOU, flood plain mapping	-	-	50,000	50,000
Employment grant	3,691	-	-	-
	<b>\$ 626,293</b>	<b>\$ 725,600</b>	<b>\$ 763,150</b>	<b>\$ 37,550</b>

**PLANNING/PERMITTING**

<b>Expenditures</b>				
Direct labour	\$ 378,934	\$ 565,900	\$ 599,800	\$ 33,900
Overhead	42,968	42,300	50,900	8,600
Legal	(7,725)	15,000	5,000	(10,000)
Consulting	88,795	22,000	7,000	(15,000)
Fill permit compliance costs	11,443	60,000	60,000	-
IMS Records management	-	-	10,000	10,000
Flood plain mapping services	-	-	10,950	10,950
Supplies & equipment	12,220	12,100	11,500	(600)
Professional development	2,122	2,500	2,500	-
Travel	5,198	5,800	5,500	(300)
	<b>\$ 541,509</b>	<b>\$ 725,600</b>	<b>\$ 763,150</b>	<b>\$ 37,550</b>

## Municipal Agreement, City of Kawartha Lakes Risk Management Official Clean Water Act, Part IV, Enforcement

### Purpose

Source Water Protection 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 surrounding water supply systems in a suitable way is required. This is a proactive method of ensuring contamination risks are reduced and expensive clean-up costs can be averted.

### Benefits

A Source Protection Plan helps municipalities save money by creating and implementing a multi-barrier approach to strengthen the protection of municipal drinking water sources. By implementing source protection plan policies requiring a risk management official (RMO), as per the Clean Water Act, threat assessments of groundwater and surface water quality and quantity on a site specific and watershed scale are determined and monitored. These plans and activities directly 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.

### 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 2021 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. Risk management plans need to be negotiated with landowners and tenants, which will address 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 comprised of public works staff and staff at Kawartha Conservation.

**KAWARTHA CONSERVATION  
2021 Municipal Agreement Budget**

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**City of Kawartha Lakes  
Risk Management Official  
CLEAN WATER ACT, PART IV, ENFORCEMENT**

	Budget 2020	Budget 2021	Variance to 2020 Budget
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**Sources of Revenue**

City of Kawartha Lakes, service agreement	\$ 61,800	\$ 61,800	\$ -
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**Expenditures**

Direct labour	\$ 41,000	\$ 39,900	\$ (1,100)
In-house expertise	10,700	11,000	300
Supplies	2,400	2,400	-
Technology and data management	500	1,500	1,000
Travel	3,100	3,000	(100)
Administration fee	4,100	4,000	(100)
	<b>\$ 61,800</b>	<b>\$ 61,800</b>	<b>\$ -</b>

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*Note:*

*This budget is funded through a municipal agreement  
and is not considered a part of the municipal general operating levy*

## Integrated Watershed Management

### Environmental Information Services

Environmental Information Services help property owners, builders, developers, real estate professionals and municipal partners make information and timely resource management decisions that benefit their actions, and which impact our watershed. This program area provides support to many of our programs and projects by managing data in a spatial context and developing maps for various internal and external requirements.

### Environmental Monitoring Services

We maintain a core watershed monitoring network, including water quality and quantity for both surface and ground water. This enables us to identify issues requiring attention early on, while gauging the effectiveness of current planning practices. Collaboration and the pooling of resources assist with the coordination of program delivery and is key to planning and permitting functions, while combining expertise and experience to ensure consistency and cost efficiency. We partner with provincial ministries, such as the Ministry of the Environment, Conservation & Parks, Ministry of Natural Resources and Forestry, local volunteer groups, Fleming College, Ontario Technical University, Trent University, local high schools and agencies such as the Greenbelt Golden Horseshoe Conservation Authority Collaborative – a grouping of 12 Conservation authorities.

During 2021 we will be initiating our ‘Seniors Citizen Science Climate Action Group’ Project that covers our entire jurisdiction and focuses on the shorelines of our lakes. We were successful in obtaining \$17.5k in funding in 2020 from Employment and Social Development Canada’s ‘New Horizon’s for Seniors Program. With agreement from the funder this money was deferred until 2021. This funding will be used to purchase climate monitoring equipment to measure air and water temperature and precipitation levels across our watershed helping to action ours and our municipal partners climate strategies.

### Flood & Water Level Monitoring

Our flood contingency and flood response plans, daily monitoring of water levels and precipitation, assessment of potential flood threats, communication with municipalities and the community, and participation in municipal flood response activities helps support and protect the people and property across the watershed.

Flood forecasting and warning is a fundamental responsibility delegated to conservation authorities by the Province since 1984. We fulfill this duty by monitoring the water level, precipitation, and watershed conditions.

Close collaboration and partnership with federal (Ontario Waterways – Trent Severn Waterway, Environment and Climate Change Canada), and provincial (MNRF, Ontario Hydro) agencies and partner conservation authorities allow for accurate forecast and reliable information which is put in context of the local watershed and provided to the community when flooding concerns are warranted.



**KAWARTHA CONSERVATION  
2021 Operating Budget**

**INTEGRATED WATERSHED MANAGEMENT**

	<b>Audited</b>			
	<b>Actual 2019</b>	<b>Budget 2020</b>	<b>Budget 2021</b>	<b>Variance to 2020 Budget</b>
<b>Sources of Revenue</b>				
Municipal operating levy	\$ 434,656	\$ 487,071	\$ 599,550	\$ 14,350
Special Projects Management	101,527	-	\$ -	-
MNRF transfer payment	18,480	-	24,600	24,600
Low water response	10,850	-	-	-
Technical Services fees	11,447	3,000	8,000	5,000
Innovation Hub	14,636	25,000	25,000	-
Employment grants	479	8,900	-	(8,900)
Climate Change grant	-	-	17,500	17,500
Other grants	318	-	300	300
	<b>\$ 592,393</b>	<b>\$ 523,971</b>	<b>\$ 674,950</b>	<b>\$ 52,850</b>

**Expenditures**

**INTEGRATED WATERSHED MANAGEMENT**

Direct labour	\$ 512,782	\$ 503,800	\$ 524,900	\$ 21,100
Seasonal labour	18,849	17,800	11,500	(6,300)
Overhead	42,968	42,100	61,100	19,000
Supplies & equipment	15,973	19,450	23,100	3,650
Technology and data management	12,004	13,900	12,800	(1,100)
Professional development	2,520	3,600	4,200	600
Travel	4,064	3,550	2,850	(700)
Oak Ridges Moraine Alliance	2,500	2,500	2,500	-
Stream gauge utilities, maintenance	436	2,400	1,000	(1,400)
Ontario Low Water Response	10,684	-	500	500
Surface water monitoring	3,770	5,500	5,500	-
Groundwater monitoring	6,901	7,500	7,500	-
Climate Change program	-	-	17,500	17,500
	<b>\$ 633,451</b>	<b>\$ 622,100</b>	<b>\$ 674,950</b>	<b>\$ 52,850</b>

## Stewardship and Conservation Lands

### Conservation Areas

Kawartha Conservation owns and manages over 1,300 hectares of natural areas including Ken Reid Conservation Area, Durham East Cross Forest, Pigeon River Headwaters, Windy Ridge / Tuckerman property, Fleetwood Creek Natural Area, Dewey's Island, Nogies Creek, and South Bay Wetlands. Visitors to our Conservation Areas include the general public, schools, special interest groups, and tourists. With an estimated 30,000 visits per year, our Conservation areas provide opportunities to relax, discover the natural world, and enjoy the many health benefits of being in nature. This program strives to provide a safe and meaningful way for our community to access quality green spaces.

During the pandemic we have seen a dramatic increase in the number of people visiting our conservation areas. In a year over year comparison of on-line searches for our conservation areas between August and December we have seen an increase of 48% in searches, translating to 556,411 searches resulting in just under 10,000 requests for directions. This surge in popularity demonstrates the demand for green spaces during a time of social isolation. Our properties offer safe opportunities to get active, get outside, and physically distance from friends and family. In the first 7 days of January, the popularity continues with over 21,000 searches and 469 requests for directions.

Our conservation lands also provide sites to compensate for species or habitat disruption as a result of development activity to restore these vulnerable habitats in our conservation properties, and by providing expert advice and support for private land restoration projects. This program is initiated by provincial requirements and generates revenue for other programming, improves habitat across Conservation and private lands, and builds relationships between the development industry and the Conservation Authority.

### Stewardship

As a result of the pandemic, the Stewardship department has reworked the implementation of our programs as projects linked to the implementation of our Lake and Watershed Management Plans. As a result, these budgets can be found in the Special Benefiting programs of the budget document.

### Education

Due to the uncertainty of the Pandemic and the impacts that it will have on schools, this program area is currently on hold for 2021. If community-based programs move forward, they will do so as a cost recovery program and have a net zero impact on the operating budget.

**KAWARTHA CONSERVATION  
2021 Operating Budget**

**STEWARDSHIP AND CONSERVATION LANDS**

	<b>Audited Actual 2019</b>	<b>Budget 2020</b>	<b>Budget 2021</b>	<b>Variance to 2020 Budget</b>
<b>SOURCES OF REVENUE</b>				
Municipal operating levy	\$ 301,836	\$ 285,451	\$ 241,700	(43,751)
Municipal funds, Region of Durham	70,502	119,300	154,200	34,900
	<u>372,338</u>	<u>404,751</u>	<u>395,900</u>	<u>(8,851)</u>
<b>Restoration Management</b>				
Habitat Compensation projects, cost recovery	88,458	9,000	105,000	96,000
Project management fees Habitat Compensation	11,196	-	67,100	67,100
	<u>99,654</u>	<u>9,000</u>	<u>172,100</u>	<u>163,100</u>
<b>Conservation Areas</b>				
Conservation Area Employment grants	26,909	10,600	-	(10,600)
Conservation Areas User fees	3,276	4,500	2,500	(2,000)
Conservation Areas Parking fees	20,893	30,000	32,000	2,000
Conservation Area Agricultural rent	11,513	12,000	12,000	-
Reserve funds, Windy Ridge	-	3,900	3,900	-
Fleetwood Creek cost recovery	7,371	8,300	8,300	-
Property management fees Fleetwood Creek	7,055	6,800	6,800	-
Property management fees East Cross Forest	48,137	52,100	87,600	35,500
Special Events	9,817	-	-	-
Employment grants and Other	1,370	-	-	-
	<u>136,341</u>	<u>128,200</u>	<u>153,100</u>	<u>24,900</u>
<b>Stewardship</b>	<u>39,214</u>	<u>-</u>	<u>-</u>	<u>-</u>
<b>Education</b>	<u>41,402</u>	<u>35,000</u>	<u>-</u>	<u>(35,000)</u>
	<u><b>\$ 688,950</b></u>	<u><b>\$ 576,951</b></u>	<u><b>\$ 721,100</b></u>	<u><b>\$ 144,149</b></u>
<b>Expenditures</b>				
Direct labour	\$ 382,009	\$ 292,200	\$ 291,400	(800)
Seasonal labour	51,596	39,400	36,800	(2,600)
Overhead	48,443	37,600	40,700	3,100
Professional development	2,680	1,500	1,500	-
Contractors and consultants	2,491	-	-	-
Supplies, brochures and publications	12,845	10,200	7,200	(3,000)
Cost of product sales	18,932	-	-	-
Travel	2,062	1,000	900	(100)
Special events	8,841	-	-	-
Ken Reid Conservation Area	50,999	49,300	60,000	10,700
Pigeon River Headwaters Conservation Area	2,662	10,000	10,150	150
Windy Ridge Conservation Area	3,434	3,900	4,250	350
Fleetwood Creek Natural Area	7,743	8,300	8,300	-
Dewey`s Island	-	100	100	-
Nogies Creek	534	550	600	50
Durham East Cross Forest Conservation Area	100,305	119,300	154,200	34,900
Restoration projects	24,421	3,600	105,000	101,400
	<u><b>\$ 719,995</b></u>	<u><b>\$ 576,950</b></u>	<u><b>\$ 721,100</b></u>	<u><b>\$ 144,150</b></u>

**KAWARTHA CONSERVATION  
2021 Operating Budget**

**SCHEDULE OF CONSERVATION AREAS**

	Audited Actual 2019	Budget 2020	Budget 2021	Variance to 2020 Budget
<b><i>Ken Reid Conservation Area</i></b>				
Road and parking lot maintenance	\$ 15,959	\$ 14,000	\$ 20,000	\$ 6,000
Vehicle usage	1,770	700	1,800	1,100
Equipment usage	6,254	5,000	6,200	1,200
Supplies and small tools	12,865	9,500	11,700	2,200
Infrastructure repair and maintenance	11,158	17,000	17,000	-
Utilities	2,917	3,000	3,200	200
Property taxes	76	100	100	-
	50,999	49,300	60,000	10,700
<b><i>Pigeon River Headwaters Conservation Area</i></b>				
Road and parking lot maintenance	-	800	800	-
Vehicle usage	946	700	900	200
Equipment usage	612	500	600	100
Supplies and small tools	- 205	500	250	(250)
Infrastructure repair and maintenance	512	6,800	6,800	-
Property taxes	797	800	800	-
	2,662	10,100	10,150	50
<b><i>Windy Ridge Conservation Area</i></b>				
Road and parking lot maintenance	1,002	1,000	1,000	-
Vehicle usage	1,119	500	1,000	500
Equipment usage	209	400	250	(150)
Supplies and small tools	- 346	1,000	500	(500)
Infrastructure repair and maintenance	1,023	500	1,000	500
Property taxes	425	500	500	-
	3,434	3,900	4,250	350
<b><i>Fleetwood Creek Natural Area</i></b>				
Road and parking lot maintenance	-	-	-	-
Vehicle usage	804	600	600	-
Equipment usage	332	200	200	-
Supplies and small tools	- 448	700	700	-
Property management	7,055	6,800	6,800	-
	7,743	8,300	8,300	-
<b><i>Dewey's Island</i></b>				
Travel and equipment	-	100	100	-

**KAWARTHA CONSERVATION  
2021 Operating Budget  
SPECIAL OPERATING PROGRAM**

**Region of Durham**

<b>DURHAM EAST CROSS FOREST CONSERVATION AREA</b>	<b>Audited Actual 2019</b>	<b>Budget 2020</b>	<b>Budget 2021</b>	<b>Variance to 2020 Budget</b>
<b>Sources of Revenue</b>				
Region of Durham special and operating levy	\$ 89,100	\$ 102,080	\$ 104,200	\$ 2,120
Grants and other sources of revenue	3,670	-	-	-
Deferred municipal levy	7,535	17,220	50,000	32,780
	<b>\$ 100,305</b>	<b>\$ 119,300</b>	<b>\$ 154,200</b>	<b>\$ 34,900</b>
<b>Expenditures</b>				
Direct labour	\$ 6,871	\$ 34,800	\$ 33,900	\$ (900)
In-house expertise	39,018	41,400	73,500	32,100
Security	9,119	-	-	-
Infrastructure and supplies	14,550	20,500	20,500	-
Travel	18,914	4,800	6,100	1,300
Equipment usage	5,566	2,100	2,100	-
Professional fees and contractors	-	-	2,000	2,000
Property taxes	1,777	5,000	2,000	(3,000)
Administration fee	4,491	10,700	14,100	3,400
	<b>\$ 100,305</b>	<b>\$ 119,300</b>	<b>\$ 154,200</b>	<b>\$ 34,900</b>

*Durham East Cross Forest is considered to be an operating program funded solely by the Region of Durham Levy.*

## Corporate Services

Corporate Services supports each of the departments and the organization as a whole by providing administrative support, coordination, policy development and implementation, program direction and development, strategic and business planning and Board support including agendas and minutes.

### Finance, Budget, Audit

This area of business provides financial leadership and support to the organization through financial direction, reporting and management. All accounting processes, financial statements, and audits are conducted and prepared through strict adherence to the Canadian public sector accounting standards. Ongoing scrutiny and analysis contribute to effective and efficient processing, and adherence to applicable legislation. We produce internal financial statements and reports regularly for our leadership team and the Board of Directors.

### Human Resources, Health & Safety

Human Resources provide comprehensive services and advice to all departments in the areas of legislative compliance, recruitment, orientation, on-boarding, talent management, metrics reporting, performance management, employment grants and policies and procedures. Within the Health and Safety function, education and training continue to be a focus to create a culture of safety in our organization. We continue to invest resources to produce an effective and progressive Health and Safety program and ensure compliance with the Occupational Health and Safety Act.

### Infrastructure, Asset Management, Information & IT Management

Assets include land, buildings, information technology infrastructure, vehicles, and equipment. The Corporate Services team provides support in managing, maintaining, replacing, and monitoring risk and liability issues. This business area also includes the management of corporate records involving soft and hard copies along with the proper retention criteria as well as the implementation of the Information Management System (IMS). This system enables timely responses to client requests, helps us to meet MFIPPA obligations, and improves search capabilities. Hardware and software for the computer network, including system support and security, are a function of this division.

We continue to implement and embrace technology during the pandemic utilizing new processes, software and tools to allow for remote work for our staff. We have additional plans for advancements in 2021 along with additional cybersecurity and improvements for our systems.

### Corporate Communications

Corporate communications help to ensure organization transparency and accountability to our Board of Directors, Municipal partners, staff and the watershed community, while representing our organization in a strong, positive manner that is consistent with our vision, mission and focus. This business area also supports all of our programs, projects and services through the development and implementation of communication plans. Some of the regular services and products provided include strategic communication guidance, plan development and implementation, media relations, image and brand management, website development and maintenance, and social media management.

**KAWARTHA CONSERVATION  
2021 Operating Budget**

**CORPORATE SERVICES**

	<b>Audited Actual 2019</b>	<b>Budget 2020</b>	<b>Budget 2021</b>	<b>Variance to 2020 Budget</b>
<b>Sources of Revenue</b>				
Municipal operating levy	\$ 602,727	\$ 724,300	\$ 840,300	\$ 116,000
Investment income	31,832	23,000	15,000	(8,000)
Donations	180	-	-	-
Grants, wage subsidies and other	5,432	-	-	-
	<b>\$ 640,171</b>	<b>\$ 747,300</b>	<b>\$ 855,300</b>	<b>\$ 108,000</b>
<b>Expenditures</b>				
Direct labour	\$ 690,902	\$ 666,200	\$ 749,400	\$ 83,200
Overhead	42,968	42,300	50,700	8,400
Technology, supplies & equipment	15,473	24,900	29,000	4,100
Professional services	-	-	10,000	10,000
Directors travel and expenses	3,977	5,200	2,400	(2,800)
Strategic Plan	-	-	5,000	5,000
Reports, brochures, publications	1,527	1,500	1,500	-
Professional development	3,643	5,000	5,700	700
Travel	2,314	2,200	1,600	(600)
	<b>\$ 760,805</b>	<b>\$ 747,300</b>	<b>\$ 855,300</b>	<b>\$ 108,000</b>

**KAWARTHA CONSERVATION  
2021 Operating Budget**

**Schedule of Overhead**

	<b>Audited Actual 2019</b>	<b>Budget 2020</b>	<b>Budget 2021</b>	<b>Variance to 2020 Budget</b>
Administration building utilities	\$ 11,863	\$ 16,000	\$ 14,000	\$ (2,000)
Administration building maintenance	57,516	25,000	26,000	1,000
Office equipment supplies, maintenance	(2,579)	1,100	3,000	1,900
Telephone & internet	5,534	6,600	11,600	5,000
Audit, legal, other	9,963	10,000	33,000	23,000
Banking fees and interest	2,279	3,000	3,000	-
Insurance	35,288	34,000	37,500	3,500
Website hosting, licenses, ecommerce	-	-	7,100	7,100
Conservation Ontario membership	24,630	25,000	25,000	-
IT/IMS support services	26,210	38,000	33,500	(4,500)
Human Resources & Safety	1,165	10,000	9,700	(300)
	<b>\$ 171,871</b>	<b>\$ 168,700</b>	<b>\$ 203,400</b>	<b>\$ 34,700</b>
<b>Distributed to departments:</b>				
Planning, Development and Engineering	\$ 34,374	\$ 33,900	\$ 40,700	\$ 6,800
Regulation Compliance	8,594	8,400	10,200	1,800
Integrated Watershed Management	8,594	8,400	10,200	1,800
Environmental Information Services	8,594	8,400	10,200	1,800
Environmental Monitoring Services	17,187	16,900	30,500	13,600
Flood and Water Level Monitoring	8,594	8,400	10,200	1,800
Stewardship and Conservation Lands	8,594	8,400	-	(8,400)
Conservation Areas	25,781	16,800	30,500	13,700
Stewardship	8,594	8,400	10,200	1,800
Conservation Education	-	8,400	-	(8,400)
Corporate Support Services	34,374	33,900	40,600	6,700
Corporate Communications	8,594	8,400	10,100	1,700
	<b>\$ 171,871</b>	<b>\$ 168,700</b>	<b>\$ 203,400</b>	<b>\$ 34,700</b>



**KAWARTHA CONSERVATION  
2021 Budget**

<b>SUMMARY GENERAL BENEFITING PROJECTS</b>	<b>2020 Project Budget</b>	<b>2021 Project Budget</b>	<b>2021 Municipal Levy</b>
Drinking Water Source Protection Plan	\$ 68,200	\$ 68,200	\$ -
Website -implement application tracking	20,000	20,000	20,000
Digitization of corporate records	15,000	15,000	15,000
	<b>\$ 103,200</b>	<b>\$ 103,200</b>	<b>\$ 35,000</b>

## General Benefiting Project

### Drinking Water Source Protection

#### Purpose

To help implement a multi-barrier approach to strengthen the protection of municipal drinking water sources, through the support of actions required to implement source protection planning. A Source Protection Plan is based on threat assessments of groundwater and surface water quality and quantity. Activities support the Source Protection Committee, Source Protection Authority and stakeholders in the implementation of the Source Protection Plans.

#### Benefits

A multi-stakeholder Source Protection Committee (SPC) which includes representatives from municipal and local stakeholders (agriculture, industry, commerce, environmental, rural and urban property owners) is responsible for the development of an effective and proactive approach to protect municipal drinking water sources. This is completed through policy development detailed in a local Source Protection Plan. The plan uses a preventative planning approach to actively manage development and activities around municipal water supply source areas. Our work has been fully funded by the Ministry of Environment, Conservation and Parks.

#### Background and detail

In response to Justice O'Connor's recommendations in the Report of the Walkerton Inquiry, Ontario's Clean Water Act was released in 2006. The Act requires Source Protection Plans be developed on a local watershed basis by a local committee comprised of a variety of stakeholders known as a Source Protection Committee.

The best available science, technical data and local knowledge has been used by the SPC to make decisions in the interest of the long-term protection of safe and healthy drinking water sources. Our local SPC has since developed the terms of reference guiding the overall work, the assessment report (September 2014) identifying the science behind source protection planning, and the source protection plan (effective Jan 1, 2015) outlining the policies to protect water supply. The current challenge is the implementation of the plans, which includes an annual reporting component. The implementation of policies in the source protection plan form the current phase in the planning cycle. Activities include the update of planning policies (Official Plans, Zoning bylaws), emergency management plans, and the development of risk management plans, which will reduce the likelihood of an activity on the landscape impacting the municipal water supplies. Updates to the assessment report and source protection plan are also slated for 2021.

#### Deliverables

- Assist municipalities in the implementation of the Source Protection Plan
- Respond to inquiries regarding the plan and deliver communications and education services
- Conduct annual reporting requirements specified in the plan
- Provide management of source water related information and data
- Update assessment report science and plan policy updates as per the Minister-ordered five-year work plan

**KAWARTHA CONSERVATION  
2021 General Benefiting Project Budget**

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**DRINKING WATER SOURCE PROTECTION PLAN**

	<b>Budget 2020</b>	<b>Budget 2021</b>
<b>Sources of Revenue</b>		
Regional Transfer funds	\$ 68,200	\$ 68,200
<b>Expenditures</b>		
Direct labour	\$ 40,600	\$ 40,000
In-house expertise	15,000	15,400
Project admin fee	6,300	6,300
Travel	5,500	1,000
Supplies & equipment	800	5,500
	\$ 68,200	\$ 68,200

## General Benefiting Projects

### Website Enhancement

This project is a continuation of the work started in 2019 and continuing through 2020 and will allow Kawartha Conservation to continue to provide leading-edge, customer-focused solutions to our watershed residents and building community. In spring of 2020, we launched our new award-winning website, which included an Online Planning and Permit Application component, allowing customers to file their applications and documents remotely from anywhere. In late summer, we added a new mapping feature to our Planning and Permitting forms so that applicants could pinpoint exactly where a proposed develop would be occurring, making it easier, more efficient, and more effective for our planning staff to determine requirements for application approval.

The continuation of the Planning/Permitting enhancements will provide greater access to information for customers and free up time for planning/permitting staff to focus on completing applications. The enhancement will include:

- Enable customers to access their planning/permitting application status through a secure, unique access code, reducing the inquiries to staff on status updates.
- Provides a greater, more open, transparent and customer-first approach to providing information in a timely manner that applicants want and need.

The project will be completed in the third quarter of 2021.

### Digitization of Corporate Records

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. 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 improved access and transport of information and has become a critical factor in our ability to work off-site.

The digitization of corporate records is multi-year project to transfer our paper files to a digital format.

## 2021 General Benefiting Project Budget

### GENERAL BENEFITING PROJECTS

	Budget 2020	Budget 2021	Budget 2022
Website -implement application tracking	\$ 20,000	\$ 20,000	\$ -
Digitization of corporate records	15,000	15,000	15,000
	<b>\$ 35,000</b>	<b>\$ 35,000</b>	<b>\$ 15,000</b>

#### Apportionment share:

City Kawartha Lakes	59.7131	\$ 20,972	\$ 20,900	\$ 8,957
Region of Durham	35.6513	12,390	12,478	5,348
Municipality of Trent Lakes	4.2622	1,514	1,492	639
Cavan Monaghan	0.3735	124	131	56
	100.0000	<b>\$ 35,000</b>	<b>\$ 35,000</b>	<b>\$ 15,000</b>

**KAWARTHA CONSERVATION  
2021 Special Projects Budget**

**SUMMARY SPECIAL PROJECTS**

	<b>2020 Project Budget</b>	<b>2020 Municipal Levy</b>	<b>2021 Project Budget</b>	<b>2021 Municipal Levy</b>
<b>REGION OF DURHAM</b>				
Watershed Planning	\$ 30,000	30,000	\$ 27,500	\$ 27,500
Watershed Plan Implementation	198,900	\$ 138,000	168,900	140,100
Joint Implementation, Stewardship	-	-	129,800	-
	<b>\$ 228,900</b>	<b>\$ 168,000</b>	<b>\$ 326,200</b>	<b>\$ 167,600</b>
<b>CITY OF KAWARTHA LAKES</b>				
Lake Management Plans, Implementation	493,600	357,000	527,100	277,200
Joint Implementation, Stewardship	-	-	129,800	30,500
Flood Plain Mapping	98,800	84,100	-	-
Lake Management Plans, Lake Dalrymple	-	-	-	-
	<b>\$ 592,400</b>	<b>\$ 441,100</b>	<b>\$ 656,900</b>	<b>\$ 307,700</b>
<b>TOTAL SPECIAL PROJECTS</b>	<b>\$ 821,300</b>	<b>\$ 609,100</b>	<b>\$ 983,100</b>	<b>\$ 475,300</b>

## Special Benefiting Project

### Watershed Planning 2021

The purpose of this 2 year project is to ensure that Durham Region has the most up to date information related to Water Resource Systems, Natural Heritage Systems, and Watershed Planning to assist with ongoing Municipal Conformity Review exercises and land use planning activities related to our Planning Services Partnership Memorandum of Understanding (MOU).

This project will help the municipality conform to provincial planning guidance related to watershed resources management (e.g., Provincial Policy Statement, Growth Plan, Greenbelt Plan, Oak Ridges Moraine Conservation Plan, etc.) and will also contribute to more efficient processing of Planning Act applications.

Recently published reports: *Durham Watershed Planning Project, Provincial Conformity of Watershed Plans and Water Resources System (Kawartha Conservation, 2020)* identified several activities that should be undertaken to ensure conformity with provincial policies in the overlapping jurisdictions of Durham Region and Kawartha Conservation, which encompasses 1/5<sup>th</sup> of the overall area of both.

Deliverables from this project are:

- Verify location of 86km of 'unknown' mapped watercourses.
- Verify flow status (perennial or intermittent) and thermal regime of all streams at road crossings.
- Evaluate and confirm location of several 'unevaluated' mapped wetlands.
- Integrate new information (i.e., data from Ontario Climate Consortium) available for the northern parts of Durham Region into management considerations and scenario modelling, including: updating water budgets, nutrient loading values, and thermal regime impacts.
- Collaborate with Durham Region Conservation Authorities to integrate updated Water Resources, Natural Heritage, and Watershed Planning information into Official Plan update/conformity initiatives.
- Updating of mapping tools (e.g., CA Maps, ARCGIS) to include most up-to-date information related to Water Resources, Natural Heritage, and Watershed Planning data.
- Address gaps in Ecologically Significant Groundwater Recharge Areas with help of Durham Region and Conservation Authorities Moraine Coalition Groundwater Program.

**KAWARTHA CONSERVATION  
2021 Special Project Budget  
SPECIAL BENEFITING PROJECTS**

<b>Region of Durham</b>		
<b>WATERSHED PLANNING</b>	<b>Budget 2020</b>	<b>Budget 2021</b>
<b>Sources of Revenue</b>		
Special project funding, Region of Durham	\$ 30,000	\$ 27,500
<b>Expenditures</b>		
Direct labour	\$ 6,200	\$ -
In-house expertise	14,700	22,200
Supplies & professional fees	1,700	1,500
Travel and equipment	4,600	1,300
Project administration fee	2,800	2,500
	\$ 30,000	\$ 27,500



# Special Benefiting Project, Region of Durham

## Watershed Plan Implementation 2021

### Purpose

This program implements recommendations for high priority objectives identified within the Lake Scugog Environmental Management Plan (endorsed in 2010), Oak Ridges Moraine Watershed Plans (endorsed in 2012), and the Port Perry Stormwater management Plan (endorsed in 2014). In addition, the Kawartha Conservation Climate Change Strategy (endorsed by the Board of Directors in 2016) and the Stewardship Strategy (endorsed by the Board of Directors in 2020) recommend a wide range of adaptation and mitigation activities that also support watershed plan implementation.

The maintenance of a healthy aquatic environment, recreational opportunities and attractive waterfront area, with enhanced stormwater management, are critical to the economic and social well-being of Lake Scugog and the Port Perry area. Implementation activities are geared to the improvement of water quality and the sustainability of natural heritage features. They are categorized into major groupings of activities as identified below:

- Stewardship and Natural Heritage
- Scugog WATER Fund
- Water Quality Monitoring
- Lake Scugog Enhancement

### Stewardship and Natural Heritage:

#### Climate Change:

We will work with our Municipal partners to identify low impact design demonstration sites on public property that will help demonstrate wise property management and support municipal infrastructure.

Improving the forest canopy across Durham Region has been a strong movement that will improve natural heritage while also increasing our resilience in the face of climate change. Incentive programs will help encourage landowners to act with projects on private land that will result in climate change resilience.

- Urban Tree Planting on Municipal Property
- Implementation of permeable pavement pathway near the boat launch
- Leverage additional investment of up to \$38,000 in external support

## Scugog WATER Fund

Since 2007, Kawartha Conservation has worked in partnership with the Township of Scugog, local landowners and businesses to deliver the Scugog Water and Terrain Environmental Restoration (WATER) Fund. To date we have assisted 176 landowners with small financial incentives in support of various water quality projects. This investment has leveraged approximately \$450,000 of landowner investments in stewardship improvements since 2007.

The majority of shoreline around Lake Scugog is privately owned. With this sensitive area having such a large influence on surface water quality, the daily actions of these landowners are important to ensuring the ability for our community and tourists to enjoy our lake. The Port Perry urban landscape is largely hardened surfaces that promote faster moving storm runoff and reduces the ability for the land to absorb water. In addition, farmland makes up nearly 50% of the Kawartha watershed and is particularly important in sustaining our rural communities, with agriculture and healthy lakes being the two pillars of our vibrant local economy. This program works directly with shoreline residents, urban communities, and our farming community, to provide a range of technical services and incentives to assist landowners in practicing beneficial management to improve groundwater and surface water quality.

- On-site landowner consultations and support to connect them with other cost sharing program opportunities.
- Collaboration and consultation with commodity groups across the region
- Development of a series of technical videos that provide advice and support to landowners looking to improve their properties.
- Provide seed funding grants to private landowners to support water quality improvement projects that align with our stewardship outreach programs and the various management plan recommendations.
- Continue to provide support for community and private urban projects that improve water quality and incorporate climate change adaptation recommendations at the lot level.
- Continue to expand our reach to embrace rural non-agricultural landowners with pilot project seed funding that improve water quality and incorporate climate change adaptation recommendations.
- Report on Implementation successes to community stakeholders, municipal partners, and other agencies

## Water Quality Monitoring

### Upstream Investigative Water Quality Examination

Due to Covid-19, the two science-based water quality monitoring projects within this implementation program were deferred with deliverables moved over from 2020 to 2021. The total deferred amount being utilised from the science portion is \$46,000. This includes staff time and materials, supplies, travel, equipment use, lab fees and administrative costs.

The intention of the upstream investigative program is to reduce the data gaps by performing more comprehensive water quality & quantity data collection (more sites on one stream) in a specific area in order to identify causality of water quality degradation and plan for remediation or restoration efforts through our stewardship department. The tributaries identified with water quality concerns include: Layton River, Nonquon, Cawker's Creek, Williams Creek, and Blackstock Creeks. This program includes a comprehensive water chemistry and flow data to be collected simultaneously to achieve accurate nutrient loading calculations. The information gathered will serve to identify specific stewardship priorities and areas for actions / improvements. Data collection is performed during 4 high flows (3 spring, 1 fall) and 3 low flows (1 Spring, 1 Summer, 1 fall). A final report will disseminate findings and provide recommendations for stewardship prioritization.

- Focus will be on 3 streams, Cawker's Creek, Williams Creek and Layton River.
- This is Year 1 of 3 for Layton river with 11 sites being sampled.
- Year 2 of 3 for Cawker's and Williams Creek.
- 7 rounds of sampling (4 high flow and 3 low flow events)
- There are 19 sites in total across the 3 streams
- Water quality and discharge rates (flow volumes)
- Data maintenance, analysis and Report writing

### Watershed Quality Monitoring - Lake Scugog and Major Oak Ridges Moraine Tributaries

The LSEMP originated as a municipally funded (Durham Region) lake management planning program (including a characterization report) within the Kawartha Conservation district on the Lake Scugog watershed. The current LSEMP program is an implementation plan though it does not explicitly include the word implementation in the title of the program. It originated as a result of recommendations and the identification of 'hot spots' and data gaps from the Lake Scugog Environmental Management Plan developed in 2010.

Research and monitoring activities conducted for watershed planning purposes provided detailed baseline information on water quality and quantity for Lake Scugog and watershed tributaries. This annual project maintains a basic level of monitoring, providing a basis for evaluating implementation activities, identifying hotspots for future stewardship priorities, and providing recommendations for land use planning. As described above, the deliverables within this project were deferred from 2020 to 2021 due to Covid-19.

- 8 sampling sites across Lake Scugog Watershed (tributaries into Lake Scugog)
- 6 mid lake sampling sites
- 18 rounds of sampling

- Data maintenance, analysis and Report writing
- Continue to monitor flow at East Cross Creek and the Layton River –to help with water balance and load calculations.

## Lake Scugog Enhancement Project

The purpose of this project is to provide technical and project management support to the Healthy Lake Scugog Steering Committee with a project to revitalize Port Perry Bay. Proposed strategies involve a combination of activities such as dredging, creating a berm and constructed wetland to improve urban storm water treatment, and aquatic plant harvesting.

These activities will involve environmental assessment processes, public input, and permitting.

A contract was awarded to GHD Consulting to investigate options, develop a project plan, and conduct the public consultation process. A draft conceptual design was unveiled in 2016 for public review and input, along with a subsequent open house in late 2017. Work is being undertaken by GHD in response to recommended project refinements and amendments as part of the ongoing permitting processes with external regulatory organizations in conjunction with our support for managing the project as provided below.

- Provide ongoing science and technical support in addition to project management services, in collaboration with the Township of Scugog.
- Oversee GHD to provide final details in support of permitting requirements.
- Work through agency comments on submitted permits and applications including:
  - Municipal Class Environmental Assessment file
  - Basic Impact Assessment for Parks Canada
  - DFO fish offsetting plan
  - 'In Water Works' permit application to Parks Canada for the DFO offsets
- Review of project deliverables and reports
- Provide project management support through the construction period, anticipated to commence in the fall of 2021.

**KAWARTHA CONSERVATION**  
**2021 Special Project Budget**  
**SPECIAL BENEFITING PROJECTS**

<b>Region of Durham</b>		
	<b>Budget 2020</b>	<b>Budget 2021</b>
<b>WATERSHED IMPLEMENTATION PROJECTS</b>		
<b>Sources of Revenue-Stewardship programs</b>		
Special project funding, Region of Durham	\$ 76,600	\$ 70,100
Deferred project funds	-	-
Grants, Provincial	-	-
Grants, other	30,000	20,000
Landowner contributions	-	-
	<b>\$ 106,600</b>	<b>\$ 90,100</b>
<b>Expenditures-Stewardship programs</b>		
Direct labour	37,700	32,800
In-house expertise	8,400	6,700
Supplies & professional fees	12,500	1,600
Demonstration site	15,000	-
Contracted services	-	20,000
Landowner grants	20,000	20,000
Travel and equipment	3,300	600
Project administration fee	9,700	8,400
	<b>\$ 106,600</b>	<b>\$ 90,100</b>
<b>Sources of Revenue-Science and Technical</b>		
Special project funding, Region of Durham	\$ 61,400	\$ 70,000
Deferred project funds	5,900	8,800
Scugog Lake Stewards	20,000	-
Grants, provincial	-	-
Grants, employment	5,000	-
	<b>\$ 92,300</b>	<b>\$ 78,800</b>
<b>Expenditures-Science and Technical</b>		
Direct labour	10,100	10,500
In-house expertise	52,300	41,800
Supplies & professional fees	600	3,600
Travel and equipment	5,500	5,500
Lab costs	15,400	10,200
Project administration fee	8,400	7,200
	<b>\$ 92,300</b>	<b>\$ 78,800</b>
<b>PROJECT EXPENDITURE TOTAL</b>	<b>\$ 198,900</b>	<b>\$ 168,900</b>
<b>Total Municipal Special Project Levy</b>	<b>\$ 138,000</b>	<b>\$ 140,100</b>

## Special Benefiting Project, City of Kawartha Lakes

### Lake Management Plan Implementation 2021

#### Purpose

Implementation of the Lake Management Plans is important to our local economy, the attractiveness of the area for tourism and to the continued growth of our communities that have developed around our lakes and rivers. Building on the momentum established through early implementation, Kawartha Conservation and the Implementation Task Force developed a 5-year Implementation Action Plan to improve the appeal of our lakes as an engine for economic growth. In June of 2018, the Implementation Action Plan was approved by the City of Kawartha Lakes Council.

The preferred options provided here address the greatest common concerns expressed by residents throughout the City and proposes science-based solutions to address these concerns. The programs are broken into five areas as outlined in the Action Plan. They are as follows:

- Incentive Grant Program
- General Program
- Shoreline Program
- Urban Program
- Rural Program

Due to Covid-19, science-based projects within this implementation program have been deferred with deliverables moved over from 2020 to 2021. The total deferred amount being utilised from the science portion is \$121,600. This includes staff time and materials, supplies, travel, equipment use, lab fees and administrative costs. The deferred projects included are: Sediment & Erosion Control Planning, Aquatic Plant Control, Nearshore Monitoring, and Investigative Upstream Monitoring.

#### Incentive Grant Program

##### Community Grant Program

Grassroots organizations play a critical role in the implementation of the Lake Management Plans. The Community Grant program provides support to local groups so that they are empowered to take action towards the implementation of the Lake Management Plan recommendations specific to their community. Since 2019, this program has leveraged over \$34,000 in community investment through volunteer and fundraising efforts.

- \$10,000 in grants available for a 50/50 match
- Community planting projects
- Aquatic plant management projects
- Community engagement projects
- Implementation of other LMP recommendations
- Leverage additional investment of \$15,000 in external support
- Return on investment of 97%

#### Landowner Incentive Fund

Provides seed funding for private land stewardship to landowners looking to undertake key projects that improve water quality through the implementation of high priority recommendations from the Lake

Management Plans. Since 2019, this program has leveraged over \$237,000 in landowner investment in beneficial management practices.

- \$71,000 in grants available for:
  - Agricultural Best Management Practices
  - Septic upgrades
  - Rainwater harvesting
  - Shore and stream side plantings
  - Low impact development solutions
  - Well decommissioning/upgrades
- Leverage additional investment of \$120,000 in external support
- Return on investment of 400%

## General Program

### Implementation Oversight & Coordination

A key component of the Implementation Action Plan is collaboration among community groups and institutions already active on the lake. This program will ensure that collaboration continues between multiple partners at various levels to make sure that projects and programs within partner agencies include actions recommended with the Lake Management Plans. It will also support grass roots organizations that are looking for support in identifying and implementing high priority actions.

- Coordinate 2 Community Advisory Panel meetings
- Annually meet with the Science and Technology Committee
- Develop virtual tools that support community engagement and participation
- Collaborate with Lake Associations, and other community groups
- Report on Implementation successes to community stakeholders, municipal partners, and other agencies
- Promote the Implementation Action Plan and Community Grant Program to partner groups, agencies, and individuals throughout the City of Kawartha Lakes
- Return on Investment of 16%

## Sediment and Erosion Control Planning

Better erosion and sediment control management is a priority recommendation in all Lake, Watershed, and Storm Water Management Plans to address this significant threat to the health of local lakes and connecting waters. The purpose of this project is to increase local expertise and application of erosion and sediment control standards when reviewing, undertaking, and inspecting development and site alteration projects. Training and expert resource materials will be learned, provided to, and shared among staff at municipalities, Kawartha Conservation, and local contractors.

Release of materials from construction/development sites to local watercourses can have significant long-term impacts, including filling in shallow areas, smothering fish habitat, water pollution, and poor aesthetics, among others.

Project deliverables intended to be completed during 2020 have been deferred until 2021 due to Covid-19. One additional deliverable has also been included from the originally planned 2021 program 'Create and distribute factsheets...'

Deliverables for 2021 include:

- Enhanced staff skills including certification by CISEC (Certificated Inspector of Sediment and Erosion Control).
- Attendance at TRIECA (industry conference among subject experts).
- Coordinated site visits to local construction sites.
- Create and distribute factsheets and other relevant field-reference information.

## Rural Program

### Agricultural Stewardship

Farmland makes up nearly 50% of the Kawartha watershed and is particularly important in sustaining our rural communities, with agriculture and healthy lakes being the two pillars of our vibrant local economy. This program works directly with the farming community to provide a range of technical services and incentives to assist farmers in practicing beneficial farmland management to improve groundwater and surface water quality.:

- Collaboration and partnerships with agricultural commodity groups
- On-farm and virtual consultations to develop and support project implementation
- Collaboration with the East Central Farm Stewardship Collaborative
- Development of technical videos to support BMP adoption and implementation
- Participation in the International Plowing Match being hosted in Lindsay On
- Leverage an additional \$16,800 in funding support
- Total Return on Investment of 60%

### Investigative Upstream Monitoring

The Investigative Upstream Monitoring program will reduce existing data gaps by providing qualitative and quantitative data over a three-year period. This data will be invaluable to allowing Kawartha Conservation to identify problem areas and establish remediation and restoration options moving forward.

The City of Kawartha Lakes Lake Management implementation plan is a result of recommendations made from the lake management planning process for Sturgeon, Balsam, and Cameron and Pigeon lakes. These recommendations include the identification of 'hot spots' or problem areas (i.e. high nutrient concentrations, reduced forest cover, impaired riparian zones).

Project deliverables intended to be completed during 2020 have been deferred until 2021 due to Covid-19.

- Final report of findings from 3-year monitoring program for Jennings, Reforestation and McLaren's Creek.
- Start of monitoring on 3 new streams – Sinister, Distillery and Stony Creek.
- 4 high flows (4 spring) and 4 low flows (2 summer, 2 fall) - 8 sampling events
- Flow data collected simultaneously with water chemistry
- Water chemistry sampling 8 times a year



- Parameters include: (phosphorous & nitrogen, total suspended solids, chloride-proxy for road salt)
- Produce summary report including recommendations for stewardship prioritization projects

## Shoreline Program

### Aquatic Plant Control

Waterfront residents need practical approaches for controlling nuisance aquatic plants along their shoreline. Aquatic plant management is a priority recommendation in the majority of completed lake management plans. The proliferation of aquatic plants can have significant effects on the enjoyment, perception of water quality, and sustainability of the lakes. Aerators are an emerging aquatic plant control method being used by landowners even though it is not currently a legal activity.

This proposal is a 4-year project to study the degree to which aerators impact the growth of nuisance aquatic plants, and evaluate the effect on physical, chemical, and biological parameters of nearshore waters. In addition, the viability of using aerators will be conducted to more clearly understand the return on investment of using aerators. We will work in partnership with the Trent Severn Waterway (TSW) (responsible for allowing permits to landowners) to scientifically test the impacts and effectiveness of aerators on controlling plant populations. Based on the results of this study, we will be able to work to have aerators recognized as a viable solution and a permitted option through TSW's aquatic plant control options.

Project deliverables intended to be completed during 2020 have been deferred until 2021 due to Covid-19.

- Partnerships with academic institutions to assist in the design, funding and delivery of the project.
- Liaise with shoreline communities at 3 high priority locations to undertake project.
- Liaise with business community, particularly equipment manufacturers/suppliers, to secure various aerators for testing.
- Leveraged external funding of \$10,600
- Total return on investment of 56%
- Install device and initiate field sampling

### Shoreline Stewardship

The Shoreline Stewardship Program works with private landowners to provide an array of technical supports to encourage better land management decisions and actions. The majority of shoreline properties in the City of Kawartha Lakes are privately owned. With this sensitive area having such a large influence on surface water quality, the daily actions of these landowners impact the ability for our community and tourists to enjoy our lakes.

- On-site or Virtual Shoreline consultations with landowners
- Development of technical videos to provide support to landowners
- Watershed Welcome program in partnership with Real Estate Professionals and KLEAC
- Septic Management information for private landowners
- Produce final report (beach sampling from 2020) including recommendations for stewardship prioritization projects.

- Development of a Community Partner Tool Kit to assist other groups around the lakes to implement a shoreline stewardship program.

### Near Shore Monitoring

The nearshore area is under the direct influence of activities performed on the shoreline (urban development, agriculture, specific shoreline alteration) in addition to acting as a transition zone that is highly influenced from waters offshore and land and tributary drainage. The data collected in near shore areas can act as an early warning indicator for the lakes and thus identify “problem areas” or “hot spots” of degraded water quality and threats to human and animal health in addition to a decrease in biodiversity and habitat. An identified gap that exists in each of the Lake Management Plans is the lack of near shore water quality (chemical and biological).

The near shore monitoring program includes a comprehensive water chemistry and physical baseline survey to be completed on Sturgeon, Pigeon, and Balsam and Cameron lakes for a minimum duration of three years to ensure reliable results..

The information gathered from each survey would also serve as a jumping off point to initiate specific stewardship priorities and actions in addition to providing valuable information for shoreline policy creation.

Project deliverables intended to be completed during 2020 were deferred until 2021 due to Covid-19.

- 3-year monitoring period
- PhD candidate securement (Ontario Technical University)
- 4 lakes (Sturgeon, Balsam, Cameron, & Pigeon)
- Monthly sampling chemical, biological and physical parameters of lake water quality, up to 20 sites per lake.
- Provide recruitment, training and ongoing support of ‘Citizen Scientists’
- Data analysis
- Produce annual summary reports
- Produce final report including recommended action items for stewardship prioritization projects
- Produce peer reviewed journal article
- Leverage additional investment of \$52,600 from outside partners and grants
- Total Return on Investment of 184%

### Urban Program

#### BlueScaping

The BlueScaping program helps to protect our urban communities by providing low impact development recommendations at the individual property level. Much of our urban landscape is hardened surface that promotes faster moving storm runoff and reduces the ability for the land to absorb water. We work with private landowners and the landscaping community to develop a program for retrofitting existing properties including a variety of options to suit landowners with varying capacity for implementation. BlueScaping program benefits and value include:

- On-site or Virtual Landowner consultations
- Development of technical video series to support private land retrofit projects
- Urban tree planting demonstration site

- Consult and partner with local landscaping professionals to develop feature landscape plans

## Rural Program

### Tree Planting

Kawartha Conservation is a Partner organization in the delivery of the 50 Million Tree Program as well as the Forest Recovery Program. Both provide funding support for tree planting projects on private properties. Tree planting through these programs also supports the implementation of both the Implementation Action Plan as well as Protect and enhance our tree canopy; both highlighted in the City's 2020-2023 Strategic Plan. this new program is heavily invested in by forest Ontario as well as the private landowner. Program benefits and value include:

- On-site or Virtual Landowner consultations
- Development of planting plans to support canopy growth
- Planting of private land
- Leveraged additional investment of \$32,375 from outside partners and landowners
- Return on investment of 194%

**KAWARTHA CONSERVATION  
2021 Special Project Budget**

**City of Kawartha Lakes**

<b>LAKE MANAGEMENT PLANS, IMPLEMENTATION</b>	<b>Budget 2020</b>	<b>Budget 2021</b>
<b>Sources of Revenue-Stewardship programs</b>		
Special project funding, CKL	\$ 278,200	\$ 215,500
Deferred revenue	-	35,000
Grants, Federal	-	21,700
Grants, Provincial	4,000	78,200
Grants, other	96,400	-
	<u>378,600</u>	<u>350,400</u>
<b>Expenditures-Stewardship programs</b>		
Direct labour	158,700	130,000
In-house expertise	47,600	48,000
Supplies and events	24,600	22,700
Landowner grants	85,000	98,800
Contractor and consulting services	17,700	13,000
Travel and equipment	10,500	7,400
Project administration fee	34,500	30,500
	<u>378,600</u>	<u>350,400</u>
<b>Sources of Revenue-Science and Technical</b>		
Special project funding, CKL	138,900	61,700
Deferred project funding	6,900	105,000
Grants, fees, sponsors	25,200	10,000
	<u>171,000</u>	<u>176,700</u>
<b>Expenditures-Science and Technical</b>		
Direct labour	18,700	28,500
In-house expertise	86,600	79,600
Supplies	11,200	13,500
Laboratory fees	29,650	30,000
Travel and equipment	9,300	9,000
Project administration fee	15,550	16,100
	<u>171,000</u>	<u>176,700</u>
<b>PROJECT TOTAL</b>	<b>\$ 549,600</b>	<b>\$ 527,100</b>
<b>Total Municipal Special Project Levy</b>	<b>\$ 417,100</b>	<b>\$ 277,200</b>

## Joint Special Benefiting Project, City of Kawartha Lakes and Region of Durham

### Tree Planting Program

Tree planting within the watershed is a key deliverable of the 2020 Stewardship Strategy which outlines the need for increased forest cover across the watershed. Municipal guidance indicates a desired 30% tree canopy to help address the impacts of climate change. To achieve this coverage will require multiple organizations working together to support private landowners in rural and urban areas. Kawartha Conservation has focused programs to support private landowners including participating in the 50 Million Tree program, the Forest Recovery Program, and through over the counter tree seedling sales. These programs provide incentives that support for tree planting projects on private properties. Tree planting through these programs also supports the implementation of the Implementation Action Plan as well as Protect and enhance our tree canopy; both highlighted in the City of Kawartha Lakes 2020-2023 Strategic Plan. This new program is heavily invested in by Forest Ontario, Highway of Heroes, and the private landowner. Program benefits and value include:

- On-site or Virtual Landowner consultations
- Development of planting plans to support canopy growth
- Planting of private land
- Over the counter tree seedling sales
- Leveraged external funding of \$217,550
- Return on Investment of 330%

**KAWARTHA CONSERVATION**  
**2021 Special Project Budget**  
**JOINT SPECIAL BENEFITING PROJECTS - new**

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**Region of Durham**  
**City of Kawartha Lakes**

<b>WATERSHED IMPLEMENTATION PROJECTS</b>	<b>Budget</b>	<b>2021</b>
<b>Revenue</b>		
Special Project Funding, Region	\$	32,600
Special project funding, CKL		30,500
Region of Durham, climate change funding		36,000
Region of Durham, product sales		19,000
Grants, Provincial		39,000
Grants, other		26,500
Fees for service		76,000
	<b>\$</b>	<b>259,600</b>
<b>Expenditures</b>		
Direct Labour	\$	115,500
In-house expertise		18,500
Supplies		57,500
Project Contractor		42,600
Travel and equipment		2,000
Project administration fee		23,500
	<b>\$</b>	<b>259,600</b>