

2022 Budget

Information for Member Municipalities



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Vision

Engaged communities that love, respect and appreciate our natural environment.

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.

2022 Board of Directors

CHAIR

Andy Letham
City of Kawartha Lakes

VICE CHAIR

Scott McFadden
Township of Cavan Monaghan

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 (resigned June 2021) Township of Scugog, Region of Durham

Robert Rock (appointed October 2021) Township of Scugog, Region of Durham

Deborah Kiezebrink
Township of Scugog, Region of Durham

Ron Windover
Municipality of Trent Lakes

We would like to acknowledge that many Indigenous Nations have longstanding relationships, both historic and modern, with the territories upon which we are located.

Today, this area is home to many indigenous peoples from across Turtle Island. We acknowledge that our watershed forms a part of the treaty and traditional territory of the south-eastern Anishinaabeg.

It is on these ancestral and treaty lands that we live and work. To honour this legacy, we commit to being stewards of the natural environment and undertake to have a relationship of respect with our Treaty partners.

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

* The Board of Directors has invited a representative of the Mississaugas of Scugog Island First Nation to the board table to participate in matters of mutual interest.

KAWARTHA CONSERVATION

2022 Budget

Board of Directors
January 27, 2022



2022 Budget

The 2022 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 2022 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 Northern Development, Mines, 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. There is \$16,800 of deferred revenue that will be used in addition to collected levy for 2022 operating.

2022 Budget

Municipal Levy – Summary

	2022 Levy					Approved 2021	Levy Increase (Decrease)
	Operating	Special Operating	General Projects	Special Projects	2022 Total Municipal Levy	Total Municipal Levy	
City of Kawartha Lakes	\$ 983,896	-	\$ 20,829	\$ 390,950	\$ 1,395,675	\$ 1,381,971	\$ 13,704
Region of Durham	593,031	106,200	12,554	170,600	882,385	859,333	23,052
Municipality of Trent Lakes	70,170	-	1,485	-	71,655	70,241	1,414
Township of Cavan Monaghan	6,228	-	132	-	6,360	6,155	205
Total	\$ 1,653,325	\$ 106,200	\$ 35,000	\$ 561,550	\$ 2,356,075	\$ 2,317,700	\$ 38,375

Municipal Operating Levy

The Operating Levy is shared by the municipal partners based on apportionment percentages supplied to us by the Ministry of Northern Development, Mines, 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.

	2021 Apportionment Percentage	2022 Apportionment Percentage	2021 Operating Levy	2022 Operating Levy	Increase (Decrease)	% Increase (Decrease)
City of Kawartha Lakes	59.7131	59.5102	\$ 963,171	\$ 983,896	\$ 20,725	2.15%
Region of Durham	35.6513	35.8690	575,055	593,031	17,976	3.13%
Municipality of Trent Lakes	4.2622	4.2442	68,749	70,170	1,421	2.07%
Township of Cavan Monaghan	.3735	0.3767	6,025	6,228	203	3.37%
Total	100%	100%	\$ 1,613,000	\$ 1,653,325	\$ 40,325	2.50%

Municipal Projects Levy

Projects are developed to implement priorities within our Strategic Plan and in response to municipal concerns. 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 include Drinking Water Source Protection (fully funded), website upgrade/application tracking and digitization of corporate records.

Summary of General Benefiting Projects:	2021 Approved General Benefiting Levy	2022 Approved General Benefiting Levy
City of Kawartha Lakes	\$ 20,900	\$ 20,829
Region of Durham	12,478	12,554
Municipality of Trent Lakes	1,492	1,485
Township of Cavan Monaghan	130	132
	\$ 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 continue our work to develop and implement Lake Management Plans and initiate updates to our watershed plans in the Region of Durham.

Summary of Special Benefiting Projects:	2021 Approved Special Benefiting Levy	2022 Approved Special Benefiting Levy
City of Kawartha Lakes	\$ 397,900	\$ 390,950
Region of Durham	167,600	170,600
Municipality of Trent Lakes	-	-
Township of Cavan Monaghan	-	-
	\$ 565,500	\$ 561,550

Budget Process

On October 28th the Board of Directors received a staff report on the preliminary budget for 2022 and passed a resolution that the preliminary budget be approved for circulation to our watershed municipalities for comment. The Board of Directors vote on the budget and associated municipal general levy was completed on January 27, 2022.

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	11.0734%
2nd of 4 representatives	11.0734%
3rd of 4 representatives	11.0734%
4th of 4 representatives	11.0734%

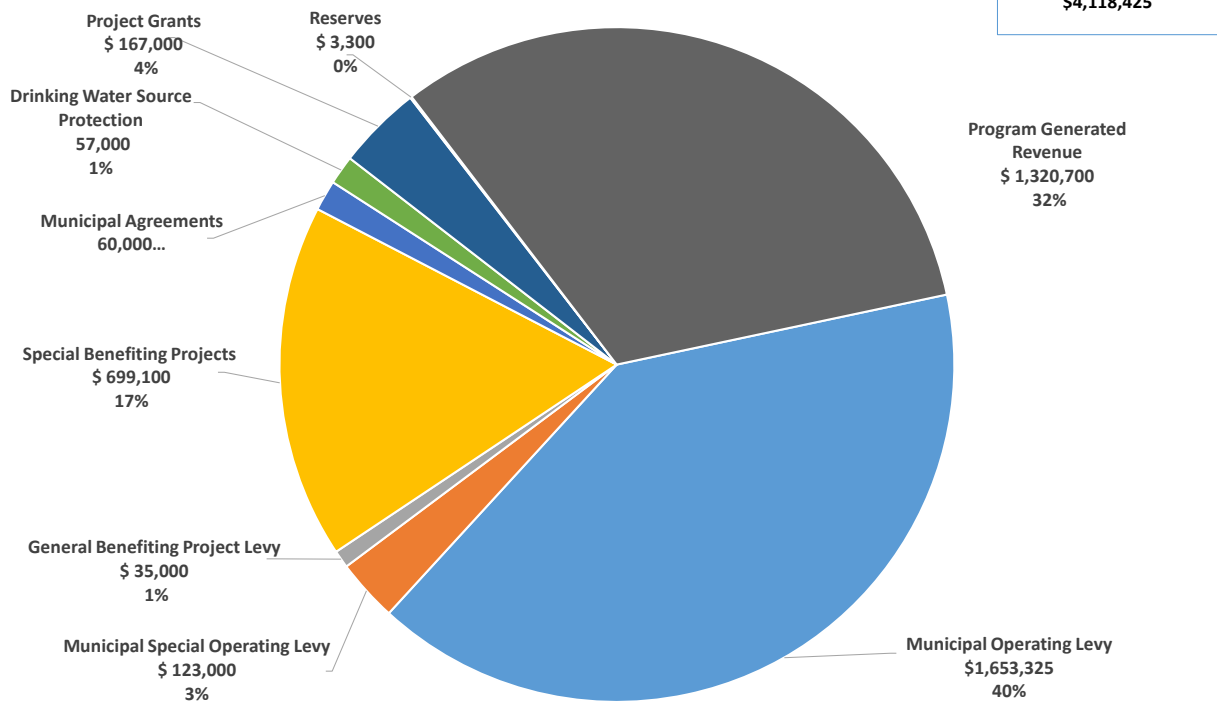
Municipality of Trent Lakes

1 representative	5.2411%
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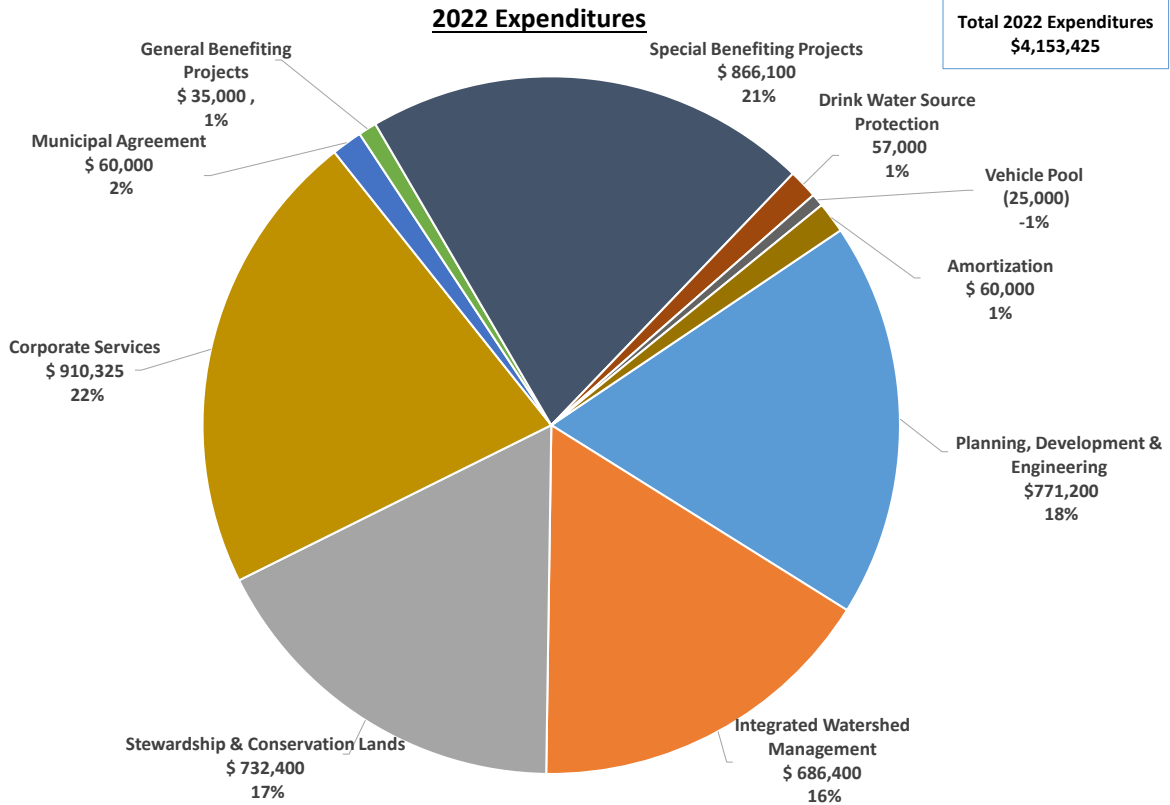
Township of Cavan Monaghan

1 representative	.4653%
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2022 Revenue



2022 Expenditures



**KAWARTHA CONSERVATION
2022 Budget**

STATEMENT OF REVENUE AND EXPENDITURES

	Audited Actual 2020	Budget 2021	Budget 2022	Variance to 2021 Budget
REVENUE				
Municipal levy				
Operating	\$ 1,573,700	\$ 1,613,000	\$ 1,653,325	\$ 40,325
Special operating, Region of Durham	82,436	154,200	123,000	(31,200)
General benefiting projects	20,415	35,000	35,000	-
Special benefiting projects	372,246	656,700	699,100	42,400
	<u>2,048,796</u>	<u>2,458,900</u>	<u>2,510,425</u>	<u>51,525</u>
Municipal Agreements				
CKL, Risk Management Official, Clean Water Act	41,251	61,800	60,000	(1,800)
	<u>41,251</u>	<u>61,800</u>	<u>60,000</u>	<u>(1,800)</u>
Program Generated Revenue				
Planning and Permitting fees	343,454	505,000	545,800	40,800
Intergrated Watershed Management	91,724	75,400	50,900	(24,500)
Stewardship and Conservation Lands	141,079	325,200	333,800	8,600
Corporate Services	44,845	15,000	63,000	48,000
Special Projects management	195,107	326,700	330,500	3,800
	<u>816,210</u>	<u>1,247,300</u>	<u>1,324,000</u>	<u>76,700</u>
Special Projects				
Drinking Water Source Protection	46,585	68,200	57,000	(11,200)
Grants, Durham special projects	16,745	145,750	61,700	(84,050)
Grants, CKL special projects	50,510	180,650	105,300	(75,350)
	<u>113,841</u>	<u>394,600</u>	<u>224,000</u>	<u>(170,600)</u>
Amortization of deferred captial contribution	33,432	-	-	-
TOTAL REVENUE	\$ 3,053,530	\$ 4,162,600	\$ 4,118,425	\$ (44,175)
EXPENDITURES				
Operations				
Planning, Development & Engineering	\$ 470,243	\$ 763,150	\$ 771,200	8,050
Intergrated Watershed Management	495,222	674,950	686,400	11,450
Stewardship and Conservation Lands	465,576	721,100	732,400	11,300
Corporate Services	779,257	855,300	910,325	55,025
Amortization of tangible capital assets	72,868	60,000	60,000	-
Vehicle pool	367	(25,000)	(25,000)	-
	<u>2,283,532</u>	<u>3,049,500</u>	<u>3,135,325</u>	<u>85,825</u>
Projects				
General Benefiting, Drinking Water Source Protection	46,585	68,200	57,000	(11,200)
General Benefiting	20,415	35,000	35,000	-
Special Benefiting	439,392	983,100	866,100	(117,000)
	<u>506,392</u>	<u>1,086,300</u>	<u>958,100</u>	<u>(128,200)</u>
Municipal Agreements				
CKL, Risk Management Official	40,841	61,800	60,000	(1,800)
	<u>40,841</u>	<u>61,800</u>	<u>60,000</u>	<u>(1,800)</u>
TOTAL EXPENDITURES	\$ 2,830,764	\$ 4,197,600	\$ 4,153,425	\$ (44,175)
Net Surplus (Deficit) from operations	\$ 222,765	\$ (35,000)	\$ (35,000)	-

Planning and Regulation

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
2022 Operating Budget**

Draft

PLANNING, DEVELOPMENT AND ENGINEERING

	Audited			
	Actual 2020	Budget 2021	Budget 2022	Variance to 2021 Budget
Sources of Revenue				
Municipal operating levy	\$ 246,199	\$ 258,150	\$ 225,400	\$ (32,750)
Special projects management	30,524	-	-	-
Planning and permitting fees	325,116	340,000	367,000	27,000
Large scale fill permits	11,131	100,000	100,000	-
Municipal agreement project management, RMO MOU, Haliburton County	5,316	15,000	6,000	(9,000)
	1,890	50,000	72,800	22,800
	\$ 620,177	\$ 763,150	\$ 771,200	\$ 8,050
PLANNING/PERMITTING				
Expenditures				
Direct labour	\$ 389,188	\$ 599,800	\$ 599,500	\$ (300)
Overhead	38,475	50,900	50,900	-
Legal	-	5,000	5,000	-
Consulting	18,491	7,000	7,000	-
Fill permit compliance costs	5,129	60,000	60,000	-
IMS Records management	-	10,000	10,000	-
Flood plain mapping services	-	10,950	20,500	9,550
Supplies & equipment	12,342	11,500	11,300	(200)
Professional development	1,467	2,500	1,500	(1,000)
Travel	5,151	5,500	5,500	-
	\$ 470,243	\$ 763,150	\$ 771,200	\$ 8,050

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 2022 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 address various risks to drinking water sources and agricultural uses and residential fuel oil are most common. 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, planning and building staff and staff at Kawartha Conservation.

**KAWARTHA CONSERVATION
2022 Municipal Agreement Budget**

City of Kawartha Lakes Risk Management Official CLEAN WATER ACT, PART IV, ENFORCEMENT	Audited Actual 2020	Budget 2021	Budget 2022	Variance to 2021 Budget
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Sources of Revenue

City of Kawartha Lakes, service agreement	\$ 41,251	\$ 61,800	\$ 60,000	\$ (1,800)
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Expenditures

Direct labour	\$ 34,763	\$ 41,000	\$ 43,500	\$ 2,500
In-house expertise	1,840	10,700	6,000	(4,700)
Supplies	214	2,400	2,000	(400)
Technology and data management	100	500	2,000	1,500
Travel	447	3,100	500	(2,600)
Administration fee	3,476	4,100	6,000	1,900
	\$ 40,840	\$ 61,800	\$ 60,000	\$ (1,800)

Watershed Management

Environmental Information Services

Environmental Information Services supports our stakeholders and partners by providing environmental spatial information to assist with decision making across our watershed. As part of this service, we develop maps for both our internal programs and projects and as a service to our external partners.

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 Northern Development, Mines, 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.

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 (MNDMNRF, 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
2022 Operating Budget**

Draft

INTEGRATED WATERSHED MANAGEMENT

	Audited			
	Actual 2020	Budget 2021	Budget 2022	Variance to 2021 Budget
Sources of Revenue				
Municipal operating levy	\$ 487,071	\$ 598,850	\$ 635,500	\$ 36,650
Special Projects Management	60,387	-	-	-
MNRF transfer payment	24,641	24,600	24,600	-
Technical Services fees	37,647	8,000	1,000	(7,000)
Innovation Hub	29,528	25,000	10,000	(15,000)
Employment grants	(98)	-	10,000	10,000
Climate Change grant	-	17,500	5,000	(12,500)
Other grants	5	300	300	-
	\$ 639,181	\$ 674,250	\$ 686,400	\$ 12,150

Expenditures

INTEGRATED WATERSHED MANAGEMENT

Direct labour	\$ 406,263	\$ 524,200	\$ 532,700	\$ 8,500
Seasonal labour	151	11,500	23,200	11,700
Overhead	38,475	61,100	61,100	-
Supplies & equipment	25,952	23,100	18,500	(4,600)
Technology and data management	15,729	12,800	14,300	1,500
Professional development	608	4,200	4,400	200
Travel	2,933	2,850	3,000	150
Oak Ridges Moraine Alliance	2,500	2,500	2,500	-
Stream gauge utilities, maintenance	335	1,000	800	(200)
Ontario Low Water Response	-	500	200	(300)
Surface water monitoring	423	5,500	6,000	500
Groundwater monitoring	1,853	7,500	8,000	500
Climate Change program	-	17,500	11,700	(5,800)
	\$ 495,222	\$ 674,250	\$ 686,400	\$ 12,150

Environmental Protection & Restoration

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, and Dewey's Island.

Visitors to our Conservation Areas include the 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 May and October, we have seen an increase of 46% in searches, translating to 219,582 more searches resulting in just under 15,000 requests for directions, demonstrating the ongoing popularity and demand for access to green spaces and natural areas. Of particular interest is the fact that these increases happen at a time when other restrictions were being lifted. Our properties offer safe opportunities to get active, get outside, and physically distance from friends and family.

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

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.

Community Engagement and Education

Our Community Engagement programs include our Summer Camp series, Christmas at Ken Reid, and a variety of community hikes throughout the year. These popular programs were cancelled for the last few years due to the pandemic. With easing restrictions, and with heightened demand for safe community engagement opportunities we are preparing to deliver these programs on a cost recovery basis in 2022. These activities provide key opportunities to connect with our community and to provide unique ways for people and families to connect with nature in a way that is meaningful for them.

The Education program is designed to provide a variety of engagement and educational opportunities to all members in our community, and include youth, families, and seniors in the delivery models. We strive to provide excellence in our curriculum and community programs. The goals of conservation education are linked to our strategic plan and to our lake and watershed management plans.

**KAWARTHA CONSERVATION
2022 Operating Budget**

Draft

STEWARDSHIP AND CONSERVATION LANDS

	Audited Actual 2020	Budget 2021	Budget 2022	Variance to 2021 Budget
SOURCES OF REVENUE				
Municipal operating levy	\$ 237,585	\$ 241,700	\$ 275,600	33,900
Municipal funds, Region of Durham	82,436	154,200	123,000	(31,200)
Special Projects Management	29,456	-	-	-
	<u>349,477</u>	<u>395,900</u>	<u>398,600</u>	<u>2,700</u>
Restoration Management				
Habitat Compensation projects, cost recovery	8,096	105,000	81,000	(24,000)
Project management fees Habitat Compensation	1,840	67,100	45,000	(22,100)
	<u>9,936</u>	<u>172,100</u>	<u>126,000</u>	<u>(46,100)</u>
Conservation Areas				
Conservation Area Employment grants	-	-	21,000	21,000
Conservation Areas User fees	-	2,500	2,500	-
Conservation Areas Parking fees	27,113	32,000	32,000	-
Conservation Area Agricultural rent	12,600	12,000	12,000	-
Reserve funds, Windy Ridge	-	3,900	3,300	(600)
Fleetwood Creek cost recovery	5,874	8,300	8,700	400
Property management fees Fleetwood Creek	5,300	6,800	7,500	700
Property management fees East Cross Forest	48,700	87,600	65,800	(21,800)
Donation (Ken Reid Conservation Area)	2,225	-	10,000	10,000
Special Events	-	-	-	-
Other-product sales	21,674	-	-	-
	<u>123,486</u>	<u>153,100</u>	<u>162,800</u>	<u>9,700</u>
Education	<u>7,656</u>	<u>-</u>	<u>45,000</u>	<u>45,000</u>
	\$ 490,555	\$ 721,100	\$ 732,400	\$ 11,300
Expenditures				
Direct labour	\$ 248,957	\$ 291,400	\$ 300,300	8,900
Seasonal labour	-	36,800	57,000	20,200
Overhead	38,475	40,700	40,700	-
Professional development	836	1,500	2,000	500
Supplies, brochures and publications	10,060	7,200	7,200	-
Travel	586	900	4,100	3,200
Special events	120	-	10,000	10,000
Education program	2,862	-	39,500	39,500
Ken Reid Conservation Area	42,976	60,000	60,500	500
Pigeon River Headwaters Conservation Area	2,611	10,150	11,000	850
Windy Ridge Conservation Area	3,415	4,250	3,300	(950)
Fleetwood Creek Natural Area	5,874	8,300	8,700	400
Dewey`s Island	-	100	100	-
Nogies Creek	492	600	-	(600)
Durham East Cross Forest Conservation Area	82,546	154,200	123,000	(31,200)
Cost of product sales	21,894	-	-	-
Restoration projects	3,873	105,000	65,000	(40,000)
	<u>\$ 465,576</u>	<u>\$ 721,100</u>	<u>\$ 732,400</u>	<u>\$ 11,300</u>

**KAWARTHA CONSERVATION
2022 Operating Budget**

Draft

SCHEDULE OF CONSERVATION AREAS

	Audited Actual 2020	Budget 2021	Budget 2022	Variance to 2021 Budget
<i>Ken Reid Conservation Area</i>				
Road and parking lot maintenance	\$ 23,863	\$ 20,000	\$ 20,000	\$ -
Vehicle usage	2,673	1,800	1,800	-
Equipment usage	1,548	6,200	6,200	-
Supplies and small tools	5,678	11,700	11,700	-
Infrastructure repair and maintenance	7,561	17,000	17,000	-
Utilities	1,615	3,200	3,200	-
Property taxes	38	100	600	500
	42,976	60,000	60,500	500
<i>Pigeon River Headwaters Conservation Area</i>				
Road and parking lot maintenance	209	800	500	(300)
Vehicle usage	796	900	800	(100)
Equipment usage	30	600	1,200	600
Supplies and small tools	222	250	300	50
Infrastructure repair and maintenance	458	6,800	6,800	-
Property taxes	896	800	1,400	600
	2,611	10,150	11,000	850
<i>Windy Ridge Conservation Area</i>				
Road and parking lot maintenance	1,043	1,000	900	(100)
Vehicle usage	376	1,000	800	(200)
Equipment usage	37	250	350	100
Supplies and small tools	93	500	250	(250)
Infrastructure repair and maintenance	1,476	1,000	500	(500)
Property taxes	391	500	500	-
	3,416	4,250	3,300	(950)
<i>Fleetwood Creek Natural Area</i>				
Road and parking lot maintenance	-	-	850	850
Vehicle usage	406	600	600	-
Equipment usage	116	200	350	150
Supplies and small tools	52	700	250	(450)
Property management	5,300	6,800	7,500	700
	5,874	8,300	8,700	400
<i>Dewey's Island</i>				
Travel and equipment	-	100	100	-

**KAWARTHA CONSERVATION
2022 Operating Budget
SPECIAL OPERATING PROGRAM**

Draft

Region of Durham

DURHAM EAST CROSS FOREST CONSERVATION AREA	Audited Actual 2020	Budget 2021	Budget 2022	Variance to 2021 Budget
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Sources of Revenue

Region of Durham special and operating levy	\$ 82,436	\$ 104,200	\$ 106,200	\$ 2,000
Grants and other sources of revenue	110	-	-	-
Deferred municipal levy	-	50,000	16,800	(33,200)
	\$ 82,546	\$ 154,200	\$ 123,000	\$ (31,200)

Expenditures

Direct labour	\$ 18,009	\$ 33,900	\$ 20,000	\$ (13,900)
In-house expertise	41,195	73,500	54,600	(18,900)
Infrastructure and supplies	7,303	20,500	23,500	3,000
Travel	3,828	6,100	5,100	(1,000)
Equipment usage	148	2,100	1,600	(500)
Professional services and security	-	2,000	2,000	-
Property taxes	4,559	2,000	5,000	3,000
Program administration	7,505	14,100	11,200	(2,900)
	\$ 82,547	\$ 154,200	\$ 123,000	\$ (31,200)

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.

Corporate Communications

Corporate communications helps 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 photography management. In 2022, organizational communications will be bolstered by a 12-month Communications Placement focused on environmental storytelling of our Integrated Watershed Management, Stewardship and Conservations Lands departments, as well as providing ongoing support to the Marketing and Communications Specialist.

**KAWARTHA CONSERVATION
2022 Operating Budget**

Draft

CORPORATE SERVICES

	Audited Actual 2020	Budget 2021	Budget 2022	Variance to 2021 Budget
Sources of Revenue				
Municipal operating levy	\$ 602,846	\$ 840,300	\$ 847,325	\$ 7,025
Special Projects Management	74,741	-	-	
Investment income	13,956	15,000	20,000	5,000
Donations	2,585	-	-	-
Grants, wage subsidies and other	28,304	-	43,000	43,000
	\$ 722,432	\$ 855,400	\$ 910,325	\$ 55,025
Expenditures				
Direct labour	\$ 700,542	\$ 749,400	\$ 763,000	\$ 13,600
Seasonal labour	-	-	53,800	53,800
Overhead	38,475	50,700	50,700	-
Technology, supplies & equipment	16,146	29,000	22,000	(7,000)
Professional services	19,323	10,000	12,000	2,000
Directors travel and expenses	491	2,400	1,800	(600)
Strategic Plan	-	5,000	-	(5,000)
Reports, brochures, publications	482	1,500	525	(975)
Professional development	3,511	5,700	5,500	(200)
Travel	287	1,600	1,000	(600)
	\$ 779,257	\$ 855,300	\$ 910,325	\$ 55,025

**KAWARTHA CONSERVATION
2022 Operating Budget**

Draft

Schedule of OVERHEAD

	Audited				
	Actual	Budget	Budget	Variance to	
	2020	2021	2022	2021 Budget	
Administration building utilities	\$ 9,476	\$ 14,000	\$ 12,000	\$ (2,000)	
Administration building maintenance	21,577	26,000	23,000	(3,000)	
Office equipment supplies, maintenance	2,459	3,000	2,500	(500)	
Telephone & internet	8,760	11,600	15,000	3,400	
Audit, legal, other	10,023	33,000	21,500	(11,500)	
Banking fees and interest	7,139	3,000	3,000	-	
Insurance	36,559	37,500	40,000	2,500	
Website hosting, licenses, ecommerce	-	7,100	9,000	1,900	
Conservation Ontario membership	25,053	25,000	26,000	1,000	
IT/IMS support services	25,983	33,500	38,400	4,900	
Human Resources & Safety	6,870	9,700	13,000	3,300	
	\$ 153,899	\$ 203,400	\$ 203,400	\$ -	
Distributed to departments:					
Planning, Development and Engineering		\$ 40,700	\$ 40,700	\$ -	
Regulation Compliance		10,200	10,200	-	
Integrated Watershed Management		10,200	10,200	-	
Environmental Information Services		10,200	10,200	-	
Environmental Monitoring Services		30,500	30,500	-	
Flood and Water Level Monitoring		10,200	10,200	-	
Conservation Areas		30,500	30,500	-	
Restoration		10,200	10,200	-	
Corporate Support Services		40,600	40,600	-	
Corporate Communications		10,100	10,100	-	
		\$ 203,400	\$ 203,400	\$ -	

**KAWARTHA CONSERVATION
2022 Budget**

Draft

SUMMARY GENERAL BENEFITING PROJECTS	Audited Actual 2020	2021 Project Budget	2022 Project Budget	2022 Municipal Levy
Drinking Water Source Protection Plan	\$ 46,585	\$ 68,200	\$ 57,000	\$ -
Website upgrade/application tracking	7,075	20,000	20,000	20,000
Digitization of corporate records	13,340	15,000	15,000	15,000
	\$ 67,000	\$ 103,200	\$ 92,000	\$ 35,000

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 2022.

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
2022 General Benefiting Project Budget**

Draft

DRINKING WATER SOURCE PROTECTION PLAN

	Audited Actual 2020	Budget 2021	Budget 2022
Sources of Revenue			
Regional Transfer funds	\$ 46,585	\$ 68,200	\$ 57,000
Expenditures			
Direct labour	\$ 34,763	\$ 40,000	\$ 39,300
In-house expertise	6,938	15,400	7,500
Project administration	4,235	6,300	5,300
Travel	72	1,000	500
Supplies & equipment	577	5,500	4,400
	\$ 46,585	\$ 68,200	\$ 57,000

General Benefitting Projects

Website Upgrade/Application Tracking

This project is a continuation of the work started in 2021 and will allow Kawartha Conservation to develop a customer-focused solution putting permit application status information into the hands of watershed residents and the building community.

- Enable customers to quickly, easily and efficiently find the information they need, and utilize online services provided with a particular aim to improve planning and permitting services.
- Promote our conservation areas and natural areas as an economic development and tourism initiative to support the overall tourism and development initiatives of our municipal partners.

The project will be completed in the second quarter of 2022.

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.

The digitization of corporate records is projected to be an ongoing project to transfer our paper files to a digital format for the next five years.

KAWARTHA CONSERVATION
2022 General Benefiting Project Budget
GENERAL BENEFITING PROJECTS

Draft

	Audited			
	Actual		Levy	Levy
	2020		2021	2022
Website upgrade/application tracking	\$ 7,075	\$	20,000	\$ 20,000
Digitization of corporate records	13,340		15,000	15,000
	\$ 20,415	\$	35,000	\$ 35,000

Apportionment share:

City Kawartha Lakes	59.5102	\$	20,972	\$	20,900	\$	20,829
Region of Durham	35.8690		12,390		12,478		12,554
Municipality of Trent Lakes	4.2442		1,514		1,492		1,485
Cavan Monaghan	0.3767		124		130		132
	100.0000	\$	35,000	\$	35,000	\$	35,000

**KAWARTHA CONSERVATION
2022 Special Projects Budget**

Draft

SUMMARY SPECIAL PROJECTS

	2020 Municipal Levy	2021 Municipal Levy	2022 Municipal Levy
REGION OF DURHAM			
Watershed Planning	30,000	\$ 27,500	\$ 28,600
Watershed Plan Implementation	\$ 138,000	140,100	142,000
Joint Implementation, Stewardship	-	-	-
	\$ 168,000	\$ 167,600	\$ 170,600
CITY OF KAWARTHA LAKES			
Lake Management Plans, Implementation	357,000	277,200	279,000
Joint Implementation, Stewardship	-	30,500	37,750
Flood Plain Mapping	84,100	-	-
Lake Management Plans, Lake Dalrymple	-	90,200	74,200
	\$ 441,100	\$ 397,900	\$ 390,950

Proposed Special Benefiting Project, Region of Durham

Watershed Plan Implementation 2022

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), and the Kawartha Conservation Stewardship Strategy (endorsed by the Board of Directors in 2020). In addition, the Kawartha Conservation Climate Change Strategy (endorsed by the Board of Directors in 2016) recommends 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:

Urban Deliverables include:

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. The Urban Stewardship program is designed to help protect our urban communities by providing low impact development solutions at the lot level. Working with private landowners and the landscaping community, Kawartha Conservation will deliver a program for retrofitting existing properties including a variety of options to suit landowners with varying capacity for implementation. As well, we will look to develop relationships with the development community to provide Low Impact Designs on new builds throughout our watershed into the future.

- Urban Tree Planting on Municipal Property
- On-Site landowner Consultations for Low Impact Development or Runoff management projects
- Implementation of permeable pavement pathway near the boat launch (delayed in 2021)

Rural Agriculture Deliverables Include:

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 consultation with commodity groups across the region
- On-site landowner consultations and support to connect them with other cost sharing program opportunities.
- On-site landowner consultations to support Scugog WATER Fund applications and project opportunities.

Shoreline Deliverables Include:

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 Shoreline Stewardship Program works with private landowners to provide an array of technical supports to encourage better land management decisions and actions.

- On-Site landowner Consultations on shoreline related restoration projects.
- Development and implementation of a restoration plan for Rotary Trail Park.

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 over 175 landowners with small financial incentives in support of various water quality projects.

- 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 expand our reach to embrace rural non-agricultural landowners with pilot project seed funding that improve water quality and incorporate climate change adaptation 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.
- Report on Implementation successes to community stakeholders, municipal partners, and other agencies
- Minimum 50% match from landowners

Water Quality Monitoring

Upstream Investigative Water Quality Examination

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.

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 monthly during the ice-free period of May – November. A report will identify findings and provide recommendations for stewardship prioritization. Ongoing data analysis will identify changes across time.

- Focus will be on 3 streams, Cawker's Creek, Williams Creek and Layton River.
- This is Year 2 of 3 for Layton River with 11 sites being sampled.
- Year 3 of 3 for Cawker's (4 sites) and Williams Creek (3 sites).
- 6 rounds of sampling (3 high flow and 3 low flow events)
- There are 18 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 Lake Scugog Environmental Management Plan (LSEMP) identified recommendations for ongoing monitoring and the identification of 'hot spots' and data gaps.

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 for future stewardship priorities, and providing recommendations for land use planning.

- 14 sites across Lake Scugog and its watershed (6 lakes and 8 tributary sites)
- 6 rounds of sampling on the lake
- 7 rounds of sampling on tributaries

In 2021, a new collaboration took place to better understand microplastics, an emerging contaminant of concern. This partnership with Trent University helps Kawartha Conservation better understand where microplastics originate from and where will it settle out across the watershed. Sites were co-located with LSEMP sampling sites and precipitation collectors were also co-located at our climate station in Port Perry. A summary of findings from the collaboration will be produced in 2022.

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 detailed final conceptual preferred design
- 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

2022 Special Project Budget
SPECIAL BENEFITING PROJECTS

Draft

Region of Durham	Audited Actual 2020	Budget 2021	Budget 2022
WATERSHED IMPLEMENTATION PROJECTS			
Sources of Revenue-Stewardship programs			
Special project funding, Region of Durham	\$ 48,265	\$ 70,100	\$ 64,400
Grants, other	-	20,000	-
	\$ 48,265	\$ 90,100	\$ 64,400
Expenditures-Stewardship programs			
Direct labour	19,021	32,800	31,500
In-house expertise	11,455	6,700	4,000
Supplies & professional fees	388	1,600	2,000
Contracted services	-	20,000	-
Landowner grants	12,565	20,000	20,000
Travel and equipment	448	600	800
Project administration	4,388	8,400	6,100
	\$ 48,265	\$ 90,100	\$ 64,400
Sources of Revenue-Science and Technical			
Special project funding, Region of Durham	\$ 27,112	\$ 70,000	\$ 77,600
Deferred project funds	-	8,800	12,800
Scugog Lake Stewards	-	-	7,200
Grants, Other	16,635	-	-
Grants, employment	-	-	2,000
	\$ 43,747	\$ 78,800	\$ 99,600
Expenditures-Science and Technical			
Direct labour	-	10,500	11,500
In-house expertise	38,916	41,800	24,700
Lake Scugog Enhancement project	-	-	27,200
Supplies & professional fees	414	3,600	4,000
Travel and equipment	440	5,500	6,300
Lab costs	-	10,200	16,800
Project administration	3,978	7,200	9,100
	\$ 43,748	\$ 78,800	\$ 99,600
PROJECT EXPENDITURE TOTAL	\$ 92,013	\$ 168,900	\$ 164,000
Total Municipal Special Project Levy	\$ 75,377	\$ 140,100	\$ 142,000

Special Benefiting Project

Watershed Planning 2022

The purpose of this 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 1/5th of the overall area of both.

Deliverables for 2022 include:

- 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
2022 Special Project Budget
SPECIAL BENEFITING PROJECTS**

Draft

Region of Durham	Audited Actual 2020	Budget 2021	Budget 2022
WATERSHED PLANNING			
Sources of Revenue			
Special project funding, Region of Durham	\$ 24,638	\$ 27,500	\$ 28,600
Expenditures			
Direct labour	\$ -	\$ -	\$ 3,000
In-house expertise	22,250	22,200	21,000
Supplies & professional fees	-	1,500	1,800
Travel and equipment	148	1,300	200
Project administration	2,240	2,500	2,600
	<u>\$ 24,638</u>	<u>\$ 27,500</u>	<u>\$ 28,600</u>

Special Benefiting Project, City of Kawartha Lakes

Lake Dalrymple Management Plan

The primary purpose of this project is to work collaboratively with lake stakeholders towards obtaining a better understanding of the pressures on a lake and to determine priority management activities.

2022 is year 2 of a 4-year project and builds on several accomplishments in year-1 which included the establishment of a 10+ member Community Working Group, comprehensive water quality and quantity monitoring program, project website and numerous social media interactions.

The planning process involves science-based lake and watershed studies, in conjunction with strategic partnerships across all areas of interest to facilitate plan development and implementation. Comprehensive monitoring of water quality, water quantity, and land use parameters will be undertaken over multiple years. This allows us to develop baseline documentation – or ‘state of the lake’ – as the foundation for developing management recommendations.

Deliverables for 2022 include:

- Continuation of Lake Working Group to help focus priority management recommendations.
- Continuation of water quality and quantity monitoring to help capture “average” and “atypical” conditions.
- Continuation of communications initiatives to increase profile of project, capture local issues and opportunities, and to disseminate lake health and management recommendations information.
- A year-end report that summarizes important activities and information related to the Lake Dalrymple Management Plan for distribution to local communities and project partners.

**KAWARTHA CONSERVATION
2022 Special Project Budget**

Draft

City of Kawartha Lakes

**LAKE MANAGEMENT PLANS,
Lake Dalrymple**

Budget 2021 Budget 2022 Budget 2023 Budget 2024

Sources of Revenue

Special project funding, City of Kawartha Lakes **\$ 90,200 \$ 74,200 \$ 73,700 \$ 62,700**

Expenditures

Direct labour	\$ -	\$ 4,500	\$ 4,500	\$ -
In-house expertise	33,000	44,000	44,000	51,000
Supplies	2,000	2,000	2,500	2,000
Lab fees	6,500	9,500	9,000	2,500
Equipment	36,500	1,500	1,000	500
Travel and equipment	4,000	6,000	6,000	1,000
Project administration	8,200	6,700	6,700	5,700
	\$ 90,200	\$ 74,200	\$ 73,700	\$ 62,700

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

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 act towards the implementation of the Lake Management Plan recommendations specific to their community. Since 2019, this program has leveraged over \$80,000 in community investment through volunteer and fundraising efforts.

- \$15,500 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 100%

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 \$407,000 in landowner investment in beneficial management practices.

- \$45,000 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 \$150,000 in external support
- Return on investment of 333%

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
- Coordinate Task Force to update the Implementation Action Plan
- 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
- Draft an update to the Implementation Action Plan for 2024 – 2029 based on previous accomplishments, emerging trends, and priority actions
- 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.

Deliverables for 2022 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.

- Hosting a ‘hands-on-demonstration’ event, to showcase practical approaches for installing and inspecting erosion and sediments control methods around water.

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 consultations to develop and support project implementation
- Collaboration with the East Central Farm Stewardship Collaborative
- Promotion of technical videos to support BMP adoption and implementation
- Leverage an additional \$8,400 in funding support
- Total Return on Investment of 30%

Investigative Upstream Monitoring

The Investigative Upstream Monitoring program will reduce existing data gaps by providing qualitative and quantitative data. 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).

- Final report of findings from 3 years of monitoring for Jennings, Reforestation, and McLaren’s Creek to be produced in 2022 outlining remediation and stewardship opportunities.

In 2021, further work was undertaken to understand ‘hot spots’ during a heavy rain event, where elevated turbidity and total suspended solids resulted in a reduction of fish health, loss of aquatic habitat, and damaging aesthetics.

This work helps us to identify active sources of erosion. A final report of findings is to be used by our member municipality planning and building departments as well as in Planning Enforcement and Stewardship activities.

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 recognized activity by regulating agencies who require permits to be issued for their use.

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. 2022 is year 3 of the project. The viability of using aerators is being tested to more clearly understand the return on investment of using aerators. We are working 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 provide recommendations whether or not aerators should be recognized as a viable solution and a permitted option through TSW's aquatic plant control options.

Deliverables for 2022 include:

- Partnerships with academic institutions (Carleton and Ontario Tech Universities), approval authorities (Parks Canada), and other project partners (Lake Associations) to assist in the design, funding and delivery of the project.
- Secure research grants (e.g., NSERC), in collaboration with partners, to implement the project.
- Obtain permission from shoreline residents/communities at 3-5 high priority locations to undertake sampling.
- Install aerator and thruster devices and undertake field sampling on key physical, chemical, and biological parameters.
- Leveraged support from partners of \$20,000
- Total return on investment of 69%

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

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. 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.

Deliverables during 2022 will include:

- Produce final report including recommendation actions for stewardship prioritization.
- Produce a peer reviewed journal article (abstract has already been accepted by the Lake and Reservoir Management Journal.)

Urban Program

The Urban Stewardship 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. Additional funding from the Environmental Damages Fund has provided funding to implement 10 urban stream restoration projects over 2 years. This is the second year of this program.

The Urban Stewardship 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
- Implementation of 7 urban stream restoration projects
- Leverage investment of \$53,400
- Return on investment of 184%

**KAWARTHA CONSERVATION
2022 Special Project Budget**

Draft

City of Kawartha Lakes

LAKE MANAGEMENT PLANS, IMPLEMENTATION	Audited Actual 2020	Budget 2021	Budget 2022
Sources of Revenue-Stewardship programs			
Special project funding, CKL	\$ 138,161	\$ 215,500	157,800
Deferred revenue	-	35,000	105,000
Grants, Federal	-	21,700	53,400
Grants, Provincial	3,520	78,200	8,400
Fees for service	10,607	-	2,000
	<u>152,288</u>	<u>350,400</u>	<u>326,600</u>
Expenditures-Stewardship programs			
Direct labour	52,492	130,000	123,000
In-house expertise	27,545	48,000	66,300
Supplies and events	2,291	22,700	18,200
Landowner grants	44,470	98,800	66,000
Contractor and consulting services	10,607	13,000	20,000
Travel and equipment	1,040	7,400	3,400
Project administration	13,844	30,500	29,700
	<u>152,289</u>	<u>350,400</u>	<u>326,600</u>
Sources of Revenue-Science and Technical			
Special project funding, CKL	44,809	61,700	121,200
Deferred project funding	-	105,000	-
Employment grants	-	-	2,000
Grants, fees, sponsors	-	10,000	5,000
	<u>44,809</u>	<u>176,700</u>	<u>128,200</u>
Expenditures-Science and Technical			
Direct labour	-	28,500	18,400
In-house expertise	39,771	79,600	61,800
Supplies	775	13,500	13,500
Laboratory fees	-	30,000	17,000
Travel and equipment	189	9,000	5,800
Project administration	4,074	16,100	11,700
	<u>44,809</u>	<u>176,700</u>	<u>128,200</u>
PROJECT TOTAL	\$ 197,098	\$ 527,100	\$ 454,800
Total Municipal Special Project Levy	\$ 182,970	\$ 277,200	\$ 279,000

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 \$115,613
- Return on Investment of 405%

**KAWARTHA CONSERVATION
2022 Special Project Budget
JOINT SPECIAL BENEFITING PROJECTS**

Draft

**Region of Durham
City of Kawartha Lakes**

WATERSHED IMPLEMENTATION PROJECTS	Budget 2021	Budget 2022
Revenue		
Special Project Funding, Region	\$ 32,600	\$ 19,750*
Special project funding, CKL	30,500	37,750
Region of Durham, climate change funding	36,000	18,000
Product sales	19,000	20,000
Grants, Provincial	39,000	18,500
Grants, other	26,500	17,800
Fees for service	76,000	12,700
	\$ 259,600	\$ 144,500
Expenditures		
Direct Labour	\$ 115,500	\$ 72,100
In-house expertise	18,500	4,000
Supplies	57,500	39,400
Project Contractor	42,600	14,000
Travel and equipment	2,000	1,800
Project administration	23,500	13,200
	\$ 259,600	\$ 144,500

**Note:*

*The Region of Durham Special Project Funding
is being provided from deferred funds*