

NPCA Inventory of Programs and Services

01-Sep-23

Program or Service	Dept	Description	Funding Category (1, 2, 3)	Explanation of Funding Category	CA Act Reference	Cost Estimate	Funding Mechanism % of cost	MOU Required	Strategic Plan Ref
Natural Hazard Management									
Protecting people and properties from flood, erosion, and other natural hazards.									
Flood Forecasting and Warning	301					\$236,100	Municipal levy - 73% Provincial - 27%	N/A	Goal 1.1 Goal 1.2 Goal 2.3 Goal 4.2
		Delivery of accurate, real-time information for flood forecasting, warning, and messaging	1	Programs and services related to the risk of natural hazards	s.21.1(1)				
		Water quantity monitoring specific to flood forecasting and warning	1	Programs and services related to the risk of natural hazards	s.21.1(1)				
		Climate monitoring	1	Programs and services related to the risk of natural hazards	s.21.1(1)				
						\$347,794	Municipal levy - 70% Provincial - 30% Self-generated - TBD		Goal 1.1 Goal 1.2 Goal 2.3 Goal 4.2
		Management and monitoring of riverine erosion across the watershed jurisdiction	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Ice management (new)	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Floodplain mapping	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Flood and erosion risk and mitigation studies (new; other than shoreline)	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Operation and maintenance of NPCA flood and erosion control infrastructures	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Flood and erosion hazard mitigation projects (NPCA owned and upper/single tier)	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Flood and erosion hazard mitigation projects - Fee for Service	2,3	Services provided under MOU or other agreement in support of municipal flood and erosion control and remediation projects	s.21.1.1 s.21.1.2			MOU required on a project basis	

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Shoreline Hazard Management	329					\$196,178	Municipal levy - 100% Self-generated - TBD		Goal 1.2 Goal 2.2
		Shoreline management plans update	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Integration of natural hazard management with overall shoreline climate resiliency and watershed resource management to respond to climate change risk and vulnerability (new)	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Flood and erosion hazard mitigation projects (NPCA owned and upper/single tier)	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Flood and erosion hazard mitigation projects - Fee for Service	2,3	Services provided under MOU or other agreement in support of municipal flood and erosion control and remediation projects	s.21.1.1 s.21.1.2			MOU required on a project basis	
Environmental Planning and Policy	345					\$429,145	Municipal levy - 56% Provincial 3% Self-generated - 41%		Goal 1.2 Goal 2.1 Goal 5.3
		Review and commenting on proposals, applications, or other matters under the Federal and Provincial Environmental Assessment Acts related to s. 28 and natural hazards	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Review and process s. 28 permit applications related to public infrastructure (e.g. Hydro One, Enbridge, Bell, municipal, DART protocol)	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Class Environmental Assessment for Flood and Erosion Control Projects	2	Services provided under MOU or other agreement in support of municipal flood and erosion control and remediation projects	s.21.1.1			MOU required on a project basis	
Planning and Permitting	361					\$622,759	Municipal levy - 40% Provincial - 4% Self-generated - 56%	N/A	Goal 1.2 Goal 2.1 Goal 5.3
		Review and commenting on proposals, applications, or other matters under the Planning Act, Niagara Escarpment Act, and Aggregates Resources Act related to s. 28 and natural hazards	1	Programs and services related to the risk of natural hazards	s.21.1(1)				
		Review and process s. 28 permits (not related to public infrastructure)	1	Programs and services related to the risk of natural hazards	s.21.1(1)				
Compliance and Enforcement	371	Investigation and enforcement of regulatory compliance under s.28	1	Programs and services related to the risk of natural hazards	s.21.1(1)	\$643,375	Municipal levy - 40% Self-generated - 60%	N/A	Goal 1.2
Natural Hazard Management - Total						\$2,475,351			
Watershed Resource Management and Climate Change		Programs and services to understand the current conditions, cumulative impacts, and risks to watersheds. Strategies and measures to protect, enhance, and restore watersheds toward creating healthy and climate-resilient watersheds.							
Watershed-based Resource Management Strategy	NEW	Development and implementation of the strategy, including compiling existing resources, management plans, watershed plans, studies, and data	1	Programs and services related to the risk of natural hazards	s.21.1(1)	NEW	Municipal levy - 100%	N/A	Goal 1.1 Goal 1.2 Goal 1.3 Goal 2.2 Goal 4.1 Goal 4.2

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Watershed and Sub-watershed Resources Planning	343					\$375,210	Municipal levy - 59% New MOU's - 41%		Goal 1.1 Goal 2.2 Goal 4.1
		Updates to NPCA watershed plans	1	Programs and services as determined by NPCA related to watershed-based resource management	s.21.1.2			N/A	
		Sub-watershed-level assessments and analyses (e.g., water budgets, catchment assessment, non-point source modelling, groundwater modelling, and systematic conservation monitoring)	1	Programs and services as determined by NPCA related to watershed-based resource management	s.21.1.2			N/A	
		Determine the cumulative watershed impacts from natural resource inventory and resource assessment studies	1	Programs and services as determined by NPCA related to watershed-based resource management	s.21.1.2			N/A	
		Develop and maintain recommendations and guidelines to assist in the management of watershed natural resources	1	Programs and services as determined by NPCA related to watershed-based resource management	s.21.1.2			N/A	
		Provide data and technical analysis to inform sub-watershed and quaternary planning for growth areas	2	Municipal programs and services provided under MOU or other agreement in support of municipal sub-watershed and quaternary planning	s.21.1.1			MOU required on a project basis	
Water Monitoring (surface and groundwater)	265 217					\$388,600	Municipal levy - 50% Self-generated - 50%		Goal 1.1 Goal 1.3 Goal 4.1 Goal 4.2
		Provincial water quality monitoring network	1	Programs and services related to the risk of natural hazards as it relates to the Provincial monitoring programs	s. 21.1(1)			N/A	
		Local water quality monitoring program	3	Programs and services as determined by NPCA related to water monitoring beyond the Provincial monitoring programs	s.21.1.2			MOU for each benefiting municipality required	
		Benthic macroinvertebrate monitoring program	3	Programs and services as determined by NPCA related to water monitoring beyond the Provincial monitoring programs	s.21.1.2			MOU for each benefiting municipality required	
		Stream temperature monitoring program	3	Programs and services as determined by NPCA related to water monitoring beyond the Provincial monitoring programs	s.21.1.2			MOU for each benefiting municipality required	
		Provincial groundwater monitoring network	1	Programs and services related to the risk of natural hazards as it relates to the Provincial monitoring programs	s. 21.1(1)			N/A	
		Local groundwater monitoring network	3	Programs and services as determined by NPCA related to water monitoring beyond the Provincial monitoring programs	s.21.1.2			MOU for each benefiting municipality required	

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		Water quality monitoring on NPCA-owned lands in support of land management plans	1	Programs and services related to the conservation and management of lands owned or controlled by the NPCA	s. 21.1(1)			N/A	
		Water quality monitoring in support to municipal programs and services (e.g. stormwater quality monitoring)	2	Municipal programs and services provided under MOU or other agreement related to water quality monitoring	s.21.1.1			MOU required on a project basis	
		Well water decommissioning program	3	Programs and services as determined by NPCA related to water monitoring beyond the Provincial monitoring programs	s.21.1.2			MOU for each benefiting municipality required	
Ecological Monitoring	119					\$116,150	Municipal levy - 100%		Goal 1.1 Goal 1.4 Goal 2.2
		Flora, fauna, and wetlands monitoring in support of watershed resource management programs and policy development	3	Programs and services as determined by NPCA related to water monitoring beyond the Provincial monitoring programs	s. 21.1.2			N/A	
		Ecological monitoring on NPCA-owned lands in support of land management plans	1	Programs and services related to the conservation and management of lands owned or controlled by the NPCA	s. 21.1(1)			N/A	
		Ecological monitoring in support to municipal programs and services (e.g. planning for growth areas)	2	Municipal programs and services provided under MOU or other agreement related to ecological monitoring	s.21.1.1			MOU required on a project basis	
Ecological Restoration	227					\$438,270	Municipal levy - 75 % Self-generated - 25% Cost apportionment MOU's required		Goal 1.3 Goal 1.4 Goal 3.2 Goal 4.1 Goal 4.2
		Internal restoration services related to conservation area land management plans	1	Programs and services related to the conservation and management of lands owned or controlled by the NPCA	S.21.1(1)			N/A	
		Internal restoration services to support NPCA programs and services (e.g. review of s. 28 permit applications and compliance and enforcement, informing land securement strategy implementation)	1	Programs and services related to the risk of natural hazards	S.21.1(1)			N/A	
		Watershed restoration services to lead and support external ecological restoration projects, plans and strategies with municipal and private partners, including habitat creation and enhancement projects, Class Environmental Assessment (EA) flood and erosion control projects, invasive species management, and other fee-for-service opportunities.	2	Municipal programs and services provided under MOU or other agreement related to ecological restoration programs	s.21.1.1			MOU required on a project basis	
		Restoration grant program	3	Programs and services as determined by NPCA related to ecological restoration	s.21.1.2			MOU for each benefiting municipality required	

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Community Engagement and Stewardship	123					\$168,905	Municipal levy - 75% Self-generated - 25%		Goal 3.2 Goal 4.1 Goal 4.2
		Agricultural Stewardship Program for working with agricultural communities with an emphasis on best management practices, water quality improvement projects, outreach & education, promoting habitat restoration opportunities, and providing technical expertise to the agricultural community	3	Programs and services as determined by NPCA related to community engagement and stewardship	s.21.1.2			MOU for each benefiting municipality required	
		Urban Stewardship Program to encourage resilience to climate change while increasing volunteerism and inspiring larger action. May include small-scale habitat projects, community park naturalization, rain gardens and other demonstration projects, schoolyard greening, and stream/park cleanup as well as increasing the urban tree canopy cover especially in vulnerable, low nature areas.	3	Programs and services as determined by NPCA related to community engagement and stewardship	s.21.1.2			MOU for each benefiting municipality required	
		Corporate Stewardship Program to create opportunities for private corporations and businesses to engage their staff in fulfilling their corporate social responsibility goals, including reducing their environmental footprint. Activities may include invasive species removal, stream/park cleanups, tree	3	Programs and services as determined by NPCA related to community engagement and stewardship	s.21.1.2			MOU for each benefiting municipality required	
		Community outreach, engagement, and partnership building, including volunteer management	3	Programs and services as determined by NPCA related to community engagement and stewardship	s.21.1.2			MOU for each benefiting municipality required	
		Outreach engagement and stewardship projects - fee for service	2	Services provided under MOU or other agreement	s.21.1.1			MOU for each benefiting municipality required	
Regulatory Mapping Technical Studies	125	Technical studies to support NPCA hazard management functions (e.g. Ecological land classification mapping; S.28 regulation mapping of wetlands, watercourses, and karst; Digital terrain elevation model)	1	Programs and services related to the risk of natural hazards	s.21.1(1)	\$451,263	Municipal levy - 100%	N/A	Goal 1.1 Goal 1.2 Goal 1.3 Goal 2.2 Goal 5.2
Climate Change Resilience	303 133					NEW	Municipal Levy - 75% Self Generated - 25%		Goal 1.1 Goal 1.2 Goal 2.3
		Climate change research to support climate change forecasting, watershed vulnerability and risk assessments, and watershed impact assessment and	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Emerging climate change research and practice to support municipal programs and services (e.g., natural assets inventory)	2	Municipal programs and services provided under MOU or other agreement related to climate change resilience	s.21.1.1			MOU required on a project basis	
Watershed Resource Management and Climate Change – Total						\$1,938,398			

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Other Watershed-Related Programs									
Drinking Source Water Protection	205	Source Protection Authority role as set out in the Clean Water Act, 2006 Provision of risk management services to municipalities throughout the Source Protection Region on a fee-for-service basis (currently not offered by NPCA – cost not included) Implementation of best management practices for private drinking systems (future pending provincial guidance)	1	Programs and services related to the NPCA's duties, functions and responsibilities as a source protection authority under the Clean Water Act, 2006.	s.21.1(1)	\$147,595	Agreements - 100%	N/A	Goal 1.1 Goal 4.1
Niagara River Remedial Action Plan	241	Coordination of the multi-stakeholder initiative to protect and restore the Niagara River through agreements with Canada and Ontario	3	Programs and service related to NPCA's agreement with Federal and Provincial governments to coordinate and implement the Niagara River Remedial Action Plan	s.21.1.2	\$170,000	Agreements - 100%	N/A	Goal 1.3 Goal 4.1
Other	TBD	New projects/programs funded through external funding sources that benefit partners and the watershed 2 Billion Trees - Natural Resources Canada	3	Programs and services as determined by NPCA	s.21.1.2	\$50,000	Agreements - 100%	N/A	Goal 1.3 Goal 3.2 Goal 4.1
Other watershed-related programs - Total						\$367,595			
Conservation Authority Lands and Conservation Areas		Manage 2,982 ha of lands, including 41 conservation areas essential to watershed management, environmental protection, cultural heritage, and recreation.							
Section 29 Enforcement and Compliance	489	Conservation areas regulations enforcement and compliance	1	Programs and services related to the conservation and management of lands owned or controlled by the NPCA	s. 21.1(1)	\$110,800	Municipal levy - 100%	N/A	Goal 1.4
Active Recreation Programs (conservation areas)	401, 403, 405, 407 395, 411	Day use for conservation areas Other services (e.g., weddings, facility rentals, events and retail)	Camping 3	Programs and services as determined by NPCA related to active recreation programs in Conservation Areas	s.21.1.2	\$1,728,425	Self-generated - 100%	N/A	Goal 1.4 Goal 3.1 Goal 3.2 Goal 3.3 Goal 3.4 Goal 6.2
Education Programs	413, 487	Education programs and day camps heritage programs	Cultural 2,3	Programs and services as determined by NPCA related to the delivery of education and cultural heritage programs Municipal programs and services provided under MOU or other agreement	s.21.1.1 s.21.1.2	\$173,658	Self-generated - 100%	N/A	Goal 1.4 Goal 3.1 Goal 3.2 Goal 3.3 Goal 3.4 Goal 6.2
Land Management - Other Agencies	NEW	Land and facilities' management, maintenance and operations for other agencies (Federal, Provincial, Regional, Local)	2,3	Programs and services as determined by NPCA related to land and facilities' management Municipal programs and services provided under MOU or other agreement related to land and facilities' management.	s.21.1.1 s.21.1.2	NEW	Self-generated - 100%	MOU required on a project basis	Goal 1.4 Goal 3.1 Goal 3.2 Goal 3.3 Goal 3.4 Goal 6.2

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Land Care Program (conservation areas)	427	Management and maintenance of conservation areas (e.g., gates, fencing, signage, landscaping, pedestrian bridges, trails, parking lots, and roadways)	1	Programs and services related to the conservation and management of lands owned or controlled by the NPCA	s. 21.1(1)	\$1,014,585	Municipal levy - 100%	N/A	Goal 1.4
		Passive recreation	Risk						Goal 3.1
		Management	Hazard						Goal 3.3
		tree management	Maintenance of						
		heritage buildings	Forest Management						
Land Acquisition and Disposition	TBD					Varies	Reserves New MOU's		Goal 1.4 Goal 3.1
		Strategic acquisition of properties related to mitigating the risk of natural hazards in accordance with NPCA Land Securement Strategy	1	Programs and services related to the risk of natural hazards	s.21.1(1)			N/A	
		Strategic cost-shared acquisition of properties with lower-tier municipal partners and other agencies	2	Municipal programs and services provided under MOU or other agreement related to acquisition of non-natural hazard properties	s.21.1.1			MOU with municipality as required	
		Strategic acquisition of properties in accordance with NPCA Land Securement Strategy	3	Programs and services as determined by NPCA related to the implementation of the NPCA Land Securement Strategy	s.21.1.2			MOU for each benefiting municipality required	
Land Lease and Agreement Management	TBD					\$51,633	Self-generated - 100%		Goal 1.4
		Management of current and future land leases and property agreements with specific municipalities	2	Municipal programs and services provided under MOU or other agreement related to land leases and property agreements	s.21.1.1			MOU with municipality as required	
		Management of current and future land leases and property agreements (general)	3	Programs and services as determined by NPCA related to land leases and property agreements	s.21.1.2			MOU for each benefiting municipality required	
Land Management Planning	357					NEW	TBD	N/A	Goal 1.4
		Conservation Area Land Inventory and Conservation Area Strategy – new requirement	1	Programs and services related to the conservation and management of lands owned or controlled by the NPCA	s.21.1(1)				
		Conservation Area Management Planning	1	Programs and services related to the conservation and management of lands owned or controlled by the NPCA	s.21.1(1)				
Conservation Authority Lands & Conservation Areas - Total						\$3,079,101			

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Enabling Services									
Support for all CA departments, the Board of Directors, member municipalities and the general public enables NPCA to operate in an accountable, transparent, efficient and effective manner.									
Corporate Services	101	Administrative support	Human	Programs and services related to the NPCA's duties, functions and responsibilities prescribed by the regulations (O. Reg. 402/22 comes into force July 1, 2023)	s.21.1(1)	\$1,489,772	Municipal levy - 90% Self Generated - 10%	N/A	Goal 5.1
	107	resources (incl health and safety)	Property taxes						Goal 5.2
	127	and occupancy costs	Oversight of programs						Goal 5.3
	153	and policies	Operating costs not directly related to any specific program or service (e.g., overhead)						Goal 5.4
		Records management		Goal 6.1					
		Grant management		Goal 6.2					
Financial Services	105	Annual budget		Programs and services related to the NPCA's duties, functions and responsibilities prescribed by the regulations (O. Reg. 402/22 comes into force July 1, 2023)	s.21.1(1)	\$360,418	Municipal levy - 100%	N/A	Goal 5.2
		Accounts payable and receivable							Goal 5.3
		Procurement	Payroll						Goal 6.1
		Financial analytics and reporting							Goal 6.2
		Audit							
		Admininstration of reserves and investments							
Information Management and Technology	131	Digital technology, licensing fees, data/voice services		Programs and services related to the NPCA's duties, functions and responsibilities prescribed by the regulations (O. Reg. 402/22 comes into force July 1, 2023)	s.21.1(1)	\$544,924	Municipal levy - 100%	N/A	Goal 1.1
	109	Management and integration of data for geographic information system (GIS)	Support open						Goal 1.2
		data portal and science	Mapping and						Goal 1.3
		GIS support for watershed resources planning and natural hazards management	Support						Goal 2.2
		development and implementation of watershed-based resource management strategy		Goal 5.2					
				Goal 5.3					
Governance and Corporate Administration	103	Support to governance and corporate administration	Board	Programs and services related to the NPCA's duties, functions and responsibilities prescribed by the regulations (O. Reg. 402/22 comes into force July 1, 2023)	s.21.1(1)	\$573,191	Municipal levy - 100%	N/A	Goal 5.2
	150	governance	Public						Goal 5.3
		Advisory Committee and ad-hoc committees planning/reporting and CAO oversight	Strategic						
Communications, Marketing and Public Relations	111	Marketing and promotion		Programs and services related to the NPCA's duties, functions and responsibilities prescribed by the regulations (O. Reg. 402/22 comes into force July 1, 2023)	s.21.1(1)	\$401,904	Municipal levy - 100%	N/A	All
		Media relations	Strategic						
		plan	Public and						
		stakeholder consultation							
Vehicles and Equipment	801	Fleet and equipment required to support and maintain NPCA operations, including capital purchases, fuel, licences, repairs, and maintenance		Programs and services related to the NPCA's duties, functions and responsibilities prescribed by the regulations (O. Reg. 402/22 comes into force July 1, 2023)	s.21.1(1)	\$259,400	Municipal levy - 100%	N/A	All

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Asset Management	153					\$1,119,246	Municipal levy - 57%		Goal 1.2
	155						Self-generated - 40%		Goal 1.4
		Capital costs for flood infrastructure for conservation land infrastructure	Capital costs	1	Programs and services related to the risk of natural hazards Programs and services related to the NPCA's duties, functions and responsibilities prescribed by the regulations (O. Reg. 402/22 comes into force July 1, 2023)		s.21.1(1)	Provincial - 3%	N/A
		Asset management planning (including depreciation) Asset management software and equipment		3	Programs and services as determined by NPCA related to asset management	s.21.1.2		MOU for each benefiting municipality required	
Enabling services - Total						\$4,748,855			
Grand Total						\$12,609,300			