

Minutes of the Full Authority Board Meeting

- Date: Wednesday, June 24, 2020
- Location: Microsoft Teams
- Participants:Alan Revill, Township of South Frontenac, Chair
Al Barton, Township of Front of Yonge
Leigh Bursey, City of Brockville
Simon Chapelle, City of Kingston
Rhonda Ferguson, Township Athens
Al Hanes, Township of Elizabethtown-Kitley
Garry Hewett, City of Brockville
Paul McAuley, Loyalist Township
Gordon Ohlke, Township of Leeds and the Thousand Islands
Gary Oosterhof, City of Kingston
Lisa Osanic, City of Kingston
Terry Richardson, Town of Greater Napanee
Claire Smith, Township of Rideau Lakes
Ross Sutherland, Township of South Frontenac, Vice Chair
- Non-Matt Harper, Town of GananoqueParticipants:Jim Neill, City of KingstonNathan Townend, Loyalist Township
- StaffKatrina Furlanetto, General ManagerParticipants:Tom Beaubiah, Manager, Watershed Planning & Engineering
Donna Campbell, Assistant, Chair & General Manager
Dianne Doyle, Coordinator, Little Cataraqui Creek
Krista Fazackerley, Supervisor, Communication & Education
Steve Knapton, Supervisor,
Andrew Schmidt, Supervisor, Development Review
- **Delegations:** David Green, P.Eng., Assistant Manager, Water Resources Engineering, D.M. Wills Associates Limited
- Guests: Karen Ross, Water Resources Administrative Assistant, D.M. Wills Associates Limited

In response to recommendations by the Province of Ontario and public health officials for mitigating and responding to the Coronavirus pandemic (COVID-19) meetings are not held in-person, therefore, this Full Authority Board Meeting was convened via Microsoft Teams.

The meeting commenced at 6:45 p.m.

1. Roll Call

There were fourteen (14) members who participated in the Microsoft Teams meeting.

2. Adoption of Agenda

Moved By:	Garry Hewett
Seconded By:	Paul McAuley

That the agenda Be Adopted.

Carried

3. Declaration of Conflict of Interest

There was none.

4. Delegation / Presentation

- 4.1 <u>David Green, P.Eng., Assistant Manager, Water Resources Engineering, D.M.</u> <u>Wills Associates Limited</u>
 - Presentation Cataraqui Region Risk Assessment and Hazards Mapping Strategy (Attachment #1)

Resolution:	061-20
Moved By:	Gordon Ohlke
Seconded By:	Simon Chapelle

THAT the presentation by David Green, P.Eng., Assistant Manager, Water Resources Engineering, D.M. Wills Associates Limited, on Cataraqui Region Risk Assessment and Hazards Mapping Strategy, **Be Received**.

Carried

David Green and Karen Ross left the meeting at this point.

5. Approval of Previous Minutes

5.1 Minutes of the Cataraqui Conservation Full Authority Board Meeting of May 27, 2020

Moved By:Terry RichardsonSeconded By:Ross Sutherland

That the minutes of the May 27, 2020 Cataraqui Conservation Full Authority Board meeting, **Be Approved**.

Carried

6. Business Arising

There was none.

7. Items for Consideration

7.1 Cataraqui Floodplain Mapping Strategy (PR 00037) (report IR-056-20)

Resolution:	062-20		
Moved By:	Claire Smith		
Seconded By:	Al Hanes		

THAT Report IR-056-20, Cataraqui Floodplain Mapping Strategy (PR 00037), **Be Received**; and,

THAT staff **Be Authorized** to refer to the recommendations in the Cataraqui Region Risk Assessment and Hazard Mapping Strategy prepared by D.M. Wills Associates Limited dated June 2020 for capital project forecasting.

Carried

7.2 Lemoine Point Conservation Area – Shoreline Erosion Study (PR 00079) (report IR-058-20)

Resolution:	063-20
Moved By:	Lisa Osanic
Seconded By:	Al Barton

That Report IR-058-20, Lemoine Point Conservation Area – Shoreline Erosion Study (PR 00079) **Be Received;** and

That staff **Be Authorized** to refer to the recommendations in the Lemoine Point Conservation Area - Shoreline Erosion Study prepared by Riggs Engineering dated June 9, 2020 for capital project forecasting.

Carried

7.3 Operating Variance Report to May 31, 2020 (report IR-059-20)

Resolution:	064-20
Moved By:	Leigh Bursey
Seconded By:	Rhonda Ferguson

That Report IR-059-20, Operating Variance Report to May 31, 2020, **Be** Received.

Carried

7.4 Capital Variance Report to May 31, 2020 (report IR-060-20)

Resolution:	065-20
Moved By:	Gary Oosterhof
Seconded By:	Paul McAuley

That Report IR-060-20, Capital Variance Report to May 31, 2020, **Be Received**; and,

That completed capital projects, as outlined in Attachment #1: Capital Variance Report to May 31, 2020, **Be Closed**; and,

THAT recommended reserve transfers **Be Completed** as outlined in Attachment #1 to this report.

Carried

8. Minutes

8.1 Minutes of Friends of Cataraqui Trail

Resolution:066-20Moved By:Ross SutherlandSeconded By:Garry Hewett

That the Friends of Cataraqui Trail minutes of April 23, 2020, **Be Received**.

Carried

9. <u>Committee Reports</u>

9.1 Report from Budget Review Committee Meeting of June 12, 2020 (IR-061-20)

Presentation – Katrina Furlanetto, General Manager (Attachment #2)

Resolution:	067-20
Moved By:	Rhonda Ferguson
Seconded By:	Claire Smith

That report IR-061-20, Report from the Budget Review Committee Meeting of June 12, 2020, **Be Approved**.

Carried

10. Announcements or Inquiries / Information

10.1 Report on Communications (IR-062-20)

Resolution:068-20Moved By:Al HanesSeconded By:Gordon Ohlke

That report IR-062-20, Report on Communications, Be Received.

11. Motions / Notice of Motion

Carried

There were none.

12. In Camera Session

Resolution: Moved By: Seconded By: **069-20** Al Barton Terry Richardson

That the Cataraqui Conservation Full Authority Board move In Camera.

Carried

- 12.1 Confidential Report Full Authority Confidential In-Camera Minutes of May 27, 2020 (report IR-063-20)
- 12.2 Confidential Report Personnel Committee of June 17, 2020 (report IR-064-20)

Resolution:	070-20
Moved By:	Leigh Bursey
Seconded By:	Simon Chapelle

That the Cataraqui Conservation Full Authority Board move out of **In Camera** and report.

Carried

13. <u>Return to Open Session</u>

Resolution:	071-20
Moved By:	Lisa Osanic
Seconded By:	Gary Oosterhof

That the Cataraqui Conservation Full Authority Board **Authorize** staff to pursue items of action as discussed at the **In Camera** session on June 24, 2020.

Carried

14. Adjournment

The meeting adjourned at 7:48 p.m. on a motion by Paul McAuley, seconded by Claire Smith.

Cataraqui Region Conservation Authority

Katrina Furlanetto, M.Env.Sc. General Manager Alan Revill, Chair

Attachment #1 - Full Authority Minutes of June 24, 2020



 Background The CRCA is mandated to mitigate the impacts of natural hazards, regulate development within hazardous lands and conduct flood forecasting and warning services. These activities require accurate flood hazard mapping; however, the availability, age and quality of existing floodplain mapping ranges across the Cataraqui Region. As flood emergencies become more common due to the changing climate, it is increasingly important to understand the potential extent of flood hazards. The development/update of new/existing flood hazard maps is required. 	 Background Continued Due to budget and time constraints, a risk-based approach is required in order to prioritize the funding of flood hazard mapping projects within the Cataraqui Region. Project Purpose Develop a risk-based flood hazard mapping strategy that prioritizes critical areas in order to direct funding to projects that would have the largest impact on risk mitigation / reduction. The study process should be defensible and repeatable and should limit subjectivity to the greatest extent possible.
D.M. Wills Associates Limited 3 June 24, 2020	D.M. Wills Associates Limited 4 June 24, 2020

Study Approach/Process	Re Re	each Deline	ation	V
General Approach Use GIS data and tools to drive the analysis and	iground Data lon and Review velopment of Geodatose	Reach Delinea	tion Summary Delineation Criteria	Number of reaches
decision making process.	Reach Delineation	Inland Watercourse	ArcHydro catchment Area greater than 125 ha	1051
- Follow established guidelines for risk	Mainland and Island Shoreline)	Inland Waterbody	Land Information Ontario waterbodies greater than 100,000 m ²	185
adjust as required to meet	a Adjustment Factors	Shoreline Mainland	Shoreline of Lake Ontario and the St. Lawrence River as classified by the Anthony 1993 study ¹	85
	n of Risk Assessment Classification	Shoreline Island	Shorelines of Lake Ontario and St. Lawrence River Islands	520
Sludy Process (adjacent)	aration of Risk	Total Reaches		1841



Reach Delineation	Risk Assessment	\ X /
	 Risk Assessment Definition A systematic process of evaluating the potential risks associated with a projected activity or undertaking. Determination of Risk Combination of incident likelihood and consequences Risk Rating and Insignificant Minor Mojor Critical Catastrophic Risk Level Incident Consequences Risk Rating and Insignificant Minor Mojor Critical Catastrophic Risk Level Incident Consequences Combination of Low (a) Medium (b) High (12) High (14) High (20) High (20) High (20) High (21) High (21) High (22) High (23) High (22) High (23) High (22) High (24) High (25) High (22) High (25) High (22) High (25) High (22) High (26) High (22) High (26) High (22) High (26) High (22) High (26) High (26) High (27) High (26) High (27) High (26) High (27) High (28) High (20) High (28) High (20) High (29) High (20) High (i.
D.M. Wills Associates Limited 9 June 24, 2020	D.M. Wills Associates Limited 10 June	24, 2020

Risk Assessment V	Risk Assessment
 Natural Hazard Risk Assessment Components Evaluation Criteria Based on the NDMP RAIT. Adjustment Factors Developed by Wills with input from CRCA staff. GIS Background Data Layers Provided by CRCA or publically available. Used to assess the criteria and adjustment factors. GIS Models Developed by Wills to complete the risk assessment and adjustment calculations. 	 Evaluation Criteria Based on NDMP RAIT. Incident Likelihood Rating based on event return period. Incident Consequence Rating separated in to five (5) main categories, each with different impact classes. People and Societal Impacts. Environmental Impacts. Local Economic Impacts. Local Infrastructure Impacts. Public Sensitivity Impacts. Assessed based on available data.
D.M. Wills Associates Limited 11 June 24, 2020	D.M. Wills Associates Limited 12 June 24, 2020

Risk Assessment

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• Evaluation Criteria – Example

Classification	People and Societal		
Impact Class	Fatalities		
Field Name	PSFatalities_CR		
Definitions	Fatalities = Local population * 0.000006		
Statements	ICR Description Value		
Fatalities greater than 50	5	Could result in more than 50 fatalities.	
Fatalities between 10 and 49	4 Could result in 10 to 49 fatalities.		
Fatalities between 5 and 9	3	Could result in 5 to 9 fatalities.	
Fatalities between 1 and 4	2	Could result in 1 to 4 fatalities.	
Fatalities less than 1	 Not likely to result in fatalities. 		

Risk Assessment

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 Description and Purpose of Adjustment Factors 	
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- Factors that may influence risk but are not directly related to incident likelihood or consequence (i.e. NDMP RAIT criteria).
- Goal is to refine the characterization of risk for each reach.

• Adjustment Factors Used

- Flood Forecasting and Warning.
- Impacts of the Change in Climate.
- Exacerbation of Flood Consequences due to Development.
- Availability, Age and Quality of Existing Floodplain Mapping.
- Potential for Ice Jamming (Inland Watercourse).
- Water Levels Regulated by a Dam (Inland Waterbodies).
- Degree of Exposure to Lake Ontario (Shorelines).

D.M. Wills Associates Limited	13	June 24, 2020	D.M. Wills Associates Limited	14	June 24, 2020

Risk Assessme	nt
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Category	Availability	, Age and Quality of Existing Floodplain Mapping	- Large volume of data and number of reaches, evaluation
Reaches Affected Watercourse, waterbody, mainland shoreline, island shoreline		se, waterbody, mainland shoreline, island shoreline	criteria and adjustment factors make it very difficult to
Field Name	AF_FM What is the	a de offlood manning	 Models are used to belo complete the required analysis
Statements	AF	Description	A model is a series of complete the required analysis. A model is a series of commands within the GIS software that allows the analysis to be completed in a somewhat
Mapping < 5 years	-2.0%	Floodplain mapping exists and is newer than 5 years old.	automated fashion
Mapping between 6 and 25 years	-1.0%	Floodplain mapping exists and is 6 to 25 years old.	The risk assessment and risk adjustment processes each
Napping >25 years	+1.0%	Floodplain mapping exists but is over 25 years old.	used four (4) models, one per reach type.
vlapping = Null	+2.0%	No floodplain mapping exists for the reach.	 Model undertakes all required calculations and outputs the risk assessment and adjustment results.



Hazard Mapping Strategy

Hazard Mapping Strategy





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Hazard Mapping Strategy	Hazard Mapping Stra	egy 🛛 🔍
	Estimated Annual Costs	
	Year Estimated Cost (\$) Year	Estimated Cost (\$)
	Year 1 \$750,000 Year 0	\$507.317
	Year 2 \$816,099 Year 2	\$684,234
	Year 3 \$727,233 Year 6	\$371.723
	Year 4 \$987,569 Year 9	\$245.092
	Year 5 \$715.848 Year	\$70.432
Figure 23 Hamered Stapping (Shraingsy: Stammer Stapping (Shraingsy: Stapping (Shraingsy: Stammer Stapping (Shraingsy: Stapping (Shraingsy: Stammer Stapping (Shraingsy: Stapping (Total Estimated Cost	\$5,875,547
D.M. Wills Associates Limited 21 June 24, 2020	D.M. Wills Associates Limited	June 24, 2020

Hazard Mapping Strategy	Recommendations V
 Potential Funding Sources General and benefitting levies. Provincial and Federal funding programs. Potential Efficiencies Partnerships with other Conservation Authorities and Provincial or Federal Ministries/Agencies. Large-scale background data collection. In-house engineering services. Work with developers in developing/urban areas. Combine flood hazard mapping projects with water control structure projects. 	 Implement 10-Year Plan Implement other Risk Mitigation Measures Improve flood forecasting and warning systems. Reduce development around higher risk reaches. Identify and map existing flood mitigation measures and update risk assessment adjustment factor analysis. Improve input data quality for the risk assessment and adjustment factors and update risk assessment/adjustment factor analysis. Update Risk Assessment and Hazard Mapping Strategy in Five (5) Years.
D.M. Wills Associates Limited 23 June 24, 2020	D.M. Wills Associates Limited 24 June 24, 2020

Summary/Closing

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- Undertook Reach Delineation and Risk Assessment
- Completed Statistical Analysis to Identify Risk Levels •
- Developed and Prioritized Work Packages
- Developed a 10-Year Capital Plan
- Identified Potential Funding Sources and Efficiencies
- Provided Recommendations for Implementation and **Risk Mitigation**



D.M. Wills Associates Limited



Cataraqui Region Risk Assessment and Hazards Mapping Strategy

CRCA Board of Directors Presentation

David Green, P.Eng. Assistant Manager, Water Resources Engineering D.M. Wills Associates Limited



Attachment #2 - Full Authority Minutes of June 24, 2020



2021 Budget Development Pressures

Full Authority Board – June 24, 2020

Presentation

- Goals
- External factors
- Internal factors
- 2021 Fee Schedule
- Proposed timeline
- Discussion



Budget Development – Goals

- Maintain (or enhance) programs and services
- Continue to identify opportunities for efficiencies
- Minimize increases to municipal levies
- Further insulate Cataraqui Conservation from revenue shortfalls
- Circulate a draft budget to municipalities by November 2020
- Facilitate budget approval in January 2021



External Factor – CAAct Review

- Ministry of Environment, Conservation and Parks continues to review results from conservation authority (CA), municipal, and stakeholder consultation sessions as feasible
- Timing uncertain regarding amended regulations
- Implications could impact annual transfer payment agreements
- AMO request
 - Expressed concern for municipal budget development
 - Recommended consultation with AMO / Conservation Ontario ASAP



External Factor – Federal and Provincial Funding

Transfer	Impact	Amount	Comments
Forests Ontario	Operating	\$25,100	Annual contribution to operating costs. Future program status uncertain. Anticipated funding in 2021.
Drinking Water Source Protection transfer payment	Operating	\$150,610	Approved funding to March 31, 2021
Watershed Management transfer payment	Operating	\$56,701	Anticipated funding to March 31, 2021
Summer student grants	Operating	Varies	Fully budgeted, \$19,655 requested for 2020; none received
Water & Erosion Control Infrastructure Grant	Capital	\$67,800	Approved funding to March 31, 2021 for water control structure projects (50%);
National Disaster Mitigation Program	Capital	\$0	Funding ended March 31, 2020, no alternative End of program; supports floogplain mapping

External Factor – Uncontrollable Costs

- Statistics Canada Consumer Price Index (inflation):
 - Trending downward from 2.4% (January) to -0.4% (May)
 - Working reference value: + 1.0%
- Ongoing operating costs:
 - Energy
 - Insurance
 - Property tax
 - Staff benefits
 - Utilities



External Factor – COVID-19

- In-year revenue and expenditure impact due to required health & safety measures and provincial / federal restrictions on essential service delivery
- Provincial / Federal assistance for 2021 unknown
- Significant municipal budget implications
- Pressure to reduce General and Special Levy increases
- Delayed budget development schedule



Internal Factor – Compensation Review

- Maintain Cataraqui Conservation as a competitive, fair employer
- Full-year implementation in 2020
- Performance appraisal system successful and ongoing
- Estimated overall increase to base salaries (full step + 1.0% CPI)
 - **2020** = \$138,300
 - **2021 = \$90,200**



Internal Factor – Budgeted Reserve Draw

- Reliance on reserve draws for regular operations:
 - 2017 = \$221,000
 - 2018 = \$24,500
 - 2019 = \$55,500
 - 2020 = \$0
- Recommend minimal to no reserve draws in 2021 or future years to support operating



Internal Factor – Reserve Transfers

- Underfunded operating reserve transfers impact capital forecast planning
- Identified unsustainable reserves
 - Boat Ramp & Water Access Points
 - Cataraqui Trail
 - Conservation Areas
 - Facilities
 - Water Control Structures

- General Reserve
- Watershed Management
- Stabilization Reserve

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Internal Factor – Administration Facility

- In 2019, the Full Authority Board approved the exploration of a joint administration facility option with Frontenac County
 - Administration Facility Feasibility Study (MOU signed, Phase 2 initiated)
- Available federal "shovel-ready" green infrastructure grant opportunity
- Phase-in funding strategy
- Office requirements re-evaluation

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2021 Fee Schedule – Draft for Public Review

- User fees for services provided to individual clients
- Anticipated **\$549K** in revenue (2020 budget, ~11%)
- Fees based on costs, comparisons, market trends, external pressures
- Recommended process for 2021 Fee Schedule:
 - Prepare early in budget process based on best available data
 - Consult on draft version
 - Approve when draft budget is circulated to municipalities



Proposed 2020 Budget Development Timeline

Date	Step	Purpose	
June 24	Board meeting	Consider Fee Schedule circulation	
June – August	Fee Schedule – review period		
July 22	Budget Review Committee meeting	Review draft service level budget	
September 11	Budget Review Committee meeting	Review revised service level budget	
September 23	Board meeting	Update on progress to-date	
October 16	Budget Review Committee meeting	Consider Fee Schedule / comments Consider revised draft budget	
October 28	Board meeting	Consider Fee Schedule approval Consider budget circulation	
November – December	Draft budget – review period		
January 1	Fee Schedule – effective date		
January 27	Board meeting	Consider Budget approval	

Thank you – Katrina Furlanetto, M.Env.Sc., General Manager



