

DISASTER MITIGATION & ADAPTATION FUND PROJECT APPLICATION FORM

EXPRESSION OF INTEREST (STEP 1)

INTAKE # (Entered by INFC) #

A. RECIPIENT IDENTIFICATION

A.1. Lead Applicant Organization	A.1.a. Legal Name Town of Drumheller	A.1.b. Mail Address 224 Centre Street, Drumheller, AB T0J 0Y4	
A.1.c. Lead Applicant mandate, role, rationale why it is the best suited to lead the project.	The Town of Drumheller is the lead applicant and is in a position to advance the needs of Canada, Alberta, and the Town through this project.		
A.2. Applicant's Contact Information (name, title, mail address, email, tel., fax)	A.2.a. Primary Contact Coordinates	A.2.b. Secondary Contact Coordinates	A.2.c. Environmental Assessment and Duty to Consult Contacts' Coordinates If different from A.2.a and A.2.b
	Darryl Drohomerski, CET Chief Administrative Officer DDrohomerski@dinosaurvalley.com (403) 823 - 1339	Barbara Miller, CPA, CGA, CLGM Director of Corporate Services bmiller@dinosaurvalley.com (403) 823 - 1311	
A.3. Lead Applicant Type	<input checked="" type="checkbox"/> Municipal <input type="checkbox"/> Provincial <input type="checkbox"/> Indigenous Community <input type="checkbox"/> For-Profit Organization <input type="checkbox"/> Regional <input type="checkbox"/> Territorial <input type="checkbox"/> Post-Secondary Institution <input type="checkbox"/> Not-for-Profit Organization		
A.6. Project Type	<input checked="" type="radio"/> Single <input type="radio"/> Bundled		
B. PROJECT IDENTIFICATION			
B.1. Project Identifier			
B.2. Project Title	Drumheller Flood Mitigation and Climate Change Adaptation System along the Red Deer River Valley from Nacmine to East Coulee and the Rosebud River from Wayne to Rosedale.		

B.3. Project Description	<p>The Drumheller Flood Mitigation and Climate Change Adaptation System combines long established structural features with policies and preparedness. The structural mitigation measures are rail embankments, provincial highways and bridges, provincial dyking, and existing municipal roads and trails with the natural systems of the badlands river valley topography, riparian areas, and flood plains to create a river confinement facility while providing room for the river at high flow. Operational measures, emergency preparedness, and policies are integral to create a Flood Mitigation System and strategy today - and well into the future to ensure adaptation to the changing climate and provide a truly resilient approach. Detailed flood control efforts conducted in the 1980s of structural and non-structural resiliency methods were incorporated, in part, to the community. Due to the Canada-Alberta funding stopping in the 1990s, some permanent structural measures were not completed. In terms of scope, new dykes will be constructed in selected critical areas to an elevation that protects against the 1640 cms river flow rate and existing dykes built by the province will be augmented to match this. The overall system is intended to provide a permanent solution that can adapt to climate change. The new dykes have been designed with resiliency in mind. In the future, they can be enhanced to withstand a higher flow of up to 2000 cms and the system will be integrated where practicable, with the Badlands River Park Trails System providing an opportunity to educate a flood resilient populace (also considering the 450,000 who visit Drumheller annually) through nodal kiosks stations. This system would be reinforced with river monitoring tools to support constant communications with the Town of Drumheller as well as the Dickson Dam to immediately execute any necessary emergency protocols and/or emergency dyke enhancements as events happen.</p>					
B.4. Project Objectives	<p>The Drumheller Flood Mitigation and Climate Change Adaptation System is an initiative to develop a widespread resiliency strategy that considers historical events experienced in the valley, as well as the dynamic nature of changing climates to build a truly comprehensive, resilient, and climate adaptable system commencing in 2018 and to be complete in 2022. Upon implementation, this will allow the Town of Drumheller to be managed in a secure fashion in both proactive and reactive scenarios with regards to floods. The result of resilient infrastructure built for the future will be sustainable communities and economic return on investment. Linking all the communities within the Town with the mitigation system that is integrated with the Badlands River Park Trails System creates a holistic and comprehensive approach to disaster management with defined solutions to possible threats. The aim is to protect life, property, economy, and the environment. The Drumheller Flood Mitigation and Climate Change Adaptation System can achieve this for many generations to come and will demonstrate the system to be understood, applied, and transitioned. The system focuses on long-term resiliency with a design that anticipates the events of the future and is educational & experiential for the residents and national visitors.</p>					
B.5. Province(s) and/or Territory (ies)	<input checked="" type="checkbox"/> Alberta	<input type="checkbox"/> Newfoundland & Labrador	<input type="checkbox"/> Ontario	<input type="checkbox"/> Yukon		
	<input type="checkbox"/> British Columbia	<input type="checkbox"/> Northwest Territories	<input type="checkbox"/> Prince Edward Island			
	<input type="checkbox"/> Manitoba	<input type="checkbox"/> Nova Scotia	<input type="checkbox"/> Quebec			
	<input type="checkbox"/> New Brunswick	<input type="checkbox"/> Nunavut	<input type="checkbox"/> Saskatchewan			
B.6. Region, Municipality(ies), County(ies),Other(s)	Town of Drumheller					
B.7.a. Project Civic Address (Please include a Postal Code)	224 Centre Street Drumheller, AB T0J 0Y4		B.7.b. GPS Location (Geo-coordinates i.e 45° 25'04.9"N 75°42'05.5"W)	51°27'55"N 112°42'28"W		
C. PROJECT DETAILS						
C.1. Nature of the Project	<input checked="" type="checkbox"/> New Construction		<input checked="" type="checkbox"/> Rehabilitation		<input checked="" type="checkbox"/> Expansion	
C.2. Project Schedule	C.2.a. Site Preparation Start Date	01-Apr-2019	C.2.b. Construction Start Date	02-Apr-2019	C.2.c. Construction End Date	31-Mar-2022

C.3. Project Results	Areas within the Town of Drumheller will be structurally protected from potential future flood events with dykes built to the 1640cms flow (1:100) with an ultimate capacity to be enhanced to the 2000cms flow within 18 hours of an unregulated flow event.			
C.4. Key Milestones Schedule	Planning and Design (July 2018 - December 2018); Tender and Establishment of Contracts (January 2019 - February 2019); Approvals (March 2019); Construction and Integration (April 2019 - March 2022)			
C.5.a. Project National Significance	<input type="checkbox"/> Reduce impacts on critical infrastructure including interruptions in essential services <input type="checkbox"/> Reduce the amount of critical infrastructure that is at risk <input type="checkbox"/> Reduce impacts on health and safety of Canadians <input type="checkbox"/> Reduce significant disruptions in economic activity <input checked="" type="checkbox"/> Reduce costs of recovery and replacement <input type="checkbox"/> Reduce impact on Canada's vulnerable regions (Indigenous, northern, coastal, and remote communities) <input type="checkbox"/> None of the above			
C.5.b. Please provide a detailed justification	Please see attachment in Appendix B of the appendices package.			
Number of Assets	5			
C.6. Asset Identification	Red Deer and Rose			Remove Asset
C.7. Asset Type	<input type="checkbox"/> Structural <input checked="" type="checkbox"/> Natural	C.8. Asset Lifespan (Number of Years)		C.9. Is the asset considered critical infrastructure? <input checked="" type="radio"/> Yes <input type="radio"/> No
C.10. Essential Service(s) Provided by the Asset	<input checked="" type="checkbox"/> Transportation systems <input type="checkbox"/> Power Systems <input checked="" type="checkbox"/> Water Systems <input type="checkbox"/> Other <input checked="" type="checkbox"/> Stormwater Systems <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Wastewater Systems			
C.11.a. Asset Ownership, Use or Benefit	Public			
C.6. Asset Identification	Dykes			Remove Asset
C.7. Asset Type	<input checked="" type="checkbox"/> Structural <input checked="" type="checkbox"/> Natural	C.8. Asset Lifespan (Number of Years)	100	C.9. Is the asset considered critical infrastructure? <input checked="" type="radio"/> Yes <input type="radio"/> No
C.10. Essential Service(s) Provided by the Asset	<input checked="" type="checkbox"/> Transportation systems <input type="checkbox"/> Power Systems <input checked="" type="checkbox"/> Water Systems <input type="checkbox"/> Other <input checked="" type="checkbox"/> Stormwater Systems <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Wastewater Systems			
C.11.a. Asset Ownership, Use or Benefit	Public			
C.6. Asset Identification	Rail Lines & Embank			Remove Asset
C.7. Asset Type	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Natural	C.8. Asset Lifespan (Number of Years)	100	C.9. Is the asset considered critical infrastructure? <input checked="" type="radio"/> Yes <input type="radio"/> No
C.10. Essential Service(s) Provided by the Asset	<input checked="" type="checkbox"/> Transportation systems <input type="checkbox"/> Power Systems <input type="checkbox"/> Water Systems <input type="checkbox"/> Other <input type="checkbox"/> Stormwater Systems <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Wastewater Systems			
C.11.a. Asset Ownership, Use or Benefit	Public			
C.6. Asset Identification	Bridges			Remove Asset
C.7. Asset Type	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Natural	C.8. Asset Lifespan (Number of Years)	100	C.9. Is the asset considered critical infrastructure? <input checked="" type="radio"/> Yes <input type="radio"/> No

C.10. Essential Service(s) Provided by the Asset	<input checked="" type="checkbox"/> Transportation systems <input type="checkbox"/> Power Systems <input type="checkbox"/> Water Systems <input type="checkbox"/> Other <input type="checkbox"/> Stormwater Systems <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Wastewater Systems			
C.11.a. Asset Ownership, Use or Benefit	Public			
C.6. Asset Identification	Roads / Trails			Remove Asset
C.7. Asset Type	<input checked="" type="checkbox"/> Structural <input type="checkbox"/> Natural	C.8. Asset Lifespan (Number of Years)	100	C.9. Is the asset considered critical infrastructure? <input checked="" type="radio"/> Yes <input type="radio"/> No
C.10. Essential Service(s) Provided by the Asset	<input checked="" type="checkbox"/> Transportation systems <input type="checkbox"/> Power Systems <input type="checkbox"/> Water Systems <input type="checkbox"/> Other <input type="checkbox"/> Stormwater Systems <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Wastewater Systems			
C.11.a. Asset Ownership, Use or Benefit	Public			
C.12. Project alignment with strategic adaption and mitigation planning <small>Please upload any necessary plans, strategies or frameworks as per section K.5 of the Applicant's Guide</small>	<input checked="" type="checkbox"/> Legislation/Regulations <input checked="" type="checkbox"/> Strategies <input checked="" type="checkbox"/> Guidelines <input type="checkbox"/> Other <input type="checkbox"/> Frameworks <input checked="" type="checkbox"/> Land-use Plans <input checked="" type="checkbox"/> Asset Management Plans			
(Strategies) C.12.a. Type of Support	Advances	(Strategies) C.12.b. Order of Government	Municipal/Regional	+ -
(Strategies) C.12.c. Title of Document	Town of Drumheller Municipal Recovery Action Plan (2014)			
(Strategies) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.			
(Strategies) C.12.a. Type of Support	Advances	(Strategies) C.12.b. Order of Government	Municipal/Regional	+ -
(Strategies) C.12.c. Title of Document	Town of Drumheller Municipal Development Plan Volume 1 (2014)			
(Strategies) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.			
(Strategies) C.12.a. Type of Support	Advances	(Strategies) C.12.b. Order of Government	Municipal/Regional	+ -
(Strategies) C.12.c. Title of Document	Town of Drumheller Strategic Business Plan 2018			
(Strategies) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.			
(Strategies) C.12.a. Type of Support	Advances	(Strategies) C.12.b. Order of Government	Municipal/Regional	+ -
(Strategies) C.12.c. Title of Document	Drumheller Flood Control Study: A Response (1985)			
(Strategies) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.			
(Guidelines) C.12.a. Type of Support	Aligns	(Guidelines) C.12.b. Order of Government	Municipal/Regional	+ -
(Guidelines) C.12.c. Title of Document	Red Deer River Flow Summary			
(Guidelines) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.			

(Guidelines) C.12.a. Type of Support	Advances	(Guidelines) C.12.b. Order of Government	Municipal/Regional	<input type="checkbox"/>	<input type="checkbox"/>
(Guidelines) C.12.c. Title of Document	Flood Plain Meeting Minutes (1976)				
(Guidelines) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.				
(Guidelines) C.12.a. Type of Support	Advances	(Guidelines) C.12.b. Order of Government	Municipal/Regional	<input type="checkbox"/>	<input type="checkbox"/>
(Guidelines) C.12.c. Title of Document	Town of Drumheller Municipal Sustainability Plan Implementation (2012)				
(Guidelines) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.				
(Guidelines) C.12.a. Type of Support	Advances	(Guidelines) C.12.b. Order of Government	Municipal/Regional	<input type="checkbox"/>	<input type="checkbox"/>
(Guidelines) C.12.c. Title of Document	Town of Drumheller Infrastructure Financing Strategy (2017)				
(Guidelines) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.				
(Guidelines) C.12.a. Type of Support	Advances	(Guidelines) C.12.b. Order of Government	Provincial/Territorial	<input type="checkbox"/>	<input type="checkbox"/>
(Guidelines) C.12.c. Title of Document	Government of Alberta Flood and Drought Mitigation Presentation				
(Guidelines) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.				
(Guidelines) C.12.a. Type of Support	Advances	(Guidelines) C.12.b. Order of Government	Municipal/Regional	<input type="checkbox"/>	<input type="checkbox"/>
(Guidelines) C.12.c. Title of Document	Drumheller Flood Mitigation Climate Change Assessment (Concept Edition)				
(Guidelines) C.12.d. Web link(s) if Available	Please see attachment in Appendix A of the appendices package.				
(Guidelines) C.12.a. Type of Support	Advances	(Guidelines) C.12.b. Order of Government	Municipal/Regional	<input type="checkbox"/>	<input type="checkbox"/>
(Guidelines) C.12.c. Title of Document	2005 Preliminary Briefing Report				
(Guidelines) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.				
(Land-use Plans) C.12.a. Type of Support	Aligns	(Land-use Plans) C.12.b. Order of Government	Municipal/Regional	<input type="checkbox"/>	<input type="checkbox"/>
(Land-use Plans) C.12.c. Title of Document	Drumheller Flood Mitigation Strategy - Council Briefing 2014				
(Land-use Plans) C.12.d. Web link(s) if Available	Please see attachment in Appendix C of the appendices package.				
C.13. Public Engagement/Support	C.13.a.1. Have you engaged or are you planning to engage with relevant stakeholders such as provinces and territories, affected municipalities, indigenous communities and general public (if applicable)? Please upload the Indigenous concern tracking table as per section K.3. of the Applicant's Guide			<input checked="" type="radio"/> Yes <input type="radio"/> No	
C.13.a.2. Details on the stakeholders and engagement activities	Please see Engagement Plan attached in Appendix D of the appendices package (includes stakeholder timeline).				

C.13.b. Which Indigenous groups have been notified? Please upload a sample of the Indigenous communications log as per section K.4. of the Applicant's Guide	Alberta Indigenous Relations provides a list of Treaty consultation contacts. Treaty 7 Siksika First Nations consultation center has been contacted to discuss traditional lands Drumheller. Please see Indigenous Communications Log attached in Appendix D of the appendices for further details.				
C.13.c. Indigenous Groups Interests	C.13.c.1. Are there Indigenous communities that could have interest in the positive and/or negative effects of the project or have expressed concerns?			<input checked="" type="radio"/> Yes <input type="radio"/> No	
C.13.d. Concerns or Information Gaps Addressed	C.13.d.1. Have all concerns or information gaps expressed by Indigenous groups been addressed?			<input checked="" type="radio"/> Yes <input type="radio"/> No	
C.14. Has the Applicant considered a revenue model for this project?	<input checked="" type="radio"/> Yes <input type="radio"/> No				
D. PROJECT FINANCIALS					
D.1. Total Eligible Cost	\$55,000,000.00				
D.2. Project Cost Share					
D.2.a. Federal Share of Eligible Cost	\$22,000,000.00	D.2.b. Applicant's Share	\$5,000,000.00	D.2.c. Other	\$28,000,000.00
D.3. Cash Flow	2018-19	2019-20	2020-21	2021-22	2022-23
	\$1,200,000.00	\$15,000,000.00	\$15,500,000.00	\$15,500,000.00	\$7,800,000.00
	2023-24	2024-25	2025-26	2026-27	2027-28
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
D.4.a. Class Estimates	Class D	D.4.b. Contingency	25%		

Important Note: Information provided under the EO1 Application will be maintained for the Full Application.

Attestation:

On July 31, 2018, I Darryl Drohomerski, CAO as an authorized official for Town of Drumheller, hereby declare that the above responses are true and accurate. I certify that this project will adhere to all applicable legislation

Disclaimer INFC is not responsible for any losses which may result from a project that does not meet the program eligibility requirements.

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