

December 21, 2018

EDI Project No: 18Y0511

Mackenzie Valley Land and Water Board
7th Floor, 4922 48th Street, PO. Box 2130
Yellowknife, NT X1A 2P6

Attention: Jen Potten, Regulatory Coordinator

RE: Draft Water Licence Application

**Mackenzie Valley Land
& Water Board**

File MV2018L8-0007

DEC 24 2018

Application # _____

Copied To JM/JP

Eiffage Canada (Eiffage) has been contracted by the Government of Northwest Territories – Department of Infrastructure to rehabilitate the Hay River to Pine Point Bridge (the Project), located at KM 2.2 on the Fort Smith Highway (No. 5), approximately 5 kilometers (km) south of the community of Hay River, Northwest Territories. The Project includes removal and disposal of the existing bridge superstructure; partial demolition and reconstruction of the substructure (e.g., highway bridge pier and abutment portions); fabrication, supply and erection of a new steel highway superstructure; and roadway approach work.

To complete the reconstruction of the piers, Eiffage is proposing to construct an ice bridge to provide a level work space and travel corridor across the Hay River for the equipment (e.g., cranes, support vehicles) as well as temporary crane pads to facilitate the rehabilitation work and reduce the amount of work within the watercourse. It is our understanding that according to the requirements of the Waters Regulations, Schedule D, Item 1(b)(GNWT 2014), a Water Licence is not required for the construction of the ice bridge as Eiffage will be withdrawing less than 100 cubic metres of water from the Hay River. However, Eiffage is required to construct temporary crane pads (which will be designed using construction bags filled with granular material) will occur below the high-water mark, which according to Schedule H, Item 3, is considered 'waste material' that will be deposited. As such, Eiffage is required to submit a Water Licence application to the Mackenzie Valley Land and Water Board (MVLWB).

On behalf of Eiffage, EDI Environmental Dynamics Inc. (EDI) has prepared the following Water Licence application for review and approval. As part of this application, we have included the application form along with an Environmental Construction Operations Plan (ECO Plan) that outlines the scope of the proposed activities associated with the construction and removal of the temporary crane pads and ice bridge, the potential environmental effects, and recommended mitigation measures that will be implemented.



As part of the Water Licence application, we understand that a number of management plans are required, and we have included copies of the following management plans as appendices within the ECO Plan report that can be referred to as part of your review of this application:

- Waste Management Plan;
- Spill Contingency Plan; and
- Erosion and Sediment Control Plan

Further, to document other studies that have recently been completed as part of the Project, we have also included a copy of the Fish and Fish Habitat Assessment report that details the findings of our site visit that was completed on October 4, 2018 and an assessment of the fish habitat characteristics at the Project site. This report will accompany our application to the Fisheries and Oceans Canada (DFO) as part of the Request for Review, that will be completed when the Water Licence has been received from the MVLWB.

We trust that this application includes the necessary information required for your review. If you have any questions or require additional information, please contact our office at your convenience.

Yours truly,

EDI Environmental Dynamics Inc.

Cameron Jackson, M.Sc., P. Biol.
Senior Biologist/Project Manager

Attachments: Water Licence application form
 ECO Plan report
 Survey plans
 Fish Habitat Assessment report



Mackenzie Valley Land and Water Board

7th Floor - 4922 48th Street, PO Box 2130

Yellowknife, NT. X1A 2P6

☎ 867-669-0506

☎ 867-873-

6610 🌐

mvlwb.com

Water Licence Application Form

(Subsection 6(1) of the Northwest Territories Water Regulations)

APPLICATION/LICENCE NO: _____

(Amendment or Renewal only)

1. NAME AND MAILING ADDRESS OF APPLICANT

Applicant's Name Eiffage Canada

Mailing Address 3455 Landmark Road

Community Burlington

Prov/Terr Ontario Postal Code L7M 1T4

Telephone 905.351.2596 Fax

Email pierric.lepert@ic2i.ca

2. ADDRESS OF HEAD OFFICE IN CANADA IF INCORPORATED

Mailing Address 3455 Landmark Road

Community Burlington

Prov/Terr Ontario Postal Code L7M 1T4

Telephone 905.351.2596 Fax

3. LOCATION OF UNDERTAKING

(Describe and attach a map, indicating watercourses and location of any proposed waste deposits)

Details of the location of the proposed undertaking are included in attached ECO Plan report.

Longitude 60°45'10" N Latitude 115°49'19"

4. DESCRIPTION OF UNDERTAKING

(Describe and attach plans)

To facilitate construction and rehabilitation activities of the bridge, Eiffage is proposing to construct temporary crane pads on either side of the Hay River. The temporary crane pads will be designed using construction bags filled with granular material to provide a working platform on which construction equipment (e.g., cranes) will be positioned. The construction bags will be placed into position to create the temporary crane pads using booms or similar type equipment and a granular platform will be placed inside the area delineated by the bags which will provide a level work area for the crane. Once the crane is installed on the pad it can then assist with the rehabilitation of the bridge superstructure and decking without having to enter the river or disturb the banks of the channel. Upon completion of the works, the platform and construction bags will be disassembled with little disturbance to the banks and slopes of the river valley anticipated.

Details on the proposed undertaking are included in attached ECO Plan report and survey plans.

5. TYPES OF UNDERTAKING

Details on the proposed undertaking are included in attached ECO Plan report.

6. WATER USE

Details on the proposed water use are included in attached ECO Plan report. This includes proposed in-water construction activities to repair the bridge piers within the Hay River channel, as well as the details regarding water withdrawal for the construction of the ice bridge.

7. QUANTITY OF WATER INVOLVED

(Litres per second, litres per day or cubic metres per year, including both quantity to be used and quality to be returned to source)

The quantity of the water for the construction of the ice bridge is anticipated to be less than 100 cubic metres/day.

8. WASTE DEPOSITED

(Quantity, quality, treatment and disposal)

Details on the wastes generated and their disposal means are included in the attached waste management plan appended as part of the ECO Plan report.

9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING

(Give name, mailing address and location; attach list if necessary)

N/A.

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION

Details on the predicted environmental impacts and proposed mitigation measures are included as part of the attached ECO Plan report.

11. CONTRACTOR AND SUB-CONTRACTORS

(Names, addresses and functions)

Eiffage Canada
3455 Landmark Road
Burlington, ON, L7M 1T4

Eiffage Canada will be responsible for constructing the temporary crane pads and building the ice road/bridge across the Hay River to facilitate repairs to the bridge.

12. STUDIES UNDERTAKEN TO DATE

Site visit along with a fish and fish habitat assessment completed on October 4 and 5, 2018. Details of the site visit and fish and fish habitat assessment are included as part of the attached Fish and Fish Habitat Report for the Hay River to Pine Point Bridge Replacement Project.

13. PROPOSED TIME SCHEDULE

Start Date: February 1, 2019

Completion Date: March 31, 2019

_____	_____	_____
Name (Print)	Title (Print)	
_____	_____	_____
Signature	Date	

FOR OFFICE USE ONLY

Application Fee Amount: \$ _____ Receipt No.: _____

Water Use Deposit Amount: \$ _____ Receipt No.: _____

(Please make all cheques payable to the Receiver General)

