Preliminary Screening Report Form

Preliminary screener: MVLWB **Reference / File number:** MV2018L8-0007 **TITLE:** Pine Point Bridge Rehabilitation **ORGANIZATION:** Eiffage Canada Inc. **MEETING DATE:** February 21, 2019	**EIRB** **Reference number:**

Type of Development:
(CHECK ALL THAT APPLY)

- ☒ New
- ☐ Amend, EIRB Ref. #
- ☒ Requires permit, licence, or authorization
- ☐ Does not require permit, licence, or authorization

Project Summary:

Eiffage Canada Inc. (Eiffage) was contracted by the Government of Northwest Territories - Department of Infrastructure (GNWT-INF) to rehabilitate the Hay River to Pine Point Bridge (the Project), located on Highway 5 at KM 2.2, approximately 5 km south of the Town of Hay River, NT. 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; roadway approach activities including an ice bridge; and associated closure and reclamation activities. Activities are proposed to occur between February 1 and June 15, 2019.

Eiffage will construct temporary crane pads on both banks 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.

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 Hay River for the construction equipment as well as temporary crane pads to facilitate the rehabilitation work and reduce the amount of work within the watercourse. This will require limited local water withdrawal upstream and downstream of the work site. The quantity of the water for the construction of the ice bridge is anticipated to be less than 100 cubic metres/day.

Scope:

- Construction of temporary crane pads and access ramps;
- Widening of existing access roads;
- Construction of an ice road;
- In-water construction activities to repair existing bridge piers;
- Construction of new bridge superstructure;
- Use of fuel; and
- Use of equipment.

Land Use Eligibility - Section 18 Mackenzie Valley Land Use Regulations:

Type of Disposition	Disposition Number(s)
☐ Mineral Claims	
☐ Prospecting Permit (s)	
☐ Mineral Leases	
☐ Oil and Gas: EL/SDL/PL	
☐ Quarry Permit	
☐ Timber Permit	
☒ Other:	GNWT-INF contract 0000001993

Principal Activities (*related to scoping)* (CHECK ALL THAT APPLY)

- ☒ Construction
- ☒ Installation
- ☒ Maintenance
- ☐ Expansion
- ☐ Operation
- ☒ Repair
- ☐ Research
- ☒ Water Intake
- ☐ Other:
- ☐ Exploration
- ☒ Industrial
- ☐ Recreation
- ☐ Municipal
- ☐ Quarry
- ☐ Linear / Corridor
- ☐ Sewage
- ☐ Decommissioning
- ☐ Abandonment
- ☐ Aerial
- ☐ Harvesting
- ☐ Camp
- ☐ Scientific/
- ☐ Solid Waste

Principal Development Components (*related to scoping*) (CHECK ALL THAT APPLY)

- ☒ Access Road
  - ☐ construction
  - ☐ abandonment/removal
  - ☒ modification e.g., widening, straightening
- ☐ Automobile, Aircraft or Vessel Movement
- ☐ Blasting
- ☒ Building
- ☐ Burning
- ☐ Burying
- ☐ Channelling
- ☐ Cut and Fill
- ☐ Cutting of Trees or Removal of Vegetation
- ☐ Dams and Impoundments
  - ☐ construction
  - ☐ abandonment/removal
  - ☐ modification
- ☐ Ditch Construction
- ☒ Drainage Alteration
- ☐ Drilling other than Geoscientific
- ☐ Ecological Surveys
- ☒ Excavation
- ☐ Explosive Storage
- ☒ Fuel Storage
- ☒ Topsoil, Overburden or Soil
  - ☐ fill
  - ☐ disposal
  - ☒ removal
  - ☒ storage
- ☒ Waste Management
  - ☒ disposal of hazardous waste
  - ☒ waste generation
  - ☐ sewage
  - ☒ disposal of sewage
- ☐ Geoscientific Sampling
- ☐ Trenching
- ☐ Diamond drill
- ☐ Borehole core sampling
- ☐ Bulk soil sampling
  - ☐ gravel
  - ☐ hydrological Testing
- ☒ Site Restoration
  - ☐ fertilization
  - ☐ grubbing
  - ☐ planting/seeding
  - ☐ reforestation
  - ☐ scarify
  - ☐ spraying
  - ☒ re-contouring
- ☒ Slashing and removal of vegetation
- ☐ Soil Testing
- ☒ Stream Crossing/Bridging
- ☐ Tunnelling/Underground
- ☒ Other: Ice Road Construction

NTS topographic map sheet numbers:

Latitude / longitude and UTM system:
60.75277777777778 N, - 115.82194444444444 E
UTM Zone 11

Nearest community and water body:
(community) Hay River, NT
(water body) Hay River

Land Status (*consultation information*)

- ☐ Free Hold/Private
- ☒ Commissioner's/Territorial Lands
- ☐ Federal Crown Land
- ☐ Municipal Land

Transboundary/Transregional Implications

- ☐ British Columbia
- ☐ Alberta
- ☐ Saskatchewan
- ☐ Yukon
- ☐ Nunavut
- ☐ National Park
- ☐ Inuvialuit Settlement Region
- ☐ Wek'èezhìi
- ☐ Gwich'in
- ☐ Sahtu

Type of transboundary implication: ☐ Impact / Effect ☐ Development

☐ Public concern: _____
(Describe.)

Physical - Chemical Effects

Impact	*Mitigation*
1) Ground Water	
☐ water table alteration	
☐ water quality changes	
☐ infiltration changes	
☐ other:	
☒ N/A	

Impact	*Mitigation*
2) Surface Water	
☐ flow or level changes	
☒ water quality changes	Potential sediment disturbance or introduction. To be mitigated by installation of silt fencing around construction areas and material stockpile; minimizing sediment deposition in snow; use of construction bags with coarse material only; installation and removal of construction bags by boom; refueling minimum 100 m from water; redirection of road run-off to vegetated or low gradient areas; minimizing vegetation clearance in riparian areas; contouring of work surface to prevent pooling; installation of erosion controls such as sheeting and fabric.
☐ water quantity changes	
☐ drainage pattern changes	
☐ temperature	
☒ wetland changes/loss	Minimizing vegetation clearance in riparian areas.
☐ other:	
☐ N/A	

Impact	*Mitigation*
3) Noise	
☒ noise in/near water	There will be an increase of noise during construction. The sole mitigation measure planned is to shut down equipment when not in use to minimize noise.
☒ noise increase	There will be an increase of noise during construction. The sole mitigation measure planned is to shut down equipment when not in use to minimize noise.
☐ other:	
☐ N/A	

Impact	*Mitigation*
4) Land	
☐ geologic structure changes	

☒ soil contamination	Implementation of the Spill Contingency Plan (e.g. such as use of spill trays, spill kits, regular inspection of equipment, spill response) will mitigate concerns related to the possibility of hydrocarbon spills at the site. In the event of spills contaminated soil will be isolated and removed.
☐ buffer zone loss	
☒ soil compaction and settling	Topsoil salvage and replacement.
☒ destabilization/erosion	The ECO Plan discusses erosion mitigation measures including installation of erosion controls such as sheeting and fabric; diversion of run-off to ditches; and grading and contouring to minimize erosion.
☐ permafrost regime alteration	
☐ explosives/scarring	
☐ other:	
☐ N/A	

Impact	*Mitigation*
5) Non-renewable natural resources	
☐ resource depletion	
☐ other:	
☒ N/A	

Impact	*Mitigation*
6) Air/climate/atmosphere	
☐ other:	
☒ N/A	

BIOLOGICAL ENVIRONMENT

Impact	*Mitigation*
1) Vegetation	
☐ species composition	
☒ species introduction	Weed control measures such as cleaning equipment prior to arrival on site will be implemented. Disturbed areas will be re-seeded and revegetated as soon as practical with an approved certified seed mixture.
☐ toxin/heavy accumulation	
☐ other: Linear Migration routes, habitat fragmentation	
☐ N/A	

Impact	*Mitigation*
2) Wildlife and Fish	
☐ effects on rare, threatened or endangered species	

☐ fish population changes

☐ waterfowl population changes

☐ breeding disturbance

☐ population reduction

☐ species diversity change

☐ health changes

☐ behavioural changes

☒ habitat changes / effects — Outlined in a Fish Habitat Assessment. The erosion control and spill response measures mentioned earlier will also limit effects on fish and other aquatic organisms. Construction on ice in winter/spring will limit effects on habitat.

☐ game species effects

☐ toxins/ heavy metals

☐ forestry changes

☐ agricultural changes

☐ other:

☐ N/A

Interacting Environment

Impact ***Mitigation***

1) Habitat and Communities

☐ predator-prey

☐ wildlife habitat/ecosystem composition changes

☐ reduction/removal of keystone or endangered species

☐ removal of wildlife corridor or buffer zone

☐ other:

☒ N/A

Impact ***Mitigation***

2) Social and Economic

☐ planning/zoning changes or conflicts

☐ increase in urban facilities or services use

☐ rental house

☐ airport operations/capacity changes

☐ human health hazard

☐ impair the recreational use of water or aesthetic quality

☐ affect water use for other purposes

☐ affect other land use operations

☐ quality of life changes

☐ public concern

☐ other:

☒ N/A

Impact	*Mitigation*
3) Cultural and Heritage	
☐ effects to historic property	
☐ increased economic pressure on historic properties	
☐ change to or loss of historic resources	
☒ change to or loss of archaeological resources	All work will be suspended at that location, in the unlikely event that a suspected archaeological and/or paleontological site is discovered. Eiffage will immediately contact the regulatory authorities to determine the appropriate course of action.
☐ increased pressure on archaeological sites	
☐ change to or loss of aesthetically important sites	
☐ effects to aboriginal lifestyle	
☐ other:	
☐ N/A	

- Pursuant to Schedule 4.1 of the **Northwest Territory Métis Nation** (NWTMN) Interim Measures Agreement, the MVLWB determined that written notice was given to the NWTMN and that a reasonable period of time was allowed for NWTMN to make representations with respect to the application.

- Pursuant to section 27, paragraphs (a) and (b) of the **Dehcho First Nations** (DCFN) Interim Measures Agreement, the MVLWB has determined that written notice was given to the DCFN, and that a reasonable period of time was allowed for DCFN to make representations with respect to the application.

Preliminary Screener / Referring Body Information

Organization	Organization
Acho Dene Koe First Nation (ADKFN)	
Akaitcho IMA Implementation Office	Hamlet of Fort Providence
Athabasca Denesuline Council	Hamlet of Fort Resolution
Bathurst Inlet Development Ltd.	INAC – CARD
Bathurst Inlet Lodge	INAC – NWT Inspectors
BNT Gold Resources Ltd.	Ka'a'gee Tu First Nation (KTFN)
CanNor NWT Region	Katlodeeche First Nation (KFN)
CanZinc Corporation	Liard First Nation (Yukon)
City of Yellowknife	Liidlii Kue First Nation (Ft Simpson) (LKFN)
CPAWS – NT Chapter	Lutsel K'e Dene First Nation (LKDFN)
Deh Cho Land Use Planning Committee	Mackenzie Valley Environmental Impact Review Board
Deh Gah Got'ie Dene Council	(MVEIRB)
Dehcho First Nations (DFN)	Mackenzie Valley Land and Water Board (MVLWB)
Dene Nation	Manitoba Denesuline
Dene Tha' First Nation	Naha Dehe Dene Band
Deninu K'ue First Nation (DKFN)	National Energy Board (NEB)
Det'on Cho Corporation	North Slave Metis Alliance (NSMA)
Digaa Enterprises Ltd.	Northwest Territory Metis Nation (NWTMN)
Environment and Climate Change Canada (ECCC)	NWT & Nunavut Chamber of Mines
Fisheries and Oceans Canada (DFO)	Parks Canada
Fort Providence Metis Council #57	Pehdzeh Ki First Nation (Wrigley)
Fort Providence Resource Management Board	Ross River Dena Council
Fort Resolution Metis Council	Salt River First Nation (SRFN)
Fort Simpson Metis Local 52	Sambaa Ke First Nation (Trout Lake) (SKFN)
Forward Mining	Smith's Landing First Nation (SLFN)
General Public – Bruce McDonald	Snap Lake Environmental Monitoring Agency (SLEMA)
General Public – Thomas Carey	Tłı̨chǫ Government
GNWT - ECE	Tłı̨chǫ Lands Protection Department
GNWT - ENR	Town of Fort Smith
GNWT - Health	Transport Canada
GNWT - INF	Tthets'ek'ehdeli First Nation (JMR)
GNWT - ITI	West Point First Nation
GNWT - Lands	Wek'èezhìı Land and Water Board (WLWB)
GNWT – MACA	Workers' Safety and Compensation Commission (WSCC)
GNWT – OROGO	Yellowknives Dene First Nation (YKDFN)
Golder Associates	

Reasons For Decision
(List all reasons and supporting rationales for preliminary screening decision)

DECISION

The Mackenzie Valley Land and Water Board (the Board) is satisfied that the preliminary screening of Application MV2018L8-0007, Eiffage Canada Inc., Pine Point Bridge Rehabilitation, near Hay River, NT has been completed in accordance with section 125 of the *Mackenzie Valley Resource Management Act* (MVRMA).

The Board is satisfied that communities and First Nations affected by the Application have been notified and provided adequate time to provide comment on the Application as required by land claim and self government agreements, the MVRMA, policy directions relating to Interim Measures Agreements, and any other applicable legislation and agreements.

Having reviewed all relevant evidence on the Public Registry, including the submissions of the Applicant, the written comments received by the Board and any Staff Reports prepared for the Board, the Board has decided that in its opinion:

- The proposed development will not have a significant adverse impact on the environment; and
- The proposed development is not a cause of public concern.

The Board is also of the opinion that the Application can proceed through the regulatory process and that any impacts of the development on the environment can be mitigated through the imposition of the terms and conditions in the attached Water Licence.

As a result, the Board, having due regard to the facts and circumstances, the merits of the submissions made to it, and to the purpose, scope, and intent of the *Waters Act* and Waters Regulations has decided that this Water Licence be issued subject to the terms and conditions contained therein.

	Preliminary Screening Decision
☒	**Outside Local Government Boundaries**
☐	The development proposal might have a significant adverse impact on the environment, *refer it to the EIRB*.
☒	*Proceed with regulatory process and/or implementation.*
☐	The development proposal might have public concern, *refer it to the EIRB*.
☒	*Proceed with regulatory process and/or implementation.*
☐	**Wholly Within Local Government Boundaries**
☐	The development proposal is likely to have a significant adverse impact on air, water or renewable resources, *refer it to the EIRB*.
☐	*Proceed with regulatory process and/or implementation*.
☐	The development proposal might have public concern, *refer it to the EIRB*.
☐	*Proceed with regulatory process and/or implementation*.

Preliminary Screening Organization

Mackenzie Valley Land and Water Board

February 21, 2019

Signatures

Mavis Cli-Michaud, Chair