Project Dashboard

Kivalliq Hydro-Fibre Link (149542)

Proposal Status: Conformity Determination Issued

Project Overview

Type of application: **New**

Proponent name:	Kono Tattuinee
Company:	Kivalliq Inuit Association

Schedule:

Start Date:	2021-04-27
End Date:	2023-04-27
Operation Type:	Annual

Project Description:
The Kivalliq Hydro-Fibre Link is a renewable energy and broadband internet infrastructure project led by the Kivalliq Inuit Association ("KIA") of Nunavut. The Project's vision is to build a 1,200km high- voltage electricity transmission line, which will connect to over 370km of lower voltage 'feeder' lines to link five communities in Nunavut (Map 1). The Project will connect communities of the Kivalliq region of Nunavut (Arviat, Baker Lake, Chesterfield Inlet, Rankin Inlet and Whale Cove) to the Manitoba electricity and fibreoptic grids. The Project will be rated at 150 megawatts (MW) of capacity and have a fibreoptic bandwidth capacity of at least 1,200 gigabits per second (Gbps). This will be Nunavut's first infrastructure link to southern Canada and will provide enough power and fibreoptic internet capacity for the Kivalliq region for generations to come. Importantly, the Project will also provide renewable energy and fibreoptic internet to the mining industry in Nunavut allowing for more sustainable operations.

Personnel:

Persons:	5
Days:	30

Project Map

List of all project geometries:

ID	Geometry	Location Name
7774	polygon	Medium voltage to Arviat
7775	polygon	Medium voltage to Meadowbank
7776	polygon	Medium voltage to Rankin Inlet, Meliadine, and Chesterfield Inlet
7777	polygon	Medium voltage to Whale Cove
7778	polygon	PC_1

Planning Regions:
Kitikmeot

Affected Areas and Land Types
Inuit Owned Surface Lands
Municipal
Extablished National or Territorial Park
Settlement Area
Keewatin Planning Region

Project Land Use and Authorizations

Project Land Use

Scientific Research
Scientific Research
Licensing Agencies
GN-DOE: Wildlife Research Permit
NRI: Scientific Research Licence
DFO: Fish for Scientific Purposes Permit
NWB: Approval to Use Water/Deposit Water Without a Licence
CH: Archaeology and Paleontology Research Permit, Class I
KivIA: Exemption Certificate
INAC: Class B Land Use Permit
Other Licensing Requirements
No data found.

Material Use

Equipment

Type	Quantity	Size	Use
Reconyx Remote Camera	20	15X25X 10 cm	Recording photos of wildlife
Autonomous Recording Units	25	22x17x8	Provide data on song and waterbird presence
Helicopter	1	4 passengers	Overflights of proposed development corridor and crew transport between research sites
Ground temperature sensors	10	2x120x2	Ground temperature sensors will be installed to understand active layer dynamics and sensitivity to climate change.

Fuel Use

Type	Container(s)	Capacity	UOM	Use
Aviation fuel	28	205	Liters	Overflight of proposed development corridor and crew transport

	between research sites

Hazardous Material and Chemical Use

Type	Container(s)	Capacity	UOM	Use
No records found.				

Water Consumption

Daily Amount (m^3)	Retrieval Method	Retrieval Location
0		

Waste and Impacts

Environmental Impacts

Potential for wildlife disturbance during ground activities and helicopter overflights. Ground activities typically limited to groups of 3 people along proposed development corridor. Researchers will avoid known important wildlife locations (e.g., nests) and will travel with local Inuit Wildlife Monitor who will be responsible for spotting wildlife and taking action to avoid crew interactions with wildlife. Helicopter altitude will ensure that animals are not dispersed, and any circling will be minimal at an altitude sufficient to not cause disturbance. Helicopter flights, installation of equipment, and any aquatic habitat investigation will adhere to guidelines issued by the responsible regulatory authority to minimize effects.

Waste Management

Waste Type	Quantity Generated	Treatement Method	Disposal Method
No data found.			