NPC 150521: Hydrology Modelling for McKeand River South

Close

Proposal Status: Conformity Determination Issued

Overview Documents

Project Overview

Type of application: New

Proponent name:

Heather Shilton

Proponent company:

Nunavut Nukkiksautiit Corporation

Project Description:

Nunavut Nukkiksautiit Corporation (NNC) plans to collect river flow data at McKeand River South, 60km Northeast of Iqaluit. This is a part of the feasibility stage of investigating the potential for community scale waterpower in Iqaluit. NNC has contracted Sea to Sky Energy Solutions (SSES) to complete the design, installations and monitoring of the two hydrometric stations. Due to the remoteness of the site the SSES design team has recommended the installation of two instream gauging systems to mitigate the risk of data gaps as well as need for redundant onsite visits. The stations that will be deployed are Fathom AutoSalt hydrometric monitors, that inject salt into the stream to collect flow measurements. These systems transmit data via satellite, the SSES team will monitor this data remotely. These measuring systems will be collecting data for a one-year period. Following the decommissioning of these monitoring systems, the data will be analyzed and summarized in a final report.

Project Schedule

Start Date:

2024-10-11

End Date:

2025-10-11

Project Map

List of project geometries:

Id

Geometry

Location Name

13922

point

Mckeand River South

NPC Planning regions:

No Approved Plan

Project Land Use and Authorizations

Project Land Use:

Hydro Development

Marine-Based Activities

Scientific Research

Temporary Structures

Licensing Agencies:

Nunavut Research Institute

Material Use

Equipment:

Type

Quantity

Type

Use

AutoSalt water flow monitoring systems

2

24.5 x 23 x 48 tall

The two AutoSalt monitoring systems will be commissioned in the Mckeand River to monitor water flow for a one-year period.

Fuel Use:

Type

Container

Capacity

Use

No data found

Hazardous Material and Chemical Use:

Type

Container

Capacity

Use

No data found

Water Consumption:

Daily Amount (m^2)

Retrieval Method

Retrieval Location

0

Waste and Impacts

Environmental Impacts:

N/A

Waste Management:

Waste Type

Quantity Generated

Treatement Method

Disposal Method