

# CONSTRUCTION TIMELINE



The estimated timelines to start construction of the Itivia project



BYPASSROAD

START JUNE 2017  
COMPLETION NOVEMBER 2017



LAYDOWNAREA

APRIL 2017



QUARRY

JUNE 2017

# POTENTIAL IMPACTS

THE ITIVIA PROJECT WILL GENERATE DISTURBANCE SUCH AS INCREASED TRAFFIC, NOISE, VIBRATION AND DUST.

DURING THE CONSTRUCTION AND OPERATION STAGE, SENSORY DISTURBANCES TO WILDLIFE MAY OCCUR.





NOISE



DURING CONSTRUCTION, NOISE WILL BE GENERATED PRIMARILY FROM INCREASED TRAFFIC, DRILLING, CRUSHING AND BLASTING ACTIVITIES.

BASELINE NOISE MONITORED IN RANKIN INLET



DAYTIME between 54 to 64 dB (decibels)



NIGHTTIME between 45 to 52 dB (decibels)



DURING CONSTRUCTION, noise levels are anticipated to increase a maximum of 6 decibels above the actual Rankin Inlet baseline

ENVIRONMENTAL NOISE



WEAKEST SOUND HEARD 0 dB (decibels)



NORMAL CONVERSATION at 3-5 feet from one another 60-70 dB (decibels)



DIAL TONE OF TELEPHONE 80 dB (decibels)



POWER SAW (CHAIN SAW) 110 dB (decibels)

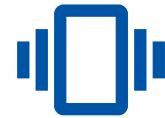


JET ENGINE at 100 feet 140 dB (decibels)

When starting construction, noise levels will be audible South of town, but unlikely to disturb either outdoors or indoors.

As construction activities progress, noise levels will likely be difficult to distinguish against baseline noise levels from anywhere in Rankin Inlet.

VIBRATION



VIBRATIONS WILL RESULT FROM QUARRY BLAST EXPECTED TO OCCUR 2-3 TIMES PER WEEK.

VIBRATIONS WILL RESULT FROM LAYDOWN BLAST EXPECTED TO OCCUR ONCE PER DAY FOR A 30-35 DAY PERIOD.

DUST



THE PRIMARY ACTIVITIES RESULTING IN DUST EMISSIONS INCLUDE DRILLING, CRUSHING AND TRAFFIC.



## TRAFFIC

THE CONSTRUCTION PERIOD FOR THE ITIVIA PROJECT AND THE BYPASS ROAD WILL GENERATE AN INCREASE IN TRAFFIC WITHIN THE BOUNDARIES OF THE COMMUNITY.

A Pre-Blast Procedure will be established and detail all preventive measures including:

- ▶ DETAILS ON SECURING THE IMMEDIATE AREA
- ▶ APPROPRIATE SIGNAGE TO BE INSTALLED
- ▶ WARNING SIREN TO ADVISE OF THE UPCOMING BLAST

The Pre-blast procedures will be made available for the community on [aemnunavut.ca](http://aemnunavut.ca).



## MITIGATION ACTIONS

TO MITIGATE NOISE, VIBRATION AND DUST, AGNICO EAGLE WILL PROVIDE THE FOLLOWING CONTROLS:

- ▶ Limit blasting operations during normal daytime hours only
- ▶ All blasts will be monitored for vibration using seismometers.
- ▶ All drilling equipment will have dust suppression material.
- ▶ The crusher will be equipped with a bag house and will be located in an area to minimize dust emissions.
- ▶ Loading, hauling and placing of materials and sea cans are not expected to generate dust however a dust suppressant will be used when required.
- ▶ Measures to mitigate impacts on wildlife habitat and reduce sensory disturbances include:
  - Minimize the construction footprint.
  - Follow safe and approved blasting procedures to reduce sensory disturbances.

All areas such as the boat launch, the laydown area, the Itivia Quarry will be properly demarcated with signage.

Permanent berms, fencing, and signage is considered once the quarry is finished.

Guards will ensure no one enters the blast radius zone.