



AGNICO EAGLE

MELIADINE GOLD PROJECT

Screening Decision Report 16QN071

APRIL 2019



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SECTION 1 • SUMMARY

During 2018, material was extracted from Itivia Quarry for the construction of the Bypass Road and associated laydown areas. The location of the quarry is shown in Figure 1. Approximately 8,800 m³ of material was blasted using four production blasts. Approximately 21,800m³ of material was extracted, including approximately 13,000 m³ blasted in 2017. A diagram showing the locations of the blasts is provided in Appendix A.



Figure 1 and 2 Itivia Quarry Boundary and Blast Location

SECTION 2 • ENVIRONMENTAL MANAGEMENT

Agnico Eagle environment department personnel conducted thorough inspections of the site. Surface water samples were collected in accordance with Nunavut Water Board, Water License 2AM-MEL1631, to monitor surface water runoff at the lease boundary. Samples were collected at designated locations and analyzed in accordance license requirements, including total suspended solids (TSS) and acid rock drainage (ARD) potential.

Four surface water runoff samples were collected. Analysis of a sample collected on 27th May 2018 indicated high TSS. Regulatory bodies were notified in accordance with license conditions, mitigation measures were implemented and a follow-up report was submitted. Mitigation measures included the installation of a series of straw logs to reduce flow and filter sediment, in conjunction with, increased monitoring.

A total of 4 rock samples were collected; according to the results of the analyses, all quarried material was non-potentially ARD generating (NPAG). Agnico Eagle personnel managed the effects of the quarry on the wildlife. No wildlife was present during blasting activities and no bird nests were recorded during inspections prior to the quarrying activities.

SECTION 3 • COMPLIANCE

During the 2017 surface blasting campaign, Agnico Eagle utilized an Instantel Minimate Pro4 seismograph to record blast vibration. This device was tested in 2018, but due to a technical issue, the device was required to be sent south for repair and calibration. Agnico Eagle then rented two Nomis Mini Supergraph II from Geophysique GPR International Inc., which arrived on site in December 2018. Hence, no blast monitoring was able to be completed as all blasts were already performed. Blast size were conducted according to the seismograph monitoring conducted in 2017 where no exceedance was recorded. In addition, all blasts conducted in 2018 used less explosives and the blasts were smaller in size.

To manage potential adverse impacts of quarry development on the water bodies, a 31 m buffer between the fuel storage and fuel refill locations was enforced. Agnico Eagle maintained an undisturbed buffer between the quarry and the high water mark for erosion control. Environment department staff conducted weekly inspections on site to ensure compliance with the screening decision.

SECTION 4 • RECLAMATION

Itivia Quarry was actively exploited during 2018, and will not be used in 2019. Following completion of the quarrying operations, the quarry was reclaimed. Agnico Eagle proceeded to the reclamation according to the quarry conditions by removing all equipment and material, stabilizing and gently sloping the walls. Once the reclamation work was completed, a GN Regional Lands Administrator and a Hamlet foreman inspected the quarry and confirmed in October 2018 that they were satisfied with the current state of the Itivia quarry site.



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SECTION 6 • SOCIO-ECONOMIC INITIATIVES

Quarrying activities were undertaken by MTKSL as a part of a larger contract to build the initial 1.3 km of the Rankin Inlet Bypass road under a contract with Agnico Eagle. Sub-contractors Canadrill (Nunavut based) and McCaw's Drilling and Blasting were employed by MTKSL.

At least three haul truck drivers were hired locally for this particular contract.

Meetings were held with Hamlet representatives prior to the blasting campaign to allow any concerns to be addressed. Email notifications were distributed to stakeholders prior to each blast.

APPENDIX A • BLAST ZONES

