



AGNICO EAGLE

January 2017

Itivia Quarry: Main Application Document

Submitted to:
Nunavut Impact Review Board
29 Mitik Street PO Box 1360
Cambridge Bay, NU X0B 0C0

EXECUTIVE SUMMARY

Agnico Eagle Mines Limited (Agnico Eagle) is developing the Meliadine Gold Project (Project), located approximately 25 kilometres (km) north of Rankin Inlet, and 80 km southwest of Chesterfield Inlet in the Kivalliq Region of Nunavut. Situated on the western shore of Hudson Bay, the proposed Project site is located on a peninsula between the east, south, and west basins of Meliadine Lake (63°1'23.8" N, 92°13'6.42"W).

To support the Project, infrastructures will be developed in Rankin Inlet, in the Itivia harbour area. These infrastructures include a bypass road, and a fuel farm and laydown area which are incorporated within Project Certificate 11MN034 and Water License 2AM-MEL1631.

Agnico Eagle is proposing to use the Itivia Quarry (62°47'58.88" N, 92°04'50.48"W) located within the boundaries of the Hamlet of Rankin Inlet as the source of material for the Itivia laydown and bypass road. Approximately 200,000 m³ of solid rock (300,000 m³ from quarry) will be required from the Itivia Quarry to build these infrastructures. Material will be extracted using a drilling & blast method. Activities would start in March 2017 and would continue until September 2017 pending regulatory approval.

During quarrying operations, Agnico Eagle will use existing infrastructures at the Meliadine Project Site and no new roads will need to be built to access this site. The quarry site will be accessed using municipal roads and the Meliadine All-Weather Access Road. This Project will not require erection of new structures. There will be no fuel tank or hazardous material storage facility at the Itivia Quarry. Resupply of diesel and emulsion required for operations will be done daily or when required by trucks coming from the Meliadine site.

Alternatives assessed include quarry sites along the Meliadine All-Weather Access Road and approved under quarry leases with the KIA and quarry sites located on Commissioner's Land but located further away from the Itivia laydown and bypass road areas. The Itivia Quarry was chosen based on its close proximity to the Project reducing costs and to make the Itivia area cleaner, safer, better organized and nicer looking for the community of Rankin Inlet.

The primary potential environmental impacts include: noise, vibration and dust. To mitigate noise, vibration and dust, Agnico Eagle will provide controls including:

1. Daytime blasting only;
2. Blast monitoring for vibration and noise;
3. Dust suppression on drilling equipment;
4. Crusher location selected to minimize dust emissions; and
5. Dust monitoring.

All waste generated at the Itivia Quarry will be brought back to the Meliadine site and handled as per approved management plans. The quarry will be tested for Acid Rock Drainage/Metal Leaching (ARD/ML) potential. No known archaeological and cultural sites are located in the area. In conclusion, based on best practices and proposed mitigation actions, no significant impacts are predicted at the Itivia Quarry.

Upon completion of operations in 2017, the quarry area will be decommissioned and left in a geo-technically stable state and reclaimed as the *Preliminary Closure and Reclamation Plan* approved under water Licence 2AM-MEL1631.

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DOCUMENT CONTROL

Version	Date	Section	Page	Revision
1	1/20/2017	All	All	Main Supporting Document for the NIRB Application

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ABBREVIATIONS, ACRONYMS, AND UNITS

Agnico Eagle	Agnico Eagle Mines Limited
ARD-ML	Acid Rock Drainage-Metal Leaching
CGS	Community & Government Services
GN	Government of Nunavut
Hamlet	Rankin Inlet Hamlet
km	Kilometre
ML	Metal Leaching
NIRB	Nunavut Impact Review Board
NPAG	Non-Potentially Acid Generating
NPC	Nunavut Planning Commission

1.0 INTRODUCTION

1.1 Background

Agnico Eagle Mines Limited (Agnico Eagle) is developing the Meliadine Gold Project, located approximately 25 kilometres (km) north of Rankin Inlet, and 80 km southwest of Chesterfield Inlet in the Kivalliq Region of Nunavut. Situated on the western shore of Hudson Bay, the proposed Project site is located on a peninsula between the east, south, and west basins of Meliadine Lake (63°1'23.8" N, 92°13'6.42"W).

Agnico Eagle is proposing to use the existing Itivia Quarry (62°47'58.88" N, 92°04'50.48"W) located within the boundaries of the Hamlet of Rankin Inlet as the source of material for the Itivia fuel farm and laydown, and Rankin Inlet bypass road (Figures 1 and 2). The quarry is located on Commissioner's Land. Approximately 300,000 m³ of rock will be required from the Itivia Quarry to build these infrastructures.

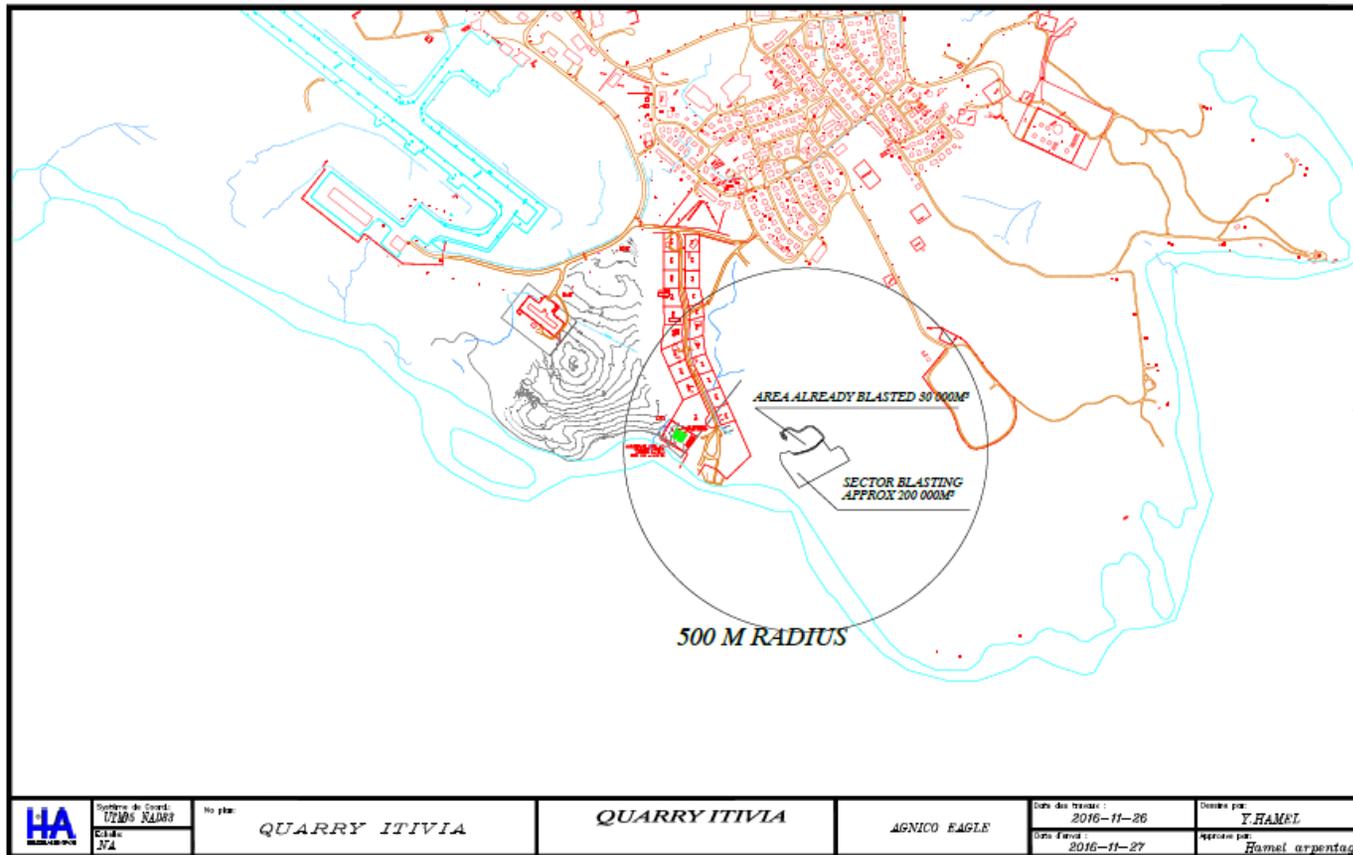
Following a conformity determination by the Nunavut Planning Commission (NPC) on December 22nd, 2016, Agnico Eagle is forwarding its project proposal to the Nunavut Impact Review Board (NIRB) for screening.

During quarrying operations, Agnico Eagle will use existing infrastructures at the Meliadine Project Site (camp, fuel tanks, emulsion plant, landfill, landfarm, incinerator) and no new roads will need to be built to access this site. There will be no fuel tank or hazardous material storage facility at the Itivia Quarry. Resupply of diesel and emulsion will be done daily or when required by trucks coming from the Meliadine site. All domestic solid waste, waste oil and sewage will be brought back to the Meliadine site and handled as per approved management plans.

The location of the proposed quarry is presented in Figure 1.

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Figure 1: Itivia Quarry location and road access.



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Figure 2: Aerial photo of Itivia Quarry prior to operations. The red polygon depicts the area where material is proposed to be extracted.



1.2 Proponent Information

The Meliadine Gold Project Property is owned and managed by Agnico Eagle Mines Limited (NYSE:AEM, TSX:AEM), a Canadian publicly traded mining company listed on the Toronto and New York Stock Exchange, trading symbol AEM, with head offices in Toronto, Ontario.

Agnico Eagle is a senior Canadian gold mining company that has produced precious metals since 1957. Its nine mines are located in Canada, Finland, and Mexico, with exploration and development activities in each of these regions as well as in the United States. Agnico Eagle began exploring for minerals in Canada since 1953 and has been active in the Kivalliq Region since 1990. In addition to the Meliadine Gold Project, Agnico Eagle owns and operates the Meadowbank mine. The Meliadine Gold Project has received a final Project Certificate from the NIRB and a NWB Type A.

Agnico Eagle is a senior mining company with a proven reputation for sustainability and economic success in Nunavut. Agnico Eagle has maintained strong relationships with the NIRB, NWB, and regulators on their projects, most notably on the recent approval for Amaruq Exploration Access Road, the Meliadine Project, and on the Meadowbank Mine Type A Water Licence Renewal. These relationships are built on thorough monitoring, reporting, and presentation of information to the regulators and stakeholders, backed by successful and accomplished operations.

Agnico Eagle's audited financial statements are available online at:

http://ir.agnicoeagle.com/files/doc_financials/2014/Annual-Audited-Financial-Statement-2014.pdf

The people who work for and with Agnico Eagle in advancing the Itivia Quarry Project are listed below:

Agnico Eagle – Meliadine Office:	Agnico Eagle Mines Limited P.O Box 874 Rankin Inlet X0C 0G0 Ph. 819-759-3555
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1.3 Authorizations

The Lead authorizing agencies for the Itivia Quarry Project are the Nunavut Planning Commission (NPC), the Nunavut Impact Review Board, the Government of Nunavut (GN) – Community and Government Services (CGS), and the Hamlet of Rankin Inlet (the Hamlet).

1.3.1 Land Use

Agnico Eagle has sole responsibility for the operation of the proposed Itivia Quarry Project.

Land Use Planning

All project proposals in the Keewatin Planning Region that require a licence or authorization from a land use authorizing agency must be assessed by the NPC for conformity with the Keewatin Regional Land Use Plan (NPC 2000). Agnico Eagle received an NPC conformity determination on December 22nd, 2016 for the Itivia Quarry Project (Refer to Appendix A).

Commissioner Land

As stated previously, the Itivia Quarry is located on Commissioner’s Land and managed by the GN. CGS administers the land on behalf of the GN and it intends to transfer ownership to the Hamlet in the future. As such, GN-CGS requires that the Project be approved by the Hamlet prior to issuing a quarry permit. On December 13th, 2016, the Hamlet Council passed a motion to approve the Itivia Quarry project. Please refer to Appendix B (Item 4, Resolution Number 163-16) for the Council’s motion. Please refer to Appendix C for GN-CGS’s non-objection letter to proceed with NIRB screening. Officials within the Department are requesting Agnico Eagle to go through the NIRB process first prior to issuing a quarry permit.

1.3.2 Current permits

A list of permits, licenses, agreements and approvals for the Itivia Quarry is presented in Table 1.

Table 1: Current Screenings, Licenses and Permits Held by Agnico-Eagle Mines Limited for the Itivia Quarry Project

Licence Number	Screening, License and Permit	Issued By	Date of Expiry	Remarks
	Conformity determination with Keewatin Regional Land Use Plan	NPC	NA	Allows project to proceed to screening by NIRB
	Council Motion (Dec. 13, 2016)	Hamlet of Rankin Inlet	NA	Approval required to obtain quarry permit from GN-CGS.
	Quarry Permit	Ongoing with GN-CGS	Unknown	GN-CGS will issue quarry permit upon NIRB review.

1.4 Project Schedule

The permitting and Operation schedule is presented in Table 2 below.

Table 2: Permitting and Operation schedule

DESCRIPTION	2016			2017											
	Q4			Q1			Q2		Q3		Q4				
Permitting and Operation Activities	O	C	D	J	F	M	A	M	J	J	A	S	O	N	D
Rankin Inlet Hamlet Council Approval															
NPC Conformity Determination															
NIRB Screening															
GN-CGS Quarry Permit															
Quarry Operation and Closure															

2.0 PROJECT PROPOSAL

Agnico Eagle is proposing to use the existing Itivia Quarry (62°47'58.88" N, 92°04'50.48"W) to build the fuel farm and laydown area, and the Rankin Inlet bypass road. The construction of these infrastructures is approved under NIRB Project Certificate 006 (NIRB File 11MN034) issued February 26, 2015, NWB Water Licence 2AM-MEL1631 issued April 1st, 2016, and NPC Conformity Determination received April 1, 2011.

Agnico Eagle believes that constructing the bypass road will ensure less traffic in Rankin Inlet and thus will increase safety of municipal roads and will reduce dust generation in town.

Approximately 300,000 m³ of material will be required from the Itivia Quarry to build these infrastructures. Activities would start in March 2017 and would continue until September 2017 pending regulatory approval.

The material will be extracted and used to build infrastructures using a drill, blast, crush, load, and place sequence.

2.1 Quarry Location and Design Criteria

To minimize the impacts on the environment and ensure the protection of cultural and archaeological sites along the road, specific design criteria were selected, as presented in Table 1.

Table 1: Itivia Quarry Design Criteria

Design Element	Criteria
Location and size	Use an existing quarry area to reduce environmental footprint. Proximity to fuel farm, laydown area and bypass road. No new road infrastructure required. Reduce the surface area of the quarry to the greatest extent possible.
Socio-economic & Community Wellbeing	Make the Itivia Quarry area safer, cleaner and better looking for the community of Rankin Inlet. Using construction material at the Itivia Quarry provides direct access to the Construction site reducing circulation of heavy equipment on municipal roads.

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Design Element	Criteria
Quarry material	Material suitable for construction Non-Potentially Acid Generating (NPAG) and non-metal leaching (ML)
Archaeological site and cultural site avoidance	Located and designed in an area where there is no known archaeological site If archaeological sites are identified, a minimum buffer of 30 m will be established as per GN's requirements.
Terrestrial environment protection (including raptor)	Minimize the footprint of the proposed quarry; locate the quarry in an area where there are no known raptor nest sites; ensure quarry is operated and designed for closure.
Fisheries and water quality protection	Avoid water bodies, ensure a standard 31 m buffer is respected; NPAG and non-ML sourced rock; design quarry to ensure controlled run-off for the protection of nearby waterbodies during operation and closure.

2.2 Project Alternatives

Agnico Eagle assessed the effects of using alternatives to the Project. Table 2 summarizes the alternatives assessment to evaluate the project with consideration and overview of the effects on construction activities at Itivia and community wellbeing.

Table 2: Project Alternatives and effects on Itivia construction

Alternative	Effect on Construction	Effect on Community Wellbeing
Hamlet Borrow Pit	<ul style="list-style-type: none"> • Longer hauling distance • Higher construction costs • Delay to advancement of construction 	<ul style="list-style-type: none"> • More circulation of heavy equipment in the Hamlet between quarry and construction sites. • Increased safety risks. • Increased dust generation in town. • Itivia Quarry left not-reclaimed and presenting safety hazards for community.
Approved quarries on AWAR (IOL)	<ul style="list-style-type: none"> • Longer hauling distance • Higher construction costs • Delay to advancement of construction 	<ul style="list-style-type: none"> • More circulation of heavy equipment in the Hamlet between quarry and construction sites. • Increased safety risks. • Increased dust generation in town. • Itivia Quarry left not-reclaimed and presenting safety hazards for community.
Do Nothing	<ul style="list-style-type: none"> • Bypass road not built • Fuel farm and permanent laydown area not built • Increased operation and construction costs of Meliadine Gold Project 	<ul style="list-style-type: none"> • Heavy traffic on municipal roads leading to increased safety risks, and increased dust generation and noise in town.

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The Itivia Quarry was chosen related to its close proximity to the construction sites. It will ensure efficient and less costly construction of Agnico Eagle’s infrastructures in Itivia. It was also selected among other options due to the fact that it will make the Itivia area cleaner, safer, better organized and nicer looking. The area was not reclaimed following past operations.

2.3 Quarry Equipment

Table 3 summarizes the equipment needs for the Itivia Quarry operations.

Table 3: Itivia Quarry Equipment Needs for Quarrying Activities

Equipment	Number	Size	Proposed used
Hydratrac Drill	1	2.6m x 10.31m	Drilling activities
Cat 345 Excavator	1	3.6m x 5.4m	Load blasted material onto haul trucks.
Cat 773 Haul Truck	2	5.6m x 10.2m	Move extracted material from quarry to laydown area and bypass road.
Cat D8 Dozer	1	3.1m x 6.1m	Place material onto laydown area and bypass road.
Service truck Fuel/Lube	1	2.5m x 10m	Resupply equipment with fuel, lube, etc.
Mechanic truck	1	2.4m x 7.26m	Fix and perform preventive maintenance on equipment.
Explosive truck	1	2.4m x 7.26m	Bring explosives from Meliadine site (where it is prepared) to quarry.
Allman Heaters	2	2.03m x 4.91m	Warm up equipment.

Tables 4 summarize consumables consumption and storage location for the Itivia Quarry.

Table 4: Construction Consumables and Storage Location for the Itivia Quarry

Material	Daily amount required (L/day)	Storage Location
Diesel Fuel	6000	GN fuel farm in Rankin Inlet; Meliadine site in approved facilities

Table 5 summarizes hazardous material and chemical use for the Itivia Quarry.

Table 5: Construction Consumables and Storage Location for the Itivia Quarry

Material	Storage Location
Ammonium nitrate	Stored at Meliadine in approved facilities, Emulsion will be prepared at Meliadine site in approved facility and transported daily when there is a blast at the Itivia Quarry.

Negligible waste will be generated as a result of the proposed quarrying. Based on previous experience and given that maintenance of equipment will be centered at the Meliadine project maintenance facilities, negligible waste is expected to be produced in addition to what has been previously approved at authorized facilities. All waste generated will be backhauled to approved/licensed waste disposal facilities. Table 6 presents approximate quantity of waste, treatment and disposal methods. Mitigation and management plans are in place to ensure

proper handling and disposal of any waste generated. Further information can be reviewed in the Emergency Response and Spill Contingency Plan and the Road Management Plan.

Table 6: Type of Waste, Quantity, Treatment and Disposal Method Anticipated during quarrying operations

Type of Waste	Quantity Generated	Disposal Method
Combustible wastes	Conservatively 1 m ³ /day of waste can be expected	Disposed of at the Meliadine incinerator.
Hazardous waste	Conservatively, 100 Liters/month is expected	Waste oil brought back to Meliadine Site for reuse in burners/furnaces or shipped south in an approved facility.
Non-combustible wastes	Conservatively 1 m ³ /week of waste can be expected	Disposed of at the Meliadine landfill.

3.0 DESCRIPTION OF ENVIRONMENTAL SETTING, IMPACTS, AND MITIGATION

3.1 Terrain, Soil and Permafrost

Environmental Setting

The proposed quarry consists of an elevated bedrock landform. It is located in the zone of continuous permafrost. Archean mafic metavolcanics and associated metasediments of the Rankin Inlet Group underlie the Itivia quarry area.

Impacts, Mitigation, and Monitoring

Site clearing and soil stripping and storage will occur at the beginning of the operation phase of the quarry. This will result in physical loss or alteration of terrain and soil within the project footprint. Due to the narrow footprint area, effects are anticipated to be minor. An area of approximately 1.3 hectares will be disturbed during operation and will be reclaimed at closure.

The development of the quarry to provide suitable construction materials will result in open excavations on the landscape. Excavation will result in changes in thermal regimes and permafrost conditions within the quarry. As a consequence the active layer beneath the excavated portions of the quarry may be depressed slightly and it is expected that small impacts within the footprint of the quarry will occur associated with permafrost degradation, which may include thaw-induced settlement. There will be localized negative effects to individual sources of borrow material; however, this is not expected to be a measureable impact to the terrain. Where possible the excavated portion of the quarry will be designed to promote drainage so that no water accumulation occurs.

3.2 Atmospheric Environment

Environmental Setting

The Itivia quarry is located in the southern portion of the Rankin Inlet community. Dust and noise are generated as a result of the abundance of human activity including airport activities, traffic through town, and construction and industrial activities.

Impacts, Mitigation, and Monitoring

The primary potential environmental impacts related to the operation of the Itivia Quarry include: noise, vibration and dust. Noise will primarily be generated by drilling and crushing equipment, and blasting. Increased traffic will also contribute to increased noise around the project site. The primary activities that could result in dust emissions include drilling and crushing. Vibrations will be the result of blasts which are expected to take place once or twice per week.

To mitigate noise, vibration and dust, Agnico Eagle will provide the following controls:

- conduct blasting operations during daytime only;
- all blasts will be monitored for vibration using seismometers;
- all drilling equipment will have dust suppression;
- the crusher will be located in an area to minimize dust emissions plus have a bag house;
- Loading, hauling and placing activities are not expected to generate dust, however, dust suppressant will be used when required.

Considering dust, noise and vibration monitoring activities proposed, operational design and standard mitigative measures, significant impacts to the atmospheric environment are not expected.

3.3 Marine Environment

Environmental Setting

The quarry site is located nearby Melvin Bay which is connected to the Hudson Bay.

Impacts, Mitigation, and Monitoring

The primary potential impacts to the marine environment include release of potential acid generating materials, surface water drainage through quarry and transport of blasting residuals and metals directly into Melvin Bay.

The following mitigative measures will be implemented:

- design blast to ensure explosives are not released to the marine environment;
- maintain the floor of the quarry slightly above the elevation of the surrounding area to promote drainage, and to avoid creating quarry lakes;
- prevent erosion and sedimentation through appropriate control measures;

- carry out Acid Rock Drainage/Metal Leaching (ARD/ML) testing and water quality monitoring in support of mitigation measures;
- maintain water quality through dust control/suppression;
- design quarry to ensure controlled run-off for the protection of Melvin Bay (e.g. from explosives) during operation and closure; and,
- ensure a standard 31 m buffer of undisturbed land is maintained between the quarry and Melvin Bay.

Continued monitoring, inspections, the implementation of mitigation measures and best management practices will ensure that potential impacts are minimized and mitigable.

3.4 Potential for Acid Rock Generation/Metal leaching

Environmental Setting

Preliminary geochemical testing to determine the suitability of the bedrock material for construction was completed in December 2016 using static test methods to assess its chemical composition, its potential to generate acid rock drainage, and its' potential to leach metals to the receiving environment upon exposure to ambient conditions.

Impacts, Mitigation, and Monitoring

Based on preliminary results, the Itivia quarry showed no potential to generate acid drainage based on low sulphide content and sufficient buffering capacity. The sampled quarry material also demonstrated low metal leaching potential in all quarries. Leaching test metal concentrations were below effluent discharge criteria (MMER 2012). Results can be found in Appendix D. Additional testing will be conducted in January 2017 to confirm preliminary results.

Through appropriate quarry design, monitoring, and standard mitigative measures (including controlling runoff), potential effects to the environment are not expected to result in long-term or significant impacts due to geochemistry of the rock or ARD. Furthermore, additional samples will be taken during operation to confirm ML/ARD potential.

3.5 Terrestrial Environment

Environmental Setting

In 2014 a Final Environmental Impact Statement for the Meliadine Gold project and including the Itivia bypass road, laydown and fuel farm area, and quarries along the road was prepared (Agnico Eagle, 2014). This information was used to assess and interpret potential effects associated with the Itivia quarry project.

The spatial scale of the terrestrial assessment for the Meliadine Gold Project consisted of a 1 km buffer surrounding the Rankin Inlet bypass road, with a total area of 10,598 ha for the whole project, and therefore is inclusive of the proposed quarry.

Please refer to Agnico Eagle, 2014, volume 6 for more detailed information on this previously assessed area.

Impacts, Mitigation, and Monitoring

The main sources of potential effects identified for the Itivia Quarry project include ground traffic, increased human presence and blasting activities. During the operation stage, sensory disturbances to wildlife may occur. Effects during the closure and post-closure phases will be reduced compared to effects during the operation phase, as the quarry will be geo-technically stable, designed to ensure proper drainage, will potentially become revegetated, and use of the area by equipment will be discontinued. Natural succession of vegetation communities and thus habitat restoration will begin, and sensory disturbances to wildlife will cease.

There are two main areas where effects will occur:

- The development of a quarry could result in the removal of suitable raptor nesting habitat. This effect will occur during the operation phase, and be reversed upon closure when suitable habitat will be made available to raptors. As confirmed by the Arctic Raptor Group, one known nest site is located approximately 250m from the quarry, but this is a rarely used nest site (only used once in 36 years of monitoring) that is likely an alternate nesting location to another known site further away from the quarry (A. Franke, University of Alberta, 2016, pers. comm). The remaining sites are located on islands (Panorama Island and Buff Island) south of Itivia Point (the location of the quarry). Agnico Eagle is working with the Arctic Raptor Group to develop a season-long monitoring program for breeding raptors near to and far from the disturbance area.
- Sensory disturbances occurring during operation will result in effective habitat loss for the wildlife ecosystem components. The amount of effective habitat loss is measured in a zone of influence which is different for each ecosystem component depending on their sensitivity to disturbance. Raptors will be most affected by sensory disturbance. A maximum of two pairs of Peregrine Falcons and two pairs of Rough-legged Hawks may experience some level of disturbance due to activity associated with the rock quarrying (A. Franke, University of Alberta, 2016, pers. comm). Based on the location of the quarry, it is suggested that ungulates, predatory mammals, small mammals, waterfowl, and upland breeding birds will be less affected by sensory disturbance by proximity to the quarry. This effect will occur during the operation phase and end at closure when use of the quarry will cease.

Measures taken to mitigate effects on wildlife habitat and reduce sensory disturbances include:

- minimizing the construction footprint, and
- safe and approved blasting procedures will be followed to reduce sensory disturbances

With these mitigation measures the effects of the habitat losses and sensory disturbances will be not significant.

Continued monitoring, the implementation of the mitigation measures and best management practices for the Itivia Quarry operation will ensure that potential impacts to the terrestrial environment as a result of the construction, operation, and closure of the quarry are minimized and mitigable.

3.6 Archaeology and Heritage Sites

Environmental Setting

There is no known archaeological site within the quarry boundaries.

According to the GN archaeological site database, the nearest site documented to the Itivia quarry is KeJM-10 located approximately 250 m southeast near the coast. The site was recorded in 1975, revisited in 1976 and identified as a Late Dorset lithic scatter.

Impacts, Mitigation, and Monitoring

No significant impact to archaeological and heritage sites are expected with the re-development of the previously exploited Itivia Quarry. As a mitigation measure, a 30 m buffer will be left undisturbed around site KeJM-10.

3.7 Traditional Knowledge and Land Use

Environmental Setting

Results of field studies, interview and focus groups done for the Meliadine Gold Project in 1999, 2010 and 2011 and encompassing the Itivia quarry area, indicated that the general Itivia quarry area was occupied with camps in the period before 1956.

The Itivia quarry area was also used in the 1990's and 2000's for quarrying activities. It is currently not in operation. Agnico Eagle has never conducted quarrying activities in this area in the past.

Based on field observations done in 2017, there is one cabin located in the vicinity of the quarry site. The cabin is in an abandoned state following the death of the owner but Agnico Eagle is currently reaching out to potential current owners.

The proposed quarry is not located near known designated sensitive environmental areas, parks, recreational areas, sport or commercial fisheries, protected wildlife areas or other designated protected areas.

4.0 MANAGEMENT AND OPERATIONS

Agnico Eagle prides itself on the fact that as a Company it can rely on a highly experienced senior management team that have remained together for many years (the senior management team members each average approximately 20 years of service with Agnico Eagle). As a Company, Agnico Eagle has an excellent track record as a local employer; in being a valued member of the communities in which they operate; in managing the environmental impact of our mining operations; in providing a safe work place and in reporting our performance to all of our stakeholders.

Agnico Eagle also has in place an Environmental Policy and a Health and Safety Policy to ensure core values for operating safely, protecting the environment, treating people and communities with respect, and making a profit are achieved.

In support of the original application for the Meliadine Gold Project, Agnico Eagle prepared the following plans:

- Borrow Pit and Quarries Management Plan;
- Incineration Management Plan;
- Landfill and Waste Management Plan;

- Hazardous Materials Management Plans ;
- Emergency Response and Spill Contingency Plan; and,
- Preliminary Closure and Reclamation Plan.

All management plans identified have taken into account established Nunavut guidelines and standards. In operation of the proposed quarry, Agnico Eagle will ensure practices outlined in the borrow pits and quarries, emergency response and spill contingency plans are followed.

5.0 RECLAMATION AND CLOSURE

Upon completion of operations in 2017, the quarry area will be decommissioned and left in a physically stable state and reclaimed as per the *Preliminary Closure and Reclamation Plan* approved under water Licence 2AM-MEL1631.

6.0 CONSULTATIONS

Table 7 summarizes participation activities that were conducted with regulators and public officials. Agnico Eagle is committed to continue liaising with regulators and public officials (GN-Nunavut Airports, GN-CGS, Hamlet) throughout planning, operation, closure and post-closure phases. Agnico Eagle is finalizing its Community Information Plan which will include community engagement prior to operating the quarry. Outreach activities will include bulletin, radio announcements, open houses, and door-to-door meetings with residents impacted.

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Table 7: Consultations and Meetings with Regulators

Date	Regulatory body attending	Meeting Type	Topics discussed and concerns shared
June 6, 2016	GN-Nunavut Airports GN-CGS Hamlet Officials	Meeting in person with presentation made by Agnico Eagle.	<ul style="list-style-type: none"> • Hamlet Council to discuss project on June 13, 2016. • Gravel/material requirements. • Water/sewage requirements. • Access to barracks road. • Signage will be important. • Blasting schedule will be important. • Bypass road construction timeline. • The Hamlet plans to develop the Itivia outcrop for Industrial area. Ensure quarry boundaries are outside that area.
August, 25, 2016	GN-Nunavut Airports GN-CGS Hamlet Officials	Meeting in person	<ul style="list-style-type: none"> • Quarry permit will be required with CGS for quarry.
November 28, 2016	GN-Nunavut Airports, GN-CGS, Hamlet Officials	Pre-Council meeting	<ul style="list-style-type: none"> • Blasting schedule in reference to boating season. • The Hamlet plans to develop the Itivia outcrop for Industrial area. Ensure quarry boundaries are outside that area. • Safety of site during operations (fence on floor and boulders on top) • Consult with local communities for cabins or land users in the area.
November 28, 2016	Hamlet Council and officials, GN-CGS	Council meeting	<ul style="list-style-type: none"> • Schedule of operations (24hr/7d)? • Bypass road construction timeline
December 13, 2016	Hamlet Council	Council meeting	Motion for project approved.

7.0 REFERENCES

Franke, A. 2017. Personal communication. University of Alberta. Communication held on January 6, 2017.

Agnico Eagle. 2014. Volume 6.0 Terrestrial Environment and Impact Assessment. Final Environmental Impact Statement (FEIS) – Meliadine Gold Project, Nunavut. Prepared by Golder Associates Ltd. April 2014.

MMER (Metal Mining Effluent Regulations). 2012. Consolidated Regulations. SOR/2002-222. Last amended on March 2, 2012; current to October 2, 2012. <http://laws-lois.justice.gc.ca/PDF/SOR-2002-222.pdf>.

NPC (Nunavut Planning Commission). 2000. Keewatin Regional Land Use Plan.

APPENDIX A

NPC Conformity Determination



Dec. 22 2016

Jaida Ohokannoak
 Manager, Technical Administration
 Nunavut Impact Review Board (NIRB)
 Box 1360, Cambridge Bay, NU X0B 0C0
 By email: info@nirb.ca

Karén Kharatyan
 Manager of Licensing
 Nunavut Water Board (NWB)
 P.O. Box 119, Gjoa Haven, NU X0B 1J0
 By email: licensing@nwb-oen.ca

Tracey McCaie
 Manager Land Administration
 Indigenous and Northern Affairs Canada
 P.O. Box 100, Iqaluit, NU X0A 0H0
 By email: tracey.mccaie@aandc.gc.ca

Ralph Ruediger
 Director Community Development
 Government of Nunavut, Department of
 Community & Government Services
 By email: rruediger@gov.nu.ca

Brenda Osmond, Lands Administrator
 Kivalliq Inuit Association (KivIA)
 Box 340, 32-4 Sivulliq Avenue, Rankin Inlet, NU
 X0C 0G0
 By email: bosmond@kivalliqinuit.ca

David Frenette,
 Environmental Coordinator
 Agnico Eagle Mines Ltd
 765, chemin de la mine Goldex c.p. 87,
 Val-d'Or, QC J9P 4N9
 By email: david.frenette@agnicoeagle.com

Ms Manon Turmel
 Agnico Eagle Mines Ltd.
 93 rue Arseneault
 Val d'Or Quebec J9P0E9 Canada
 By email:
nunavut.environment.permitting@agnicoeagle.com

Dear Ms. Ohokannoak, Mr. Kharatyan, Ms. McCaie, Mr. Ruediger, Ms. Osmond, Mr. Frenette, Ms. Turmel:

RE: NPC File # 148382 [Itivia Quarry Amendment to Meliadine Mine]

The following works and activities have been proposed in the above-noted proposal to amend a previously approved project:

1. Utilize existing Itivia Quarry in the Hamlet of Rankin Inlet to supply aggregate for the Meliadine Mine project.
2. Build a bypass road to the quarry from the Hamlet.

A complete description of the project proposal reviewed by the NPC can be accessed online using the link below. The Nunavut Planning Commission (NPC) has completed its review of the above noted proposed amendment. The filing history of this project is listed below:

1. Application date with NIRB: April 26, 2011, File Number: 11MN034
2. Keewatin Regional Land Use Plan (positive conformity determination): June, 2011
3. NIRB Project Certificate 006 issued February 26, 2015.

4. NWB Water Licence: 2AM-MEL1631 issued April 1, 2016

All-weather road:

1. Application date with NIRB (11RN017): February 6, 2011
2. NPC Positive conformity decision: April 1, 2011
3. NIRB decision: 11RN017 included under NIRB file 11MN034.
4. NWB Water License: 2BW-MEL1525. Issued on June 9, 2015. In the process of being cancelled.

Meliadine Underground exploration:

1. Application date with NIRB: February 25, 2010, File Number: 10EA018
2. NPC: Conformity decision on March 8, 2010.
3. NWB Water License: 2BB-MEL1424. Issued June 22, 2014
4. NIRB: Screening Decision Report received on May 5, 2010. No review required under Part 5 or 6.

Pre-development or site preparation work (Meliadine Site):

1. NWB Water License: 8BC-MEL1516. Issued on September 5, 2016. In the process of being cancelled.

The Nunavut Planning Commission (NPC) has completed its review of the above noted project proposal.

The NPC has determined that the above-noted project proposal is a significant modification to the project because of quarrying activities over and above those already considered. It conforms to the Keewatin Regional Land Use Plan (KRLUP). The proponent has undertaken to comply with the applicable conformity requirements of Appendix C, G, and H of the KRLUP.

The above-noted project proposal requires screening by the NIRB under section 12.4.3 of the Nunavut Land Claims Agreement as amended because it is for a component or activity that was not part of the previously amended proposal and its inclusion is a significant modification of the project. By way of this letter, the NPC is forwarding the project proposal with this determination to the NIRB for screening. Project materials, including the applicable conformity requirements, are available at the following address:

<http://npc.strata360.com/portal/project-dashboard.php?appid=148382&sessionid=>

The regulatory authorities to which this letter is addressed are responsible under the Nunavut Planning and Project Assessment Act (NUPPAA) to implement any of the applicable requirements by incorporating the requirements directly, or otherwise ensuring that they must be met, in the terms and conditions of any authorizations issued.

This conformity determination applies only to the above noted project proposal as submitted. Proponents may not carry out projects and regulatory authorities may not issue licenses, permits and other authorizations in respect of projects if a review by the NPC is required. Regulatory authorities may consult with the NPC to obtain recommendations on their duties to implement the existing land use plans prior to issuing licenses, permits and other authorizations under subsection 69(6) of the NUPPAA.

My office would be pleased to discuss how best to implement the applicable requirements and to review any draft authorizations that regulatory authorities wish to provide for that purpose. If you have any questions, please do not hesitate to contact me at (867) 857-2242.

Sincerely,



Peter Scholz
Senior Planner,
Nunavut Planning Commission

APPENDIX B

Rankin Inlet Hamlet Council Motion on the Itivia Quarry Project



**The Corporation of the Municipality of Rankin Inlet
Regular Council Meeting – No. 23-16
MINUTES
Tuesday Dec. 13th 2016
1:30 P.M**

Present:

Mayor: Robert Janes
Deputy Mayor: Harry Towtongie
Councillors: Evan Morrison, Selma Eccles, Simon Kowmuk, Kathleen Merritt, Theresie Tungilik, Violet Twyee, Martha Hickes

Absent:

Staff: SAO- Justin Merritt, Comptroller- Mikki Adams

1. CALL TO ORDER

Mayor Robert Janes recognized a quorum and called the meeting to order at 1.30 P.M.
Mayor Janes and council recognized Joe Tartak for his 30 years of service to the Hamlet of Rankin Inlet.

2. APPROVAL OF AGENDA

Res. No: 162-16
Moved by: H.Towtongie
Seconded by: M.Hickes

BE IT RESOLVED THAT: The agenda is approved as presented with changes, CEDO officer report added.

“Carried Unanimously”

3. DECLARATIONS OF CONFLICT OF INTEREST-

Councillor Eccles declares conflict on the Agnico Eagle presentation decisions.

4. DELEGATIONS – Agnico Eagle Mines

Agnico Eagle Mines(AEM) represented by Pujjuut Kusugak is at Council to answer any further questions on AEM’s permit application to Quarry 300,000. cu meter of aggregate from the Itivia Quarry as well as concerns on the access road and laydown area on airport land. Council and Mayor

asked when drilling, crushing, and blasting would be done, AEM stated that beginning in March that for about 3 months drilling and crushing would go on 24 hours per day and that blasting would only be during certain times of the daytime. Also, AEM would provide security at the sight and inform the community of all blasting and other notices. Council is concerned about the noise and AEM stated the noise level would be equivalent to a drilling rig. Council had concern's about community consultation and AEM said they will work with the community on this.

Res.No.: 163-16
Moved by: S. Kowmuk
Seconded by; H. Towtongie

To approve AEM's permit to Quarry 300,000. cu.meters of aggregate at the Itivia Quarry for their laydown area and access road contingent on approval from CG@S.

5 in Favor

2 against Kathleen Merritt, Evan Morrison voted against the quarrying until a community consultation was done.

"Motion Carried"

Res.No.; 164-16
Moved by: E. Morrison
Seconded by: K. Merritt

To approve construction of a laydown area for materials as well as 2 fuel storage tanks and as well an access road from Itivia to the area on airport land going behind Nipisar Lake to connect with the road going out of town contingent on Nunavut Airports approval.

"Carried Unanimously"

5. APPROVAL OF PREVIOUS MINUTES

a. Regular Meeting on Nov.28th - 2016

Res. No: 165-16
Moved by: K.Merritt
Seconded by: T.Tungilik

BE IT RESOLVED THAT: the minutes of Nov.28TH- 2016 be approved with minor changes.

"Carried Unanimously"

6. FINANCIAL STATEMENTS- None

7. CORRESPONDENCE – NONE

8. COMMITTEE REPORTS-

a.) Lands – Application for development permit for Natural Resources Canada on Permafrost Monitor on Lot 796 Plan 3396.

Res.No.: 166-16
Moved by; T.Tungilik
Seconded by: S.Eccles

BE IT RESOLVED THAT: To Approve the Application for Development Permit of NRC to install permafrost monitor on Lot 796 Plan 3396 subject to condition that the monitor shall not block the snow dumping area.

“Carried Unanimously”

b.) General Commercial lot advertisement of Lots 15,16 and 17 Block 7 Plan 4152, Lots 132,133 and 134 Block 7 Plan 4444.

Res.No. : 167-16
Moved by: T. Tungilik
Seconded by: M. Hickee

BE IT RESOLVED THAT: To approve the two weeks posting of the General Commercial lots on Block 7.
“Carried Unanimously”

9. DEFERRED BUSINESS – None

10. BY -LAWS- None

11. OLD BUSINESS – None

12. NEW BUSINESS- None

13. MAYOR/COUNCILLOR REPORTS/SAO

SAO REPORT- SAO stated that the Gala Ball went well and about \$45,000.00 was donated to community groups, also the application deadline for community wellness applications is over and Council decided to wait for the new council to have a committee approve applications.

Coun. Eccles stated that the radio station is not kept clean and will work on improving radio station in the new year. Coun. Twyee was thankful for her time on council. Coun. Morrison attended the Social – Economic meeting in Baker Lake but said it was not well attended or organized and said he enjoyed his 2 years on Council. Coun. Merritt mentioned the Recreation committee met and the Christmas Activities schedule will be out this week and the elders breakfast will be held Dec.21 in the morning at the Rec. Hall. Coun. Tungilik asked about the street light pole replacement on Ayaruak St. , The Lands officer working on this and letters have been sent to QEC. Also, she inquired about any group who may be working on a petition to limit the amount of liquor that can be ordered at one time, SAO responded that no one has come forward on this matter, also she inquired about the increase in Honoraria to Council members she worked on as part of the finance committee a while back. SAO Mentioned that the finance committee recommendations were put into a by law that passed 3rd reading about 1.5 years ago,

Mayor Janes congratulated those elected to council and thanked Councillors Kowmuk, Morrison and Twyee for their hard work on Council.

14. CLOSED MEETING (In Camera) - None

15. **ADJOURNMENT**

Res.No.: 168-16
Moved by: H.Towtongie
Seconded by: S. Kowmuk

BE IT RESOLVED THAT: The meeting be adjourned at 3.00 pm
"Carried Unanimously"



Mayor

Senior Administrative Officer

APPENDIX C

GN-CGS Non-objection Letter NIRB Screening

APPENDIX D

ARD-ML Testing Laboratory Results

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
 Lakefield - Ontario - K0L 2H0
 Phone: 705-652-2000 FAX: 705-652-6365

08-January-2017

Agnico Eagle Mines Limited

Attn : Jeffrey Pratt

Date Rec. : 28 December 2016
LR Report: CA13744-DEC16
Reference: PO#513894 -
 AEM-Meliadine Gold
 Project

Baker Lake,
 , X0C 0A0
 Phone: (819) 759-3555 x3928, Fax:(819) 759-3663

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: ITIVIA 1	6: ITIVIA 2
Sample Date & Time			19-Dec-16 11:30	19-Dec-16 11:35
Paste pH	06-Jan-17	15:31	9.72	9.89
Fizz Rate [---]	06-Jan-17	15:31	3	3
Sample weight [g]	06-Jan-17	15:31	1.90	1.88
HCl Added [mL]	06-Jan-17	15:31	20.00	20.00
HCl [Normality]	06-Jan-17	15:31	0.10	0.10
NaOH [Normality]	06-Jan-17	15:31	0.10	0.10
NaOH to pH=8.3 [mL]	06-Jan-17	15:31	12.30	8.90
Final pH	06-Jan-17	15:31	1.31	1.54
NP [t CaCO3/1000 t]	06-Jan-17	15:31	20	30
AP [t CaCO3/1000 t]	06-Jan-17	15:32	1.88	1.25
Net NP [t CaCO3/1000 t]	06-Jan-17	15:32	18.4	28.2
NP/AP [ratio]	06-Jan-17	15:32	10.8	23.6
Sulphur (total) [%]	05-Jan-17	10:28	0.045	0.021
Acid Leachable SO4-S [%]	05-Jan-17	10:50	< 0.02	<0.02
Sulphide [%]	05-Jan-17	10:49	0.06	0.04
Carbon (total) [%]	05-Jan-17	10:28	0.189	0.340
Carbonate [%]	06-Jan-17	15:48	0.824	1.57

Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

11-January-2017

Agnico Eagle Mines Limited

Attn : Jeffrey Pratt

Baker Lake,
, X0C 0A0
Phone: (819) 759-3555 x3928, Fax:(819) 759-3663

Date Rec. : 28 December 2016
LR Report: CA13747-DEC16
Reference: PO#513894 -
AEM-Meliadine Gold
Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: ITIVIA 1	6: ITIVIA 2
Sample Date & Time			19-Dec-16 11:30	19-Dec-16 11:35
Silver [µg/g]	09-Jan-17	09:01	0.02	0.02
Aluminum [µg/g]	05-Jan-17	15:08	33000	52000
Arsenic [µg/g]	09-Jan-17	09:02	8.1	0.9
Barium [µg/g]	09-Jan-17	09:02	67	136
Beryllium [µg/g]	09-Jan-17	09:02	0.25	0.28
Bismuth [µg/g]	09-Jan-17	09:02	< 0.09	< 0.09
Calcium [µg/g]	05-Jan-17	15:08	79000	71000
Cadmium [µg/g]	09-Jan-17	09:02	0.10	0.09
Cobalt [µg/g]	09-Jan-17	09:02	61	57
Chromium [µg/g]	09-Jan-17	09:02	880	740
Copper [µg/g]	09-Jan-17	09:02	87	69
Iron [µg/g]	05-Jan-17	15:08	75000	77000
Potassium [µg/g]	05-Jan-17	15:08	2400	3500
Lithium [µg/g]	09-Jan-17	09:02	12	15
Magnesium [µg/g]	05-Jan-17	15:08	55000	55000
Manganese [µg/g]	09-Jan-17	09:02	1400	1400
Molybdenum [µg/g]	09-Jan-17	09:02	0.4	0.5
Sodium [µg/g]	05-Jan-17	15:08	5600	8600
Nickel [µg/g]	09-Jan-17	09:02	270	200
Phosphorus [µg/g]	05-Jan-17	15:08	210	200
Lead [µg/g]	09-Jan-17	09:02	0.99	0.78
Antimony [µg/g]	09-Jan-17	09:02	< 0.8	< 0.8
Selenium [µg/g]	09-Jan-17	09:02	< 0.7	< 0.7
Tin [µg/g]	09-Jan-17	09:02	< 6	< 6
Strontium [µg/g]	09-Jan-17	09:02	110	89
Titanium [µg/g]	09-Jan-17	09:02	3900	4200
Thallium [µg/g]	09-Jan-17	09:02	< 0.02	0.03

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
 Lakefield - Ontario - K0L 2H0
 Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA13747-DEC16

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: ITIVIA 1	6: ITIVIA 2
Uranium [µg/g]	09-Jan-17	09:02	0.13	0.13
Vanadium [µg/g]	09-Jan-17	09:02	240	240
Yttrium [µg/g]	09-Jan-17	09:02	11	13
Zinc [µg/g]	09-Jan-17	09:02	72	66

*Brian Graham B.Sc.
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SGS Canada Inc.

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 Lakefield - Ontario - KOL 2H0
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11-January-2017

Agnico Eagle Mines Limited

Attn : Jeffrey Pratt

Baker Lake,
 , X0C 0A0
 Phone: (819) 759-3555 x3928, Fax:(819) 759-3663

Date Rec. : 28 December 2016
LR Report: CA13749-DEC16
Reference: PO#513894 -
 AEM-Meliadine Gold
 Project

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: ITIVIA 1	6: ITIVIA 2
Sample Date & Time			19-Dec-16 11:30	19-Dec-16 11:35
Sample weight [g]	06-Jan-17	15:35	250	250
Volume D.I. Water [mL]	06-Jan-17	15:35	750	750
Initial pH	06-Jan-17	15:35	9.82	9.93
Final pH	06-Jan-17	15:35	9.91	10.05
Alkalinity [mg/L as CaCO3]	09-Jan-17	17:00	31	38
pH [no unit]	09-Jan-17	17:00	9.51	9.79
Conductivity [uS/cm]	09-Jan-17	17:00	83	91
Sulphate [mg/L]	09-Jan-17	11:51	4	3
Mercury [mg/L]	10-Jan-17	08:50	< 0.00001	< 0.00001
Silver [mg/L]	10-Jan-17	14:21	< 0.00005	< 0.00005
Aluminum [mg/L]	10-Jan-17	14:21	0.099	0.174
Arsenic [mg/L]	10-Jan-17	14:21	0.0131	0.0013
Barium [mg/L]	10-Jan-17	14:21	0.00117	0.00101
Boron [mg/L]	10-Jan-17	14:21	0.068	0.060
Beryllium [mg/L]	10-Jan-17	14:21	< 0.000007	< 0.000007
Bismuth [mg/L]	10-Jan-17	14:21	< 0.000007	< 0.000007
Calcium [mg/L]	10-Jan-17	14:21	5.48	3.17
Cadmium [mg/L]	10-Jan-17	14:21	0.000003	< 0.000003
Cobalt [mg/L]	10-Jan-17	14:21	0.000024	0.000020
Chromium [mg/L]	10-Jan-17	14:21	0.00074	0.00058
Copper [mg/L]	10-Jan-17	14:21	0.00103	0.00021
Iron [mg/L]	10-Jan-17	14:21	0.022	0.024
Potassium [mg/L]	10-Jan-17	14:21	3.70	4.45
Lithium [mg/L]	10-Jan-17	14:21	< 0.0001	< 0.0001
Manganese [mg/L]	10-Jan-17	14:21	0.00065	0.00069
Magnesium [mg/L]	10-Jan-17	14:21	0.736	0.441
Molybdenum [mg/L]	10-Jan-17	14:21	0.00061	0.00264

SGS Canada Inc.

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 Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA13749-DEC16

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: ITIVIA 1	6: ITIVIA 2
Sodium [mg/L]	10-Jan-17	14:21	8.37	13.8
Nickel [mg/L]	10-Jan-17	14:21	0.0002	0.0001
Phosphorus [mg/L]	10-Jan-17	14:21	0.005	0.020
Lead [mg/L]	10-Jan-17	14:21	0.00002	0.00002
Antimony [mg/L]	10-Jan-17	14:21	0.0010	0.0010
Selenium [mg/L]	10-Jan-17	14:21	0.00014	0.00033
Silicon [mg/L]	10-Jan-17	14:21	10.6	9.79
Tin [mg/L]	10-Jan-17	14:21	0.00030	0.00006
Strontium [mg/L]	10-Jan-17	14:21	0.0106	0.00569
Titanium [mg/L]	10-Jan-17	14:21	0.00062	0.00054
Thallium [mg/L]	10-Jan-17	14:21	< 0.000005	< 0.000005
Uranium [mg/L]	10-Jan-17	14:21	0.000004	0.000006
Vanadium [mg/L]	10-Jan-17	14:21	0.0382	0.0438
Zinc [mg/L]	10-Jan-17	14:21	< 0.002	< 0.002
Zirconium [mg/L]	10-Jan-17	14:21	< 0.002	< 0.002

*Brian Graham B.Sc.
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 Environmental Services, Analytical*