



**MELIADINE GOLD PROJECT**

2020 Mine Plan

Production Lease KVPL11D01

**Prepared by:**

**Agnico Eagle Mines Limited**

**January 2020**

## EXECUTIVE SUMMARY

Condition 5.09 of Production Lease KVPL11D01 for the Meliadine Gold Project states:

*At least six months prior to the commencement of Commercial Production, AEM shall deliver to KIA its Mine Plan for the balance of the calendar year and the following calendar year, and thereafter on or before May 31st in each year of the Term its Mine Plan for the next calendar year, detailing at least the following*

- (a) A description of the activities and work that AEM proposes to perform in that year on the Leased Land and the areas within the Leased land that such activities and work are expected to occur, including a listing of proposed construction and infrastructure changes, additions and removals, and major equipment to be brought onto the Leased Land;*
- (b) The waste management plan for the Project; and*
- (c) A description of the topographical features and any natural or manmade features, structures, works and waters that may be affected*

This document presents the 2020 Annual Mine Plan for the Meliadine Gold Project. The Meliadine Gold Mine began the operation phase of the project in Q2 2019, and thus, will be entering its second year of operations. In addition to production activities throughout the 2020 season, a number of construction projects will be undertaken near the main mine site area. The dry stacked tailings will continue to be deposited in Cell One throughout the year and both Waste Rock Storage Facility 1 (WRSF1) and Waste Rock Storage Facility 3 (WRSF3) will receive the overburden and waste rock produced.. Waste management will follow the operation schedule as resumed in this plan on a yearly basis. Environmental monitoring (wildlife, aquatic effects, groundwater, noise and air) will continue through 2020 in support of all operational undertakings at the Meliadine site as required by the NWB Type A Water License 2AM-MEL1631, the amended NIRB Project Certificate No.006 and MDMER regulations.

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## **1. Introduction**

Agnico Eagle Mines Limited (Agnico Eagle) is operating the Meliadine Gold Mine, 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 mine 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). The Meliadine Gold Mine began the operation phase of the project in Q2 2019, and thus, will be entering its second year of operations. In addition to production activities throughout the 2020 season, a number of construction projects will be undertaken near the main mine site area. The dry stacked tailings will continue to be deposited in Cell One throughout the year and both Waste Rock Storage Facility 1 (WRSF1) and Waste Rock Storage Facility 3 (WRSF3) will receive the overburden and waste rock produced.

The following sections outline the exploration, construction, operation and environmental activities planned for 2020 at the Meliadine Gold Mine, conducted in accordance with Production Lease KVPL11D01

## **2. Planned Exploration Activities**

The 2020 exploration program for the Meliadine Gold Project area will be conducted by the Exploration Division of Agnico Eagle Mines Ltd. Consequently, this work will be performed under KIA Land use Licence KVL302H268.

## **3. Planned Construction Activities**

In 2020, Agnico Eagle is planning to conduct the following activities under production lease KVPL11D01 (Refer to the general site layout in Figure 2):

- Completion of Saline Pond 4;
- Construction of Pond CP6 and associated infrastructures (Berm CP6);
- Expansion of existing camp facilities (possible);

- Expansion of the Multi-Services Building facility (MSB) (possible);
- Completion of WRSF3;
- Construction of Tiriganiaq pit 2;
- Finalize existing site roads.

In 2020, 215 165 tons of waste rock will be used for construction activities.

#### **4. Planned Production Activities**

In carrying out the activities described in this Mine Plan, Agnico Eagle will comply with the terms and conditions of the Meliadine Inuit Impact and Benefit Agreement (IIBA), amended and restated as of February 17, 2017, between Agnico Eagle and the Kivalliq Inuit Association.

In 2020, Agnico Eagle's mining plan is to operate Tiriganiaq underground mine and Open pit at the Meliadine mine site. A total of 2 260 000 tons of rock will be extracted from underground and 4 500 000 tons for open pit over the year. The mine plan consists of hauling 528 000 tons of waste rock, 70 000 tons of marginal and 1 322 000 tons of ore to surface. Furthermore, 445 000 tons of tailings will be returned underground, and 348 000 tons of waste will remain underground as rockfill.

#### **5. Waste Management Plan for the Project**

Waste rock and overburden will be trucked to the waste rock storage facilities (WRSFs) until the end of mine operation, with distribution according to an operation schedule.

In 2020, 1 680 000 tons of solid tailings will come from the Mill: 445 000 tons of solid tailings will be used as underground backfill and 1 235 000 tons will be placed as dry stacked within the TSF. Table 4.1 to 4.3 provide a description of the waste management for the facilities.

**Table 4.1: 2020 Quantities, and Distribution of Tailings**

Year	Mine Year	Tailings Solids from Mill (t)	Tailings Solids to be Used as Underground Backfill (t)	Tailings Solids to be Placed in Dry Stacked TSF (t)
2020	Yr 1	1,680,288	445,287	1,235,001

**Table 4.2: 2020 Mine Production Schedule**

	2020				
Underground	Q1	Q2	Q3	Q4	TOTAL
Ore Tonnage	306,527	330,602	343,322	341,805	1,322,256
Marginal Ore Tonnage	25,433	12,623	14,311	17,531	69,897
Waste Tonnage Hauled to Surface	130,945	146,346	138,064	112,750	528,105

OPEN PIT	Q1	Q2	Q3	Q4	TOTAL
<b>TIR_01</b>					
Overburden Tonnage	474,445				474,445
Waste Rock Tonnage	861,208				861,208
Ore Tonnage					
<b>TIR_02</b>					
Overburden Tonnage		620,875	11,306		632,180
Waste Rock Tonnage		198,539	1,073,865	1,156,418	2,428,822
Ore Tonnage		3,916	59,033	49,533	112,481

**Table 4.3: 2020 Quantities, and Distribution of Waste Rock**

Mine Year	Total Waste Rock from Underground Operations (t)	Total Waste Rock from Surface Operations (t)	Utilization of Waste Rock (t)			Waste Rock to be Placed in WRSFs (t)		
			Construction / Thermal Protection	Rockfill for Underground Backfill	TSF Closure Cover	WRSF1	WRSF2	WRSF3
Yr 1	871,289	3,280,092	143,149	348,970	192,926	324,611		3,141,726

**6. Major Equipment to be Brought onto the Leased Land**

Shown in table 6.1 below is the preliminary list of major equipment to be brought in 2020, in addition to this list, two Toyota Landcruisers might be added.

**Table 6.1 Major Equipment to be Brought onto the Leased Land**

WP6500-S-150-136 - SCOOP - Develop scoops 12yd Sanvik LH517i
WP6500-S-150-135 - SCOOP - Production scoop 12yd LH517i - 2020
WP6500-S-150-158 - SCISSOR LIFT - Maclean SL3 - 2020
WP6500-S-150-248 - KUBOTA TRACTOR M5-111CAB - Supervisor - 2020

Figure 1: General layout plan

