

Appendix 3 : 2022 Mine Plan

Production Lease KVPL11D01
Meliadine Mine Plan



AGNICO EAGLE

MELIADINE GOLD PROJECT

2022 Mine Plan

Production Lease KVPL11D01

Prepared by:

Agnico Eagle Mines Limited

EXECUTIVE SUMMARY

Condition 5.09 of the Kivalliq Inuit Association (KIA) Production Lease KVPL11D01 (June 2017) for the Meliadine Gold Project (the Mine or 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 2022 Annual Mine Plan for the Mine. The Mine began the operation phase in Q2 2019, and thus, will be entering its fourth year of operations. In addition to production activities throughout the year, a number of construction projects will be continued or undertaken near the main mine site area in 2022. 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. Mine waste management will follow the operation schedule as resumed in this plan on a yearly basis. Environmental monitoring (wildlife, aquatic effects, groundwater, geochemistry, noise, air, etc.) will continue through 2022 in support of all operational undertakings at the Mine as required by the Nunavut Water Board (NWB) Type A Water Licence 2AM-MEL1631, Nunavut Impact Review Board (NIRB) Project Certificate No. 006 and Metal and Diamond Mining Effluent Regulations (MDMER).

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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 fourth year of operations. In addition to production activities throughout the 2022 season, several construction projects will be undertaken near the mainmine 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 2022 at the Meliadine Gold Mine, conducted in accordance with Production Lease KVPL11D01.

2. Planned Exploration Activities

The 2022 exploration program for the Meliadine Gold Project area will be conducted by the Exploration Division of Agnico Eagle Mines Ltd (Agnico Eagle). Consequently, this work will be performed under KIA Land use Licence KVL302H268.

3. Planned Construction Activities

In 2022, Agnico Eagle is planning to conduct the following activities under production lease KVPL11D01 (Refer to the general site layout in Figure 1):

- Completion of the contractor garage;

- Completion of the MSB Garage extension;
- Completion of the Water Treatment Complex (WTC);
- Completion of the west side gymnasium, adjacent to the MSB;
- Completion of a second grinding thickener tank;
- OP2 extension;
- Power plant expansion;
- CIL/FP expansion;
- Addition of a cement handling facility at the Paste Plant;
- Construction of Containment Pond 2 and its associated Berm and Channels 9 and 10;
- Continuation of WRSF1;
- Continuation of WRSF3;
- Continuation of Tiriganiaq Open Pit 1;
- Construction of the waterlines for discharge to sea, pending regulatory approvals.

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 2022, Agnico Eagle mining plan is to operate Tiriganiaq underground mine and Tiriganiaq open pit #1 at the Meliadine mine site. A total of 2,184,546 tonnes of rock will be mined underground. The mine plan consists of hauling 358,174 tonnes of waste rock, 86,305 tonnes of marginal and 1,361,713 tonnes of ore to surface. Furthermore, 386,638 tonnes of tailings will be returned underground, and 378,354 tonnes of waste will remain underground as backfill.

From the Tiriganiaq open pits #1, a total of 4,921,236 tonnes will be extracted over the year.

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 the mine operation, with distribution according to the operation schedule.

In 2022, 1,752,000 tonnes of solid tailings will come from the Mill: 386,638 tonnes of solid tailings will be used as underground backfill and 1,365,362 tonnes will be placed in the dry stacked within the Tailings Storage Facility (TSF).

Table 1: 2022 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)
2022	Yr 3	1,752,000	386,638	1,365,362

Table 2: 2022 Mine Production Schedule

UNDERGROUND	2022				
Underground	Q1	Q2	Q3	Q4	TOTAL
Ore Tonnage	331,335	349,028	345,590	335,760	1,361,713
Marginal Ore Tonnage	13,713	18,284	31,116	23,192	86,305
Waste Tonnage Hauled to Surface	87,573	84,188	80,157	106,256	358,174
Waste Tonnage to Remain Underground as Backfill	88,067	90,345	103,064	96,878	378,354

OPEN PIT	Q1	Q2	Q3	Q4	TOTAL
TIR_01					
Overburden Tonnage	850,000	363,024	128	292,559	1,505,712
Waste Rock Tonnage	234,726	839,604	1,168,418	843,736	3,086,484
Ore Tonnage	61,429	73,031	107,114	87,466	329,041

Table 3: 2022 Quantities, and Distribution of Waste Rock

Year	Mine Year	Total Waste Rock from Mine Operation (t)	Utilization of Waste Rock (t)			Waste Rock to be Placed in WRSFs(t)	
			Surface Construction/ Thermal Protection	Rockfill for Underground Backfill	TSF Closure Cover	WRSF1	WRSF3
2022	Yr 3	3,823,012	708,574	325,422	207,033	1,781,983	800,000

Table 4: 2022 Quantities, and Distribution of Overburden

Year	Mine Year	Total Overburden from Mine Operation (t)	Overburden Stockpile for TSF Closure Cover (t)	Overburden to be Placed in WRSFs (t)	
				WRSF1	WRSF3
2022	Yr 3	1,505,712	0	267,127	1,238,585

6. Major Equipment to be Brought onto the Leased Land

Shown in table 5 below is the preliminary list of major equipment to be brought in 2022.

Table 5: Major Equipment to be Brought onto the Leased Land

SANDVIK TH551i Underground Truck

